



REPORT No.: SZ24070315S01

Annex F Conducted Power

Note:

Conducted power unit: dBm

The target power was recorded in the manufacturer's document.

1.4	16QAM	1	0	23.36	23.24	23.17	24
1.4	16QAM	1	3	23.36	23.54	23.32	
1.4	16QAM	1	5	23.34	23.31	23.23	
1.4	16QAM	3	0	23.39	23.32	23.34	
1.4	16QAM	3	1	23.38	23.33	23.27	
1.4	16QAM	3	3	23.39	23.39	23.37	
1.4	16QAM	6	0	22.50	22.36	22.33	23
1.4	64QAM	1	0	22.53	22.55	22.41	23
1.4	64QAM	1	3	22.34	22.31	22.36	
1.4	64QAM	1	5	22.50	22.26	22.50	
1.4	64QAM	3	0	22.44	22.43	22.36	
1.4	64QAM	3	1	22.51	22.32	22.35	
1.4	64QAM	3	3	22.34	22.34	22.31	
1.4	64QAM	6	0	22.42	22.39	22.39	23
1.4	256QAM	1	0	18.50	18.64	18.52	19
1.4	256QAM	1	3	18.40	18.38	18.39	
1.4	256QAM	1	5	18.54	18.30	18.51	
1.4	256QAM	3	0	18.46	18.39	18.39	
1.4	256QAM	3	1	18.62	18.42	18.43	
1.4	256QAM	3	3	18.43	18.40	18.34	
1.4	256QAM	6	0	18.38	18.35	18.37	19

1.4	16QAM	1	0	22.75	22.63	22.56	23.5
1.4	16QAM	1	3	22.75	22.93	22.71	
1.4	16QAM	1	5	22.73	22.70	22.62	
1.4	16QAM	3	0	22.78	22.71	22.73	
1.4	16QAM	3	1	22.77	22.72	22.66	
1.4	16QAM	3	3	22.78	22.78	22.76	
1.4	16QAM	6	0	21.89	21.75	21.72	22.5
1.4	64QAM	1	0	21.92	21.94	21.80	22.5
1.4	64QAM	1	3	21.73	21.70	21.75	
1.4	64QAM	1	5	21.89	21.65	21.89	
1.4	64QAM	3	0	21.83	21.82	21.75	
1.4	64QAM	3	1	21.90	21.71	21.74	
1.4	64QAM	3	3	21.73	21.73	21.70	
1.4	64QAM	6	0	21.81	21.78	21.78	22.5
1.4	256QAM	1	0	17.89	18.03	17.91	18.5
1.4	256QAM	1	3	17.79	17.77	17.78	
1.4	256QAM	1	5	17.93	17.69	17.90	
1.4	256QAM	3	0	17.85	17.78	17.78	
1.4	256QAM	3	1	18.01	17.81	17.82	
1.4	256QAM	3	3	17.82	17.79	17.73	
1.4	256QAM	6	0	17.77	17.74	17.76	18.5

5	16QAM	1	0	23.20	23.06	23.13	24
5	16QAM	1	12	23.25	23.22	23.13	
5	16QAM	1	24	23.21	23.32	23.26	
5	16QAM	12	0	22.17	22.24	22.32	23
5	16QAM	12	7	22.15	22.24	22.14	
5	16QAM	12	13	22.14	22.24	22.11	
5	16QAM	25	0	22.12	22.16	22.25	23
5	64QAM	1	0	22.16	22.23	22.25	
5	64QAM	1	12	22.23	22.32	22.00	
5	64QAM	1	24	22.19	22.08	21.92	23
5	64QAM	12	0	22.16	22.16	22.22	
5	64QAM	12	7	22.10	22.27	22.02	
5	64QAM	12	13	22.16	22.27	22.16	19
5	64QAM	25	0	22.15	22.19	22.06	
5	256QAM	1	0	18.25	18.31	18.26	
5	256QAM	1	12	18.27	18.30	18.07	19
5	256QAM	1	24	18.23	18.13	17.96	
5	256QAM	12	0	18.19	18.20	18.26	
5	256QAM	12	7	18.15	18.27	18.09	19
5	256QAM	12	13	18.17	18.35	18.23	
5	256QAM	25	0	18.28	18.24	18.16	

5	16QAM	1	0	21.38	21.24	21.31	22.1
5	16QAM	1	12	21.43	21.40	21.31	
5	16QAM	1	24	21.39	21.50	21.44	
5	16QAM	12	0	20.35	20.42	20.50	21.1
5	16QAM	12	7	20.33	20.42	20.32	
5	16QAM	12	13	20.32	20.42	20.29	
5	16QAM	25	0	20.30	20.34	20.43	21.1
5	64QAM	1	0	20.34	20.41	20.43	
5	64QAM	1	12	20.41	20.50	20.18	
5	64QAM	1	24	20.37	20.26	20.10	21.1
5	64QAM	12	0	20.34	20.34	20.40	
5	64QAM	12	7	20.28	20.45	20.20	
5	64QAM	12	13	20.34	20.45	20.34	17.1
5	64QAM	25	0	20.33	20.37	20.24	
5	256QAM	1	0	16.43	16.49	16.44	
5	256QAM	1	12	16.45	16.48	16.25	17.1
5	256QAM	1	24	16.41	16.31	16.14	
5	256QAM	12	0	16.37	16.38	16.44	
5	256QAM	12	7	16.33	16.45	16.27	17.1
5	256QAM	12	13	16.35	16.53	16.41	
5	256QAM	25	0	16.46	16.42	16.34	



5	16QAM	1	0	22.23	22.09	22.16	22.8
5	16QAM	1	12	22.28	22.25	22.16	
5	16QAM	1	24	22.24	22.35	22.29	
5	16QAM	12	0	21.20	21.27	21.35	21.8
5	16QAM	12	7	21.18	21.27	21.17	
5	16QAM	12	13	21.17	21.27	21.14	
5	16QAM	25	0	21.15	21.19	21.28	21.8
5	64QAM	1	0	21.19	21.26	21.28	
5	64QAM	1	12	21.26	21.35	21.03	
5	64QAM	1	24	21.22	21.11	20.95	21.8
5	64QAM	12	0	21.19	21.19	21.25	
5	64QAM	12	7	21.13	21.30	21.05	
5	64QAM	12	13	21.19	21.30	21.19	18.8
5	64QAM	25	0	21.18	21.22	21.09	
5	256QAM	1	0	17.28	17.34	17.29	
5	256QAM	1	12	17.30	17.33	17.10	18.8
5	256QAM	1	24	17.26	17.16	16.99	
5	256QAM	12	0	17.22	17.23	17.29	
5	256QAM	12	7	17.18	17.30	17.12	18.8
5	256QAM	12	13	17.20	17.38	17.26	
5	256QAM	25	0	17.31	17.27	17.19	

5	16QAM	1	0	22.74	22.60	22.67	23.3
5	16QAM	1	12	22.79	22.76	22.67	
5	16QAM	1	24	22.75	22.86	22.80	
5	16QAM	12	0	21.71	21.78	21.88	22.3
5	16QAM	12	7	21.69	21.78	21.68	
5	16QAM	12	13	21.68	21.78	21.65	
5	16QAM	25	0	21.66	21.70	21.79	22.3
5	64QAM	1	0	21.70	21.77	21.79	
5	64QAM	1	12	21.77	21.86	21.54	
5	64QAM	1	24	21.73	21.62	21.48	22.3
5	64QAM	12	0	21.70	21.70	21.76	
5	64QAM	12	7	21.64	21.81	21.56	
5	64QAM	12	13	21.70	21.81	21.70	18.3
5	64QAM	25	0	21.69	21.73	21.60	
5	256QAM	1	0	17.79	17.85	17.80	
5	256QAM	1	12	17.81	17.84	17.61	18.3
5	256QAM	1	24	17.77	17.67	17.50	
5	256QAM	12	0	17.73	17.74	17.80	
5	256QAM	12	7	17.69	17.81	17.63	18.3
5	256QAM	12	13	17.71	17.89	17.77	
5	256QAM	25	0	17.82	17.78	17.70	

1.4	16QAM	1	0	23.47	23.42	23.34	24
1.4	16QAM	1	3	23.20	23.25	23.27	
1.4	16QAM	1	5	23.31	23.17	23.35	
1.4	16QAM	3	0	23.21	23.31	23.35	
1.4	16QAM	3	1	23.22	23.24	23.21	
1.4	16QAM	3	3	23.37	23.32	23.35	
1.4	16QAM	6	0	22.38	22.29	22.31	23
1.4	64QAM	1	0	22.42	22.31	22.21	23
1.4	64QAM	1	3	22.42	22.37	22.39	
1.4	64QAM	1	5	22.55	22.53	22.46	
1.4	64QAM	3	0	22.26	22.41	22.31	
1.4	64QAM	3	1	22.26	22.34	22.42	
1.4	64QAM	3	3	22.25	22.33	22.21	
1.4	64QAM	6	0	22.32	22.22	22.34	23
1.4	256QAM	1	0	18.20	18.17	18.08	19
1.4	256QAM	1	3	18.30	18.22	18.23	
1.4	256QAM	1	5	18.36	18.34	18.28	
1.4	256QAM	3	0	18.07	18.28	18.09	
1.4	256QAM	3	1	18.15	18.21	18.24	
1.4	256QAM	3	3	18.05	18.19	18.12	
1.4	256QAM	6	0	18.13	18.09	18.18	19

1.4	16QAM	1	0	22.62	22.57	22.49	23.3
1.4	16QAM	1	3	22.35	22.40	22.42	
1.4	16QAM	1	5	22.46	22.32	22.50	
1.4	16QAM	3	0	22.36	22.46	22.50	
1.4	16QAM	3	1	22.37	22.39	22.36	
1.4	16QAM	3	3	22.52	22.47	22.50	
1.4	16QAM	6	0	21.53	21.44	21.46	22.3
1.4	64QAM	1	0	21.57	21.46	21.36	22.3
1.4	64QAM	1	3	21.57	21.52	21.54	
1.4	64QAM	1	5	21.70	21.68	21.61	
1.4	64QAM	3	0	21.41	21.56	21.46	
1.4	64QAM	3	1	21.41	21.49	21.57	
1.4	64QAM	3	3	21.40	21.48	21.36	
1.4	64QAM	6	0	21.47	21.37	21.49	22.3
1.4	256QAM	1	0	17.35	17.32	17.23	18.3
1.4	256QAM	1	3	17.45	17.37	17.38	
1.4	256QAM	1	5	17.51	17.49	17.43	
1.4	256QAM	3	0	17.22	17.43	17.24	
1.4	256QAM	3	1	17.30	17.36	17.39	
1.4	256QAM	3	3	17.20	17.34	17.27	
1.4	256QAM	6	0	17.28	17.24	17.33	18.3

Band 13(700MHz Band) (dBm)-ANT 1							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					23230		25
Frequency (MHz)					782		
10	QPSK	1	0		24.37		24
10	QPSK	1	25		24.34		
10	QPSK	1	49		24.24		
10	QPSK	25	0		23.42		24
10	QPSK	25	12		23.34		
10	QPSK	25	25		23.35		
10	QPSK	50	0		23.36		24
10	16QAM	1	0		23.51		
10	16QAM	1	25		23.48		
10	16QAM	1	49		23.59		23
10	16QAM	25	0		22.45		
10	16QAM	25	12		22.45		
10	16QAM	25	25		22.37		23
10	16QAM	50	0		22.41		
10	64QAM	1	0		22.53		
10	64QAM	1	25		22.62		23
10	64QAM	1	49		22.56		
10	64QAM	25	0		22.43		
10	64QAM	25	12		22.40		23
10	64QAM	25	25		22.44		
10	64QAM	50	0		22.35		
10	256QAM	1	0		18.42		19
10	256QAM	1	25		18.51		
10	256QAM	1	49		18.45		
10	256QAM	25	0		18.32		19
10	256QAM	25	12		18.29		
10	256QAM	25	25		18.33		
10	256QAM	50	0		18.24		
Channel				23205	23230	23255	25
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0		24.35	24.33	24
5	QPSK	1	12		24.30	24.32	
5	QPSK	1	24		24.17	24.23	
5	QPSK	12	0		23.40	23.37	24
5	QPSK	12	7		23.35	23.35	
5	QPSK	12	13		23.34	23.26	
5	QPSK	25	0		23.26	23.26	24
5	16QAM	1	0		23.49	23.49	
5	16QAM	1	12		23.40	23.40	
5	16QAM	1	24		23.53	23.51	23
5	16QAM	12	0		22.40	22.43	
5	16QAM	12	7		22.36	22.39	
5	16QAM	12	13		22.29	22.35	23
5	16QAM	25	0		22.38	22.38	
5	64QAM	1	0		22.51	22.51	
5	64QAM	1	12		22.53	22.60	23
5	64QAM	1	24		22.46	22.46	
5	64QAM	12	0		22.42	22.33	
5	64QAM	12	7		22.35	22.37	23
5	64QAM	12	13		22.42	22.37	
5	64QAM	25	0		22.29	22.31	
5	256QAM	1	0		18.32	18.40	19
5	256QAM	1	12		18.46	18.45	
5	256QAM	1	24		18.38	18.35	
5	256QAM	12	0		18.24	18.22	19
5	256QAM	12	7		18.23	18.25	
5	256QAM	12	13		18.29	18.29	
5	256QAM	25	0		18.20	18.20	

Band 13(700MHz Band) (dBm)-ANT 0							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					23230		24.3
Frequency (MHz)					782		
10	QPSK	1	0		23.53		23.3
10	QPSK	1	25		23.50		
10	QPSK	1	49		23.40		
10	QPSK	25	0		22.58		23.3
10	QPSK	25	12		22.50		
10	QPSK	25	25		22.51		
10	QPSK	50	0		22.52		23.3
10	16QAM	1	0		22.67		
10	16QAM	1	25		22.64		
10	16QAM	1	49		22.75		22.3
10	16QAM	25	0		21.61		
10	16QAM	25	12		21.61		
10	16QAM	25	25		21.53		22.3
10	16QAM	50	0		21.57		
10	64QAM	1	0		21.69		
10	64QAM	1	25		21.78		22.3
10	64QAM	1	49		21.72		
10	64QAM	25	0		21.59		
10	64QAM	25	12		21.56		22.3
10	64QAM	25	25		21.60		
10	64QAM	50	0		21.51		
10	256QAM	1	0		17.58		18.3
10	256QAM	1	25		17.67		
10	256QAM	1	49		17.61		
10	256QAM	25	0		17.48		18.3
10	256QAM	25	12		17.45		
10	256QAM	25	25		17.49		
10	256QAM	50	0		17.40		
Channel				23205	23230	23255	24.3
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0		23.51	23.49	23.3
5	QPSK	1	12		23.46	23.48	
5	QPSK	1	24		23.33	23.39	
5	QPSK	12	0		22.56	22.53	23.3
5	QPSK	12	7		22.51	22.51	
5	QPSK	12	13		22.50	22.42	
5	QPSK	25	0		22.42	22.42	23.3
5	16QAM	1	0		22.65	22.65	
5	16QAM	1	12		22.56	22.56	
5	16QAM	1	24		22.69	22.67	22.3
5	16QAM	12	0		21.56	21.59	
5	16QAM	12	7		21.52	21.55	
5	16QAM	12	13		21.45	21.51	22.3
5	16QAM	25	0		21.54	21.54	
5	64QAM	1	0		21.67	21.67	
5	64QAM	1	12		21.69	21.76	22.3
5	64QAM	1	24		21.62	21.62	
5	64QAM	12	0		21.58	21.49	
5	64QAM	12	7		21.51	21.53	22.3
5	64QAM	12	13		21.58	21.53	
5	64QAM	25	0		21.45	21.47	
5	256QAM	1	0		17.48	17.56	18.3
5	256QAM	1	12		17.62	17.61	
5	256QAM	1	24		17.54	17.51	
5	256QAM	12	0		17.40	17.38	18.3
5	256QAM	12	7		17.39	17.41	
5	256QAM	12	13		17.45	17.45	
5	256QAM	25	0		17.36	17.36	



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Band 17 (700MHz Band) (dBm)-ANT 1							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	24.21	24.23	24.08	25
10	QPSK	1	25	24.20	24.22	24.18	
10	QPSK	1	49	24.11	24.19	24.21	
10	QPSK	25	0	23.31	23.32	23.30	24
10	QPSK	25	12	23.28	23.27	23.27	
10	QPSK	25	25	23.29	23.23	23.24	
10	QPSK	50	0	23.30	23.28	23.28	24
10	16QAM	1	0	23.42	23.58	23.25	
10	16QAM	1	25	23.24	23.30	23.35	
10	16QAM	1	49	23.38	23.44	23.46	23
10	16QAM	25	0	22.31	22.35	22.23	
10	16QAM	25	12	22.37	22.39	22.38	
10	16QAM	25	25	22.39	22.33	22.32	23
10	16QAM	50	0	22.24	22.28	22.29	
10	64QAM	1	0	22.29	22.48	22.37	
10	64QAM	1	25	22.52	22.56	22.43	23
10	64QAM	1	49	22.37	22.36	22.34	
10	64QAM	25	0	22.25	22.37	22.26	
10	64QAM	25	12	22.24	22.31	22.28	23
10	64QAM	25	25	22.32	22.35	22.31	
10	64QAM	50	0	22.28	22.24	22.29	
10	256QAM	1	0	18.30	18.49	18.38	19
10	256QAM	1	25	18.53	18.57	18.44	
10	256QAM	1	49	18.38	18.37	18.35	
10	256QAM	25	0	18.26	18.38	18.27	19
10	256QAM	25	12	18.25	18.32	18.29	
10	256QAM	25	25	18.33	18.36	18.32	
10	256QAM	50	0	18.29	18.25	18.30	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	24.20	24.21	24.07	25
5	QPSK	1	12	24.13	24.16	24.17	
5	QPSK	1	24	24.08	24.12	24.15	
5	QPSK	12	0	23.24	23.27	23.27	24
5	QPSK	12	7	23.19	23.17	23.19	
5	QPSK	12	13	23.19	23.16	23.22	
5	QPSK	25	0	23.25	23.21	23.23	24
5	16QAM	1	0	23.39	23.48	23.18	
5	16QAM	1	12	23.23	23.23	23.25	
5	16QAM	1	24	23.29	23.37	23.36	23
5	16QAM	12	0	22.28	22.31	22.16	
5	16QAM	12	7	22.29	22.30	22.34	
5	16QAM	12	13	22.38	22.29	22.24	23
5	16QAM	25	0	22.20	22.27	22.20	
5	64QAM	1	0	22.26	22.47	22.33	
5	64QAM	1	12	22.51	22.51	22.35	23
5	64QAM	1	24	22.29	22.35	22.30	
5	64QAM	12	0	22.15	22.30	22.16	
5	64QAM	12	7	22.15	22.26	22.25	23
5	64QAM	12	13	22.29	22.31	22.22	
5	64QAM	25	0	22.19	22.23	22.27	
5	256QAM	1	0	18.22	18.47	18.31	19
5	256QAM	1	12	18.49	18.47	18.41	
5	256QAM	1	24	18.33	18.27	18.25	
5	256QAM	12	0	18.22	18.34	18.23	19
5	256QAM	12	7	18.21	18.22	18.24	
5	256QAM	12	13	18.32	18.29	18.24	
5	256QAM	25	0	18.22	18.17	18.20	

Band 17 (700MHz Band) (dBm)-ANT 0							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	23.58	23.60	23.45	24.3
10	QPSK	1	25	23.57	23.59	23.55	
10	QPSK	1	49	23.48	23.56	23.58	
10	QPSK	25	0	22.68	22.69	22.67	23.3
10	QPSK	25	12	22.65	22.64	22.64	
10	QPSK	25	25	22.66	22.60	22.61	
10	QPSK	50	0	22.67	22.65	22.65	23.3
10	16QAM	1	0	22.79	22.95	22.62	
10	16QAM	1	25	22.61	22.67	22.72	
10	16QAM	1	49	22.75	22.81	22.83	22.3
10	16QAM	25	0	21.68	21.72	21.60	
10	16QAM	25	12	21.74	21.76	21.75	
10	16QAM	25	25	21.76	21.70	21.69	22.3
10	16QAM	50	0	21.61	21.65	21.66	
10	64QAM	1	0	21.66	21.85	21.74	
10	64QAM	1	25	21.89	21.93	21.80	22.3
10	64QAM	1	49	21.74	21.73	21.71	
10	64QAM	25	0	21.62	21.74	21.63	
10	64QAM	25	12	21.61	21.68	21.65	22.3
10	64QAM	25	25	21.69	21.72	21.68	
10	64QAM	50	0	21.65	21.61	21.66	
10	256QAM	1	0	17.67	17.86	17.75	18.3
10	256QAM	1	25	17.90	17.94	17.81	
10	256QAM	1	49	17.75	17.74	17.72	
10	256QAM	25	0	17.63	17.75	17.64	18.3
10	256QAM	25	12	17.62	17.69	17.66	
10	256QAM	25	25	17.70	17.73	17.69	
10	256QAM	50	0	17.66	17.62	17.67	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	23.57	23.58	23.44	24.3
5	QPSK	1	12	23.50	23.53	23.54	
5	QPSK	1	24	23.45	23.49	23.52	
5	QPSK	12	0	22.61	22.64	22.64	23.3
5	QPSK	12	7	22.56	22.54	22.56	
5	QPSK	12	13	22.56	22.53	22.59	
5	QPSK	25	0	22.62	22.58	22.60	23.3
5	16QAM	1	0	22.76	22.85	22.55	
5	16QAM	1	12	22.60	22.60	22.62	
5	16QAM	1	24	22.86	22.74	22.73	22.3
5	16QAM	12	0	21.65	21.68	21.53	
5	16QAM	12	7	21.66	21.67	21.71	
5	16QAM	12	13	21.75	21.66	21.61	22.3
5	16QAM	25	0	21.57	21.64	21.57	
5	64QAM	1	0	21.63	21.84	21.70	
5	64QAM	1	12	21.88	21.88	21.72	22.3
5	64QAM	1	24	21.66	21.72	21.67	
5	64QAM	12	0	21.52	21.67	21.53	
5	64QAM	12	7	21.52	21.63	21.62	22.3
5	64QAM	12	13	21.66	21.68	21.59	
5	64QAM	25	0	21.56	21.60	21.64	
5	256QAM	1	0	17.59	17.84	17.68	18.3
5	256QAM	1	12	17.86	17.84	17.78	
5	256QAM	1	24	17.70	17.64	17.62	
5	256QAM	12	0	17.59	17.71	17.60	18.3
5	256QAM	12	7	17.58	17.59	17.61	
5	256QAM	12	13	17.69	17.66	17.61	
5	256QAM	25	0	17.59	17.54	17.57	



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3	16QAM	1	0	23.36	23.13	23.35	24
3	16QAM	1	8	23.22	23.21	23.16	
3	16QAM	1	14	23.03	23.10	23.14	
3	16QAM	8	0	22.31	22.34	22.22	23
3	16QAM	8	4	22.06	22.21	22.27	
3	16QAM	8	7	22.28	22.33	22.33	
3	16QAM	15	0	22.33	22.36	22.24	23
3	64QAM	1	0	22.22	22.33	22.38	
3	64QAM	1	8	22.37	22.31	22.32	
3	64QAM	1	14	22.16	22.13	22.27	23
3	64QAM	8	0	22.35	22.26	22.28	
3	64QAM	8	4	22.20	22.24	22.14	
3	64QAM	8	7	22.31	22.30	22.29	19
3	64QAM	15	0	22.28	22.34	22.18	
3	256QAM	1	0	18.10	18.21	18.17	
3	256QAM	1	8	18.29	18.24	18.22	19
3	256QAM	1	14	18.09	18.07	17.94	
3	256QAM	8	0	18.27	18.13	18.20	
3	256QAM	8	4	18.15	18.11	18.08	19
3	256QAM	8	7	18.17	18.14	18.18	
3	256QAM	15	0	18.19	18.22	18.10	
Channel				26697	26965	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	24.22	24.26	24.23	25
1.4	QPSK	1	3	24.22	24.21	24.20	
1.4	QPSK	1	5	24.24	24.20	24.16	
1.4	QPSK	3	0	24.30	24.15	24.11	24
1.4	QPSK	3	1	24.17	24.18	24.10	
1.4	QPSK	3	3	24.15	24.14	24.11	
1.4	QPSK	6	0	23.31	23.25	23.25	24
1.4	16QAM	1	0	23.38	23.13	23.35	
1.4	16QAM	1	3	23.15	23.18	23.19	
1.4	16QAM	1	5	23.06	23.19	23.05	24
1.4	16QAM	3	0	23.34	23.27	23.20	
1.4	16QAM	3	1	23.15	23.20	23.23	
1.4	16QAM	3	3	23.33	23.29	23.33	23
1.4	16QAM	6	0	22.37	22.30	22.32	
1.4	64QAM	1	0	22.21	22.37	22.30	
1.4	64QAM	1	3	22.41	22.32	22.33	23
1.4	64QAM	1	5	22.24	22.18	22.04	
1.4	64QAM	3	0	22.29	22.23	22.27	
1.4	64QAM	3	1	22.27	22.29	22.20	23
1.4	64QAM	3	3	22.26	22.31	22.25	
1.4	64QAM	6	0	22.21	22.33	22.23	
1.4	256QAM	1	0	18.12	18.16	18.17	19
1.4	256QAM	1	3	18.23	18.16	18.18	
1.4	256QAM	1	5	18.10	18.10	17.93	
1.4	256QAM	3	0	18.28	18.09	18.16	19
1.4	256QAM	3	1	18.13	18.12	18.03	
1.4	256QAM	3	3	18.16	18.15	18.17	
1.4	256QAM	6	0	18.15	18.27	18.03	19

3	16QAM	1	0	22.81	22.58	22.80	23.5
3	16QAM	1	8	22.67	22.66	22.61	
3	16QAM	1	14	22.48	22.55	22.59	
3	16QAM	8	0	21.76	21.79	21.67	22.5
3	16QAM	8	4	21.51	21.66	21.72	
3	16QAM	8	7	21.73	21.78	21.78	
3	16QAM	15	0	21.78	21.81	21.69	22.5
3	64QAM	1	0	21.67	21.78	21.83	
3	64QAM	1	8	21.82	21.76	21.77	
3	64QAM	1	14	21.61	21.58	21.72	22.5
3	64QAM	8	0	21.80	21.71	21.73	
3	64QAM	8	4	21.65	21.69	21.59	
3	64QAM	8	7	21.76	21.75	21.74	18.5
3	64QAM	15	0	21.73	21.79	21.63	
3	256QAM	1	0	17.55	17.66	17.62	
3	256QAM	1	8	17.74	17.69	17.67	18.5
3	256QAM	1	14	17.54	17.52	17.39	
3	256QAM	8	0	17.72	17.58	17.65	
3	256QAM	8	4	17.60	17.56	17.53	18.5
3	256QAM	8	7	17.62	17.59	17.63	
3	256QAM	15	0	17.64	17.67	17.55	
Channel				26697	26965	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	23.67	23.71	23.68	24.5
1.4	QPSK	1	3	23.67	23.66	23.65	
1.4	QPSK	1	5	23.69	23.65	23.61	
1.4	QPSK	3	0	23.75	23.60	23.56	23.5
1.4	QPSK	3	1	23.62	23.63	23.55	
1.4	QPSK	3	3	23.60	23.59	23.56	
1.4	QPSK	6	0	22.76	22.70	22.70	22.5
1.4	16QAM	1	0	22.83	22.58	22.80	
1.4	16QAM	1	3	22.60	22.63	22.64	
1.4	16QAM	1	5	22.51	22.64	22.50	22.5
1.4	16QAM	3	0	22.79	22.72	22.65	
1.4	16QAM	3	1	22.60	22.65	22.68	
1.4	16QAM	3	3	22.78	22.74	22.78	22.5
1.4	16QAM	6	0	21.82	21.75	21.77	
1.4	64QAM	1	0	21.66	21.82	21.75	
1.4	64QAM	1	3	21.86	21.77	21.78	22.5
1.4	64QAM	1	5	21.69	21.63	21.49	
1.4	64QAM	3	0	21.74	21.68	21.72	
1.4	64QAM	3	1	21.72	21.74	21.65	22.5
1.4	64QAM	3	3	21.71	21.76	21.70	
1.4	64QAM	6	0	21.66	21.78	21.68	
1.4	256QAM	1	0	17.57	17.61	17.62	18.5
1.4	256QAM	1	3	17.68	17.61	17.63	
1.4	256QAM	1	5	17.55	17.55	17.38	
1.4	256QAM	3	0	17.73	17.54	17.61	18.5
1.4	256QAM	3	1	17.58	17.57	17.48	
1.4	256QAM	3	3	17.61	17.60	17.62	
1.4	256QAM	6	0	17.60	17.72	17.48	18.5

Band 30 (dBm)-ANT 4							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					27710		
Frequency (MHz)					2310		
10	QPSK	1	0		23.58		24.3
10	QPSK	1	25		23.46		
10	QPSK	1	49		23.46		
10	QPSK	25	0		22.59		23.3
10	QPSK	25	12		22.55		
10	QPSK	25	25		22.54		
10	QPSK	50	0		22.56		23.3
10	16QAM	1	0		22.75		
10	16QAM	1	25		22.72		
10	16QAM	1	49		22.79		22.3
10	16QAM	25	0		21.61		
10	16QAM	25	12		21.56		
10	16QAM	25	25		21.57		22.3
10	16QAM	50	0		21.54		
10	64QAM	1	0		21.81		
10	64QAM	1	25		21.55		22.3
10	64QAM	1	49		21.71		
10	64QAM	25	0		21.65		
10	64QAM	25	12		21.60		22.3
10	64QAM	25	25		21.55		
10	64QAM	50	0		21.57		
10	256QAM	1	0		18.50		19.3
10	256QAM	1	25		18.24		
10	256QAM	1	49		18.40		
10	256QAM	25	0		18.33		19.3
10	256QAM	25	12		18.28		
10	256QAM	25	25		18.23		
10	256QAM	50	0		18.25		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0		23.47	23.57	24.3
5	QPSK	1	12		23.38	23.38	
5	QPSK	1	24		23.42	23.36	
5	QPSK	12	0		22.48	22.57	23.3
5	QPSK	12	7		22.54	22.47	
5	QPSK	12	13		22.52	22.48	
5	QPSK	25	0		22.40	22.47	23.3
5	16QAM	1	0		22.73	22.67	
5	16QAM	1	12		22.68	22.64	
5	16QAM	1	24		22.71	22.72	22.3
5	16QAM	12	0		21.53	21.52	
5	16QAM	12	7		21.49	21.49	
5	16QAM	12	13		21.48	21.56	22.3
5	16QAM	25	0		21.46	21.48	
5	64QAM	1	0		21.75	21.77	
5	64QAM	1	12		21.49	21.44	22.3
5	64QAM	1	24		21.70	21.65	
5	64QAM	12	0		21.63	21.56	
5	64QAM	12	7		21.59	21.57	22.3
5	64QAM	12	13		21.52	21.50	
5	64QAM	25	0		21.53	21.45	
5	256QAM	1	0		18.41	18.47	19.3
5	256QAM	1	12		18.22	18.21	
5	256QAM	1	24		18.37	18.35	
5	256QAM	12	0		18.21	18.27	19.3
5	256QAM	12	7		18.21	18.22	
5	256QAM	12	13		18.11	18.12	
5	256QAM	25	0		18.15	18.17	

Band 30 (dBm)-ANT 6							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					27710		
Frequency (MHz)					2310		
10	QPSK	1	0		23.55		24.3
10	QPSK	1	25		23.53		
10	QPSK	1	49		23.49		
10	QPSK	25	0		22.61		23.3
10	QPSK	25	12		22.50		
10	QPSK	25	25		22.51		
10	QPSK	50	0		22.53		23.3
10	16QAM	1	0		22.72		
10	16QAM	1	25		22.69		
10	16QAM	1	49		22.76		22.3
10	16QAM	25	0		21.58		
10	16QAM	25	12		21.53		
10	16QAM	25	25		21.54		22.3
10	16QAM	50	0		21.51		
10	64QAM	1	0		21.78		
10	64QAM	1	25		21.52		22.3
10	64QAM	1	49		21.68		
10	64QAM	25	0		21.62		
10	64QAM	25	12		21.57		22.3
10	64QAM	25	25		21.52		
10	64QAM	50	0		21.54		
10	256QAM	1	0		18.47		19.3
10	256QAM	1	25		18.21		
10	256QAM	1	49		18.37		
10	256QAM	25	0		18.30		19.3
10	256QAM	25	12		18.25		
10	256QAM	25	25		18.20		
10	256QAM	50	0		18.22		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0		23.44	23.54	24.3
5	QPSK	1	12		23.35	23.35	
5	QPSK	1	24		23.39	23.33	
5	QPSK	12	0		22.45	22.54	23.3
5	QPSK	12	7		22.51	22.44	
5	QPSK	12	13		22.49	22.45	
5	QPSK	25	0		22.37	22.44	23.3
5	16QAM	1	0		22.70	22.64	
5	16QAM	1	12		22.65	22.61	
5	16QAM	1	24		22.68	22.69	22.3
5	16QAM	12	0		21.50	21.49	
5	16QAM	12	7		21.46	21.46	
5	16QAM	12	13		21.45	21.53	22.3
5	16QAM	25	0		21.43	21.45	
5	64QAM	1	0		21.72	21.74	
5	64QAM	1	12		21.46	21.41	22.3
5	64QAM	1	24		21.67	21.62	
5	64QAM	12	0		21.60	21.53	
5	64QAM	12	7		21.56	21.54	22.3
5	64QAM	12	13		21.49	21.47	
5	64QAM	25	0		21.50	21.42	
5	256QAM	1	0		18.38	18.44	19.3
5	256QAM	1	12		18.19	18.18	
5	256QAM	1	24		18.34	18.32	
5	256QAM	12	0		18.18	18.24	19.3
5	256QAM	12	7		18.18	18.19	
5	256QAM	12	13		18.08	18.09	
5	256QAM	25	0		18.12	18.14	



5	16QAM	1	0	23.36	23.43	23.44	24
5	16QAM	1	12	23.41	23.56	23.45	
5	16QAM	1	24	23.44	23.50	23.48	
5	16QAM	12	0	22.13	22.16	22.18	23
5	16QAM	12	7	22.27	22.27	22.29	
5	16QAM	12	13	22.31	22.31	22.32	
5	16QAM	25	0	22.26	22.19	22.35	23
5	64QAM	1	0	22.33	22.45	22.38	
5	64QAM	1	12	22.35	22.54	22.40	
5	64QAM	1	24	22.40	22.55	22.52	23
5	64QAM	12	0	22.03	22.05	22.15	
5	64QAM	12	7	22.29	22.25	22.25	
5	64QAM	12	13	22.26	22.31	22.31	19
5	64QAM	25	0	22.23	22.15	22.36	
5	256QAM	1	0	18.27	18.37	18.30	
5	256QAM	1	12	18.24	18.35	18.27	19
5	256QAM	1	24	18.41	18.44	18.35	
5	256QAM	12	0	17.96	18.06	18.06	
5	256QAM	12	7	18.13	18.20	18.20	19
5	256QAM	12	13	18.17	18.25	18.17	
5	256QAM	25	0	18.12	18.03	18.26	

5	16QAM	1	0	22.58	22.65	22.66	23.3
5	16QAM	1	12	22.63	22.78	22.67	
5	16QAM	1	24	22.66	22.72	22.70	
5	16QAM	12	0	21.35	21.38	21.40	22.3
5	16QAM	12	7	21.49	21.49	21.51	
5	16QAM	12	13	21.53	21.53	21.54	
5	16QAM	25	0	21.48	21.41	21.57	22.3
5	64QAM	1	0	21.55	21.67	21.60	
5	64QAM	1	12	21.57	21.76	21.62	
5	64QAM	1	24	21.62	21.77	21.74	22.3
5	64QAM	12	0	21.25	21.27	21.37	
5	64QAM	12	7	21.51	21.47	21.47	
5	64QAM	12	13	21.48	21.53	21.53	18.3
5	64QAM	25	0	21.45	21.37	21.58	
5	256QAM	1	0	17.49	17.59	17.52	
5	256QAM	1	12	17.46	17.57	17.49	18.3
5	256QAM	1	24	17.63	17.66	17.57	
5	256QAM	12	0	17.18	17.28	17.28	
5	256QAM	12	7	17.35	17.42	17.42	18.3
5	256QAM	12	13	17.39	17.47	17.39	
5	256QAM	25	0	17.34	17.25	17.48	



5	64QAM	1	12	22.05	22.11	22.15	23
5	64QAM	1	24	22.12	22.14	22.18	
5	64QAM	12	0	22.06	22.15	22.14	
5	64QAM	12	7	22.18	22.11	22.10	23
5	64QAM	12	13	21.99	22.06	21.94	
5	64QAM	25	0	21.90	22.06	21.94	
5	256QAM	1	0	18.23	18.27	18.22	19
5	256QAM	1	12	18.09	18.15	18.22	
5	256QAM	1	24	18.11	18.13	18.13	
5	256QAM	12	0	18.10	18.13	18.10	19
5	256QAM	12	7	18.27	18.29	18.21	
5	256QAM	12	13	18.21	18.24	18.08	
5	256QAM	25	0	18.11	18.29	18.16	

5	64QAM	1	12	20.14	20.20	20.24	21.1
5	64QAM	1	24	20.21	20.23	20.27	
5	64QAM	12	0	20.15	20.24	20.23	
5	64QAM	12	7	20.27	20.20	20.19	21.1
5	64QAM	12	13	20.08	20.15	20.03	
5	64QAM	25	0	19.99	20.15	20.03	
5	256QAM	1	0	16.32	16.38	16.31	17.1
5	256QAM	1	12	16.18	16.24	16.31	
5	256QAM	1	24	16.20	16.22	16.22	
5	256QAM	12	0	16.19	16.22	16.19	17.1
5	256QAM	12	7	16.36	16.38	16.30	
5	256QAM	12	13	16.30	16.33	16.17	
5	256QAM	25	0	16.20	16.38	16.25	



5	64QAM	1	12	21.25	21.31	21.35	22
5	64QAM	1	24	21.32	21.34	21.38	
5	64QAM	12	0	21.26	21.35	21.34	
5	64QAM	12	7	21.38	21.31	21.30	21.1
5	64QAM	12	13	21.19	21.26	21.14	
5	64QAM	25	0	21.10	21.26	21.14	
5	256QAM	1	0	17.43	17.47	17.42	17.1
5	256QAM	1	12	17.29	17.35	17.42	
5	256QAM	1	24	17.31	17.33	17.33	
5	256QAM	12	0	17.30	17.33	17.30	17.1
5	256QAM	12	7	17.47	17.49	17.41	
5	256QAM	12	13	17.41	17.44	17.28	
5	256QAM	25	0	17.31	17.49	17.36	

5	64QAM	1	12	21.46	21.52	21.56	22.3
5	64QAM	1	24	21.53	21.55	21.59	
5	64QAM	12	0	21.47	21.56	21.55	
5	64QAM	12	7	21.59	21.52	21.51	22.3
5	64QAM	12	13	21.40	21.47	21.35	
5	64QAM	25	0	21.31	21.47	21.35	
5	256QAM	1	0	17.64	17.68	17.63	18.3
5	256QAM	1	12	17.50	17.56	17.63	
5	256QAM	1	24	17.52	17.54	17.54	
5	256QAM	12	0	17.51	17.54	17.51	18.3
5	256QAM	12	7	17.68	17.70	17.62	
5	256QAM	12	13	17.62	17.65	17.49	
5	256QAM	25	0	17.52	17.70	17.57	

n2 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	22.57	22.52	22.27	23.6
20		1	53	22.54	22.49	22.38	
20		1	104	22.56	22.35	22.40	
20		50	1	21.97	21.77	21.64	23.6
20	DFT-s-OFDM QPSK	50	25	22.55	22.39	22.30	
20		50	50	21.95	21.75	21.73	
20		100	0	22.06	21.87	21.79	
20		1	1	22.63	22.71	22.65	23.6
20	DFT-s-OFDM 16QAM	1	53	22.57	22.48	22.33	
20		1	104	22.57	22.34	22.07	
20		50	1	21.75	21.71	21.64	23.6
20		50	25	22.60	22.66	22.56	
20	DFT-s-OFDM 64QAM	50	50	21.79	21.78	21.70	
20		100	0	22.40	22.50	22.45	
20	DFT-s-OFDM 256QAM	1	1	21.65	21.71	21.57	22.6
20	CP-OFDM QPSK	1	1	19.56	19.72	19.47	20.6
20	CP-OFDM 16QAM	1	1	17.47	17.37	17.25	18.6
20	CP-OFDM 64QAM	1	1	20.90	21.03	20.95	21.6
20	CP-OFDM 256QAM	1	1	20.36	20.34	20.17	21.6
20		1	1	18.46	18.35	18.19	19.6
20		1	1	15.42	15.37	15.27	16.6
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	22.60	22.52	22.34	23.6
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	22.24	22.45	22.35	23.6
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	22.38	22.53	22.00	23.6

n2 (PC3)(ANT4)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.87	23.81	23.66	24.7
20		1	53	23.85	23.79	23.65	
20		1	104	23.78	23.68	23.74	
20		50	1	23.23	23.20	23.13	24.7
20		50	25	23.83	23.79	23.67	
20		50	50	23.26	23.16	23.08	
20		100	0	23.31	23.26	23.15	
20	DFT-s-OFDM QPSK	1	1	23.88	23.90	23.85	24.7
20		1	53	23.79	23.77	23.38	
20		1	104	23.88	23.74	23.76	
20		50	1	22.74	22.75	22.79	24.7
20		50	25	23.86	23.87	23.81	
20		50	50	22.78	22.72	23.73	
20		100	0	23.74	23.76	23.60	
20	DFT-s-OFDM 16QAM	1	1	22.52	22.63	22.38	23.7
20	DFT-s-OFDM 64QAM	1	1	20.94	21.00	20.84	22.7
20	DFT-s-OFDM 256QAM	1	1	18.74	18.65	18.54	19.7
20	CP-OFDM QPSK	1	1	22.33	22.39	22.21	23.7
20	CP-OFDM 16QAM	1	1	21.68	21.73	21.50	22.7
20	CP-OFDM 64QAM	1	1	19.79	19.75	19.54	20.7
20	CP-OFDM 256QAM	1	1	16.76	16.77	16.63	17.7
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	23.77	23.73	23.66	24.7
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	23.83	23.74	23.59	24.7
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	23.70	23.56	23.52	24.7

n2 (PC3)(ANT5)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	24.19	24.19	24.07	25.2
20		1	53	24.20	24.15	24.05	
20		1	104	24.13	24.08	24.12	
20		50	1	23.61	23.60	23.43	25.2
20		50	25	24.17	24.19	24.14	
20		50	50	23.56	23.38	23.48	
20		100	0	23.68	23.56	23.54	
20	DFT-s-OFDM QPSK	1	1	24.20	24.25	24.18	25.2
20		1	53	24.17	24.14	24.06	
20		1	104	24.11	24.03	24.01	
20		50	1	23.31	23.37	23.20	25.2
20		50	25	24.18	24.20	24.16	
20		50	50	23.38	23.43	23.34	
20		100	0	24.01	24.09	24.07	
20	DFT-s-OFDM 16QAM	1	1	23.00	23.01	22.82	24.2
20	DFT-s-OFDM 64QAM	1	1	21.49	21.53	21.34	22.2
20	DFT-s-OFDM 256QAM	1	1	19.22	19.25	19.03	20.2
20	CP-OFDM QPSK	1	1	22.83	22.88	22.66	24.2
20	CP-OFDM 16QAM	1	1	22.15	22.21	22.04	23.2
20	CP-OFDM 64QAM	1	1	20.24	20.19	20.04	21.2
20	CP-OFDM 256QAM	1	1	17.14	17.17	17.05	18.2
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	24.19	24.14	24.05	25.2
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	24.15	24.18	24.01	25.2
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	24.16	24.03	23.86	25.2

n2 (PC3)(ANT6)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.44	23.33	23.18	24.2
20		1	53	23.42	23.31	23.20	
20		1	104	23.43	23.21	23.28	
20		50	1	22.90	22.74	22.61	24.2
20		50	25	23.50	23.23	23.17	
20		50	50	22.86	22.73	22.53	
20		100	0	22.98	22.76	22.59	
20	DFT-s-OFDM QPSK	1	1	23.48	23.54	23.40	24.2
20		1	53	23.39	23.40	23.10	
20		1	104	23.44	23.47	23.35	
20		50	1	22.32	22.39	22.26	24.2
20		50	25	23.42	23.46	23.32	
20		50	50	22.37	22.35	22.28	
20		100	0	23.33	23.36	23.22	
20	DFT-s-OFDM 16QAM	1	1	22.27	22.22	21.96	23.2
20	DFT-s-OFDM 64QAM	1	1	20.64	20.64	20.32	21.2
20	DFT-s-OFDM 256QAM	1	1	18.35	18.28	18.06	19.2
20	CP-OFDM QPSK	1	1	22.08	21.96	21.82	23.2
20	CP-OFDM 16QAM	1	1	21.31	21.33	21.06	22.2
20	CP-OFDM 64QAM	1	1	19.40	19.31	19.05	20.2
20	CP-OFDM 256QAM	1	1	16.38	16.28	16.08	17.2
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	23.50	23.36	23.18	24.2
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	23.46	23.32	22.99	24.2
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	23.29	23.18	22.92	24.2

n5 (PC3)(ANT0)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	25
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.93	23.88	23.86	25
20		1	53	23.77	23.81	23.79	
20		1	104	23.81	23.80	23.74	
20		50	1	23.10	23.06	23.11	25
20		50	25	23.74	23.65	23.61	
20		50	50	23.10	23.06	23.04	
20		100	0	23.23	23.28	23.25	
20	DFT-s-OFDM QPSK	1	1	23.88	23.96	23.90	25
20		1	53	23.72	23.74	23.74	
20		1	104	23.70	23.80	23.81	
20		50	1	23.28	23.26	23.25	25
20		50	25	23.81	23.84	23.73	
20		50	50	23.25	23.21	23.20	
20		100	0	23.81	23.78	23.76	
20	DFT-s-OFDM 16QAM	1	1	22.31	22.35	22.35	23
20	DFT-s-OFDM 64QAM	1	1	20.94	21.00	20.96	22
20	DFT-s-OFDM 256QAM	1	1	18.48	18.40	18.45	19
20	CP-OFDM QPSK	1	1	22.04	21.98	22.01	23
20	CP-OFDM 16QAM	1	1	21.42	21.41	21.43	22
20	CP-OFDM 64QAM	1	1	19.53	19.49	19.45	20
20	CP-OFDM 256QAM	1	1	16.41	16.45	16.44	17
Channel				166300	167300	168300	25
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	23.90	23.87	23.80	25
Channel				165800	167300	168800	25
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	23.84	23.76	23.78	25
Channel				165300	167300	169300	25
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	23.77	23.67	23.62	25

n5 (PC3)(ANT1)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	25.2
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.85	23.84	23.88	25.2
20		1	53	23.89	23.84	23.86	
20		1	104	23.85	23.83	23.87	
20		50	1	23.26	23.24	23.27	25.2
20		50	25	23.91	23.91	23.88	
20		50	50	23.25	23.27	23.23	
20		100	0	23.45	23.41	23.32	
20	DFT-s-OFDM QPSK	1	1	23.88	23.94	23.93	25.2
20		1	53	23.87	23.87	23.92	
20		1	104	23.86	23.88	23.84	
20		50	1	23.31	23.26	23.31	25.2
20		50	25	23.90	23.92	23.87	
20		50	50	23.30	23.31	23.25	
20		100	0	23.74	23.77	23.72	
20	DFT-s-OFDM 16QAM	1	1	22.72	22.76	22.75	24.2
20	DFT-s-OFDM 64QAM	1	1	21.23	21.15	21.19	22.2
20	DFT-s-OFDM 256QAM	1	1	18.82	18.82	18.89	20.2
20	CP-OFDM QPSK	1	1	22.52	22.56	22.56	24.2
20	CP-OFDM 16QAM	1	1	21.81	21.83	21.77	23.2
20	CP-OFDM 64QAM	1	1	19.93	19.93	19.83	21.2
20	CP-OFDM 256QAM	1	1	16.86	16.83	16.81	18.2
Channel				166300	167300	168300	25.2
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	23.91	23.92	23.91	25.2
Channel				165800	167300	168800	25.2
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	23.90	23.87	23.80	25.2
Channel				165300	167300	169300	25.2
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	23.84	23.75	23.71	25.2

n7 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	DFT-s-OFDM PI/2 BPSK	1	1	22.10	22.28	22.21	23.5
40		1	108	22.05	22.30	22.17	
40		1	214	22.25	22.21	22.25	
40		108	1	21.51	21.71	21.61	23.5
40		108	54	22.15	22.39	22.21	
40		108	108	21.62	21.69	21.62	
40		216	0	21.64	21.77	21.73	
40	DFT-s-OFDM QPSK	1	1	22.12	22.27	22.19	23.5
40		1	108	22.00	22.11	22.02	
40		1	214	22.15	22.16	22.18	
40		108	1	21.53	21.54	21.52	23.5
40		108	54	22.18	22.21	22.20	
40		108	108	21.55	21.51	21.57	
40		216	0	22.10	22.15	22.16	
40	DFT-s-OFDM 16QAM	1	1	20.12	20.10	20.20	21.5
40	DFT-s-OFDM 64QAM	1	1	19.20	19.39	19.42	20.5
40	DFT-s-OFDM 256QAM	1	1	17.11	17.04	17.10	18.5
40	CP-OFDM QPSK	1	1	20.40	20.59	20.61	21.5
40	CP-OFDM 16QAM	1	1	19.44	19.55	19.26	20.5
40	CP-OFDM 64QAM	1	1	17.92	18.01	18.14	19.5
40	CP-OFDM 256QAM	1	1	14.98	15.33	15.10	16.5
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	DFT-s-OFDM QPSK	1	1	21.95	22.10	22.19	23.5
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	DFT-s-OFDM QPSK	1	1	22.02	22.16	22.16	23.5
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	DFT-s-OFDM QPSK	1	1	21.90	22.07	22.18	23.5
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	DFT-s-OFDM QPSK	1	1	21.93	22.14	22.08	23.5
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	DFT-s-OFDM QPSK	1	1	21.99	22.15	22.16	23.5
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	DFT-s-OFDM QPSK	1	1	21.85	22.07	22.18	23.5

n7 (PC3) (ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	DFT-s-OFDM PI/2 BPSK	1	1	22.93	23.01	23.15	24.7
40		1	108	22.89	22.98	22.96	
40		1	214	23.16	23.15	23.08	
40		108	1	22.70	22.80	22.89	24.7
40		108	54	23.06	23.16	23.12	
40		108	108	22.77	22.83	22.72	
40		216	0	22.80	22.83	22.92	
40	DFT-s-OFDM QPSK	1	1	23.75	23.82	23.77	24.7
40		1	108	23.72	23.70	23.75	
40		1	214	23.64	23.73	23.60	
40		108	1	22.75	22.81	22.71	24.7
40		108	54	23.62	23.65	23.49	
40		108	108	22.73	22.77	22.67	
40		216	0	23.22	23.24	23.21	
40	DFT-s-OFDM 16QAM	1	1	22.55	22.40	22.93	23.7
40	DFT-s-OFDM 64QAM	1	1	20.20	20.50	20.20	21.7
40	DFT-s-OFDM 256QAM	1	1	18.53	18.62	18.20	20.7
40	CP-OFDM QPSK	1	1	21.20	21.25	21.23	22.7
40	CP-OFDM 16QAM	1	1	20.26	20.35	20.22	21.7
40	CP-OFDM 64QAM	1	1	19.75	19.93	19.98	20.7
40	CP-OFDM 256QAM	1	1	16.25	16.22	16.55	17.7
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	DFT-s-OFDM QPSK	1	1	23.46	23.68	23.39	24.7
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	DFT-s-OFDM QPSK	1	1	23.32	23.71	23.43	24.7
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	DFT-s-OFDM QPSK	1	1	23.42	23.78	23.42	24.7
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	DFT-s-OFDM QPSK	1	1	23.50	23.73	23.71	24.7
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	DFT-s-OFDM QPSK	1	1	23.54	23.80	23.79	24.7
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	

n7 (PC3)(ANT5)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	DFT-s-OFDM PI/2 BPSK	1	1	24.10	24.12	24.01	25.2
40		1	108	23.85	23.97	23.97	
40		1	214	24.05	24.08	24.05	
40		108	1	23.31	23.47	23.41	25.2
40		108	54	23.95	24.08	24.01	
40		108	108	23.42	23.41	23.42	
40		216	0	23.44	23.54	23.53	
40	DFT-s-OFDM QPSK	1	1	24.02	24.14	24.09	25.2
40		1	108	23.90	24.03	23.92	
40		1	214	24.05	24.04	24.08	
40		108	1	23.23	23.30	23.35	25.2
40		108	54	23.93	24.03	24.00	
40		108	108	23.37	23.46	23.47	
40		216	0	23.90	23.97	23.91	
40	DFT-s-OFDM 16QAM	1	1	22.75	22.82	22.97	24.2
40	DFT-s-OFDM 64QAM	1	1	21.10	21.24	21.32	22.2
40	DFT-s-OFDM 256QAM	1	1	18.79	18.88	19.00	20.2
40	CP-OFDM QPSK	1	1	17.01	17.05	17.12	18.2
40	CP-OFDM 16QAM	1	1	21.77	21.95	21.93	22.2
40	CP-OFDM 64QAM	1	1	19.82	19.95	20.04	21.2
40	CP-OFDM 256QAM	1	1	16.88	16.97	17.00	18.2
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	DFT-s-OFDM QPSK	1	1	23.85	24.00	24.09	25.2
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	DFT-s-OFDM QPSK	1	1	23.92	24.06	24.06	25.2
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	DFT-s-OFDM QPSK	1	1	23.80	23.97	24.08	25.2
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	DFT-s-OFDM QPSK	1	1	23.83	24.04	23.98	25.2
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	DFT-s-OFDM QPSK	1	1	23.89	24.05	24.06	25.2
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	DFT-s-OFDM QPSK	1	1	23.75	23.97	24.08	25.2

n7 (PC3)(ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	DFT-s-OFDM PI/2 BPSK	1	1	22.70	22.80	22.85	24.2
40		1	108	22.73	22.77	22.74	
40		1	214	22.98	22.98	22.88	
40		108	1	22.20	22.29	22.35	24.2
40		108	54	22.85	22.98	22.93	
40		108	108	22.33	22.26	22.30	
40		216	0	22.37	22.38	22.38	
40	DFT-s-OFDM QPSK	1	1	23.45	23.52	23.43	24.2
40		1	108	23.33	23.23	23.13	
40		1	214	22.98	23.32	23.05	
40		108	1	22.27	22.62	22.31	24.2
40		108	54	23.30	23.35	23.33	
40		108	108	22.53	22.24	22.33	
40		216	0	23.22	23.25	23.26	
40	DFT-s-OFDM 16QAM	1	1	21.85	22.08	22.45	23.2
40	DFT-s-OFDM 64QAM	1	1	20.19	20.52	20.84	21.2
40	DFT-s-OFDM 256QAM	1	1	18.29	18.62	18.72	19.2
40	CP-OFDM QPSK	1	1	21.38	21.57	21.53	22.2
40	CP-OFDM 16QAM	1	1	21.05	21.06	21.62	22.2
40	CP-OFDM 64QAM	1	1	19.36	19.49	19.64	20.2
40	CP-OFDM 256QAM	1	1	16.44	16.50	16.68	17.2
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	DFT-s-OFDM QPSK	1	1	23.23	23.40	23.36	24.2
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	DFT-s-OFDM QPSK	1	1	23.32	23.51	23.43	24.2
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	DFT-s-OFDM QPSK	1	1	23.19	23.47	23.31	24.2
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	DFT-s-OFDM QPSK	1	1	23.25	23.50	23.48	24.2
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	DFT-s-OFDM QPSK	1	1	23.10	23.51	23.50	24.2
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	DFT-s-OFDM QPSK	1	1	23.25	23.33	23.28	24.2

n12 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	DFT-s-OFDM PI/2 BPSK	1	1	23.81	23.71	23.71	25
15		1	39	23.78	23.78	23.71	
15		1	77	23.72	23.68	23.72	
15		36	1	23.20	23.24	23.17	25
15		36	18	23.84	23.87	23.81	
15		36	37	23.20	23.23	23.16	
15		75	0	23.16	23.20	23.16	
15	DFT-s-OFDM QPSK	1	1	23.36	23.62	23.66	25
15		1	39	23.78	23.90	23.89	
15		1	77	23.79	23.74	23.74	
15		36	1	23.11	23.03	23.13	25
15		36	18	23.76	23.89	23.84	
15		36	37	23.11	23.14	23.07	
15		75	0	23.62	23.66	23.62	
15	DFT-s-OFDM 16QAM	1	1	22.06	22.19	22.10	24
15	DFT-s-OFDM 64QAM	1	1	20.50	20.46	20.43	22
15	DFT-s-OFDM 256QAM	1	1	18.38	18.36	18.31	20
15	CP-OFDM QPSK	1	1	21.62	21.69	21.66	23
15	CP-OFDM 16QAM	1	1	21.05	21.03	20.99	22
15	CP-OFDM 64QAM	1	1	19.22	19.21	19.18	20
15	CP-OFDM 256QAM	1	1	16.32	16.29	16.29	17
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	DFT-s-OFDM QPSK	1	1	23.81	23.75	23.76	25
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	DFT-s-OFDM QPSK	1	1	23.76	23.75	23.64	25

n12 (PC3)(ANT1)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				141300	141500	141700	Tune-up limit (dBm)
Frequency (MHz)				706.5	707.5	708.5	
15	DFT-s-OFDM PI/2 BPSK	1	1	23.93	23.88	23.91	25.2
15		1	39	23.88	23.86	23.88	
15		1	77	23.91	23.89	23.85	
15		36	1	23.24	23.24	23.22	25.2
15		36	18	23.96	23.98	23.95	
15		36	37	23.23	23.31	23.23	
15		75	0	23.32	23.30	23.29	
15	DFT-s-OFDM QPSK	1	1	23.69	23.90	23.75	25.2
15		1	39	23.92	24.04	23.94	
15		1	77	23.89	23.88	23.86	
15		36	1	23.29	23.29	23.23	25.2
15		36	18	23.99	24.01	23.97	
15		36	37	23.36	23.44	23.32	
15		75	0	23.94	23.94	23.89	
15	DFT-s-OFDM 16QAM	1	1	22.82	22.79	22.86	24.2
15	DFT-s-OFDM 64QAM	1	1	21.00	21.10	21.06	22.2
15	DFT-s-OFDM 256QAM	1	1	18.85	18.82	18.83	20.2
15	CP-OFDM QPSK	1	1	22.45	22.48	22.48	23.2
15	CP-OFDM 16QAM	1	1	21.86	21.89	21.84	22.2
15	CP-OFDM 64QAM	1	1	19.80	19.78	19.80	20.2
15	CP-OFDM 256QAM	1	1	16.95	16.92	16.94	18.2
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	DFT-s-OFDM QPSK	1	1	23.91	23.85	23.78	25.2
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	DFT-s-OFDM QPSK	1	1	23.83	23.78	23.77	25.2

n25 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				374000	376500	380000	
Frequency (MHz)				1870	1882.5	1900	
40	DFT-s-OFDM PI/2 BPSK	1	1	22.42	22.39	22.37	23.6
40		1	108	22.28	22.16	22.35	
40		1	214	22.21	22.32	22.42	
40		108	1	21.77	21.78	21.73	23.6
40		108	54	22.30	22.23	22.37	
40		108	108	21.62	21.73	21.78	
40		216	0	21.83	21.73	21.84	
40	DFT-s-OFDM QPSK	1	1	22.46	22.41	22.37	23.6
40		1	108	22.23	22.14	22.36	
40		1	214	22.21	22.17	22.31	
40		108	1	21.68	21.70	21.60	23.6
40		108	54	22.39	22.30	22.31	
40		108	108	21.82	21.77	21.84	
40		216	0	22.33	22.31	22.34	
40	DFT-s-OFDM 16QAM	1	1	21.24	21.25	21.12	22.6
40	DFT-s-OFDM 64QAM	1	1	19.65	19.62	19.64	20.6
40	DFT-s-OFDM 256QAM	1	1	17.35	17.31	17.33	18.6
40	CP-OFDM QPSK	1	1	20.22	20.30	20.55	21.6
40	CP-OFDM 16QAM	1	1	19.55	19.34	19.21	20.6
40	CP-OFDM 64QAM	1	1	18.42	18.33	18.34	19.6
40	CP-OFDM 256QAM	1	1	15.36	15.35	15.35	16.6
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	DFT-s-OFDM QPSK	1	1	22.41	22.30	22.17	23.6
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	DFT-s-OFDM QPSK	1	1	22.41	22.24	22.29	23.6
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM QPSK	1	1	22.38	22.29	22.15	23.6
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	22.43	22.32	22.22	23.6
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	22.44	22.23	22.14	23.6
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	DFT-s-OFDM QPSK	1	1	22.25	22.11	22.06	23.6

n25 (PC3)(ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				374000	376500	380000	
Frequency (MHz)				1870	1882.5	1900	
40	DFT-s-OFDM PI/2 BPSK	1	1	23.80	23.67	23.57	24.7
40		1	108	23.81	23.48	23.55	
40		1	214	23.74	23.58	23.62	
40		108	1	23.22	23.01	22.93	24.7
40		108	54	23.82	23.55	23.57	
40		108	108	23.17	22.98	22.98	
40		216	0	23.29	23.02	23.04	
40	DFT-s-OFDM QPSK	1	1	23.87	23.67	23.57	24.7
40		1	108	23.84	23.44	23.56	
40		1	214	23.72	23.54	23.51	
40		108	1	22.72	22.74	22.72	24.7
40		108	54	23.79	23.59	23.51	
40		108	108	22.73	22.80	22.74	
40		216	0	23.66	23.68	23.69	
40	DFT-s-OFDM 16QAM	1	1	22.61	22.34	22.32	23.7
40	DFT-s-OFDM 64QAM	1	1	21.10	20.77	20.84	21.7
40	DFT-s-OFDM 256QAM	1	1	18.83	18.65	18.53	19.7
40	CP-OFDM QPSK	1	1	22.44	22.18	22.16	23.7
40	CP-OFDM 16QAM	1	1	21.76	21.55	21.54	22.7
40	CP-OFDM 64QAM	1	1	19.85	19.71	19.54	20.7
40	CP-OFDM 256QAM	1	1	16.75	16.62	16.55	17.7
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	DFT-s-OFDM QPSK	1	1	23.66	23.55	23.42	24.7
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	DFT-s-OFDM QPSK	1	1	23.66	23.70	23.54	24.7
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM QPSK	1	1	23.63	23.54	23.40	24.7
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	23.68	23.57	23.47	24.7
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	23.69	23.48	23.39	24.7
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	DFT-s-OFDM QPSK	1	1	23.50	23.36	23.31	24.7

n25 (PC3)(ANT5)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				374000	376500	379000	25.2
Frequency (MHz)				1870	1882.5	1895	
40	DFT-s-OFDM PI/2 BPSK	1	1	24.22	24.21	24.19	25.2
40		1	108	24.08	23.95	23.92	
40		1	214	24.01	24.04	24.22	
40		108	1	23.57	23.48	23.45	25.2
40		108	54	24.10	23.99	23.98	
40		108	108	23.42	23.36	23.41	
40		216	0	23.63	23.52	23.53	
40	DFT-s-OFDM QPSK	1	1	24.26	24.21	24.16	25.2
40		1	108	24.03	23.90	23.85	
40		1	214	24.01	24.04	23.68	
40		108	1	23.38	23.30	23.21	25.2
40		108	54	24.19	24.11	24.13	
40		108	108	23.35	23.33	23.25	
40		216	0	24.17	24.03	24.07	
40	DFT-s-OFDM 16QAM	1	1	23.04	23.04	22.96	24.2
40	DFT-s-OFDM 64QAM	1	1	21.45	21.38	21.33	22.2
40	DFT-s-OFDM 256QAM	1	1	19.15	19.14	19.09	20.2
40	CP-OFDM QPSK	1	1	22.83	22.84	22.79	24.2
40	CP-OFDM 16QAM	1	1	22.15	22.16	22.10	23.2
40	CP-OFDM 64QAM	1	1	20.22	20.19	20.14	21.2
40	CP-OFDM 256QAM	1	1	17.16	17.18	17.14	18.2
Channel				373000	376500	380000	25.2
Frequency (MHz)				1865	1882.5	1900	
30	DFT-s-OFDM QPSK	1	1	24.21	24.10	23.97	25.2
Channel				372500	376500	380500	25.2
Frequency (MHz)				1862.5	1882.5	1902.5	
25	DFT-s-OFDM QPSK	1	1	24.21	24.25	24.09	25.2
Channel				372000	376500	381000	25.2
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM QPSK	1	1	24.18	24.09	23.95	25.2
Channel				371500	376500	381500	25.2
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	24.23	24.12	24.02	25.2
Channel				371000	376500	382000	25.2
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	24.24	24.03	23.94	25.2
Channel				370500	376500	382500	25.2
Frequency (MHz)				1852.5	1882.5	1912.5	
5	DFT-s-OFDM QPSK	1	1	24.05	23.91	23.86	25.2

n25 (PC3)(ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	DFT-s-OFDM PI/2 BPSK	1	1	23.37	23.41	23.34	24.4
40		1	108	23.38	23.19	23.32	
40		1	214	23.31	23.27	23.39	
40		108	1	22.79	22.77	22.70	24.4
40		108	54	23.39	23.40	23.34	
40		108	108	22.74	22.70	22.75	
40		216	0	22.86	22.76	22.81	
40	DFT-s-OFDM QPSK	1	1	23.44	23.32	23.34	24.4
40		1	108	23.41	23.19	23.33	
40		1	214	23.29	23.27	23.28	
40		108	1	22.49	22.59	22.47	24.4
40		108	54	23.36	23.30	23.28	
40		108	108	22.46	22.53	22.41	
40		216	0	23.22	23.31	23.30	
40	DFT-s-OFDM 16QAM	1	1	22.18	22.18	22.09	23.4
40	DFT-s-OFDM 64QAM	1	1	20.67	20.62	20.61	21.4
40	DFT-s-OFDM 256QAM	1	1	18.40	18.48	18.30	19.4
40	CP-OFDM QPSK	1	1	22.01	22.01	21.93	23.4
40	CP-OFDM 16QAM	1	1	21.33	21.40	21.31	22.4
40	CP-OFDM 64QAM	1	1	19.42	19.53	19.31	20.4
40	CP-OFDM 256QAM	1	1	16.32	16.38	16.32	17.4
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	DFT-s-OFDM QPSK	1	1	23.32	23.21	23.08	24.4
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	DFT-s-OFDM QPSK	1	1	23.32	23.36	23.20	24.4
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM QPSK	1	1	23.29	23.20	23.06	24.4
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	23.34	23.23	23.13	24.4
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	23.35	23.14	23.05	24.4
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	

n26(814-824MHz) (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					163800		Tune-up limit (dBm)
Frequency (MHz)					819		
10	DFT-s-OFDM PI/2 BPSK	1	1		23.87		25
10		1	26		23.81		
10		1	50		23.79		
10		25	1		23.21		25
10		25	12		23.86		
10		25	25		23.22		
10		50	0		23.26		
10	DFT-s-OFDM QPSK	1	1		23.90		25
10		1	26		23.89		
10		1	50		23.87		
10		25	1		23.09		25
10		25	12		23.87		
10		25	25		23.04		
10		50	0		23.68		
10	DFT-s-OFDM 16QAM	1	1		22.60		23
10	DFT-s-OFDM 64QAM	1	1		21.22		23
10	DFT-s-OFDM 256QAM	1	1		18.79		20
10	CP-OFDM QPSK	1	1		22.10		23
10	CP-OFDM 16QAM	1	1		20.88		22
10	CP-OFDM 64QAM	1	1		19.81		21
10	CP-OFDM 256QAM	1	1		16.83		18
Channel				163300	163800	164300	Tune-up limit (dBm)
Frequency (MHz)				816.5	819	821.5	
5	DFT-s-OFDM QPSK	1	1	23.66	23.80	23.70	25

n26(814-824MHz) (PC3)(ANT1)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					163800		
Frequency (MHz)					819		
10	DFT-s-OFDM PI/2 BPSK	1	1		24.00		25.2
10		1	26		23.99		
10		1	50		23.96		
10		25	1		23.41		25.2
10		25	12		24.04		
10		25	25		23.44		
10		50	0		23.43		
10	DFT-s-OFDM QPSK	1	1		23.54		25.2
10		1	26		24.06		
10		1	50		24.03		
10		25	1		23.25		25.2
10		25	12		24.05		
10		25	25		23.24		
10		50	0		23.95		
10	DFT-s-OFDM 16QAM	1	1		22.93		24.2
10	DFT-s-OFDM 64QAM	1	1		21.23		22.2
10	DFT-s-OFDM 256QAM	1	1		18.97		20.2
10	CP-OFDM QPSK	1	1		22.64		24.2
10	CP-OFDM 16QAM	1	1		21.96		23.2
10	CP-OFDM 64QAM	1	1		19.99		21.2
10	CP-OFDM 256QAM	1	1		17.03		18.2
Channel				163300	163800	164300	Tune-up limit (dBm)
Frequency (MHz)				816.5	819	821.5	
5	DFT-s-OFDM QPSK	1	1	23.87	23.86	23.90	25.2

n26(824-849MHz) (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.68	23.84	23.72	25
20		1	53	23.67	23.75	23.64	
20		1	104	23.68	23.69	23.62	
20		50	1	23.09	23.11	23.11	25
20	DFT-s-OFDM QPSK	50	25	23.73	23.73	23.67	
20		50	50	23.03	23.06	23.12	
20		100	0	23.24	23.25	23.16	
20		1	1	23.87	23.84	23.82	25
20	DFT-s-OFDM 16QAM	1	53	23.75	23.82	23.79	
20		1	104	23.77	23.77	23.69	
20		50	1	23.19	23.00	23.03	25
20		50	25	23.78	23.76	23.67	
20	DFT-s-OFDM 64QAM	50	50	23.16	23.19	23.19	
20		100	0	23.55	23.66	23.61	
20	DFT-s-OFDM 256QAM	1	1	22.39	22.20	22.17	23
20	CP-OFDM QPSK	1	1	20.65	20.65	20.59	22
20	CP-OFDM 16QAM	1	1	18.23	18.29	18.35	20
20	CP-OFDM 64QAM	1	1	21.94	21.89	21.91	22
20	CP-OFDM 256QAM	1	1	21.25	21.30	21.19	22
20		1	1	19.35	19.37	19.29	20
20		1	1	16.28	16.40	16.24	17
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	23.82	23.81	23.77	25
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	23.73	23.55	23.56	25
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	23.79	23.62	23.62	25

n26(824-849MHz) (PC3)(ANT1)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	25.2
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.96	23.96	24.00	25.2
20		1	53	23.95	23.99	23.92	
20		1	104	23.96	23.91	23.90	
20		50	1	23.37	23.34	23.39	25.2
20		50	25	24.01	24.00	23.95	
20		50	50	23.31	23.29	23.40	
20		100	0	23.52	23.50	23.44	
20	DFT-s-OFDM QPSK	1	1	24.05	24.02	24.00	25.2
20		1	53	23.93	23.91	23.97	
20		1	104	23.95	23.94	23.87	
20		50	1	23.27	23.27	23.31	25.2
20		50	25	24.01	23.95	23.95	
20		50	50	23.24	23.20	23.27	
20		100	0	23.95	23.90	23.88	
20	DFT-s-OFDM 16QAM	1	1	23.01	22.79	22.79	24.2
20	DFT-s-OFDM 64QAM	1	1	21.27	21.13	21.21	22.2
20	DFT-s-OFDM 256QAM	1	1	18.85	18.89	18.97	19.2
20	CP-OFDM QPSK	1	1	22.56	22.50	22.53	23.2
20	CP-OFDM 16QAM	1	1	21.87	21.85	21.81	22.2
20	CP-OFDM 64QAM	1	1	19.97	19.97	19.91	20.2
20	CP-OFDM 256QAM	1	1	16.90	16.91	16.86	18.2
Channel				166300	167300	168300	25.2
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	24.00	23.99	23.95	25.2
Channel				165800	167300	168800	25.2
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	24.04	23.86	23.87	25.2
Channel				165300	167300	169300	25.2
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	23.93	23.76	23.76	25.2

n30 (PC3)(ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					462000		24.2
Frequency (MHz)					2310		
10	DFT-s-OFDM PI/2 BPSK	1	1		22.85		24.2
10		1	26		23.00		
10		1	50		22.96		
10		25	1		22.34		24.2
10		25	12		23.01		
10		25	25		22.44		
10		50	0		22.74		
10	DFT-s-OFDM QPSK	1	1		22.74		24.2
10		1	26		23.03		
10		1	50		22.65		
10		25	1		22.22		24.2
10		25	12		22.99		
10		25	25		22.40		
10		50	0		22.83		
10	DFT-s-OFDM 16QAM	1	1		21.76		23.2
10	DFT-s-OFDM 64QAM	1	1		20.12		21.2
10	DFT-s-OFDM 256QAM	1	1		17.97		19.2
10	CP-OFDM QPSK	1	1		21.38		22.2
10	CP-OFDM 16QAM	1	1		20.77		21.2
10	CP-OFDM 64QAM	1	1		18.92		19.2
10	CP-OFDM 256QAM	1	1		15.93		16.2
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	DFT-s-OFDM QPSK	1	1	22.61	22.89	22.90	24.2

n30 (PC3)(ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	DFT-s-OFDM PI/2 BPSK	1	1		22.63		23.9
10		1	26		22.70		
10		1	50		22.68		
10		25	1		22.01		23.9
10		25	12		22.69		
10		25	25		22.16		
10		50	0		22.03		
10	DFT-s-OFDM QPSK	1	1		22.52		23.9
10		1	26		22.73		
10		1	50		22.64		
10		25	1		21.98		23.9
10		25	12		22.65		
10		25	25		21.92		
10		50	0		22.61		
10	DFT-s-OFDM 16QAM	1	1		21.38		22.9
10	DFT-s-OFDM 64QAM	1	1		19.76		20.9
10	DFT-s-OFDM 256QAM	1	1		17.65		18.9
10	CP-OFDM QPSK	1	1		21.04		22.9
10	CP-OFDM 16QAM	1	1		20.46		21.9
10	CP-OFDM 64QAM	1	1		18.60		19.9
10	CP-OFDM 256QAM	1	1		15.63		16.9
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	DFT-s-OFDM QPSK	1	1	22.51	22.63	22.67	23.9

n38 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	22.04	22.13	22.16	23.3
40		1	53	21.89	21.79	21.85	
40		1	104	21.85	21.73	21.87	
40		50	1	21.53	21.50	21.51	23.3
40	DFT-s-OFDM QPSK	50	25	22.09	21.96	22.06	
40		50	50	21.37	21.27	21.36	
40		100	0	21.61	21.54	21.53	
40		1	1	22.15	22.19	22.22	23.3
40	DFT-s-OFDM 16QAM	1	53	21.86	21.78	21.82	
40		1	104	21.86	21.63	21.85	
40		50	1	21.36	21.32	21.33	23.3
40		50	25	22.08	22.10	22.11	
40	DFT-s-OFDM 64QAM	50	50	21.32	21.34	21.30	
40		100	0	22.10	22.10	22.05	
40	DFT-s-OFDM 256QAM	1	1	20.75	21.14	21.00	22.3
40	DFT-s-OFDM 64QAM	1	1	19.36	19.47	19.49	20.3
40	DFT-s-OFDM 256QAM	1	1	17.19	17.35	17.31	18.3
40	CP-OFDM QPSK	1	1	20.66	20.71	20.72	21.3
40	CP-OFDM 16QAM	1	1	20.04	20.05	20.13	20.3
40	CP-OFDM 64QAM	1	1	18.02	18.34	18.19	19.3
40	CP-OFDM 256QAM	1	1	15.18	15.37	15.03	16.3
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	DFT-s-OFDM QPSK	1	1	22.10	22.20	22.15	23.3
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	DFT-s-OFDM QPSK	1	1	21.99	22.11	22.05	23.3
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	DFT-s-OFDM QPSK	1	1	22.01	22.01	21.98	23.3
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	DFT-s-OFDM QPSK	1	1	22.04	22.04	21.99	23.3

n38 (PC3)(ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	23.60	23.71	23.72	24.7
40		1	53	23.45	23.48	23.41	
40		1	104	23.41	23.47	23.43	
40		50	1	23.09	23.21	23.07	24.7
40		50	25	23.65	23.66	23.62	
40		50	50	22.93	23.01	22.92	
40		100	0	23.17	23.18	23.09	
40	DFT-s-OFDM QPSK	1	1	23.71	23.74	23.78	24.7
40		1	53	23.42	23.58	23.38	
40		1	104	23.42	23.44	23.41	
40		50	1	22.82	22.79	22.79	24.7
40		50	25	23.64	23.64	23.67	
40		50	50	22.78	22.71	22.76	
40		100	0	23.55	23.56	23.49	
40	DFT-s-OFDM 16QAM	1	1	22.01	22.36	22.26	23.7
40	DFT-s-OFDM 64QAM	1	1	20.62	20.94	20.75	22.7
40	DFT-s-OFDM 256QAM	1	1	18.45	18.51	18.57	19.7
40	CP-OFDM QPSK	1	1	21.92	22.00	21.98	23.7
40	CP-OFDM 16QAM	1	1	21.30	20.43	21.39	21.7
40	CP-OFDM 64QAM	1	1	19.28	19.46	19.45	20.7
40	CP-OFDM 256QAM	1	1	16.44	16.52	16.33	17.7
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	DFT-s-OFDM QPSK	1	1	23.18	23.28	23.23	24.7
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	DFT-s-OFDM QPSK	1	1	23.37	23.49	23.52	24.7
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	DFT-s-OFDM QPSK	1	1	23.39	23.39	23.36	24.7
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	DFT-s-OFDM QPSK	1	1	23.42	23.42	23.37	24.7

n38 (PC3)(ANT5)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	Tune-up limit (dBm)
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	24.04	24.16	24.16	25.2
40		1	53	23.89	23.86	23.85	
40		1	104	23.85	23.86	23.87	
40		50	1	23.53	23.53	23.51	25.2
40		50	25	24.09	24.02	24.06	
40		50	50	23.37	23.36	23.36	
40		100	0	23.61	23.59	23.53	
40	DFT-s-OFDM QPSK	1	1	24.15	24.19	24.22	25.2
40		1	53	23.86	23.86	23.82	
40		1	104	23.86	23.84	23.85	
40		50	1	23.36	23.31	23.33	25.2
40		50	25	24.08	24.04	24.11	
40		50	50	23.42	23.38	23.40	
40		100	0	23.93	23.90	23.97	
40	DFT-s-OFDM 16QAM	1	1	22.75	22.86	23.00	24.2
40	DFT-s-OFDM 64QAM	1	1	21.36	21.39	21.49	22.2
40	DFT-s-OFDM 256QAM	1	1	19.19	19.19	19.31	20.2
40	CP-OFDM QPSK	1	1	22.66	22.73	22.72	24.2
40	CP-OFDM 16QAM	1	1	22.04	22.14	22.13	23.2
40	CP-OFDM 64QAM	1	1	20.02	20.15	20.19	21.2
40	CP-OFDM 256QAM	1	1	17.18	17.23	17.07	18.2
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	DFT-s-OFDM QPSK	1	1	24.10	24.20	24.15	25.2
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	DFT-s-OFDM QPSK	1	1	23.99	24.11	24.05	25.2
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	DFT-s-OFDM QPSK	1	1	24.01	24.01	23.98	25.2
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	DFT-s-OFDM QPSK	1	1	24.04	24.04	23.99	25.2

n38 (PC3)(ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	23.56	23.69	23.68	24.4
40		1	53	23.41	23.60	23.37	
40		1	104	23.37	23.71	23.39	
40		50	1	23.05	23.40	23.03	24.4
40		50	25	23.61	23.71	23.58	
40		50	50	22.89	23.20	22.88	
40		100	0	23.13	23.41	23.05	
40	DFT-s-OFDM QPSK	1	1	23.67	23.71	23.74	24.4
40		1	53	23.38	23.67	23.34	
40		1	104	23.38	23.66	23.37	
40		50	1	22.58	22.85	22.55	24.4
40		50	25	23.60	23.62	23.63	
40		50	50	22.64	22.77	22.62	
40		100	0	23.26	23.39	23.36	
40	DFT-s-OFDM 16QAM	1	1	22.27	22.81	22.52	23.4
40	DFT-s-OFDM 64QAM	1	1	20.88	21.44	21.01	22.4
40	DFT-s-OFDM 256QAM	1	1	18.71	19.12	18.83	19.4
40	CP-OFDM QPSK	1	1	22.18	22.31	22.24	23.4
40	CP-OFDM 16QAM	1	1	21.56	21.57	21.65	22.4
40	CP-OFDM 64QAM	1	1	19.54	20.04	19.71	21.4
40	CP-OFDM 256QAM	1	1	16.30	16.22	16.25	17.4
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	DFT-s-OFDM QPSK	1	1	23.62	23.72	23.67	24.4
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	DFT-s-OFDM QPSK	1	1	23.51	23.63	23.57	24.4
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	DFT-s-OFDM QPSK	1	1	23.53	23.53	23.50	24.4
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	DFT-s-OFDM QPSK	1	1	23.56	23.56	23.51	24.4

n41 (PC2)(ANT0)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	25.2
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	23.61	24.04	23.98	24.00	23.94	25.2
100		1	136	23.77	23.93	23.76	23.54	23.85	
100		1	271	24.01	23.65	23.44	23.29	23.78	
100		135	1	23.23	23.29	23.29	23.29	23.25	25.2
100		135	67	23.79	24.00	23.84	23.59	23.85	
100		135	136	23.29	23.38	23.38	23.23	23.25	
100		270	0	23.27	23.23	23.28	23.25	23.20	
100	DFT-s-OFDM QPSK	1	1	23.88	23.96	23.85	23.76	23.97	25.2
100		1	136	23.90	24.05	24.06	24.04	23.97	
100		1	271	24.00	23.59	23.44	23.43	23.24	
100		135	1	23.23	23.35	23.30	23.28	23.36	25.2
100		135	67	23.86	24.01	24.03	23.85	23.96	
100		135	136	23.29	23.39	23.20	23.21	23.29	
100		270	0	23.96	23.94	23.98	23.91	23.88	
100	DFT-s-OFDM 16QAM	1	1	22.37	22.50	22.50	22.48	22.10	23.2
100	DFT-s-OFDM 64QAM	1	1	21.21	21.67	21.59	21.33	21.19	22.2
100	DFT-s-OFDM 256QAM	1	1	20.08	20.35	20.33	20.41	19.99	21.2
100	CP-OFDM QPSK	1	1	22.07	22.39	22.36	22.45	22.30	23.2
100	CP-OFDM 16QAM	1	1	21.58	21.76	21.88	21.68	21.86	22.2
100	CP-OFDM 64QAM	1	1	20.29	20.67	20.63	20.67	20.31	21.2
100	CP-OFDM 256QAM	1	1	16.25	16.20	16.22	16.10	16.20	17.2
Channel				508200	513402	518598	523800	528996	25.2
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	23.44	23.73	23.84	23.96	23.93	25.2
Channel				507204	512904	518598	524298	529998	25.2
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	23.49	23.76	23.87	23.99	24.04	25.2
Channel				506202	512400	518598	524796	531000	25.2
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	23.41	23.65	23.88	23.92	23.89	25.2
Channel				505200	511902	518598	525798	531996	25.2
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	23.33	23.78	23.82	23.93	23.86	25.2
Channel				504204	511404	518598	525798	532998	25.2
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	23.68	23.87	24.00	24.01	24.01	25.2
Channel				503202	510900	518598	526296	534000	25.2
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	23.51	23.70	23.86	23.86	23.66	25.2
Channel				502200	510402	518598	526800	534996	25.2
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	23.65	23.79	24.03	23.93	23.68	25.2
Channel				501204	509904	518598	527298	535998	25.2
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	23.49	23.69	23.77	23.79	23.50	25.2

n41 (PC2) (ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	26.7
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	25.68	25.87	25.87	25.89	25.90	26.7
100		1	136	25.79	25.77	25.83	25.85	25.64	
100		1	271	25.96	25.93	25.72	25.40	25.27	
100		135	1	24.78	24.79	24.82	24.78	24.78	26.7
100		135	67	25.85	25.89	25.98	25.89	25.88	
100		135	136	24.71	24.73	24.82	24.77	24.82	
100		270	0	24.78	24.74	24.82	24.74	24.83	
100	DFT-s-OFDM QPSK	1	1	25.77	25.75	25.91	25.97	25.92	26.7
100		1	136	26.01	25.97	26.02	25.96	25.98	
100		1	271	25.94	25.79	25.77	25.45	25.32	
100		135	1	24.76	24.84	24.88	24.92	24.89	26.7
100		135	67	25.85	25.86	25.95	25.85	25.88	
100		135	136	24.85	24.95	24.81	24.70	24.83	
100		270	0	25.59	25.44	25.66	25.59	25.54	
100	DFT-s-OFDM 16QAM	1	1	24.80	24.76	24.85	24.91	24.90	25.7
100	DFT-s-OFDM 64QAM	1	1	23.80	23.82	23.96	23.98	23.86	24.7
100	DFT-s-OFDM 256QAM	1	1	22.61	22.63	22.75	22.72	22.72	23.7
100	CP-OFDM QPSK	1	1	24.93	24.97	24.98	25.07	25.11	25.7
100	CP-OFDM 16QAM	1	1	23.33	23.31	23.32	23.51	23.40	24.7
100	CP-OFDM 64QAM	1	1	23.39	23.44	23.52	23.53	23.57	24.7
100	CP-OFDM 256QAM	1	1	20.11	20.15	20.12	20.25	20.29	21.7
Channel				508200	513402	518598	523800	528996	26.7
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	25.86	25.87	25.88	25.97	25.96	26.7
Channel				507204	512904	518598	524298	529998	26.7
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	25.83	25.96	25.99	25.98	25.95	26.7
Channel				506202	512400	518598	524796	531000	26.7
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	25.72	25.81	25.90	25.97	25.82	26.7
Channel				505200	511902	518598	525798	531996	26.7
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	25.68	25.89	25.95	25.96	25.70	26.7
Channel				504204	511404	518598	525798	532998	26.7
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	25.82	26.00	25.98	25.98	25.72	26.7
Channel				503202	510900	518598	526296	534000	26.7
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	25.64	25.83	25.98	25.73	25.44	26.7
Channel				502200	510402	518598	526800	534996	26.7
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	25.78	25.93	25.95	25.89	25.30	26.7
Channel				501204	509904	518598	527298	535998	26.7
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	25.70	25.92	25.82	25.73	25.18	26.7

n41 (PC2)(ANT5)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	27.2
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	25.86	25.98	26.04	26.16	26.19	27.2
100		1	136	26.02	26.06	26.17	26.09	26.10	
100		1	271	26.26	26.20	26.23	25.95	26.03	
100		135	1	25.28	25.38	25.32	25.48	25.40	27.2
100		135	67	26.04	26.13	26.28	26.22	26.10	
100		135	136	25.34	25.35	25.40	25.32	25.30	
100		270	0	25.22	25.38	25.44	25.49	25.35	
100	DFT-s-OFDM QPSK	1	1	25.85	25.89	25.96	25.67	26.22	27.2
100		1	136	26.13	26.22	26.29	26.20	26.22	
100		1	271	26.25	26.20	26.22	25.91	25.39	
100		135	1	25.28	25.29	25.34	25.47	25.41	27.2
100		135	67	25.91	26.08	26.12	26.10	26.01	
100		135	136	25.34	25.43	25.38	25.29	25.24	
100		270	0	25.81	25.99	26.02	26.08	25.97	
100	DFT-s-OFDM 16QAM	1	1	24.58	24.81	24.87	25.02	25.11	26.2
100	DFT-s-OFDM 64QAM	1	1	23.42	23.89	23.99	24.09	24.20	25.2
100	DFT-s-OFDM 256QAM	1	1	21.69	22.75	22.86	22.88	23.00	24.2
100	CP-OFDM QPSK	1	1	24.28	25.03	25.21	25.26	25.31	26.2
100	CP-OFDM 16QAM	1	1	23.79	24.54	24.61	24.78	24.87	25.2
100	CP-OFDM 64QAM	1	1	22.95	23.56	23.64	23.78	23.77	24.2
100	CP-OFDM 256QAM	1	1	20.20	20.29	20.19	20.47	20.33	21.2
Channel				508200	513402	518598	523800	528996	27.2
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	25.69	25.98	26.09	26.21	26.18	27.2
Channel				507204	512904	518598	524298	529998	27.2
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	25.74	26.01	26.12	26.24	26.19	27.2
Channel				506202	512400	518598	524796	531000	27.2
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	25.66	25.90	26.13	26.17	26.14	27.2
Channel				505200	511902	518598	525798	531996	27.2
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	25.58	26.03	26.07	26.18	26.11	27.2
Channel				504204	511404	518598	525798	532998	27.2
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	25.93	26.12	26.25	26.26	26.16	27.2
Channel				503202	510900	518598	526296	534000	27.2
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	25.76	25.95	26.01	26.11	25.91	27.2
Channel				502200	510402	518598	526800	534996	27.2
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	25.90	26.04	26.15	26.18	25.93	27.2
Channel				501204	509904	518598	527298	535998	27.2
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	25.74	25.94	26.02	26.04	25.75	27.2

n41 (PC2)(ANT6)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	26.4
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	25.23	25.56	25.48	25.51	25.56	26.4
100		1	136	25.39	25.49	25.55	25.57	25.47	
100		1	271	25.63	25.43	25.60	25.34	25.40	
100		135	1	24.45	24.45	24.44	24.51	24.57	26.4
100		135	67	25.41	25.57	25.65	25.62	25.47	
100		135	136	24.51	24.49	24.53	24.46	24.37	
100		270	0	24.49	24.52	24.57	24.56	24.42	
100	DFT-s-OFDM QPSK	1	1	25.22	25.56	25.43	25.49	25.59	26.4
100		1	136	25.50	25.58	25.66	25.61	25.59	
100		1	271	25.62	25.42	25.65	25.40	24.76	
100		135	1	24.55	24.48	24.38	24.57	24.68	26.4
100		135	67	25.48	25.59	25.64	25.59	25.48	
100		135	136	24.61	24.54	24.45	24.53	24.51	
100		270	0	25.52	25.34	25.58	25.21	25.21	
100	DFT-s-OFDM 16QAM	1	1	23.88	23.92	24.25	24.30	24.41	25.4
100	DFT-s-OFDM 64QAM	1	1	22.72	22.89	22.80	22.79	23.50	23.4
100	DFT-s-OFDM 256QAM	1	1	20.99	21.90	21.75	21.82	22.30	22.4
100	CP-OFDM QPSK	1	1	23.58	24.07	23.96	23.58	24.61	24.4
100	CP-OFDM 16QAM	1	1	23.09	22.62	22.44	22.36	24.17	23.4
100	CP-OFDM 64QAM	1	1	22.25	22.88	22.76	22.89	23.07	23.4
100	CP-OFDM 256QAM	1	1	19.50	19.29	19.16	19.17	19.63	20.4
Channel				508200	513402	518598	523800	528996	26.4
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	25.06	25.35	25.46	25.58	25.55	26.4
Channel				507204	512904	518598	524298	529998	26.4
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	25.11	25.38	25.49	25.61	25.11	26.4
Channel				506202	512400	518598	524796	531000	26.4
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	25.03	25.27	25.50	25.54	25.51	26.4
Channel				505200	511902	518598	525798	531996	26.4
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	24.95	25.40	25.44	25.55	25.48	26.4
Channel				504204	511404	518598	525798	532998	26.4
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	25.30	25.49	25.62	25.63	25.63	26.4
Channel				503202	510900	518598	526296	534000	26.4
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	25.13	25.32	25.48	25.48	25.28	26.4
Channel				502200	510402	518598	526800	534996	26.4
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	25.27	25.41	25.20	25.55	25.30	26.4
Channel				501204	509904	518598	527298	535998	26.4
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	25.11	25.31	25.39	25.41	25.12	26.4

n41 (PC3)(ANT0)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	23.2
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	21.79	22.12	22.04	22.07	22.12	23.2
100		1	136	21.95	22.05	22.11	22.13	22.03	
100		1	271	22.19	21.99	22.16	21.90	21.96	
100		135	1	21.41	21.51	21.50	21.57	21.53	23.2
100		135	67	21.97	22.13	22.21	22.18	22.03	
100		135	136	21.47	21.55	21.59	21.52	21.43	
100		270	0	21.35	21.58	21.63	21.62	21.48	
100	DFT-s-OFDM QPSK	1	1	21.78	22.12	21.99	22.05	22.15	23.2
100		1	136	22.06	22.14	22.22	22.17	22.15	
100		1	271	22.18	21.98	22.21	21.96	21.32	
100		135	1	21.41	21.34	21.24	21.43	21.54	23.2
100		135	67	22.04	22.15	22.20	22.15	22.04	
100		135	136	21.47	21.40	21.31	21.39	21.37	
100		270	0	22.08	21.90	22.14	22.10	22.10	
100	DFT-s-OFDM 16QAM	1	1	20.44	20.48	20.81	20.86	20.97	21.2
100	DFT-s-OFDM 64QAM	1	1	19.28	19.45	19.36	19.35	20.06	20.2
100	DFT-s-OFDM 256QAM	1	1	17.55	18.46	18.31	18.38	18.86	19.2
100	CP-OFDM QPSK	1	1	20.14	20.63	20.52	20.14	21.17	21.2
100	CP-OFDM 16QAM	1	1	19.65	19.18	19.00	18.92	19.10	20.2
100	CP-OFDM 64QAM	1	1	18.81	19.44	19.32	19.45	19.63	20.2
100	CP-OFDM 256QAM	1	1	16.06	15.85	15.72	15.73	16.19	17.2
Channel				508200	513402	518598	523800	528996	23.2
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	21.62	21.91	22.02	22.14	22.11	23.2
Channel				507204	512904	518598	524298	529998	23.2
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	21.67	21.94	22.05	22.17	22.11	23.2
Channel				506202	512400	518598	524796	531000	23.2
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	21.59	21.83	22.06	22.10	22.07	23.2
Channel				505200	511902	518598	525798	531996	23.2
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	21.51	21.96	22.00	22.11	22.04	23.2
Channel				504204	511404	518598	525798	532998	23.2
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	21.86	22.05	22.18	22.19	22.19	23.2
Channel				503202	510900	518598	526296	534000	23.2
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	21.69	21.88	22.04	22.04	21.84	23.2
Channel				502200	510402	518598	526800	534996	23.2
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	21.83	21.97	22.12	22.11	21.86	23.2
Channel				501204	509904	518598	527298	535998	23.2
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	21.67	21.87	21.95	21.97	21.68	23.2

n41 (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	25.2
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	23.75	24.08	24.00	24.03	24.08	25.2
100		1	136	23.91	24.01	24.07	24.09	23.99	
100		1	271	24.15	23.95	24.12	23.86	23.92	
100		135	1	23.47	23.47	23.46	23.53	23.59	25.2
100		135	67	23.93	24.09	24.17	24.14	23.99	
100		135	136	23.53	23.51	23.55	23.48	23.49	
100		270	0	23.41	23.54	23.59	23.58	23.54	
100	DFT-s-OFDM QPSK	1	1	23.74	24.08	23.95	24.01	24.11	25.2
100		1	136	24.02	24.10	24.18	24.13	24.11	
100		1	271	24.14	23.94	24.17	23.92	23.28	
100		135	1	23.47	23.40	23.30	23.49	23.60	25.2
100		135	67	24.00	24.11	24.16	24.11	24.00	
100		135	136	23.53	23.46	23.37	23.45	23.43	
100		270	0	24.04	23.86	24.10	23.73	23.73	
100	DFT-s-OFDM 16QAM	1	1	22.40	22.44	22.77	22.82	22.93	23.2
100	DFT-s-OFDM 64QAM	1	1	21.24	21.41	21.32	21.31	22.02	22.2
100	DFT-s-OFDM 256QAM	1	1	19.51	20.42	20.27	20.34	20.82	21.2
100	CP-OFDM QPSK	1	1	22.10	22.59	22.48	22.10	22.40	23.2
100	CP-OFDM 16QAM	1	1	21.61	21.14	20.96	20.88	21.06	22.2
100	CP-OFDM 64QAM	1	1	20.77	21.40	21.28	21.41	21.59	22.2
100	CP-OFDM 256QAM	1	1	17.22	17.81	17.68	17.69	17.55	19.2
Channel				508200	513402	518598	523800	528996	25.2
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	23.58	23.87	23.98	24.10	24.07	25.2
Channel				507204	512904	518598	524298	529998	25.2
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	23.63	23.90	24.01	24.13	24.12	25.2
Channel				506202	512400	518598	524796	531000	25.2
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	23.55	23.79	24.02	24.06	24.03	25.2
Channel				505200	511902	518598	525798	531996	25.2
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	23.47	23.92	23.96	24.07	24.00	25.2
Channel				504204	511404	518598	525798	532998	25.2
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	23.82	24.01	24.14	24.15	24.15	25.2
Channel				503202	510900	518598	526296	534000	25.2
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	23.65	23.84	24.00	24.00	23.80	25.2
Channel				502200	510402	518598	526800	534996	25.2
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	23.79	23.93	24.10	24.07	23.82	25.2
Channel				501204	509904	518598	527298	535998	25.2
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	23.63	23.83	23.91	23.93	23.64	25.2

n41 (PC3)(ANT5)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	25.2
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	23.60	23.68	23.74	23.93	23.93	25.2
100		1	136	23.67	23.83	23.84	23.82	23.74	
100		1	271	23.91	23.85	23.75	23.52	23.64	
100		135	1	23.65	23.76	23.80	23.87	23.82	25.2
100		135	67	23.76	23.92	23.93	23.78	23.75	
100		135	136	23.87	23.89	23.83	23.68	23.56	
100		270	0	23.73	23.87	23.90	23.86	23.83	
100	DFT-s-OFDM QPSK	1	1	23.58	23.59	23.71	23.91	23.90	25.2
100		1	136	23.82	23.85	23.97	23.85	23.78	
100		1	271	23.88	23.88	23.78	23.75	23.76	
100		135	1	23.56	23.66	23.81	23.88	23.83	25.2
100		135	67	23.85	23.90	23.95	23.94	23.86	
100		135	136	23.92	23.90	23.77	23.79	23.74	
100		270	0	23.67	23.88	23.89	23.87	23.82	
100	DFT-s-OFDM 16QAM	1	1	23.54	23.55	23.62	23.85	23.88	25.2
100	DFT-s-OFDM 64QAM	1	1	23.58	23.64	23.73	23.88	23.90	25.2
100	DFT-s-OFDM 256QAM	1	1	22.03	22.44	22.55	22.71	22.74	24.2
100	CP-OFDM QPSK	1	1	23.68	23.73	23.89	23.87	23.90	25.2
100	CP-OFDM 16QAM	1	1	23.68	23.73	23.86	23.83	23.90	25.2
100	CP-OFDM 64QAM	1	1	23.08	23.22	23.36	23.52	23.53	24.2
100	CP-OFDM 256QAM	1	1	19.94	19.99	20.05	20.26	20.25	21.2
Channel				508200	513402	518598	523800	528996	25.2
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	23.64	23.69	23.64	23.77	23.85	25.2
Channel				507204	512904	518598	524298	529998	25.2
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	23.69	23.71	23.80	23.86	23.87	25.2
Channel				506202	512400	518598	524796	531000	25.2
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	23.64	23.73	23.79	23.84	23.72	25.2
Channel				505200	511902	518598	525798	531996	25.2
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	23.56	23.73	23.84	23.86	23.77	25.2
Channel				504204	511404	518598	525798	532998	25.2
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	23.73	23.88	23.90	23.93	23.80	25.2
Channel				503202	510900	518598	526296	534000	25.2
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	23.52	23.67	23.66	23.71	23.50	25.2
Channel				502200	510402	518598	526800	534996	25.2
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	23.62	23.72	23.93	23.77	23.55	25.2
Channel				501204	509904	518598	527298	535998	25.2
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	23.45	23.68	23.62	23.61	23.52	25.2

n41 (PC3)(ANT6)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	24.7
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	23.17	23.50	23.42	23.45	23.50	24.7
100		1	136	23.33	23.43	23.49	23.51	23.41	
100		1	271	23.57	23.37	23.54	23.28	23.34	
100		135	1	22.89	22.79	22.78	22.85	22.91	24.7
100		135	67	23.35	23.51	23.59	23.56	23.41	
100		135	136	22.95	22.83	22.87	22.80	22.81	
100		270	0	22.83	22.86	22.91	22.90	22.86	
100	DFT-s-OFDM QPSK	1	1	23.16	23.50	23.37	23.43	23.53	24.7
100		1	136	23.44	23.52	23.60	23.55	23.53	
100		1	271	23.56	23.36	23.59	23.34	22.70	
100		135	1	22.79	22.72	22.82	22.81	22.92	24.7
100		135	67	23.42	23.53	23.58	23.53	23.42	
100		135	136	22.85	22.78	22.79	22.77	22.75	
100		270	0	23.46	23.28	23.52	23.15	23.15	
100	DFT-s-OFDM 16QAM	1	1	21.82	21.86	22.19	22.24	22.35	23.7
100	DFT-s-OFDM 64QAM	1	1	20.66	20.83	20.74	20.73	20.55	21.7
100	DFT-s-OFDM 256QAM	1	1	19.55	19.84	19.69	19.76	19.55	21.7
100	CP-OFDM QPSK	1	1	21.52	22.01	21.90	21.52	21.82	22.7
100	CP-OFDM 16QAM	1	1	21.03	20.56	20.38	20.30	20.48	21.7
100	CP-OFDM 64QAM	1	1	20.19	20.82	20.70	20.83	21.01	21.7
100	CP-OFDM 256QAM	1	1	16.64	17.23	17.10	17.11	16.97	18.7
Channel				508200	513402	518598	523800	528996	24.7
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	23.00	23.29	23.40	23.52	23.49	24.7
Channel				507204	512904	518598	524298	529998	24.7
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	23.05	23.32	23.43	23.55	23.54	24.7
Channel				506202	512400	518598	524796	531000	24.7
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	22.97	23.21	23.44	23.48	23.45	24.7
Channel				505200	511902	518598	525798	531996	24.7
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	22.89	23.34	23.38	23.49	23.42	24.7
Channel				504204	511404	518598	525798	532998	24.7
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	23.24	23.43	23.56	23.57	23.57	24.7
Channel				503202	510900	518598	526296	534000	24.7
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	23.07	23.26	23.42	23.42	23.22	24.7
Channel				502200	510402	518598	526800	534996	24.7
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	23.21	23.35	23.52	23.49	23.24	24.7
Channel				501204	509904	518598	527298	535998	24.7
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	23.05	23.25	23.33	23.35	23.06	24.7

n48 (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				638000	639834	641666	643500	645332	20.5
Frequency (MHz)				3570	3597.51	3624.99	3652.5	3679.98	
40	DFT-s-OFDM PI/2 BPSK	1	1	18.94	18.99	19.29	19.39	19.29	20.5
40		1	53	19.02	19.40	19.22	19.37	19.33	
40		1	104	19.20	19.32	19.41	19.35	19.43	
40		50	1	18.57	18.69	18.78	18.90	18.85	20.5
40		50	25	19.10	19.51	19.30	19.54	19.46	
40		50	50	18.59	18.90	18.86	18.87	18.81	
40		100	0	18.53	18.90	18.72	18.93	18.89	
40	DFT-s-OFDM QPSK	1	1	19.28	19.37	19.47	19.42	19.46	20.5
40		1	53	19.09	19.40	19.32	19.41	19.45	
40		1	104	19.39	19.40	19.37	19.32	19.40	
40		50	1	18.80	18.76	18.87	18.80	18.74	20.5
40		50	25	19.22	19.23	19.33	19.31	19.33	
40		50	50	18.70	18.87	18.87	18.82	18.75	
40		100	0	19.24	19.23	19.32	19.31	19.31	
40	DFT-s-OFDM 16QAM	1	1	17.73	17.77	18.08	18.07	18.08	19.5
40	DFT-s-OFDM 64QAM	1	1	16.29	16.20	16.79	16.65	16.64	17.5
40	DFT-s-OFDM 256QAM	1	1	14.08	14.09	14.53	14.61	14.45	15.5
40	CP-OFDM QPSK	1	1	17.41	17.43	17.79	17.74	17.78	18.5
40	CP-OFDM 16QAM	1	1	16.81	16.89	17.18	17.13	17.17	18.5
40	CP-OFDM 64QAM	1	1	14.92	14.96	15.31	15.26	15.29	16.5
40	CP-OFDM 256QAM	1	1	12.14	12.16	12.54	12.45	12.50	13.5
Channel				637668	639668	641666	643666	645666	20.5
Frequency (MHz)				3565.02	3595.02	3624.99	3654.99	3684.99	
30	DFT-s-OFDM QPSK	1	1	18.97	19.05	19.41	19.36	19.35	20.5
Channel				637334	639500	641666	643832	646000	20.5
Frequency (MHz)				3560.01	3592.5	3624.99	3657.48	3690	
20	DFT-s-OFDM QPSK	1	1	18.42	18.97	19.30	19.25	19.29	20.5
Channel				637168	639418	641666	643916	646166	20.5
Frequency (MHz)				3557.52	3591.27	3624.99	3658.74	3692.49	
15	DFT-s-OFDM QPSK	1	1	18.47	19.05	19.43	19.38	19.23	20.5
Channel				637000	639334	641666	644000	646332	20.5
Frequency (MHz)				3555	3590.01	3624.99	3660	3694.98	
10	DFT-s-OFDM QPSK	1	1	18.40	18.90	19.44	19.39	19.30	20.5

n48 (PC3)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				638000	639834	641666	643500	645332	25.2
Frequency (MHz)				3570	3597.51	3624.99	3652.5	3679.98	
40	DFT-s-OFDM PI/2 BPSK	1	1	23.61	23.66	23.96	24.06	23.96	25.2
40		1	53	23.69	24.07	23.89	24.04	24.00	
40		1	104	23.87	23.99	24.08	24.02	24.10	
40		50	1	23.25	23.27	23.36	23.28	23.23	25.2
40		50	25	23.08	23.49	23.28	23.42	23.44	
40		50	50	23.27	23.28	23.24	23.25	23.29	
40		100	0	23.21	23.28	23.20	23.31	23.27	
40	DFT-s-OFDM QPSK	1	1	24.16	24.15	24.22	24.19	24.20	25.2
40		1	53	23.56	23.97	23.79	23.98	23.92	
40		1	104	23.86	23.87	24.04	23.99	24.07	
40		50	1	23.31	23.24	23.25	23.38	23.32	25.2
40		50	25	24.08	24.10	24.15	24.10	24.12	
40		50	50	23.28	23.35	23.35	23.30	23.28	
40		100	0	23.96	23.99	24.05	24.03	24.01	
40	DFT-s-OFDM 16QAM	1	1	22.40	22.44	22.75	22.74	22.75	23.2
40	DFT-s-OFDM 64QAM	1	1	20.96	21.50	21.46	21.32	21.31	22.2
40	DFT-s-OFDM 256QAM	1	1	18.75	18.76	19.20	19.28	19.12	20.2
40	CP-OFDM QPSK	1	1	22.08	22.10	22.46	22.41	22.45	23.2
40	CP-OFDM 16QAM	1	1	21.48	21.56	21.85	21.80	21.84	22.2
40	CP-OFDM 64QAM	1	1	19.59	19.63	19.98	19.93	19.96	21.2
40	CP-OFDM 256QAM	1	1	16.81	16.83	17.21	17.12	17.17	18.2
Channel				637668	639668	641666	643666	645666	25.2
Frequency (MHz)				3565.02	3595.02	3624.99	3654.99	3684.99	
30	DFT-s-OFDM QPSK	1	1	23.64	23.72	24.09	24.08	24.02	25.2
Channel				637334	639500	641666	643832	646000	25.2
Frequency (MHz)				3560.01	3592.5	3624.99	3657.48	3690	
20	DFT-s-OFDM QPSK	1	1	23.88	23.64	23.71	23.97	23.96	25.2
Channel				637168	639418	641666	643916	646166	25.2
Frequency (MHz)				3557.52	3591.27	3624.99	3658.74	3692.49	
15	DFT-s-OFDM QPSK	1	1	23.84	23.72	24.11	24.10	23.90	25.2
Channel				637000	639334	641666	644000	646332	25.2
Frequency (MHz)				3555	3590.01	3624.99	3660	3694.98	
10	DFT-s-OFDM QPSK	1	1	23.96	23.57	23.64	24.11	23.97	25.2

n48 (PC3)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				638000	639834	641666	643500	645332	24.6
Frequency (MHz)				3570	3597.51	3624.99	3652.5	3679.98	
40	DFT-s-OFDM PI/2 BPSK	1	1	21.94	22.45	23.09	23.29	23.38	24.6
40		1	53	22.38	23.05	23.08	23.39	23.49	
40		1	104	22.76	23.06	23.34	23.43	23.35	
40		50	1	22.66	22.64	22.78	22.83	22.96	24.6
40		50	25	22.75	23.17	23.21	23.31	23.21	
40		50	50	22.69	22.74	22.79	22.96	23.17	
40		100	0	22.65	22.69	22.78	22.91	23.05	
40	DFT-s-OFDM QPSK	1	1	23.33	23.41	23.53	23.37	23.35	24.6
40		1	53	22.84	22.94	22.96	23.30	23.42	
40		1	104	22.96	23.04	23.28	23.39	23.21	
40		50	1	22.87	22.86	22.91	22.91	22.84	24.6
40		50	25	23.21	23.21	23.27	23.25	23.22	
40		50	50	22.82	22.81	22.97	22.94	22.83	
40		100	0	23.22	23.12	23.20	23.11	23.24	
40	DFT-s-OFDM 16QAM	1	1	21.67	21.87	21.95	21.71	21.86	23.6
40	DFT-s-OFDM 64QAM	1	1	20.34	20.21	20.46	20.32	20.41	21.6
40	DFT-s-OFDM 256QAM	1	1	17.18	17.64	18.33	18.11	18.21	19.6
40	CP-OFDM QPSK	1	1	20.43	20.89	21.53	21.39	21.46	22.6
40	CP-OFDM 16QAM	1	1	20.42	20.65	20.98	20.92	21.02	22.6
40	CP-OFDM 64QAM	1	1	17.93	18.42	19.05	18.94	18.95	19.6
40	CP-OFDM 256QAM	1	1	15.83	16.90	16.28	16.14	16.25	17.6
Channel				637668	639668	641666	643666	645666	24.6
Frequency (MHz)				3565.02	3595.02	3624.99	3654.99	3684.99	
30	DFT-s-OFDM QPSK	1	1	23.15	22.57	23.13	23.36	23.48	24.6
Channel				637334	639500	641666	643832	646000	24.6
Frequency (MHz)				3560.01	3592.5	3624.99	3657.48	3690	
20	DFT-s-OFDM QPSK	1	1	23.11	22.50	23.15	23.28	23.46	24.6
Channel				637168	639418	641666	643916	646166	24.6
Frequency (MHz)				3557.52	3591.27	3624.99	3658.74	3692.49	
15	DFT-s-OFDM QPSK	1	1	23.12	23.10	23.20	23.10	23.20	24.6
Channel				637000	639334	641666	644000	646332	24.6
Frequency (MHz)				3555	3590.01	3624.99	3660	3694.98	
10	DFT-s-OFDM QPSK	1	1	23.22	23.20	23.22	23.25	23.10	24.6

n48 (PC3)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				638000	639834	641666	643500	645332	20.1
Frequency (MHz)				3570	3597.51	3624.99	3652.5	3679.98	
40	DFT-s-OFDM PI/2 BPSK	1	1	18.46	18.47	18.63	18.45	18.41	20.1
40		1	53	18.50	18.76	18.45	18.57	18.48	
40		1	104	18.63	18.50	18.61	18.55	18.59	
40		50	1	18.15	18.22	18.18	18.29	18.17	20.1
40		50	25	18.56	18.20	18.57	18.68	18.64	
40		50	50	18.20	18.21	18.22	18.16	18.18	
40		100	0	18.15	18.28	18.17	18.19	18.13	
40	DFT-s-OFDM QPSK	1	1	18.78	18.82	18.98	18.88	18.82	20.1
40		1	53	18.42	18.70	18.39	18.47	18.39	
40		1	104	18.60	18.44	18.56	18.48	18.53	
40		50	1	18.10	18.19	18.16	18.18	18.18	20.1
40		50	25	18.63	18.78	18.89	18.79	18.81	
40		50	50	18.17	18.12	18.19	18.16	18.14	
40		100	0	18.55	18.69	18.78	18.55	18.52	
40	DFT-s-OFDM 16QAM	1	1	17.28	17.19	17.43	17.27	17.20	18.1
40	DFT-s-OFDM 64QAM	1	1	15.83	15.82	16.04	15.82	15.79	17.1
40	DFT-s-OFDM 256QAM	1	1	13.68	13.64	13.86	13.77	13.69	14.1
40	CP-OFDM QPSK	1	1	16.94	16.90	17.11	16.92	16.94	18.1
40	CP-OFDM 16QAM	1	1	16.35	16.44	16.58	16.38	16.35	17.1
40	CP-OFDM 64QAM	1	1	15.22	15.10	15.20	15.20	15.10	16.1
40	CP-OFDM 256QAM	1	1	12.98	12.95	13.16	13.09	13.00	14.1
Channel				637668	639668	641666	643666	645666	20.1
Frequency (MHz)				3565.02	3595.02	3624.99	3654.99	3684.99	
30	DFT-s-OFDM QPSK	1	1	18.02	18.03	18.13	18.11	18.05	20.1
Channel				637334	639500	641666	643832	646000	20.1
Frequency (MHz)				3560.01	3592.5	3624.99	3657.48	3690	
20	DFT-s-OFDM QPSK	1	1	17.98	17.95	17.93	18.15	17.82	20.1
Channel				637168	639418	641666	643916	646166	20.1
Frequency (MHz)				3557.52	3591.27	3624.99	3658.74	3692.49	
15	DFT-s-OFDM QPSK	1	1	17.72	18.05	18.07	18.21	17.94	20.1
Channel				637000	639334	641666	644000	646332	20.1
Frequency (MHz)				3555	3590.01	3624.99	3660	3694.98	
10	DFT-s-OFDM QPSK	1	1	17.94	17.54	17.94	17.96	18.14	20.1

n66 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	23.2
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	22.29	22.39	22.35	23.2
40		1	108	22.23	22.22	22.04	
40		1	214	22.22	22.23	22.14	
40		108	1	21.75	21.75	21.65	23.2
40		108	54	22.33	22.27	22.15	
40		108	108	21.74	21.66	21.62	
40		216	0	21.73	21.78	21.68	
40	DFT-s-OFDM QPSK	1	1	22.40	22.35	22.38	23.2
40		1	108	22.20	22.16	21.94	
40		1	214	22.31	22.25	22.08	
40		108	1	21.45	21.28	21.42	23.2
40		108	54	22.33	22.31	22.32	
40		108	108	21.46	21.23	21.37	
40		216	0	22.30	22.22	22.19	
40	DFT-s-OFDM 16QAM	1	1	21.21	21.28	21.21	22.2
40	DFT-s-OFDM 64QAM	1	1	19.56	19.64	19.57	21.2
40	DFT-s-OFDM 256QAM	1	1	17.17	17.26	17.31	18.2
40	CP-OFDM QPSK	1	1	20.98	20.81	20.83	21.7
40	CP-OFDM 16QAM	1	1	20.24	20.27	20.14	21.2
40	CP-OFDM 64QAM	1	1	18.22	18.23	18.22	19.2
40	CP-OFDM 256QAM	1	1	15.34	15.31	15.22	16.2
Channel				345000	349000	353000	23.2
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	22.29	22.31	22.22	23.2
Channel				344000	349000	354000	23.2
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	22.23	22.18	22.14	23.2
Channel				343500	349000	354500	23.2
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	22.37	22.32	22.21	23.2
Channel				343000	349000	355000	23.2
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	22.32	22.36	22.15	23.2
Channel				342500	349000	355500	23.2
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	22.18	22.23	22.07	23.2

n66 (PC3)(ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	24.7
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	23.46	23.55	23.52	24.7
40		1	108	23.40	23.35	23.21	
40		1	214	23.39	23.51	23.31	
40		108	1	22.92	22.93	22.82	24.7
40		108	54	23.50	23.45	23.32	
40		108	108	22.91	22.91	22.79	
40		216	0	22.90	22.94	22.85	
40	DFT-s-OFDM QPSK	1	1	23.59	23.58	23.55	24.7
40		1	108	23.37	23.33	23.11	
40		1	214	23.48	23.46	23.25	
40		108	1	22.82	22.79	22.79	24.7
40		108	54	23.52	23.51	23.49	
40		108	108	22.83	22.77	22.74	
40		216	0	23.47	23.42	23.38	
40	DFT-s-OFDM 16QAM	1	1	22.38	22.48	22.38	23.7
40	DFT-s-OFDM 64QAM	1	1	20.73	20.86	20.74	21.7
40	DFT-s-OFDM 256QAM	1	1	18.34	18.50	18.48	19.7
40	CP-OFDM QPSK	1	1	22.15	22.07	22.00	22.7
40	CP-OFDM 16QAM	1	1	21.41	21.49	21.31	21.7
40	CP-OFDM 64QAM	1	1	19.39	19.50	19.39	20.7
40	CP-OFDM 256QAM	1	1	16.51	16.55	16.39	17.7
Channel				345000	349000	353000	24.7
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	23.46	23.48	23.39	24.7
Channel				344000	349000	354000	24.7
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	23.40	23.35	23.31	24.7
Channel				343500	349000	354500	24.7
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	23.54	23.49	23.38	24.7
Channel				343000	349000	355000	24.7
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	23.49	23.53	23.32	24.7
Channel				342500	349000	355500	24.7
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	23.35	23.40	23.24	24.7

n66 (PC3)(ANT5)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	25.2
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	23.96	24.05	24.02	25.2
40		1	108	23.90	23.82	23.71	
40		1	214	23.89	23.85	23.81	
40		108	1	23.42	23.40	23.32	25.2
40		108	54	24.00	23.96	23.82	
40		108	108	23.41	23.31	23.29	
40		216	0	23.40	23.46	23.35	
40	DFT-s-OFDM QPSK	1	1	24.07	24.02	24.05	25.2
40		1	108	23.87	23.83	23.61	
40		1	214	23.98	23.79	23.75	
40		108	1	23.32	23.31	23.29	25.2
40		108	54	24.00	23.94	23.99	
40		108	108	23.33	23.33	23.24	
40		216	0	23.92	23.88	23.87	
40	DFT-s-OFDM 16QAM	1	1	22.98	22.91	22.98	24.2
40	DFT-s-OFDM 64QAM	1	1	21.23	21.18	21.24	22.2
40	DFT-s-OFDM 256QAM	1	1	18.84	18.93	18.98	20.2
40	CP-OFDM QPSK	1	1	22.65	22.65	22.50	23.2
40	CP-OFDM 16QAM	1	1	21.91	21.81	21.81	22.2
40	CP-OFDM 64QAM	1	1	19.89	19.90	19.89	21.2
40	CP-OFDM 256QAM	1	1	17.01	17.01	16.89	18.2
Channel				345000	349000	353000	25.2
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	23.96	23.98	23.89	25.2
Channel				344000	349000	354000	25.2
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	23.90	23.85	23.81	25.2
Channel				343500	349000	354500	25.2
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	24.04	23.99	23.88	25.2
Channel				343000	349000	355000	25.2
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	23.99	24.03	23.82	25.2
Channel				342500	349000	355500	25.2
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	23.85	23.90	23.74	25.2

n66 (PC3)(ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	24
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	23.06	23.12	23.12	24
40		1	108	23.00	22.99	22.81	
40		1	214	22.99	23.14	22.91	
40		108	1	22.52	22.57	22.42	23
40		108	54	23.10	23.11	22.92	
40		108	108	22.51	22.56	22.39	
40		216	0	22.50	22.58	22.45	
40	DFT-s-OFDM QPSK	1	1	23.15	23.12	23.10	24
40		1	108	22.97	22.97	22.71	
40		1	214	23.08	23.09	22.85	
40		108	1	22.22	22.15	22.19	24
40		108	54	23.12	23.11	23.09	
40		108	108	22.23	22.01	22.14	
40		216	0	23.09	23.05	23.02	
40	DFT-s-OFDM 16QAM	1	1	21.98	22.10	21.98	23
40	DFT-s-OFDM 64QAM	1	1	20.33	20.49	20.34	21
40	DFT-s-OFDM 256QAM	1	1	17.94	18.13	18.08	19
40	CP-OFDM QPSK	1	1	21.75	21.81	21.60	23
40	CP-OFDM 16QAM	1	1	21.01	21.24	20.91	22
40	CP-OFDM 64QAM	1	1	18.99	19.15	18.99	20
40	CP-OFDM 256QAM	1	1	16.21	16.28	15.99	17
Channel				345000	349000	353000	24
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	23.06	23.08	22.99	24
Channel				344000	349000	354000	24
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	23.00	22.95	22.91	24
Channel				343500	349000	354500	24
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	23.14	23.09	22.98	24
Channel				343000	349000	355000	24
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	23.09	23.13	22.92	24
Channel				342500	349000	355500	24
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	22.95	23.00	22.84	24

n71 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				134600	136100	137600	25.4
Frequency (MHz)				673	680.5	688	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.82	23.73	23.87	25.4
20		1	53	23.92	23.81	23.76	
20		1	104	23.87	23.72	23.72	
20		50	1	23.48	23.60	23.61	25.4
20		50	25	24.09	24.18	24.15	
20		50	50	23.60	23.60	23.48	
20		100	0	23.64	23.71	23.67	
20	DFT-s-OFDM QPSK	1	1	23.99	24.07	24.16	25.4
20		1	53	24.18	24.22	24.20	
20		1	104	24.13	24.08	24.07	
20		50	1	23.66	23.71	23.75	25.4
20		50	25	24.17	24.19	24.12	
20		50	50	23.67	23.74	23.63	
20		100	0	24.00	24.07	23.99	
20	DFT-s-OFDM 16QAM	1	1	22.91	22.96	23.06	24.4
20	DFT-s-OFDM 64QAM	1	1	21.31	21.34	21.43	22.4
20	DFT-s-OFDM 256QAM	1	1	18.94	19.07	19.24	20.4
20	CP-OFDM QPSK	1	1	22.59	22.60	22.71	23.4
20	CP-OFDM 16QAM	1	1	22.01	22.03	22.12	22.4
20	CP-OFDM 64QAM	1	1	19.90	20.08	20.16	21.4
20	CP-OFDM 256QAM	1	1	17.05	17.08	17.20	18.4
Channel				134100	136100	138100	25.4
Frequency (MHz)				670.5	680.5	690.5	
15	DFT-s-OFDM QPSK	1	1	23.04	24.01	23.97	25.4
Channel				133600	136100	138600	25.4
Frequency (MHz)				668	680.5	693	
10	DFT-s-OFDM QPSK	1	1	23.21	23.93	23.91	25.4
Channel				133100	136100	139100	25.4
Frequency (MHz)				665.5	680.5	695.5	
5	DFT-s-OFDM QPSK	1	1	23.82	23.93	23.89	25.4

n71 (PC3)(ANT1)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				134600	136100	137600	25.2
Frequency (MHz)				673	680.5	688	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.36	23.39	23.48	25.2
20		1	53	23.41	23.49	23.41	
20		1	104	23.46	23.38	23.39	
20		50	1	23.25	23.36	23.41	25.2
20		50	25	23.84	24.05	23.93	
20		50	50	23.35	23.36	23.25	
20		100	0	23.37	23.43	23.44	
20	DFT-s-OFDM QPSK	1	1	22.96	23.96	24.03	25.2
20		1	53	23.96	24.13	23.95	
20		1	104	24.05	23.95	23.92	
20		50	1	23.28	23.40	23.48	25.2
20		50	25	23.94	24.10	24.06	
20		50	50	23.40	23.44	23.35	
20		100	0	23.90	24.00	23.93	
20	DFT-s-OFDM 16QAM	1	1	22.86	22.92	23.10	24.2
20	DFT-s-OFDM 64QAM	1	1	21.18	21.17	21.29	22.2
20	DFT-s-OFDM 256QAM	1	1	18.88	18.97	19.11	21.2
20	CP-OFDM QPSK	1	1	22.23	22.54	22.65	23.5
20	CP-OFDM 16QAM	1	1	21.68	21.89	22.01	22.5
20	CP-OFDM 64QAM	1	1	19.76	19.95	20.10	21
20	CP-OFDM 256QAM	1	1	16.88	17.01	17.13	18
Channel				134100	136100	138100	25.2
Frequency (MHz)				670.5	680.5	690.5	
15	DFT-s-OFDM QPSK	1	1	23.07	24.00	24.06	25.2
Channel				133600	136100	138600	25.2
Frequency (MHz)				668	680.5	693	
10	DFT-s-OFDM QPSK	1	1	23.31	23.94	23.96	25.2
Channel				133100	136100	139100	25.2
Frequency (MHz)				665.5	680.5	695.5	
5	DFT-s-OFDM QPSK	1	1	23.78	23.92	23.90	25.2

n77(3450-3550MHz) (PC2)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			20.89			21.9
100		1	136			20.95			
100		1	271			20.70			
100		135	1			20.70			
100	DFT-s-OFDM QPSK	135	67			20.96			21.9
100		135	136			20.09			
100		270	0			20.66			
100		1	1			20.98			
100	DFT-s-OFDM 16QAM	1	136			20.89			21.9
100		1	271			20.67			
100		135	1			20.36			
100		135	67			20.88			
100	DFT-s-OFDM 64QAM	135	136			19.99			21.9
100		270	0			20.83			
100		1	1			20.42			
100		1	1			18.98			
100	DFT-s-OFDM 256QAM	1	1			16.81			17.9
100	CP-OFDM QPSK	1	1			20.17			21.9
100	CP-OFDM 16QAM	1	1			19.60			20.9
100	CP-OFDM 64QAM	1	1			17.63			18.9
100	CP-OFDM 256QAM	1	1			14.78			15.9
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	20.80	20.79	20.77	20.72	20.79	21.9
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	20.82	20.76	20.76	20.67	20.70	21.9
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	20.81	20.73	20.78	20.68	20.61	21.9
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	20.63	20.60	20.49	20.50	20.47	21.9
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	20.85	20.83	20.76	20.69	20.63	21.9
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	20.76	20.74	20.53	20.45	20.22	21.9
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	20.75	20.74	20.64	20.50	20.24	21.9
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	20.60	20.50	20.45	20.41	20.21	21.9
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	20.54	20.57	20.51	20.09	20.18	21.9
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	20.51	20.54	20.56	20.03	20.19	21.9

n77(3450-3550MHz) (PC2)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			26.2
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			25.16			26.2
100		1	136			25.10			
100		1	271			24.76			
100		135	1			24.79			26.2
100		135	67			25.15			
100		135	136			24.39			
100	DFT-s-OFDM QPSK	270	0			24.64			26.2
100		1	1			25.19			
100		1	136			25.06			
100		1	271			24.73			26.2
100		135	1			24.44			
100		135	67			25.10			
100		135	136			24.49			26.2
100		270	0			25.01			
100	DFT-s-OFDM 16QAM	1	1			23.96			25.2
100	DFT-s-OFDM 64QAM	1	1			23.09			24.2
100	DFT-s-OFDM 256QAM	1	1			21.09			22.2
100	CP-OFDM QPSK	1	1			24.12			25.2
100	CP-OFDM 16QAM	1	1			23.48			24.2
100	CP-OFDM 64QAM	1	1			21.51			22.2
100	CP-OFDM 256QAM	1	1			18.75			19.2
Channel				633000	633168	633334	633500	633666	26.2
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	25.11	25.10	25.08	25.03	25.10	26.2
Channel				632668	633000	633334	633666	634000	26.2
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	25.13	25.07	25.07	24.98	25.01	26.2
Channel				632334	632834	633334	633832	634332	26.2
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	25.12	25.04	25.09	24.92	24.92	26.2
Channel				632000	632668	633334	634000	634666	26.2
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	24.94	24.91	24.80	24.81	24.78	26.2
Channel				631668	632500	633334	634166	635000	26.2
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	25.16	25.14	25.07	25.00	24.94	26.2
Channel				631334	632334	633334	634332	635332	26.2
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	25.07	25.05	24.84	24.76	24.73	26.2
Channel				631000	632168	633334	634500	635666	26.2
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	25.06	25.05	24.95	24.81	24.75	26.2
Channel				630668	632000	633334	634666	636000	26.2
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	24.91	24.81	24.76	24.72	24.72	26.2
Channel				630500	631916	633334	634750	636166	26.2
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	24.85	24.88	24.82	24.70	24.79	26.2
Channel				630334	631834	633334	634834	636332	26.2
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	25.12	25.15	25.17	24.64	24.80	26.2

n77(3450-3550MHz) (PC2)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			24.86			26
100		1	136			24.25			
100		1	271			24.35			
100		135	1			24.30			26
100		135	67			24.55			
100		135	136			24.26			
100		270	0			24.52			
100	DFT-s-OFDM QPSK	1	1			24.91			26
100		1	136			24.10			
100		1	271			24.30			
100		135	1			24.30			26
100		135	67			24.86			
100		135	136			24.08			
100		270	0			24.62			
100	DFT-s-OFDM 16QAM	1	1			23.71			25
100	DFT-s-OFDM 64QAM	1	1			22.27			23
100	DFT-s-OFDM 256QAM	1	1			20.05			21
100	CP-OFDM QPSK	1	1			23.44			25
100	CP-OFDM 16QAM	1	1			22.92			24
100	CP-OFDM 64QAM	1	1			20.88			23
100	CP-OFDM 256QAM	1	1			18.08			19
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	24.71	24.70	24.78	24.63	24.70	26
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	24.73	24.67	24.67	24.58	24.61	26
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	24.72	24.64	24.69	24.59	24.52	26
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	24.54	24.51	24.40	24.41	24.38	26
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	24.76	24.74	24.67	24.60	24.54	26
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	24.67	24.65	24.44	24.36	24.33	26
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	24.66	24.65	24.55	24.41	24.35	26
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	24.51	24.41	24.36	24.32	24.32	26
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	24.45	24.48	24.42	24.20	24.29	26
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	24.42	24.45	24.47	24.14	24.10	26

n77(3450-3550MHz) (PC2)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			20.80			21.8
100		1	136			20.57			
100		1	271			20.37			
100		135	1			20.11			21.8
100		135	67			20.57			
100		135	136			20.09			
100		270	0			20.08			
100	DFT-s-OFDM QPSK	1	1			20.81			21.8
100		1	136			20.51			
100		1	271			20.37			
100		135	1			19.99			21.8
100		135	67			20.77			
100		135	136			20.15			
100		270	0			20.69			
100	DFT-s-OFDM 16QAM	1	1			19.69			20.8
100	DFT-s-OFDM 64QAM	1	1			18.27			19.8
100	DFT-s-OFDM 256QAM	1	1			16.05			16.8
100	CP-OFDM QPSK	1	1			19.44			25
100	CP-OFDM 16QAM	1	1			18.76			24
100	CP-OFDM 64QAM	1	1			16.82			23
100	CP-OFDM 256QAM	1	1			14.04			19
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	20.64	20.63	20.61	20.56	20.63	21.8
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	20.66	20.60	20.60	20.51	20.54	21.8
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	20.65	20.57	20.62	20.52	20.45	21.8
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	20.47	20.44	20.33	20.34	20.31	21.8
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	20.69	20.67	20.75	20.53	20.47	21.8
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	20.60	20.58	20.37	20.29	20.06	21.8
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	20.59	20.58	20.48	20.34	20.08	21.8
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	20.44	20.34	20.29	20.25	20.05	21.8
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	20.38	20.41	20.35	20.08	20.02	21.8
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	20.35	20.38	20.40	20.02	20.03	21.8

n77(3450-3550MHz) (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			20.9
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			19.62			20.9
100		1	136			19.61			
100		1	271			19.67			
100		135	1			19.67			20.9
100		135	67			19.59			
100		135	136			19.69			
100	DFT-s-OFDM QPSK	270	0			19.70			20.9
100		1	1			19.72			
100		1	136			19.61			
100		1	271			19.66			20.9
100		135	1			19.55			
100		135	67			19.66			
100		135	136			19.54			20.9
100		270	0			19.64			
100	DFT-s-OFDM 16QAM	1	1			19.53			20.9
100	DFT-s-OFDM 64QAM	1	1			17.78			18.9
100	DFT-s-OFDM 256QAM	1	1			15.96			16.9
100	CP-OFDM QPSK	1	1			19.20			20.9
100	CP-OFDM 16QAM	1	1			18.66			19.9
100	CP-OFDM 64QAM	1	1			16.94			17.9
100	CP-OFDM 256QAM	1	1			14.06			15.9
Channel				633000	633168	633334	633500	633666	20.9
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	19.50	19.54	19.56	19.51	19.64	20.9
Channel				632668	633000	633334	633666	634000	20.9
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	19.70	19.63	19.66	19.68	19.57	20.9
Channel				632334	632834	633334	633832	634332	20.9
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	19.62	19.59	19.65	19.66	19.64	20.9
Channel				632000	632668	633334	634000	634666	20.9
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	19.55	19.61	19.61	19.61	19.66	20.9
Channel				631668	632500	633334	634166	635000	20.9
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	19.69	19.69	19.61	19.68	19.61	20.9
Channel				631334	632334	633334	634332	635332	20.9
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	19.62	19.63	19.66	19.62	19.66	20.9
Channel				631000	632168	633334	634500	635666	20.9
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	19.63	19.59	19.65	19.62	19.66	20.9
Channel				630668	632000	633334	634666	636000	20.9
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	19.50	19.59	19.63	19.64	19.68	20.9
Channel				630500	631916	633334	634750	636166	20.9
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	19.48	19.59	19.65	19.68	19.67	20.9
Channel				630334	631834	633334	634834	636332	20.9
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	19.46	19.56	19.57	19.66	19.64	20.9

n77(3450-3550MHz) (PC3)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			25.2
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			24.12			25.2
100		1	136			24.11			
100		1	271			24.17			
100		135	1			24.17			25.2
100		135	67			24.09			
100		135	136			24.19			
100	DFT-s-OFDM QPSK	270	0			24.20			25.2
100		1	1			24.22			
100		1	136			24.11			
100		1	271			24.16			25.2
100		135	1			24.05			
100		135	67			24.16			
100		135	136			24.04			25.2
100		270	0			24.14			
100	DFT-s-OFDM 16QAM	1	1			24.03			25.2
100	DFT-s-OFDM 64QAM	1	1			22.28			23.2
100	DFT-s-OFDM 256QAM	1	1			20.46			21.2
100	CP-OFDM QPSK	1	1			23.70			25.2
100	CP-OFDM 16QAM	1	1			23.16			24.2
100	CP-OFDM 64QAM	1	1			21.44			22.2
100	CP-OFDM 256QAM	1	1			18.56			19.2
Channel				633000	633168	633334	633500	633666	25.2
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	24.00	24.04	24.06	24.01	24.14	25.2
Channel				632668	633000	633334	633666	634000	25.2
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	24.20	24.13	24.16	24.18	24.07	25.2
Channel				632334	632834	633334	633832	634332	25.2
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	24.12	24.09	24.15	24.16	24.14	25.2
Channel				632000	632668	633334	634000	634666	25.2
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	24.05	24.11	24.11	24.11	24.16	25.2
Channel				631668	632500	633334	634166	635000	25.2
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	24.19	24.19	24.11	24.18	24.11	25.2
Channel				631334	632334	633334	634332	635332	25.2
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	24.12	24.13	24.16	24.12	24.16	25.2
Channel				631000	632168	633334	634500	635666	25.2
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	24.13	24.09	24.15	24.12	24.16	25.2
Channel				630668	632000	633334	634666	636000	25.2
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	24.00	24.09	24.13	24.14	24.18	25.2
Channel				630500	631916	633334	634750	636166	25.2
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	23.98	24.09	24.15	24.18	24.17	25.2
Channel				630334	631834	633334	634834	636332	25.2
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	23.96	24.06	24.07	24.16	24.14	25.2

n77(3450-3550MHz) (PC3)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			25
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			23.97			25
100		1	136			23.96			
100		1	271			24.02			
100		135	1			24.02			25
100		135	67			23.94			
100		135	136			24.04			
100	DFT-s-OFDM QPSK	270	0			24.05			25
100		1	1			24.07			
100		1	136			23.96			
100		1	271			24.01			25
100		135	1			23.90			
100		135	67			24.01			
100	DFT-s-OFDM 16QAM	135	136			23.89			25
100		270	0			23.99			
100		1	1			23.88			
100	DFT-s-OFDM 64QAM	1	1			22.13			23
100	DFT-s-OFDM 256QAM	1	1			20.31			21
100	CP-OFDM QPSK	1	1			23.55			25
100	CP-OFDM 16QAM	1	1			23.01			24
100	CP-OFDM 64QAM	1	1			21.29			22
100	CP-OFDM 256QAM	1	1			18.41			19
Channel				633000	633168	633334	633500	633666	25
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	23.85	23.89	23.91	23.86	23.99	25
Channel				632668	633000	633334	633666	634000	25
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	24.05	23.98	24.01	24.03	23.92	25
Channel				632334	632834	633334	633832	634332	25
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	23.97	23.94	24.00	24.01	23.99	25
Channel				632000	632668	633334	634000	634666	25
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	23.90	23.96	23.96	23.96	24.01	25
Channel				631668	632500	633334	634166	635000	25
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	24.04	24.04	23.96	24.03	23.96	25
Channel				631334	632334	633334	634332	635332	25
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	23.97	23.98	24.01	23.97	24.01	25
Channel				631000	632168	633334	634500	635666	25
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	23.98	23.94	24.00	23.97	24.01	25
Channel				630668	632000	633334	634666	636000	25
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	23.85	23.94	23.98	23.99	24.03	25
Channel				630500	631916	633334	634750	636166	25
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	23.83	23.94	24.00	24.03	24.02	25
Channel				630334	631834	633334	634834	636332	25
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	23.81	23.91	23.92	24.01	23.99	25

n77(3450-3550MHz) (PC3)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			20.8
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			19.51			20.8
100		1	136			19.50			
100		1	271			19.56			
100		135	1			19.56			20.8
100		135	67			19.48			
100		135	136			19.58			
100	DFT-s-OFDM QPSK	270	0			19.59			20.8
100		1	1			19.61			
100		1	136			19.50			
100		1	271			19.55			20.8
100		135	1			19.44			
100		135	67			19.55			
100		135	136			19.43			20.8
100		270	0			19.53			
100	DFT-s-OFDM 16QAM	1	1			19.42			20.8
100	DFT-s-OFDM 64QAM	1	1			17.67			18.8
100	DFT-s-OFDM 256QAM	1	1			15.85			16.8
100	CP-OFDM QPSK	1	1			19.09			20.8
100	CP-OFDM 16QAM	1	1			18.55			19.8
100	CP-OFDM 64QAM	1	1			16.83			17.8
100	CP-OFDM 256QAM	1	1			13.95			15.8
Channel				633000	633168	633334	633500	633666	20.8
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	19.39	19.43	19.45	19.40	19.53	20.8
Channel				632668	633000	633334	633666	634000	20.8
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	19.59	19.52	19.55	19.57	19.46	20.8
Channel				632334	632834	633334	633832	634332	20.8
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	19.51	19.48	19.54	19.55	19.53	20.8
Channel				632000	632668	633334	634000	634666	20.8
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	19.44	19.50	19.50	19.50	19.55	20.8
Channel				631668	632500	633334	634166	635000	20.8
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	19.58	19.58	19.50	19.57	19.50	20.8
Channel				631334	632334	633334	634332	635332	20.8
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	19.51	19.52	19.55	19.51	19.55	20.8
Channel				631000	632168	633334	634500	635666	20.8
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	19.52	19.48	19.54	19.51	19.55	20.8
Channel				630668	632000	633334	634666	636000	20.8
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	19.39	19.48	19.52	19.53	19.57	20.8
Channel				630500	631916	633334	634750	636166	20.8
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	19.37	19.48	19.54	19.57	19.56	20.8
Channel				630334	631834	633334	634834	636332	20.8
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	19.35	19.45	19.46	19.55	19.53	20.8

n77(3700-3980MHz) (PC2)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	21.9
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	20.65	21.03	21.06	21.07	20.71	21.9
100		1	136	20.81	20.97	21.08	21.08	20.33	
100		1	271	20.84	21.03	21.00	20.86	20.95	
100		135	1	20.53	20.36	20.42	20.32	19.93	21.9
100		135	67	20.81	20.93	21.07	21.07	20.38	
100		135	136	20.19	20.43	20.35	20.34	20.13	
100		270	0	20.35	20.44	20.72	20.64	20.02	
100	DFT-s-OFDM QPSK	1	1	20.95	21.04	21.12	21.07	20.94	21.9
100		1	136	20.82	20.91	21.04	21.00	20.97	
100		1	271	20.84	21.05	21.05	20.73	20.96	
100		135	1	19.96	19.97	20.02	19.91	19.99	21.9
100		135	67	20.91	20.97	21.06	21.00	20.99	
100		135	136	20.05	20.16	20.03	20.01	19.94	
100		270	0	20.76	20.88	21.04	21.03	21.00	
100	DFT-s-OFDM 16QAM	1	1	19.66	19.83	19.87	19.99	19.70	20.9
100	DFT-s-OFDM 64QAM	1	1	18.17	18.55	18.56	18.66	18.41	19.9
100	DFT-s-OFDM 256QAM	1	1	16.06	16.27	16.43	16.41	16.22	16.9
100	CP-OFDM QPSK	1	1	19.42	19.60	19.61	19.73	19.34	25
100	CP-OFDM 16QAM	1	1	18.61	19.09	19.13	19.25	18.87	24
100	CP-OFDM 64QAM	1	1	16.65	17.12	17.15	17.32	16.87	23
100	CP-OFDM 256QAM	1	1	14.00	14.34	14.34	14.49	14.24	19
Channel				633000	633168	633334	633500	633666	21.9
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	20.95	20.94	20.92	20.87	20.94	21.9
Channel				632668	633000	633334	633666	634000	21.9
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	20.97	20.91	20.91	20.82	20.85	21.9
Channel				632334	632834	633334	633832	634332	21.9
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	20.96	20.88	20.93	20.83	20.76	21.9
Channel				632000	632668	633334	634000	634666	21.9
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	20.78	20.75	20.64	20.65	20.62	21.9
Channel				631668	632500	633334	634166	635000	21.9
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	21.00	20.98	21.06	20.84	20.78	21.9
Channel				631334	632334	633334	634332	635332	21.9
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	20.91	20.89	20.68	20.60	20.37	21.9
Channel				631000	632168	633334	634500	635666	21.9
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	20.90	20.89	20.79	20.65	20.39	21.9
Channel				630668	632000	633334	634666	636000	21.9
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	20.75	20.65	20.60	20.56	20.36	21.9
Channel				630500	631916	633334	634750	636166	21.9
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	20.69	20.72	20.66	20.39	20.33	21.9
Channel				630334	631834	633334	634834	636332	21.9
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	20.66	20.69	20.71	20.33	20.34	21.9

n77(3700-3980MHz) (PC2)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	26.2
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	24.65	24.83	24.89	24.99	24.71	26.2
100		1	136	24.81	24.79	24.93	24.64	24.33	
100		1	271	24.84	24.97	24.73	24.46	24.95	
100		135	1	24.53	24.28	24.36	24.25	24.23	26.2
100		135	67	24.81	24.77	24.92	24.66	24.38	
100		135	136	24.39	24.43	24.30	24.27	24.33	
100	DFT-s-OFDM QPSK	270	0	24.35	24.29	24.45	24.24	24.22	26.2
100		1	1	24.85	24.88	25.06	25.00	24.94	
100		1	136	24.82	24.84	24.87	24.68	24.47	
100		1	271	24.84	24.96	24.70	24.56	24.96	26.2
100		135	1	24.26	24.35	24.45	24.25	24.39	
100		135	67	24.91	24.86	24.93	24.87	24.89	
100	DFT-s-OFDM 16QAM	1	1	23.66	23.73	23.83	23.99	23.70	25.2
100		1	1	22.17	22.39	22.47	22.60	22.41	23.2
100	DFT-s-OFDM 64QAM	1	1	19.96	20.16	20.25	20.37	20.12	21.2
100	DFT-s-OFDM 256QAM	1	1	23.52	23.58	23.62	23.68	23.44	24.2
100	CP-OFDM QPSK	1	1	22.71	23.01	23.07	23.21	22.97	24.2
100	CP-OFDM 16QAM	1	1	20.75	21.00	21.07	21.22	20.97	22.2
100	CP-OFDM 64QAM	1	1	18.00	18.21	18.31	18.42	18.34	19.2
Channel				649666	652834	656000	659166	662332	26.2
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	24.69	24.77	24.85	24.97	24.67	26.2
Channel				649334	652668	656000	659332	662666	26.2
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	24.76	24.78	24.95	24.82	24.58	26.2
Channel				649000	652500	656000	659500	663000	26.2
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	24.72	24.76	24.93	24.75	24.50	26.2
Channel				648668	652334	656000	659666	663332	26.2
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	24.56	24.70	24.72	24.50	24.24	26.2
Channel				648334	652168	656000	659832	663666	26.2
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	24.80	24.83	24.93	24.86	24.15	26.2
Channel				648000	652000	656000	660000	664000	26.2
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	24.68	24.64	24.73	24.68	24.26	26.2
Channel				647668	651834	656000	660166	664332	26.2
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	24.74	24.73	24.88	24.70	24.41	26.2
Channel				647334	651668	656000	660332	664666	26.2
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	24.62	24.60	24.73	24.41	24.56	26.2
Channel				647168	651584	656000	660416	664832	26.2
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	24.66	24.65	24.81	24.41	24.62	26.2
Channel				647000	651500	656000	660500	665000	26.2
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	24.68	24.67	24.83	24.46	24.83	26.2

n77(3700-3980MHz) (PC2)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	26
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	24.55	24.58	24.74	24.88	24.61	26
100		1	136	24.71	24.66	24.79	24.72	24.23	
100		1	271	24.74	24.81	24.82	24.51	24.85	
100		135	1	24.43	24.15	24.20	24.13	24.03	26
100		135	67	24.71	24.64	24.76	24.75	24.48	
100		135	136	24.09	24.18	24.01	24.01	24.23	
100		270	0	24.25	24.11	24.37	24.20	24.12	
100	DFT-s-OFDM QPSK	1	1	24.76	24.75	24.89	24.88	24.74	26
100		1	136	24.72	24.60	24.73	24.67	24.37	
100		1	271	24.74	24.87	24.78	24.51	24.86	
100		135	1	24.37	24.24	24.32	24.19	24.30	26
100		135	67	24.72	24.69	24.79	24.75	24.70	
100		135	136	24.26	24.34	24.19	24.21	24.15	
100		270	0	24.59	24.49	24.71	24.66	24.51	
100	DFT-s-OFDM 16QAM	1	1	23.46	23.47	23.56	23.69	23.50	25
100	DFT-s-OFDM 64QAM	1	1	21.97	22.09	22.25	22.30	22.21	23
100	DFT-s-OFDM 256QAM	1	1	19.76	19.94	19.98	20.15	19.92	21
100	CP-OFDM QPSK	1	1	23.32	23.20	23.29	23.42	23.24	24
100	CP-OFDM 16QAM	1	1	22.51	22.61	22.82	22.94	22.77	24
100	CP-OFDM 64QAM	1	1	20.55	20.67	20.82	20.97	20.77	22
100	CP-OFDM 256QAM	1	1	17.80	17.94	18.02	18.10	18.14	19
Channel				633000	633168	633334	633500	633666	26
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	24.66	24.65	24.73	24.58	24.65	26
Channel				632668	633000	633334	633666	634000	26
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	24.68	24.62	24.62	24.53	24.56	26
Channel				632334	632834	633334	633832	634332	26
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	24.67	24.59	24.64	24.54	24.47	26
Channel				632000	632668	633334	634000	634666	26
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	24.49	24.46	24.35	24.36	24.33	26
Channel				631668	632500	633334	634166	635000	26
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	24.71	24.69	24.62	24.55	24.49	26
Channel				631334	632334	633334	634332	635332	26
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	24.62	24.60	24.39	24.31	24.28	26
Channel				631000	632168	633334	634500	635666	26
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	24.61	24.60	24.50	24.36	24.30	26
Channel				630668	632000	633334	634666	636000	26
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	24.46	24.36	24.31	24.27	24.27	26
Channel				630500	631916	633334	634750	636166	26
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	24.40	24.43	24.37	24.15	24.24	26
Channel				630334	631834	633334	634834	636332	26
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	24.37	24.40	24.42	24.09	24.05	26

n77(3700-3980MHz) (PC2)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	21.8
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	20.35	20.59	20.67	20.72	20.41	21.8
100		1	136	20.51	20.56	20.64	20.64	20.13	
100		1	271	20.54	20.72	20.71	20.44	20.65	
100		135	1	20.23	20.13	20.20	20.07	20.03	21.8
100		135	67	20.51	20.72	20.74	20.75	20.48	
100		135	136	19.89	20.26	20.12	20.12	20.03	
100	DFT-s-OFDM QPSK	270	0	20.05	20.26	20.50	20.43	19.92	21.8
100		1	1	20.75	20.78	20.83	20.75	20.74	
100		1	136	20.52	20.67	20.81	20.76	20.67	
100		1	271	20.54	20.73	20.73	20.68	20.66	21.8
100		135	1	19.86	19.85	19.88	19.81	19.89	
100		135	67	20.61	20.64	20.76	20.75	20.69	
100	DFT-s-OFDM 16QAM	135	136	19.95	19.92	19.99	19.81	19.84	21.8
100		270	0	20.60	20.64	20.66	20.61	20.57	
100		1	1	19.56	19.60	19.62	19.78	19.60	20.8
100	DFT-s-OFDM 64QAM	1	1	18.07	18.31	18.30	18.43	18.31	19.8
100	DFT-s-OFDM 256QAM	1	1	15.96	16.15	16.16	16.24	16.12	16.8
100	CP-OFDM QPSK	1	1	19.32	19.37	19.43	19.49	19.24	20.8
100	CP-OFDM 16QAM	1	1	18.51	18.85	18.79	19.03	18.77	19.8
100	CP-OFDM 64QAM	1	1	16.55	16.83	16.86	17.08	16.77	18.8
100	CP-OFDM 256QAM	1	1	13.90	14.11	14.13	14.23	14.14	14.8
Channel				633000	633168	633334	633500	633666	21.8
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	20.95	20.94	20.92	20.87	20.94	21.8
Channel				632668	633000	633334	633666	634000	21.8
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	20.97	20.91	20.91	20.82	20.85	21.8
Channel				632334	632834	633334	633832	634332	21.8
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	20.96	20.88	20.93	20.83	20.76	21.8
Channel				632000	632668	633334	634000	634666	21.8
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	20.78	20.75	20.64	20.65	20.62	21.8
Channel				631668	632500	633334	634166	635000	21.8
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	21.00	20.98	21.06	20.84	20.78	21.8
Channel				631334	632334	633334	634332	635332	21.8
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	20.91	20.89	20.68	20.60	20.37	21.8
Channel				631000	632168	633334	634500	635666	21.8
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	20.90	20.89	20.79	20.65	20.39	21.8
Channel				630668	632000	633334	634666	636000	21.8
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	20.75	20.65	20.60	20.56	20.36	21.8
Channel				630500	631916	633334	634750	636166	21.8
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	20.69	20.72	20.66	20.39	20.33	21.8
Channel				630334	631834	633334	634834	636332	21.8
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	20.66	20.69	20.71	20.33	20.34	21.8

n77(3700-3980MHz) (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	20.9
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	19.57	19.56	19.65	19.54	19.70	20.9
100		1	136	19.52	19.53	19.55	19.53	19.60	
100		1	271	19.51	19.70	19.61	19.56	19.60	
100		135	1	19.46	19.46	19.51	19.52	19.62	20.9
100		135	67	19.46	19.54	19.50	19.40	19.60	
100		135	136	19.51	19.64	19.55	19.61	19.56	
100	DFT-s-OFDM QPSK	270	0	19.49	19.64	19.60	19.63	19.64	20.9
100		1	1	19.56	19.62	19.74	19.59	19.69	
100		1	136	19.44	19.45	19.43	19.46	19.53	
100		1	271	19.66	19.60	19.70	19.62	19.63	20.9
100		135	1	19.45	19.42	19.48	19.53	19.59	
100		135	67	19.60	19.63	19.66	19.61	19.51	
100	DFT-s-OFDM 16QAM	135	136	19.46	19.44	19.44	19.46	19.53	20.9
100		270	0	19.55	19.59	19.56	19.61	19.66	
100	DFT-s-OFDM 64QAM	1	1	19.33	19.43	19.49	19.43	19.54	20.9
100	DFT-s-OFDM 256QAM	1	1	17.67	17.80	17.89	17.80	17.92	18.9
100	CP-OFDM QPSK	1	1	15.74	15.96	16.01	15.93	16.06	16.9
100	CP-OFDM 16QAM	1	1	19.11	19.00	18.31	19.16	18.34	20.9
100	CP-OFDM 64QAM	1	1	18.41	18.53	18.64	18.58	18.70	19.9
100	CP-OFDM 256QAM	1	1	16.87	17.01	17.06	17.06	17.17	17.9
100	CP-OFDM 256QAM	1	1	13.82	14.03	14.09	14.06	14.16	15.9
Channel				649666	652834	656000	659166	662332	20.9
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	19.51	19.60	19.46	19.38	19.65	20.9
Channel				649334	652668	656000	659332	662666	20.9
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	19.43	19.44	19.43	19.47	19.60	20.9
Channel				649000	652500	656000	659500	663000	20.9
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	19.33	19.42	19.45	19.52	19.53	20.9
Channel				648668	652334	656000	659666	663332	20.9
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	19.26	19.22	19.30	19.41	19.46	20.9
Channel				648334	652168	656000	659832	663666	20.9
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	19.36	19.49	19.51	19.56	19.53	20.9
Channel				648000	652000	656000	660000	664000	20.9
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	19.37	19.37	19.35	19.43	19.33	20.9
Channel				647668	651834	656000	660166	664332	20.9
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	19.47	19.48	19.46	19.60	19.42	20.9
Channel				647334	651668	656000	660332	664666	20.9
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	19.38	19.29	19.22	19.31	19.27	20.9
Channel				647168	651584	656000	660416	664832	20.9
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	19.32	19.43	19.31	19.33	19.32	20.9
Channel				647000	651500	656000	660500	665000	20.9
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	19.28	19.40	19.28	19.43	19.25	20.9

n77(3700-3980MHz) (PC3)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	25.2
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	24.07	24.06	24.15	24.04	24.20	25.2
100		1	136	24.02	24.03	24.05	24.03	24.10	
100		1	271	24.01	24.20	24.11	24.06	24.10	
100		135	1	23.96	23.96	24.01	24.02	24.12	25.2
100		135	67	23.96	24.04	24.00	23.90	24.10	
100		135	136	24.01	24.14	24.05	24.11	24.06	
100	DFT-s-OFDM QPSK	270	0	23.99	24.14	24.10	24.13	24.14	25.2
100		1	1	24.06	24.12	24.24	24.09	24.19	
100		1	136	23.94	23.95	23.93	23.96	24.03	
100		1	271	24.16	24.10	24.20	24.12	24.13	25.2
100		135	1	23.95	23.92	23.98	24.03	24.09	
100		135	67	24.10	24.13	24.16	24.11	24.01	
100	DFT-s-OFDM 16QAM	1	1	23.83	23.93	23.99	23.93	24.04	25
100		1	1	22.17	22.30	22.39	22.30	22.42	23
100	DFT-s-OFDM 64QAM	1	1	20.24	20.46	20.51	20.43	20.56	21.5
100	DFT-s-OFDM 256QAM	1	1	20.24	20.46	20.51	20.43	20.56	21.5
100	CP-OFDM QPSK	1	1	23.61	23.50	22.81	23.66	22.84	24.5
100	CP-OFDM 16QAM	1	1	22.91	23.03	23.14	23.08	23.20	24
100	CP-OFDM 64QAM	1	1	21.37	21.51	21.56	21.56	21.67	22.5
100	CP-OFDM 256QAM	1	1	18.32	18.53	18.59	18.56	18.66	19.5
Channel				649666	652834	656000	659166	662332	25.2
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	24.01	24.10	23.96	23.88	24.15	25.2
Channel				649334	652668	656000	659332	662666	25.2
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	23.93	23.94	23.93	23.97	24.10	25.2
Channel				649000	652500	656000	659500	663000	25.2
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	23.83	23.92	23.95	24.02	24.03	25.2
Channel				648668	652334	656000	659666	663332	25.2
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	23.76	23.72	23.80	23.91	23.96	25.2
Channel				648334	652168	656000	659832	663666	25.2
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	23.86	23.99	24.01	24.06	24.03	25.2
Channel				648000	652000	656000	660000	664000	25.2
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	23.87	23.87	23.85	23.93	23.83	25.2
Channel				647668	651834	656000	660166	664332	25.2
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	23.97	23.98	23.96	24.10	23.92	25.2
Channel				647334	651668	656000	660332	664666	25.2
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	23.88	23.79	23.72	23.81	23.77	25.2
Channel				647168	651584	656000	660416	664832	25.2
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	23.82	23.93	23.81	23.83	23.82	25.2
Channel				647000	651500	656000	660500	665000	25.2
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	23.78	23.90	23.78	23.93	23.75	25.2

n77(3700-3980MHz) (PC3)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	25
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	23.87	23.86	23.95	23.84	24.00	25
100		1	136	23.82	23.83	23.85	23.83	23.90	
100		1	271	23.81	24.00	23.91	23.86	23.90	
100		135	1	23.76	23.76	23.81	23.82	23.92	25
100		135	67	23.76	23.84	23.80	23.70	23.90	
100		135	136	23.81	23.94	23.85	23.91	23.86	
100	DFT-s-OFDM QPSK	270	0	23.79	23.94	23.90	23.93	23.94	25
100		1	1	23.86	23.92	24.04	23.89	23.99	
100		1	136	23.74	23.75	23.73	23.76	23.83	
100		1	271	23.96	23.90	24.00	23.92	23.93	25
100		135	1	23.75	23.72	23.78	23.83	23.89	
100		135	67	23.90	23.93	23.96	23.91	23.81	
100	DFT-s-OFDM 16QAM	1	1	23.63	23.73	23.79	23.73	23.84	25
100		1	1	21.97	22.10	22.19	22.10	22.22	23
100	DFT-s-OFDM 256QAM	1	1	20.04	20.26	20.31	20.23	20.36	21
100	CP-OFDM QPSK	1	1	23.41	23.30	22.61	23.46	22.64	25
100	CP-OFDM 16QAM	1	1	22.71	22.83	22.94	22.88	23.00	24
100	CP-OFDM 64QAM	1	1	21.17	21.31	21.36	21.36	21.47	22
100	CP-OFDM 256QAM	1	1	18.12	18.33	18.39	18.36	18.46	19
Channel				649666	652834	656000	659166	662332	25
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	23.81	23.90	23.76	23.68	23.95	25
Channel				649334	652668	656000	659332	662666	25
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	23.73	23.74	23.73	23.77	23.90	25
Channel				649000	652500	656000	659500	663000	25
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	23.63	23.72	23.75	23.82	23.83	25
Channel				648668	652334	656000	659666	663332	25
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	23.56	23.52	23.60	23.71	23.76	25
Channel				648334	652168	656000	659832	663666	25
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	23.66	23.79	23.81	23.86	23.83	25
Channel				648000	652000	656000	660000	664000	25
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	23.67	23.67	23.65	23.73	23.63	25
Channel				647668	651834	656000	660166	664332	25
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	23.77	23.78	23.76	23.90	23.72	25
Channel				647334	651668	656000	660332	664666	25
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	23.68	23.59	23.52	23.61	23.57	25
Channel				647168	651584	656000	660416	664832	25
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	23.62	23.73	23.61	23.63	23.62	25
Channel				647000	651500	656000	660500	665000	25
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	23.58	23.70	23.58	23.73	23.55	25

n77(3700-3980MHz) (PC3)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	20.8
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	19.48	19.47	19.56	19.45	19.61	20.8
100		1	136	19.43	19.44	19.46	19.44	19.51	
100		1	271	19.42	19.61	19.52	19.47	19.51	
100		135	1	19.37	19.37	19.42	19.43	19.53	20.8
100		135	67	19.37	19.45	19.41	19.31	19.51	
100		135	136	19.42	19.55	19.46	19.52	19.47	
100	DFT-s-OFDM QPSK	270	0	19.40	19.55	19.51	19.54	19.55	20.8
100		1	1	19.47	19.53	19.65	19.50	19.60	
100		1	136	19.35	19.36	19.34	19.37	19.44	
100		1	271	19.57	19.51	19.61	19.53	19.54	20.8
100		135	1	19.36	19.33	19.39	19.44	19.50	
100		135	67	19.51	19.54	19.57	19.52	19.42	
100	DFT-s-OFDM 16QAM	135	136	19.37	19.35	19.35	19.37	19.44	20.8
100		270	0	19.46	19.50	19.47	19.52	19.57	
100	DFT-s-OFDM 64QAM	1	1	19.24	19.34	19.40	19.34	19.45	20.8
100	DFT-s-OFDM 256QAM	1	1	17.58	17.71	17.80	17.71	17.83	18.8
100	CP-OFDM QPSK	1	1	15.65	15.87	15.92	15.84	15.97	16.8
100	CP-OFDM 16QAM	1	1	19.02	18.91	18.22	19.07	18.25	20.8
100	CP-OFDM 64QAM	1	1	18.32	18.44	18.55	18.49	18.61	19.8
100	CP-OFDM 256QAM	1	1	16.78	16.92	16.97	16.97	17.08	17.8
100	CP-OFDM 256QAM	1	1	13.73	13.94	14.00	13.97	14.07	15.8
Channel				649666	652834	656000	659166	662332	20.8
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	19.42	19.51	19.37	19.29	19.56	20.8
Channel				649334	652668	656000	659332	662666	20.8
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	19.34	19.35	19.34	19.38	19.51	20.8
Channel				649000	652500	656000	659500	663000	20.8
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	19.24	19.33	19.36	19.43	19.44	20.8
Channel				648668	652334	656000	659666	663332	20.8
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	19.17	19.13	19.21	19.32	19.37	20.8
Channel				648334	652168	656000	659832	663666	20.8
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	19.27	19.40	19.42	19.47	19.44	20.8
Channel				648000	652000	656000	660000	664000	20.8
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	19.28	19.28	19.26	19.34	19.24	20.8
Channel				647668	651834	656000	660166	664332	20.8
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	19.38	19.39	19.37	19.51	19.33	20.8
Channel				647334	651668	656000	660332	664666	20.8
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	19.29	19.20	19.13	19.22	19.18	20.8
Channel				647168	651584	656000	660416	664832	20.8
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	19.23	19.34	19.22	19.24	19.23	20.8
Channel				647000	651500	656000	660500	665000	20.8
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	19.19	19.31	19.19	19.34	19.16	20.8

n78(3450-3550MHz) (PC2)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			21.88			22.9
100		1	136			21.82			
100		1	271			21.79			
100		135	1			21.77			22.9
100		135	67			21.74			
100		135	136			21.21			
100		270	0			21.78			
100	DFT-s-OFDM QPSK	1	1			21.90			22.9
100		1	136			21.88			
100		1	271			21.68			
100		135	1			21.46			22.9
100		135	67			21.87			
100		135	136			20.93			
100		270	0			21.76			
100	DFT-s-OFDM 16QAM	1	1			21.39			21.9
100	DFT-s-OFDM 64QAM	1	1			20.19			20.9
100	DFT-s-OFDM 256QAM	1	1			17.91			18.9
100	CP-OFDM QPSK	1	1			21.31			22.9
100	CP-OFDM 16QAM	1	1			20.71			21.9
100	CP-OFDM 64QAM	1	1			18.77			20.9
100	CP-OFDM 256QAM	1	1			16.08			16.9
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	21.79	21.76	21.73	21.75	21.78	22.9
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	21.80	21.69	21.77	21.81	21.67	22.9
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	21.76	21.74	21.75	21.64	21.66	22.9
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	21.65	21.59	21.58	21.45	21.42	22.9
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	21.72	21.62	21.58	21.73	21.60	22.9
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	21.69	20.65	21.42	21.46	21.20	22.9
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	21.75	21.66	21.59	21.51	21.43	22.9
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	21.66	21.53	21.54	21.53	21.45	22.9
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	21.68	21.64	21.51	21.51	21.39	22.9
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	21.70	21.69	21.57	21.36	21.60	22.9

n78(3450-3550MHz) (PC2)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			27.2
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			26.20			27.2
100		1	136			26.18			
100		1	271			25.81			
100		135	1			25.82			27.2
100		135	67			26.18			
100		135	136			25.21			
100	DFT-s-OFDM QPSK	270	0			25.71			27.2
100		1	1			26.25			
100		1	136			26.10			
100		1	271			25.79			27.2
100		135	1			25.31			
100		135	67			26.12			
100	DFT-s-OFDM 16QAM	135	136			25.22			27.2
100		270	0			25.20			
100		1	1			25.40			26.2
100	DFT-s-OFDM 64QAM	1	1			23.64			24.5
100	DFT-s-OFDM 256QAM	1	1			21.76			22.5
100	CP-OFDM QPSK	1	1			25.16			26.2
100	CP-OFDM 16QAM	1	1			24.57			25.2
100	CP-OFDM 64QAM	1	1			22.66			23.2
100	CP-OFDM 256QAM	1	1			19.85			20.2
Channel				633000	633166	633334	633500	633666	27.2
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	26.24	26.11	26.18	26.20	26.23	27.2
Channel				632668	633000	633334	633666	634000	27.2
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	26.20	26.14	26.22	26.20	26.12	27.2
Channel				632334	632834	633334	633832	634332	27.2
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	26.21	26.19	26.20	26.09	26.11	27.2
Channel				632000	632666	633334	634000	634666	27.2
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	26.10	26.04	26.03	25.90	25.87	27.2
Channel				631668	632500	633334	634166	635000	27.2
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	26.07	26.07	26.03	26.18	26.05	27.2
Channel				631334	636672	633334	634334	635332	27.2
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	26.14	25.10	25.87	25.91	25.65	27.2
Channel				631000	632166	633334	634500	635666	27.2
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	26.20	26.11	26.04	25.96	25.48	27.2
Channel				630668	632000	633334	634668	636000	27.2
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	26.11	25.98	25.99	25.58	25.50	27.2
Channel				630500	631916	633334	634750	636166	27.2
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	26.13	26.09	25.96	25.56	25.44	27.2
Channel				630334	631834	633334	634834	636332	27.2
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	26.15	26.14	26.02	25.81	25.65	27.2

n78(3450-3550MHz) (PC2)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			25.63			26.8
100		1	136			24.96			
100		1	271			25.09			
100		135	1			24.84			26.8
100		135	67			24.82			
100		135	136			24.89			
100		270	0			25.04			
100	DFT-s-OFDM QPSK	1	1			25.78			26.8
100		1	136			24.96			
100		1	271			25.35			
100		135	1			25.37			26.8
100		135	67			25.74			
100		135	136			24.82			
100		270	0			25.59			
100	DFT-s-OFDM 16QAM	1	1			24.46			25.8
100	DFT-s-OFDM 64QAM	1	1			23.08			23.8
100	DFT-s-OFDM 256QAM	1	1			20.84			21.8
100	CP-OFDM QPSK	1	1			24.21			25.8
100	CP-OFDM 16QAM	1	1			23.58			24.8
100	CP-OFDM 64QAM	1	1			21.64			22.8
100	CP-OFDM 256QAM	1	1			18.96			19.8
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	25.67	25.74	25.61	25.63	25.66	26.8
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	25.68	25.57	25.65	25.69	25.55	26.8
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	25.64	25.62	25.63	25.52	25.54	26.8
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	25.53	25.47	25.46	25.33	25.30	26.8
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	25.70	25.70	25.46	25.61	25.48	26.8
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	25.57	24.53	25.30	25.34	25.08	26.8
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	25.63	25.54	25.47	25.39	24.91	26.8
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	25.54	25.41	25.42	25.01	24.93	26.8
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	25.56	25.52	25.39	24.99	24.87	26.8
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	25.58	25.57	25.45	25.24	25.08	26.8

n78(3450-3550MHz) (PC2)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			21.24			22.3
100		1	136			21.07			
100		1	271			21.14			
100		135	1			20.93			22.3
100		135	67			21.25			
100		135	136			20.46			
100		270	0			20.86			
100	DFT-s-OFDM QPSK	1	1			21.30			22.3
100		1	136			21.00			
100		1	271			21.04			
100		135	1			20.70			22.3
100		135	67			21.25			
100		135	136			20.48			
100		270	0			21.19			
100	DFT-s-OFDM 16QAM	1	1			20.51			21.3
100	DFT-s-OFDM 64QAM	1	1			19.09			20.3
100	DFT-s-OFDM 256QAM	1	1			16.89			17.3
100	CP-OFDM QPSK	1	1			20.24			21.3
100	CP-OFDM 16QAM	1	1			19.63			20.3
100	CP-OFDM 64QAM	1	1			17.73			18.3
100	CP-OFDM 256QAM	1	1			15.01			16.3
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	21.19	21.16	21.23	21.15	21.18	22.3
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	21.20	21.09	21.17	21.21	21.07	22.3
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	21.16	21.14	21.15	21.04	21.06	22.3
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	21.05	20.99	20.98	20.85	20.82	22.3
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	21.12	21.02	20.98	21.13	21.00	22.3
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	21.09	20.05	20.82	20.86	20.60	22.3
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	21.15	21.06	20.99	20.91	20.83	22.3
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	21.06	20.93	20.94	20.93	20.85	22.3
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	21.08	21.04	20.91	20.91	20.79	22.3
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	21.10	21.09	20.97	20.76	21.00	22.3

n78(3450-3550MHz) (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			20.9
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			20.00			20.9
100		1	136			19.93			
100		1	271			19.97			
100		135	1			19.95			20.9
100		135	67			20.06			
100		135	136			16.15			
100	DFT-s-OFDM QPSK	270	0			20.02			20.9
100		1	1			20.08			
100		1	136			19.88			
100		1	271			19.98			20.9
100		135	1			19.92			
100		135	67			20.01			
100	DFT-s-OFDM 16QAM	135	136			19.91			20.9
100		270	0			19.94			
100		1	1			19.94			
100	DFT-s-OFDM 64QAM	1	1			19.19			19.9
100	DFT-s-OFDM 256QAM	1	1			17.28			17.9
100	CP-OFDM QPSK	1	1			20.04			20.9
100	CP-OFDM 16QAM	1	1			18.88			19.9
100	CP-OFDM 64QAM	1	1			19.92			20.9
100	CP-OFDM 256QAM	1	1			15.46			16.9
Channel				633000	633166	633334	633500	633666	20.9
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	19.90	19.88	19.97	20.02	20.03	20.9
Channel				632668	633000	633334	633666	634000	20.9
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	19.89	19.86	19.90	19.97	19.96	20.9
Channel				632334	632834	633334	633832	634332	20.9
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	19.80	19.99	19.95	19.88	20.01	20.9
Channel				632000	632666	633334	634000	634666	20.9
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	19.80	19.82	19.82	19.79	19.87	20.9
Channel				631668	632500	633334	634166	635000	20.9
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	19.76	19.82	19.96	19.97	19.94	20.9
Channel				631334	636672	633334	634334	635332	20.9
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	19.77	19.76	19.81	19.81	19.98	20.9
Channel				631000	632166	633334	634500	635666	20.9
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	19.81	19.81	20.05	19.97	19.96	20.9
Channel				630668	632000	633334	634668	636000	20.9
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	19.71	19.82	19.85	19.95	19.88	20.9
Channel				630500	631916	633334	634750	636166	20.9
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	19.61	19.70	19.88	19.98	20.04	20.9
Channel				630334	631834	633334	634834	636332	20.9
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	19.60	19.75	19.95	20.00	20.01	20.9

n78(3450-3550MHz) (PC3)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			25.2
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			24.15			25.2
100		1	136			24.08			
100		1	271			24.12			
100		135	1			24.10			25.2
100		135	67			24.21			
100		135	136			20.30			
100	DFT-s-OFDM QPSK	270	0			24.17			25.2
100		1	1			24.23			
100		1	136			24.03			
100		1	271			24.13			25.2
100		135	1			24.07			
100		135	67			24.16			
100		135	136			24.06			25.2
100		270	0			24.09			
100	DFT-s-OFDM 16QAM	1	1			24.09			25.2
100	DFT-s-OFDM 64QAM	1	1			23.34			24.2
100	DFT-s-OFDM 256QAM	1	1			21.43			22.2
100	CP-OFDM QPSK	1	1			24.19			25.2
100	CP-OFDM 16QAM	1	1			23.03			24.2
100	CP-OFDM 64QAM	1	1			24.07			25.2
100	CP-OFDM 256QAM	1	1			19.61			20.2
Channel				633000	633166	633334	633500	633666	25.2
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	24.05	24.03	24.12	24.17	24.18	25.2
Channel				632668	633000	633334	633666	634000	25.2
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	24.04	24.01	24.05	24.12	24.11	25.2
Channel				632334	632834	633334	633832	634332	25.2
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	23.95	24.14	24.10	24.16	24.16	25.2
Channel				632000	632666	633334	634000	634666	25.2
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	23.95	23.97	23.97	23.94	24.02	25.2
Channel				631668	632500	633334	634166	635000	25.2
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	23.91	23.97	24.11	24.12	24.09	25.2
Channel				631334	636672	633334	634334	635332	25.2
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	23.92	23.91	23.96	23.96	24.13	25.2
Channel				631000	632166	633334	634500	635666	25.2
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	23.96	23.96	24.20	24.12	24.11	25.2
Channel				630668	632000	633334	634668	636000	25.2
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	23.86	23.97	24.00	24.10	24.03	25.2
Channel				630500	631916	633334	634750	636166	25.2
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	23.76	23.85	24.03	24.13	24.19	25.2
Channel				630334	631834	633334	634834	636332	25.2
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	

n78(3450-3550MHz) (PC3)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			24.8
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			23.70			24.8
100		1	136			23.63			
100		1	271			23.67			
100		135	1			23.65			24.8
100		135	67			23.76			
100		135	136			19.85			
100	DFT-s-OFDM QPSK	270	0			23.72			24.8
100		1	1			23.78			
100		1	136			23.58			
100		1	271			23.68			24.8
100		135	1			23.62			
100		135	67			23.71			
100	DFT-s-OFDM 16QAM	135	136			23.61			24.8
100		270	0			23.64			
100		1	1			23.64			
100	DFT-s-OFDM 64QAM	1	1			22.89			23.8
100	DFT-s-OFDM 256QAM	1	1			20.98			21.8
100	CP-OFDM QPSK	1	1			23.74			24.8
100	CP-OFDM 16QAM	1	1			22.58			23.8
100	CP-OFDM 64QAM	1	1			23.62			24.8
100	CP-OFDM 256QAM	1	1			19.16			19.8
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	23.60	23.58	23.67	23.72	23.73	24.8
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	23.59	23.56	23.60	23.67	23.66	24.8
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	23.50	23.69	23.65	23.58	23.71	24.8
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	23.50	23.52	23.52	23.49	23.57	24.8
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	23.46	23.52	23.66	23.67	23.64	24.8
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	23.47	23.46	23.51	23.51	23.68	24.8
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	23.51	23.51	23.75	23.67	23.66	24.8
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	23.41	23.52	23.55	23.65	23.58	24.8
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	23.31	23.40	23.58	23.68	23.74	24.8
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	23.30	23.45	23.65	23.70	23.71	24.8

n78(3450-3550MHz) (PC3)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			20.3
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			19.22			20.3
100		1	136			19.15			
100		1	271			19.19			
100		135	1			19.17			20.3
100		135	67			19.28			
100		135	136			15.37			
100	DFT-s-OFDM QPSK	270	0			19.24			20.3
100		1	1			19.30			
100		1	136			19.10			
100		1	271			19.20			20.3
100		135	1			19.14			
100		135	67			19.23			
100		135	136			19.13			20.3
100		270	0			19.16			
100	DFT-s-OFDM 16QAM	1	1			19.16			20.3
100	DFT-s-OFDM 64QAM	1	1			18.41			19.3
100	DFT-s-OFDM 256QAM	1	1			16.50			17.3
100	CP-OFDM QPSK	1	1			19.26			20.3
100	CP-OFDM 16QAM	1	1			18.10			19.3
100	CP-OFDM 64QAM	1	1			19.14			19.3
100	CP-OFDM 256QAM	1	1			14.68			16.3
Channel				633000	633166	633334	633500	633666	20.3
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	19.10	19.08	19.17	19.22	19.23	20.3
Channel				632668	633000	633334	633666	634000	20.3
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	19.09	19.06	19.10	19.17	19.16	20.3
Channel				632334	632834	633334	633832	634332	20.3
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	19.00	19.19	19.15	19.08	19.21	20.3
Channel				632000	632666	633334	634000	634666	20.3
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	19.00	19.02	19.02	18.99	19.07	20.3
Channel				631668	632500	633334	634166	635000	20.3
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	18.96	19.02	19.16	19.17	19.14	20.3
Channel				631334	636672	633334	634334	635332	20.3
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	18.97	18.96	19.01	19.01	19.18	20.3
Channel				631000	632166	633334	634500	635666	20.3
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	19.01	19.01	19.25	19.17	19.16	20.3
Channel				630668	632000	633334	634668	636000	20.3
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	18.91	19.02	19.05	19.15	19.08	20.3
Channel				630500	631916	633334	634750	636166	20.3
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	18.81	18.90	19.08	19.18	19.24	20.3
Channel				630334	631834	633334	634834	636332	20.3
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	18.80	18.95	19.15	19.20	19.21	20.3

n78(3700-3800MHz) (PC2)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			21.52			22.9
100		1	136			21.61			
100		1	271			21.68			
100		135	1			21.39			22.9
100		135	67			21.61			
100		135	136			21.06			
100		270	0			21.24			
100	DFT-s-OFDM QPSK	1	1			21.74			22.9
100		1	136			21.55			
100		1	271			21.61			
100		135	1			21.18			22.9
100		135	67			21.65			
100		135	136			21.08			
100		270	0			21.60			
100	DFT-s-OFDM 16QAM	1	1			20.92			21.9
100	DFT-s-OFDM 64QAM	1	1			19.53			20.9
100	DFT-s-OFDM 256QAM	1	1			17.29			17.9
100	CP-OFDM QPSK	1	1			20.66			21.9
100	CP-OFDM 16QAM	1	1			20.11			20.9
100	CP-OFDM 64QAM	1	1			18.07			18.9
100	CP-OFDM 256QAM	1	1			15.31			15.9
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	21.59	21.56	21.63	21.55	21.58	22.9
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	21.60	21.49	21.57	21.61	21.47	22.9
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	21.56	21.54	21.55	21.44	21.46	22.9
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	21.45	21.39	21.38	21.25	21.22	22.9
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	21.52	21.42	21.38	21.53	21.40	22.9
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	21.49	20.45	21.22	21.26	21.00	22.9
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	21.55	21.46	21.39	21.31	21.23	22.9
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	21.46	21.33	21.34	21.33	21.25	22.9
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	21.48	21.44	21.31	21.31	21.19	22.9
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	21.50	21.49	21.37	21.16	21.40	22.9

n78(3700-3800MHz) (PC2)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			27.2
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			25.92			27.2
100		1	136			25.93			
100		1	271			25.99			
100		135	1			25.65			27.2
100		135	67			25.95			
100		135	136			25.33			
100	DFT-s-OFDM QPSK	270	0			25.50			27.2
100		1	1			26.08			
100		1	136			25.96			
100		1	271			26.01			27.2
100		135	1			25.47			
100		135	67			25.92			
100		135	136			25.31			27.2
100		270	0			25.88			
100	DFT-s-OFDM 16QAM	1	1			24.69			25.2
100	DFT-s-OFDM 64QAM	1	1			23.29			24.2
100	DFT-s-OFDM 256QAM	1	1			21.05			22.2
100	CP-OFDM QPSK	1	1			24.48			25.2
100	CP-OFDM 16QAM	1	1			23.91			24.2
100	CP-OFDM 64QAM	1	1			22.52			23.2
100	CP-OFDM 256QAM	1	1			19.13			20.2
Channel				649668	649834	650000	650166	650332	27.2
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	25.81	25.90	25.89	25.95	25.98	27.2
Channel				649334	649666	650000	650334	650666	27.2
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	25.90	25.85	25.97	26.03	26.04	27.2
Channel				649000	649500	650000	650500	651000	27.2
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	25.85	25.96	26.04	26.00	26.01	27.2
Channel				648668	649334	650000	650666	651332	27.2
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	25.68	25.85	25.89	25.95	25.85	27.2
Channel				648334	649166	650000	650834	651666	27.2
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	25.90	26.01	26.08	26.08	26.01	27.2
Channel				648000	649000	650000	651000	652000	27.2
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	25.77	26.03	26.00	25.88	25.87	27.2
Channel				647668	648834	650000	651166	652332	27.2
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	25.80	26.03	26.07	25.88	25.83	27.2
Channel				647334	648666	650000	651334	652666	27.2
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	25.68	26.04	25.93	25.78	25.62	27.2
Channel				647168	648584	650000	651416	652832	27.2
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	25.76	26.04	26.02	25.86	25.72	27.2
Channel				647000	648500	650000	651500	653000	27.2
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	25.79	26.00	26.00	25.85	25.87	27.2

n78(3700-3800MHz) (PC2)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			25.56			26.8
100		1	136			25.15			
100		1	271			25.36			
100		135	1			25.41			26.8
100		135	67			25.26			
100		135	136			25.27			
100		270	0			25.33			
100	DFT-s-OFDM QPSK	1	1			25.71			26.8
100		1	136			25.19			
100		1	271			25.33			
100		135	1			24.91			26.8
100		135	67			25.67			
100		135	136			24.75			
100		270	0			25.54			
100	DFT-s-OFDM 16QAM	1	1			23.48			24.8
100	DFT-s-OFDM 64QAM	1	1			22.12			23.8
100	DFT-s-OFDM 256QAM	1	1			19.77			20.8
100	CP-OFDM QPSK	1	1			23.26			24.8
100	CP-OFDM 16QAM	1	1			22.62			23.8
100	CP-OFDM 64QAM	1	1			20.68			21.8
100	CP-OFDM 256QAM	1	1			17.91			18.8
Channel				649668	649834	650000	650166	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	25.39	25.48	25.47	25.53	25.56	26.8
Channel				649334	649666	650000	650334	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	25.48	25.43	25.55	25.61	25.66	26.8
Channel				649000	649500	650000	650500	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	25.23	25.34	25.42	25.57	25.59	26.8
Channel				648668	649334	650000	650666	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	25.06	25.23	25.27	25.33	25.23	26.8
Channel				648334	649166	650000	650834	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	25.28	25.49	25.56	25.46	25.39	26.8
Channel				648000	649000	650000	651000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	25.15	25.41	25.48	25.46	25.45	26.8
Channel				647668	648834	650000	651166	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	25.18	25.41	25.45	25.46	25.41	26.8
Channel				647334	648666	650000	651334	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	25.06	25.42	25.31	25.36	25.20	26.8
Channel				647168	648584	650000	651416	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	25.14	25.42	25.40	25.44	25.30	26.8
Channel				647000	648500	650000	651500	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	25.17	25.48	25.38	25.43	25.45	26.8

n78(3700-3800MHz) (PC2)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			21.09			22.3
100		1	136			21.09			
100		1	271			21.11			
100		135	1			20.88			22.3
100		135	67			21.10			
100		135	136			20.63			
100		270	0			20.78			
100	DFT-s-OFDM QPSK	1	1			21.15			22.3
100		1	136			21.12			
100		1	271			21.13			
100		135	1			20.37			22.3
100		135	67			21.08			
100		135	136			20.13			
100		270	0			21.03			
100	DFT-s-OFDM 16QAM	1	1			20.47			21.3
100	DFT-s-OFDM 64QAM	1	1			19.43			20.3
100	DFT-s-OFDM 256QAM	1	1			17.14			18.3
100	CP-OFDM QPSK	1	1			20.56			21.3
100	CP-OFDM 16QAM	1	1			19.56			20.3
100	CP-OFDM 64QAM	1	1			17.70			18.3
100	CP-OFDM 256QAM	1	1			15.22			16.3
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	20.99	20.96	21.03	20.95	20.98	22.3
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	21.00	20.89	20.97	21.01	20.87	22.3
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	20.96	20.94	20.95	20.84	20.86	22.3
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	20.85	20.79	20.78	20.65	20.62	22.3
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	20.92	20.82	20.78	20.93	20.80	22.3
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	20.89	19.85	20.62	20.66	20.40	22.3
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	20.95	20.86	20.79	20.71	20.63	22.3
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	20.86	20.73	20.74	20.73	20.65	22.3
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	20.88	20.84	20.71	20.71	20.59	22.3
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	20.90	20.89	20.77	20.56	20.80	22.3

n78(3700-3800MHz) (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			Tune-up limit (dBm)
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			19.90			20.9
100		1	136			19.86			
100		1	271			19.85			
100		135	1			19.91			20.9
100		135	67			19.84			
100		135	136			19.84			
100	DFT-s-OFDM QPSK	270	0			19.87			20.9
100		1	1			20.01			
100		1	136			19.85			
100		1	271			19.87			20.9
100		135	1			19.89			
100		135	67			19.78			
100	DFT-s-OFDM 16QAM	135	136			18.87			20.9
100		270	0			19.87			
100		1	1			19.71			20.9
100	DFT-s-OFDM 64QAM	1	1			19.02			19.9
100	DFT-s-OFDM 256QAM	1	1			17.08			17.9
100	CP-OFDM QPSK	1	1			18.95			19.9
100	CP-OFDM 16QAM	1	1			19.86			20.9
100	CP-OFDM 64QAM	1	1			18.20			18.9
100	CP-OFDM 256QAM	1	1			15.47			16.9
Channel				649668	649834	650000	650166	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	19.76	19.82	19.90	19.92	19.95	20.9
Channel				649334	649666	650000	650334	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	19.79	19.98	19.87	19.80	19.88	20.9
Channel				649000	649500	650000	650500	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	19.79	20.00	19.87	19.89	19.88	20.9
Channel				648668	649334	650000	650666	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	19.88	19.71	19.74	19.78	19.89	20.9
Channel				648334	649166	650000	650834	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	19.97	19.93	19.97	19.94	19.97	20.9
Channel				648000	649000	650000	651000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	19.97	19.92	19.94	19.92	19.91	20.9
Channel				647668	648834	650000	651166	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	19.96	19.91	19.95	19.92	19.91	20.9
Channel				647334	648666	650000	651334	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	19.87	19.99	20.00	19.94	20.00	20.9
Channel				647168	648584	650000	651416	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	19.92	20.00	19.95	19.93	19.94	20.9
Channel				647000	648500	650000	651500	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	19.86	19.93	19.90	19.95	19.87	20.9

n78(3700-3800MHz) (PC3)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			25.2
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			24.05			25.2
100		1	136			24.01			
100		1	271			24.00			
100		135	1			24.06			25.2
100		135	67			23.99			
100		135	136			23.99			
100	DFT-s-OFDM QPSK	270	0			24.02			25.2
100		1	1			24.16			
100		1	136			24.00			
100		1	271			24.02			25.2
100		135	1			24.04			
100		135	67			23.93			
100		135	136			23.02			25.2
100		270	0			24.02			
100	DFT-s-OFDM 16QAM	1	1			23.86			25.2
100	DFT-s-OFDM 64QAM	1	1			23.17			24.2
100	DFT-s-OFDM 256QAM	1	1			21.23			22.2
100	CP-OFDM QPSK	1	1			23.10			24.2
100	CP-OFDM 16QAM	1	1			24.01			25.2
100	CP-OFDM 64QAM	1	1			22.35			23.2
100	CP-OFDM 256QAM	1	1			19.42			20.2
Channel				649668	649834	650000	650166	650332	25.2
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	23.91	23.97	24.05	24.07	24.10	25.2
Channel				649334	649666	650000	650334	650666	25.2
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	23.94	24.13	24.02	23.95	24.03	25.2
Channel				649000	649500	650000	650500	651000	25.2
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	23.94	24.15	24.02	24.04	24.03	25.2
Channel				648668	649334	650000	650666	651332	25.2
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	24.03	23.86	23.89	23.93	24.04	25.2
Channel				648334	649166	650000	650834	651666	25.2
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	24.12	24.08	24.12	24.09	24.12	25.2
Channel				648000	649000	650000	651000	652000	25.2
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	24.12	24.07	24.09	24.07	24.06	25.2
Channel				647668	648834	650000	651166	652332	25.2
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	24.11	24.06	24.10	24.07	24.06	25.2
Channel				647334	648666	650000	651334	652666	25.2
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	24.02	24.14	24.15	24.09	24.15	25.2
Channel				647168	648584	650000	651416	652832	25.2
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	24.07	24.15	24.10	24.08	24.09	25.2
Channel				647000	648500	650000	651500	653000	25.2
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	24.01	24.08	24.05	24.10	24.02	25.2

n78(3700-3800MHz) (PC3)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			24.8
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			23.61			24.8
100		1	136			23.57			
100		1	271			23.56			
100		135	1			23.62			24.8
100		135	67			23.55			
100		135	136			23.55			
100	DFT-s-OFDM QPSK	270	0			23.58			24.8
100		1	1			23.72			
100		1	136			23.56			
100		1	271			23.58			24.8
100		135	1			23.60			
100		135	67			23.49			
100	DFT-s-OFDM 16QAM	135	136			22.58			24.8
100		270	0			23.58			
100		1	1			23.42			
100	DFT-s-OFDM 64QAM	1	1			22.73			23.8
100	DFT-s-OFDM 256QAM	1	1			20.79			21.8
100	CP-OFDM QPSK	1	1			22.66			24.8
100	CP-OFDM 16QAM	1	1			23.57			23.8
100	CP-OFDM 64QAM	1	1			21.91			24.8
100	CP-OFDM 256QAM	1	1			18.98			19.8
Channel				649668	649834	650000	650166	650332	24.8
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	23.47	23.53	23.61	23.63	23.66	24.8
Channel				649334	649666	650000	650334	650666	24.8
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	23.50	23.69	23.58	23.51	23.59	24.8
Channel				649000	649500	650000	650500	651000	24.8
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	23.50	23.71	23.58	23.60	23.59	24.8
Channel				648668	649334	650000	650666	651332	24.8
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	23.59	23.42	23.45	23.49	23.60	24.8
Channel				648334	649166	650000	650834	651666	24.8
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	23.68	23.64	23.68	23.65	23.68	24.8
Channel				648000	649000	650000	651000	652000	24.8
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	23.68	23.63	23.65	23.63	23.62	24.8
Channel				647668	648834	650000	651166	652332	24.8
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	23.67	23.62	23.66	23.63	23.62	24.8
Channel				647334	648666	650000	651334	652666	24.8
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	23.58	23.70	23.71	23.65	23.71	24.8
Channel				647168	648584	650000	651416	652832	24.8
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	23.63	23.71	23.66	23.64	23.65	24.8
Channel				647000	648500	650000	651500	653000	24.8
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	23.57	23.64	23.61	23.66	23.58	24.8

n78(3700-3800MHz) (PC3)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			20.3
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			19.13			20.3
100		1	136			19.09			
100		1	271			19.08			
100		135	1			19.14			20.3
100		135	67			19.07			
100		135	136			19.07			
100	DFT-s-OFDM QPSK	270	0			19.10			20.3
100		1	1			19.24			
100		1	136			19.08			
100		1	271			19.10			20.3
100		135	1			19.12			
100		135	67			19.01			
100	DFT-s-OFDM 16QAM	1	1			18.94			20.3
100		1	1			18.25			19.3
100	DFT-s-OFDM 256QAM	1	1			16.31			17.3
100	CP-OFDM QPSK	1	1			18.18			20.3
100	CP-OFDM 16QAM	1	1			19.09			19.3
100	CP-OFDM 64QAM	1	1			17.43			19.3
100	CP-OFDM 256QAM	1	1			14.70			16.3
Channel				649668	649834	650000	650166	650332	20.3
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	18.99	19.05	19.13	19.15	19.18	20.3
Channel				649334	649666	650000	650334	650666	20.3
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	19.02	19.21	19.10	19.03	19.11	20.3
Channel				649000	649500	650000	650500	651000	20.3
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	19.02	19.23	19.10	19.12	19.11	20.3
Channel				648668	649334	650000	650666	651332	20.3
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	19.11	18.94	18.97	19.01	19.12	20.3
Channel				648334	649166	650000	650834	651666	20.3
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	19.20	19.16	19.20	19.17	19.20	20.3
Channel				648000	649000	650000	651000	652000	20.3
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	19.20	19.15	19.17	19.15	19.14	20.3
Channel				647668	648834	650000	651166	652332	20.3
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	19.19	19.14	19.18	19.15	19.14	20.3
Channel				647334	648666	650000	651334	652666	20.3
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	19.10	19.22	19.23	19.17	19.23	20.3
Channel				647168	648584	650000	651416	652832	20.3
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	19.15	19.23	19.18	19.16	19.17	20.3
Channel				647000	648500	650000	651500	653000	20.3
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	19.09	19.16	19.13	19.18	19.10	20.3



CA_7C Ant 5

Combination:20MHz+20MHz(100RB+100RB)

REPORT

No.: SZ24070315S01

PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
20850	20850	21048	QPSK	1	0	0	0	1	0	23.06	23.80
21100	21001	21199	QPSK	1	0	0	0	1	0	23.10	23.80
21350	21152	21350	QPSK	1	0	0	0	1	0	23.08	23.80
20850	20850	21048	16QAM	1	0	0	0	1	0	22.16	22.80
21100	21001	21199	16QAM	1	0	0	0	1	0	22.17	22.80
21350	21152	21350	16QAM	1	0	0	0	1	0	22.13	22.80
20850	20850	21048	64QAM	1	0	0	0	1	0	21.19	21.80
21100	21001	21199	64QAM	1	0	0	0	1	0	21.30	21.80
21350	21152	21350	64QAM	1	0	0	0	1	0	21.16	21.80
20850	20850	21048	256QAM	1	0	0	0	1	0	18.11	18.80
21100	21001	21199	256QAM	1	0	0	0	1	0	18.12	18.80
21350	21152	21350	256QAM	1	0	0	0	1	0	18.05	18.80
20850	20850	21048	QPSK	50	0	0	0	1	0	22.10	22.80
21100	21001	21199	QPSK	50	0	0	0	1	0	22.17	22.80
21350	21152	21350	QPSK	50	0	0	0	1	0	22.08	22.80

CA_7C Ant 0

Combination:20MHz+20MHz(100RB+100RB)

PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
20850	20850	21048	QPSK	1	0	0	0	1	0	21.09	21.80
21100	21001	21199	QPSK	1	0	0	0	1	0	21.10	21.80
21350	21152	21350	QPSK	1	0	0	0	1	0	21.00	21.80
20850	20850	21048	16QAM	1	0	0	0	1	0	20.19	20.80
21100	21001	21199	16QAM	1	0	0	0	1	0	20.30	20.80
21350	21152	21350	16QAM	1	0	0	0	1	0	20.23	20.80
20850	20850	21048	64QAM	1	0	0	0	1	0	19.26	19.80
21100	21001	21199	64QAM	1	0	0	0	1	0	19.27	19.80
21350	21152	21350	64QAM	1	0	0	0	1	0	19.22	19.80
20850	20850	21048	256QAM	1	0	0	0	1	0	16.11	16.80
21100	21001	21199	256QAM	1	0	0	0	1	0	16.13	16.80
21350	21152	21350	256QAM	1	0	0	0	1	0	16.12	16.80
20850	20850	21048	QPSK	50	0	0	0	1	0	20.18	20.80
21100	21001	21199	QPSK	50	0	0	0	1	0	20.26	20.80
21350	21152	21350	QPSK	50	0	0	0	1	0	20.17	20.80

CA_12B Ant 1

Combination:5MHz+10MHz(25RB+50RB)

PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
23060	23038	23110	QPSK	1	0	0	0	1	0	23.06	23.80
23095	23048	23120	QPSK	1	0	0	0	1	0	23.13	23.80
23130	23058	23130	QPSK	1	0	0	0	1	0	23.04	23.80
23060	23038	23110	16QAM	1	0	0	0	1	0	22.08	22.80
23095	23048	23120	16QAM	1	0	0	0	1	0	22.10	22.80
23130	23058	23130	16QAM	1	0	0	0	1	0	22.06	22.80
23060	23038	23110	64QAM	1	0	0	0	1	0	21.19	21.80
23095	23048	23120	64QAM	1	0	0	0	1	0	21.23	21.80
23130	23058	23130	64QAM	1	0	0	0	1	0	21.14	21.80
23060	23038	23110	256QAM	1	0	0	0	1	0	18.11	18.80
23095	23048	23120	256QAM	1	0	0	0	1	0	18.15	18.80
23130	23058	23130	256QAM	1	0	0	0	1	0	18.12	18.80
23060	23038	23110	QPSK	25	0	0	0	1	0	22.00	22.80
23095	23048	23120	QPSK	25	0	0	0	1	0	22.09	22.80
23130	23058	23130	QPSK	25	0	0	0	1	0	22.07	22.80

CA_12B Ant 0

Combination:5MHz+10MHz(25RB+50RB)

PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
23060	23038	23110	QPSK	1	0	0	0	1	0	22.32	23.10
23095	23048	23120	QPSK	1	0	0	0	1	0	22.40	23.10
23130	23058	23130	QPSK	1	0	0	0	1	0	22.28	23.10
23060	23038	23110	16QAM	1	0	0	0	1	0	21.37	22.10
23095	23048	23120	16QAM	1	0	0	0	1	0	21.43	22.10
23130	23058	23130	16QAM	1	0	0	0	1	0	21.39	22.10
23060	23038	23110	64QAM	1	0	0	0	1	0	20.29	21.10
23095	23048	23120	64QAM	1	0	0	0	1	0	20.37	21.10
23130	23058	23130	64QAM	1	0	0	0	1	0	20.38	21.10
23060	23038	23110	256QAM	1	0	0	0	1	0	17.32	18.10
23095	23048	23120	256QAM	1	0	0	0	1	0	17.29	18.10
23130	23058	23130	256QAM	1	0	0	0	1	0	17.27	18.10
23060	23038	23110	QPSK	25	0	0	0	1	0	21.31	22.10
23095	23048	23120	QPSK	25	0	0	0	1	0	21.34	22.10

23-MORLAB	3058	23130	QPSK	25	0	0	0	1	0	21.28	22.10
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CA_38C Ant 5											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
37850	37850	38048	QPSK	1	0	0	0	1	0	23.22	23.80
38000	37901	38099	QPSK	1	0	0	0	1	0	23.25	23.80
38150	37952	38150	QPSK	1	0	0	0	1	0	23.23	23.80
37850	37850	38048	16QAM	1	0	0	0	1	0	22.34	22.80
38000	37901	38099	16QAM	1	0	0	0	1	0	22.39	22.80
38150	37952	38150	16QAM	1	0	0	0	1	0	22.38	22.80
37850	37850	38048	64QAM	1	0	0	0	1	0	21.11	21.80
38000	37901	38099	64QAM	1	0	0	0	1	0	21.14	21.80
38150	37952	38150	64QAM	1	0	0	0	1	0	21.12	21.80
37850	37850	38048	256QAM	1	0	0	0	1	0	18.18	18.80
38000	37901	38099	256QAM	1	0	0	0	1	0	18.22	18.80
38150	37952	38150	256QAM	1	0	0	0	1	0	18.20	18.80
37850	37850	38048	QPSK	50	0	0	0	1	0	22.13	22.80
38000	37901	38099	QPSK	50	0	0	0	1	0	22.15	22.80
38150	37952	38150	QPSK	50	0	0	0	1	0	22.14	22.80

CA_38C Ant 0											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
37850	37850	38048	QPSK	1	0	0	0	1	0	21.14	21.80
38000	37901	38099	QPSK	1	0	0	0	1	0	21.23	21.80
38150	37952	38150	QPSK	1	0	0	0	1	0	21.19	21.80
37850	37850	38048	16QAM	1	0	0	0	1	0	20.18	20.80
38000	37901	38099	16QAM	1	0	0	0	1	0	20.21	20.80
38150	37952	38150	16QAM	1	0	0	0	1	0	20.17	20.80
37850	37850	38048	64QAM	1	0	0	0	1	0	19.16	19.80
38000	37901	38099	64QAM	1	0	0	0	1	0	19.24	19.80
38150	37952	38150	64QAM	1	0	0	0	1	0	19.19	19.80
37850	37850	38048	256QAM	1	0	0	0	1	0	16.10	16.80
38000	37901	38099	256QAM	1	0	0	0	1	0	16.16	16.80
38150	37952	38150	256QAM	1	0	0	0	1	0	16.09	16.80
37850	37850	38048	QPSK	50	0	0	0	1	0	20.16	20.80
38000	37901	38099	QPSK	50	0	0	0	1	0	20.17	20.80
38150	37952	38150	QPSK	50	0	0	0	1	0	20.12	20.80

CA_41C Ant 5 (PC3)											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	24.11	24.80
40620	40521	40719	QPSK	1	0	0	0	1	0	24.18	24.80
41490	41292	41490	QPSK	1	0	0	0	1	0	24.13	24.80
39750	39750	39948	16QAM	1	0	0	0	1	0	23.24	23.80
40620	40521	40719	16QAM	1	0	0	0	1	0	23.33	23.80
41490	41292	41490	16QAM	1	0	0	0	1	0	23.31	23.80
39750	39750	39948	64QAM	1	0	0	0	1	0	22.28	22.80
40620	40521	40719	64QAM	1	0	0	0	1	0	22.34	22.80
41490	41292	41490	64QAM	1	0	0	0	1	0	22.26	22.80
39750	39750	39948	256QAM	1	0	0	0	1	0	19.11	19.80
40620	40521	40719	256QAM	1	0	0	0	1	0	19.24	19.80
41490	41292	41490	256QAM	1	0	0	0	1	0	19.15	19.80
39750	39750	39948	QPSK	50	0	0	0	1	0	23.26	23.80
40620	40521	40719	QPSK	50	0	0	0	1	0	23.38	23.80
41490	41292	41490	QPSK	50	0	0	0	1	0	23.22	23.80

CA_41C Ant 0 (PC3)											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	22.14	22.80
40620	40521	40719	QPSK	1	0	0	0	1	0	22.23	22.80
41490	41292	41490	QPSK	1	0	0	0	1	0	22.19	22.80
39750	39750	39948	16QAM	1	0	0	0	1	0	21.32	21.80
40620	40521	40719	16QAM	1	0	0	0	1	0	21.38	21.80
41490	41292	41490	16QAM	1	0	0	0	1	0	21.37	21.80
39750	39750	39948	64QAM	1	0	0	0	1	0	20.25	20.80
40620	40521	40719	64QAM	1	0	0	0	1	0	20.35	20.80
41490	41292	41490	64QAM	1	0	0	0	1	0	20.29	20.80
39750	39750	39948	256QAM	1	0	0	0	1	0	16.33	17.80
40620	40521	40719	256QAM	1	0	0	0	1	0	16.44	17.80

41490	41292	41490	256QAM	1	0	0	0	1	0	16.38	17.80
39750	39750	39948	QPSK	50	0	0	0	1	0	21.29	21.80
40620	40521	40719	QPSK	50	0	0	0	1	0	21.36	21.80
41490	41292	41490	QPSK	50	0	0	0	1	0	21.32	21.80

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CA_41C Ant 5 (PC2)											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	25.14	25.80
40620	40521	40719	QPSK	1	0	0	0	1	0	25.21	25.80
41490	41292	41490	QPSK	1	0	0	0	1	0	25.16	25.80
39750	39750	39948	16QAM	1	0	0	0	1	0	24.27	24.80
40620	40521	40719	16QAM	1	0	0	0	1	0	24.36	24.80
41490	41292	41490	16QAM	1	0	0	0	1	0	24.34	24.80
39750	39750	39948	64QAM	1	0	0	0	1	0	23.31	23.80
40620	40521	40719	64QAM	1	0	0	0	1	0	23.37	23.80
41490	41292	41490	64QAM	1	0	0	0	1	0	23.29	23.80
39750	39750	39948	256QAM	1	0	0	0	1	0	20.14	20.80
40620	40521	40719	256QAM	1	0	0	0	1	0	20.27	20.80
41490	41292	41490	256QAM	1	0	0	0	1	0	20.18	20.80
39750	39750	39948	QPSK	50	0	0	0	1	0	24.29	24.80
40620	40521	40719	QPSK	50	0	0	0	1	0	24.41	24.80
41490	41292	41490	QPSK	50	0	0	0	1	0	24.25	24.80

CA_41C Ant 0 (PC2)											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	23.09	23.80
40620	40521	40719	QPSK	1	0	0	0	1	0	23.18	23.80
41490	41292	41490	QPSK	1	0	0	0	1	0	23.14	23.80
39750	39750	39948	16QAM	1	0	0	0	1	0	22.27	22.80
40620	40521	40719	16QAM	1	0	0	0	1	0	22.33	22.80
41490	41292	41490	16QAM	1	0	0	0	1	0	22.32	22.80
39750	39750	39948	64QAM	1	0	0	0	1	0	21.20	21.80
40620	40521	40719	64QAM	1	0	0	0	1	0	21.30	21.80
41490	41292	41490	64QAM	1	0	0	0	1	0	21.24	21.80
39750	39750	39948	256QAM	1	0	0	0	1	0	18.22	18.80
40620	40521	40719	256QAM	1	0	0	0	1	0	18.26	18.80
41490	41292	41490	256QAM	1	0	0	0	1	0	18.17	18.80
39750	39750	39948	QPSK	50	0	0	0	1	0	22.24	22.80
40620	40521	40719	QPSK	50	0	0	0	1	0	22.31	22.80
41490	41292	41490	QPSK	50	0	0	0	1	0	22.27	22.80

CA_48C Ant 8											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
55340	55340	55538	QPSK	1	0	0	0	1	0	23.09	23.80
55990	55891	56089	QPSK	1	0	0	0	1	0	23.22	23.80
56640	56442	56640	QPSK	1	0	0	0	1	0	23.18	23.80
55340	55340	55538	16QAM	1	0	0	0	1	0	22.13	22.80
55990	55891	56089	16QAM	1	0	0	0	1	0	22.22	22.80
56640	56442	56640	16QAM	1	0	0	0	1	0	22.19	22.80
55340	55340	55538	64QAM	1	0	0	0	1	0	21.10	21.80
55990	55891	56089	64QAM	1	0	0	0	1	0	21.21	21.80
56640	56442	56640	64QAM	1	0	0	0	1	0	21.16	21.80
55340	55340	55538	256QAM	1	0	0	0	1	0	18.13	18.80
55990	55891	56089	256QAM	1	0	0	0	1	0	18.14	18.80
56640	56442	56640	256QAM	1	0	0	0	1	0	18.12	18.80
55340	55340	55538	QPSK	50	0	0	0	1	0	22.16	22.80
55990	55891	56089	QPSK	50	0	0	0	1	0	22.25	22.80
56640	56442	56640	QPSK	50	0	0	0	1	0	22.17	22.80

CA_48C Ant 9											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
55340	55340	55538	QPSK	1	0	0	0	1	0	22.35	23.10
55990	55891	56089	QPSK	1	0	0	0	1	0	22.38	23.10
56640	56442	56640	QPSK	1	0	0	0	1	0	22.31	23.10
55340	55340	55538	16QAM	1	0	0	0	1	0	21.40	22.10
55990	55891	56089	16QAM	1	0	0	0	1	0	21.43	22.10
56640	56442	56640	16QAM	1	0	0	0	1	0	21.36	22.10
55340	55340	55538	64QAM	1	0	0	0	1	0	20.36	21.10
55990	55891	56089	64QAM	1	0	0	0	1	0	20.41	21.10
56640	56442	56640	64QAM	1	0	0	0	1	0	20.37	21.10
55340	55340	55538	256QAM	1	0	0	0	1	0	17.24	18.10

55340	55340	55340	55340	55340	55340	55340	55340	55340	55340	55340	55340
55990	55990	55990	55990	55990	55990	55990	55990	55990	55990	55990	55990
56640	56640	56640	56640	56640	56640	56640	56640	56640	56640	56640	56640

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CA_48C Ant 4											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
55340	55340	55538	QPSK	1	0	0	0	1	0	19.81	20.50
55990	55891	56089	QPSK	1	0	0	0	1	0	19.86	20.50
56640	56442	56640	QPSK	1	0	0	0	1	0	19.76	20.50
55340	55340	55538	16QAM	1	0	0	0	1	0	18.76	19.50
55990	55891	56089	16QAM	1	0	0	0	1	0	18.79	19.50
56640	56442	56640	16QAM	1	0	0	0	1	0	18.73	19.50
55340	55340	55538	64QAM	1	0	0	0	1	0	17.73	18.50
55990	55891	56089	64QAM	1	0	0	0	1	0	17.80	18.50
56640	56442	56640	64QAM	1	0	0	0	1	0	17.68	18.50
55340	55340	55538	256QAM	1	0	0	0	1	0	14.68	15.50
55990	55891	56089	256QAM	1	0	0	0	1	0	14.75	15.50
56640	56442	56640	256QAM	1	0	0	0	1	0	14.69	15.50
55340	55340	55538	QPSK	50	0	0	0	1	0	18.71	19.50
55990	55891	56089	QPSK	50	0	0	0	1	0	18.82	19.50
56640	56442	56640	QPSK	50	0	0	0	1	0	18.68	19.50

CA_48C Ant 11											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
55340	55340	55538	QPSK	1	0	0	0	1	0	19.34	20.10
55990	55891	56089	QPSK	1	0	0	0	1	0	19.39	20.10
56640	56442	56640	QPSK	1	0	0	0	1	0	19.29	20.10
55340	55340	55538	16QAM	1	0	0	0	1	0	18.29	19.10
55990	55891	56089	16QAM	1	0	0	0	1	0	18.32	19.10
56640	56442	56640	16QAM	1	0	0	0	1	0	18.26	19.10
55340	55340	55538	64QAM	1	0	0	0	1	0	17.26	18.10
55990	55891	56089	64QAM	1	0	0	0	1	0	17.33	18.10
56640	56442	56640	64QAM	1	0	0	0	1	0	17.21	18.10
55340	55340	55538	256QAM	1	0	0	0	1	0	14.21	15.10
55990	55891	56089	256QAM	1	0	0	0	1	0	14.28	15.10
56640	56442	56640	256QAM	1	0	0	0	1	0	14.22	15.10
55340	55340	55538	QPSK	50	0	0	0	1	0	18.24	19.10
55990	55891	56089	QPSK	50	0	0	0	1	0	18.35	19.10
56640	56442	56640	QPSK	50	0	0	0	1	0	18.21	19.10

CA_66B Ant 5											
Combination:15MHz+10MHz(75RB+25RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
132070	132047	132140	QPSK	1	0	0	0	1	0	23.22	23.80
132322	132398	132491	QPSK	1	0	0	0	1	0	23.26	23.80
132572	132549	132642	QPSK	1	0	0	0	1	0	23.17	23.80
132070	132047	132140	16QAM	1	0	0	0	1	0	22.10	22.80
132322	132398	132491	16QAM	1	0	0	0	1	0	22.23	22.80
132572	132549	132642	16QAM	1	0	0	0	1	0	22.14	22.80
132070	132047	132140	64QAM	1	0	0	0	1	0	21.22	21.80
132322	132398	132491	64QAM	1	0	0	0	1	0	21.34	21.80
132572	132549	132642	64QAM	1	0	0	0	1	0	21.24	21.80
132070	132047	132140	256QAM	1	0	0	0	1	0	18.14	18.80
132322	132398	132491	256QAM	1	0	0	0	1	0	18.22	18.80
132572	132549	132642	256QAM	1	0	0	0	1	0	18.15	18.80
132070	132047	132140	QPSK	36	0	0	0	1	0	22.10	22.80
132322	132398	132491	QPSK	36	0	0	0	1	0	22.19	22.80
132572	132549	132642	QPSK	36	0	0	0	1	0	22.13	22.80

CA_66B Ant 0											
Combination:15MHz+10MHz(75RB+25RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
132070	132047	132140	QPSK	1	0	0	0	1	0	21.52	22.30
132322	132398	132491	QPSK	1	0	0	0	1	0	21.56	22.30
132572	132549	132642	QPSK	1	0	0	0	1	0	21.47	22.30
132070	132047	132140	16QAM	1	0	0	0	1	0	20.40	21.30
132322	132398	132491	16QAM	1	0	0	0	1	0	20.53	21.30
132572	132549	132642	16QAM	1	0	0	0	1	0	20.44	21.30
132070	132047	132140	64QAM	1	0	0	0	1	0	19.52	20.30
132322	132398	132491	64QAM	1	0	0	0	1	0	19.64	20.30

132070	132047	132140	256QAM	1	0	0	0	1	0	19.54	20.30
132322	132398	132491	256QAM	1	0	0	0	1	0	16.44	17.30
132572	132549	132642	256QAM	1	0	0	0	1	0	16.52	17.30
132070	132047	132140	QPSK	36	0	0	0	1	0	16.45	17.30
132322	132398	132491	QPSK	36	0	0	0	1	0	20.40	21.30
132572	132549	132642	QPSK	36	0	0	0	1	0	20.49	21.30
132070	132047	132140	QPSK	36	0	0	0	1	0	20.43	21.30

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CA_66C Ant 5											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
132070	132072	132270	QPSK	1	0	0	0	1	0	23.07	23.80
132322	132323	132521	QPSK	1	0	0	0	1	0	23.11	23.80
132572	132374	132572	QPSK	1	0	0	0	1	0	23.02	23.80
132070	132072	132270	16QAM	1	0	0	0	1	0	22.04	22.80
132322	132323	132521	16QAM	1	0	0	0	1	0	22.17	22.80
132572	132374	132572	16QAM	1	0	0	0	1	0	22.08	22.80
132070	132072	132270	64QAM	1	0	0	0	1	0	21.07	21.80
132322	132323	132521	64QAM	1	0	0	0	1	0	21.19	21.80
132572	132374	132572	64QAM	1	0	0	0	1	0	21.09	21.80
132070	132072	132270	256QAM	1	0	0	0	1	0	18.14	18.80
132322	132323	132521	256QAM	1	0	0	0	1	0	18.19	18.80
132572	132374	132572	256QAM	1	0	0	0	1	0	18.08	18.80
132070	132072	132270	QPSK	50	0	0	0	1	0	21.95	22.50
132322	132323	132521	QPSK	50	0	0	0	1	0	22.04	22.50
132572	132374	132572	QPSK	50	0	0	0	1	0	21.98	22.50

CA_66C Ant 0											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
132070	132072	132270	QPSK	1	0	0	0	1	0	21.59	22.30
132322	132323	132521	QPSK	1	0	0	0	1	0	21.63	22.30
132572	132374	132572	QPSK	1	0	0	0	1	0	21.54	22.30
132070	132072	132270	16QAM	1	0	0	0	1	0	20.47	21.30
132322	132323	132521	16QAM	1	0	0	0	1	0	20.60	21.30
132572	132374	132572	16QAM	1	0	0	0	1	0	20.51	21.30
132070	132072	132270	64QAM	1	0	0	0	1	0	19.59	20.30
132322	132323	132521	64QAM	1	0	0	0	1	0	19.71	20.30
132572	132374	132572	64QAM	1	0	0	0	1	0	19.61	20.30
132070	132072	132270	256QAM	1	0	0	0	1	0	16.55	17.30
132322	132323	132521	256QAM	1	0	0	0	1	0	16.61	17.30
132572	132374	132572	256QAM	1	0	0	0	1	0	16.53	17.30
132070	132072	132270	QPSK	50	0	0	0	1	0	20.47	21.30
132322	132323	132521	QPSK	50	0	0	0	1	0	20.56	21.30
132572	132374	132572	QPSK	50	0	0	0	1	0	20.50	21.30

2CC LTE Uplink												
Configure	CA Configuration	PCC					SCC				Power	
		Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/R B/Offset)	Band	BW (MHz)	UL Channel	UL Fre. (MHz)	Measured Power(dBm)	Tune-up limit(dBm)
Inter-band	CA_2A-4A	2	20	18700	1860	QPSK/1#0	4	20	20300	1745	23.07	23.80
	CA_2A-5A	2	20	18700	1860	QPSK/1#0	5	10	20600	844	23.20	23.80
	CA_2A-7A	2	20	18700	1860	QPSK/1#0	7	20	21350	2560	23.13	23.80
	CA_2A-12A	2	20	18700	1860	QPSK/1#0	12	5	23155	713.5	23.06	23.80
	CA_2A-13A	2	20	18700	1860	QPSK/1#0	13	10	23230	782	23.07	23.80
	CA_2A-66A	2	20	18700	1860	QPSK/1#0	66	20	132572	1770	23.15	23.80
	CA_2A-71A	2	20	18700	1860	QPSK/1#0	71	20	133372	688	23.18	23.80
	CA_4A-5A	4	20	20050	1720	QPSK/1#0	5	10	20600	844	23.17	23.80
	CA_4A-12A	4	20	20050	1720	QPSK/1#0	12	5	23155	713.5	23.29	23.80
	CA_4A-13A	4	20	20050	1720	QPSK/1#0	13	10	23230	782	23.21	23.80
	CA_4A-17A	4	10	20175	1732.5	QPSK/1#0	17	10	23790	710	23.16	23.80
	CA_4A-71A	4	20	20050	1720	QPSK/1#0	71	20	133372	688	23.14	23.80
	CA_5A-7A	5	10	20450	829	QPSK/1#0	7	20	21350	2560	23.07	23.80
	CA_5A-30A	5	10	20450	829	QPSK/1#0	30	10	27710	2310	23.10	23.80
	CA_5A-66A	5	10	20450	829	QPSK/1#0	66	20	132572	1770	23.17	23.80
	CA_7A-12A	7	20	20850	2510	QPSK/1#0	12	5	23155	713.5	23.06	23.80
	CA_12A-30A	12	5	23035	701.5	QPSK/1#0	30	10	27710	2310	23.20	23.80
	CA_12A-66A	12	5	23035	701.5	QPSK/1#0	66	20	132572	1770	23.18	23.80
	CA_13A-66A	13	10	23230	782	QPSK/1#0	66	20	132572	1770	23.28	23.80
	CA_66A-71A	66	20	132072	1720	QPSK/1#0	71	20	133372	688	23.18	23.80

2CC LTE Uplink												
Configure	CA	PCC					SCC				Power	
		Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	UL Channel	UL Fre. (MHz)	CA TX (dBm)	Tune-up limit (dBm)
Intra-band & Inter-band	CA_n2A-n77A (3450-	2	30	37600	1880	DFT-S-OFDM/1#1	77	100	633334	3500.1	24.74	25.2
	CA_n2A-n77A (3700-	2	30	37600	1880	DFT-S-OFDM/1#1	77	100	656000	3840	24.55	25.2
	CA_n5A-n77A (3450-	5	50	167300	836.5	DFT-S-OFDM/1#1	77	100	633334	3500.1	24.33	25.2
	CA_n5A-n77A (3700-	5	50	167300	836.5	DFT-S-OFDM/1#1	77	100	656000	3840	24.91	25.2
	CA_n5A-n78A (3450-	5	20	167300	836.5	DFT-S-OFDM/1#1	78	100	633334	3500.1	24.35	25.2
	CA_n5A-n78A (3700-	5	20	167300	836.5	DFT-S-OFDM/1#1	78	100	650000	3750	24.36	25.2
	CA_n7A-n78A (3450-	7	40	507000	2535	DFT-S-OFDM/1#1	78	100	633334	3500.1	24.52	25.2
	CA_n7A-n78A (3700-	7	40	507000	2535	DFT-S-OFDM/1#1	78	100	650000	3750	24.61	25.2
	CA_n25A-n41A	25	40	376500	1882.5	DFT-S-OFDM/1#1	41	100	518598	2592.99	24.53	25.2
	CA_n41A-n66A	41	100	518598	2592.99	DFT-S-OFDM/1#1	66	66	34900	1745	24.51	25.2



2CC LTE Downlink													
Configure	CA Configuration	PCC				SCC				Power			
		Band	BW (MHz)	UL Channel	UL Freq (MHz)	UL Modulation	Band	BW (MHz)	DL Channel	DL Freq (MHz)	CA Tx (dBm)	Rel 8 Tx (dBm)	
Intra-band/Inter-band	2A-17A	2	10	18600	1860	QPSK160	17	10	23790	710	23.08	24.27	
	2A-26A	2	20	18700	1860	QPSK160	26	15	26660	831.5	23.07	24.27	
	2A-71A	2	10	18600	1860	QPSK160	71	10	133207	680.5	23.17	24.27	
	4A-13A	4	10	20175	1732.5	QPSK160	13	10	23320	782	23.18	24.28	
	4A-17A	4	10	20175	1732.5	QPSK160	17	10	23790	710	23.11	24.28	
	4A-30A	4	10	20175	1732.5	QPSK160	30	10	27710	2310	23.11	24.28	
	4A-48A	4	20	20050	1720	QPSK160	48	20	26640	3690	23.03	24.28	
	4A-71A	4	10	20175	1732.5	QPSK160	71	10	133207	680.5	23.07	24.28	
	7A-25A	7	20	21152	2540.2	QPSK160	25	20	26640	1905	23.17	24.13	
	7A-36A	7	20	21152	2540.2	QPSK160	36	15	26660	831.5	23.1	24.13	
	7A-71A	7	20	21152	2540.2	QPSK160	71	10	133207	680.5	23.11	24.13	
	25A-26A	25	10	26365	1882.5	QPSK160	26	10	26660	831.5	23.07	24.34	
	25A-66A	25	20	26140	1860	QPSK160	66	20	67236	2190	23.21	24.34	
	48A-71A	48	20	55340	3560	QPSK160	71	10	133207	680.5	23.2	24.45	
	66A-71A	66	20	132422	1735	QPSK160	71	10	133207	680.5	23.28	24.31	
	48B	48	20	55340	3560	QPSK160	48	20	26640	3690	23.07	24.45	
	66B	66	20	132422	1775	QPSK160	66	10	67185	2184.9	23.2	24.31	
	30C	30	20	37052	2590.2	QPSK160	30	20	26150	2010	23.25	22.37	

3CC LTE Downlink																
Configure	CA Configuration	PCC				SCC1				SCC2						
		Band	BW (MHz)	UL Channel	UL Freq (MHz)	UL Modulation	Band	BW (MHz)	DL Channel	DL Freq (MHz)	Band	BW (MHz)	DL Channel	DL Freq (MHz)	CA Tx (dBm)	Rel 8 Tx (dBm)
Intra-band/Inter-band	2A-2A-71A	2	20	18700	1860	QPSK160	2	20	19100	1900	71	20	133223	683	23.11	24.27
	2A-4A-5A	2	20	18700	1860	QPSK160	4	20	20300	1745	5	10	20600	844	23.05	24.27
	2A-4A-12A	2	20	18700	1860	QPSK160	4	20	20300	1745	12	10	23130	711	23.03	24.27
	2A-4A-13A	2	20	18700	1860	QPSK160	4	20	20300	1745	13	10	23230	782	23.12	24.27
	2A-4A-71A	2	20	18700	1860	QPSK160	4	20	20300	1745	71	10	133207	680.5	23.22	24.27
	2A-5A-30A	2	20	18700	1860	QPSK160	5	10	20600	844	30	10	27710	2310	23.18	24.27
	2A-5A-48A	2	20	18700	1860	QPSK160	5	10	20600	844	48	20	26640	3690	23.12	24.27
	2A-7A-12A	2	20	18700	1860	QPSK160	7	20	21300	2580	12	10	23130	711	23.22	24.27
	2A-7A-13A	2	20	18700	1860	QPSK160	7	20	21300	2580	13	10	23230	782	23.12	24.27
	2A-12A-30A	2	20	18700	1860	QPSK160	12	10	23130	711	30	10	27710	2310	23.18	24.27
	2A-13A-48A	2	20	18700	1860	QPSK160	13	10	23230	782	48	20	26640	3690	23.08	24.27
	2A-30A-66A	2	20	18700	1860	QPSK160	30	10	27710	2310	66	20	67236	2190	23.16	24.27
	2A-48A-66A	2	20	18700	1860	QPSK160	48	20	26640	3690	66	20	67236	2190	23.22	24.37
	2A-66A-66A	2	20	18700	1860	QPSK160	66	20	66640	3690	66	20	67236	2190	23.17	24.27
	2A-66A-71A	2	20	18700	1860	QPSK160	66	10	66886	2155	71	10	133207	680.5	23.11	24.27
	2A-66B	2	20	18700	1860	QPSK160	66	10	67187	2185.1	66	10	67286	2195	23.18	24.27
	4A-4A-5A	4	20	20050	1720	QPSK160	4	20	20300	1745	5	10	20600	844	23.07	24.28
	4A-4A-12A	4	20	20050	1720	QPSK160	4	20	20300	1745	12	10	23130	711	23.03	24.28
	4A-4A-13A	4	20	20050	1720	QPSK160	4	20	20300	1745	13	10	23230	782	23.11	24.28
	4A-4A-71A	4	20	20050	1720	QPSK160	4	20	20300	1745	71	10	133207	680.5	23.18	24.28
	4A-5A-30A	4	20	20050	1720	QPSK160	5	10	20600	844	30	10	27710	2310	23.18	24.28
	4A-7A-7A	4	20	20050	1720	QPSK160	7	20	20300	2510	7	20	21300	2580	23.08	24.28
	4A-7A-12A	4	20	20050	1720	QPSK160	7	20	21300	2580	12	10	23130	711	23.18	24.28
	4A-12A-30A	4	20	20050	1720	QPSK160	12	10	23130	711	30	10	27710	2310	23.05	24.28
	4A-48B	4	20	20050	1720	QPSK160	5	10	20601	834.1	5	10	20600	844	23.11	24.28
	4A-12B	4	20	20050	1720	QPSK160	12	5	23055	703.8	12	10	23130	711	23.04	24.28
	4A-7C	4	20	20050	1720	QPSK160	7	20	21152	2540.2	7	20	21300	2580	23.12	24.28
	4A-48C	4	20	20050	1720	QPSK160	48	20	26642	3670.2	48	20	26640	3690	23.17	24.28
	5A-30A-66A	5	10	20460	829	QPSK160	30	10	27710	2310	66	20	67236	2190	23.16	24.37
	5A-48A-66A	5	10	20460	829	QPSK160	48	20	26640	3690	66	20	67236	2190	23.22	24.37
	5A-66A-66A	5	10	20460	829	QPSK160	66	20	66886	2155	66	20	67236	2190	23.12	24.37
	5A-66B	5	10	20460	829	QPSK160	66	10	67187	2185.1	66	10	67286	2195	23.08	24.37
	5A-66C	5	10	20460	829	QPSK160	66	20	67038	2170.2	66	20	67236	2190	23.07	24.37
	7A-1A-66A	7	20	20880	2510	QPSK160	12	10	23130	711	66	20	67236	2190	23.05	24.13
	7A-1A-66A	7	20	20880	2510	QPSK160	13	10	23230	782	66	20	67236	2190	23.13	24.13
	7A-66A-66A	7	20	20880	2510	QPSK160	66	20	66886	2155	66	20	67236	2190	23.11	24.13
	7A-12B	7	20	20880	2510	QPSK160	12	5	23058	703.8	12	10	23130	711	23.07	24.13
	13A-30A-66A	13	10	23230	782	QPSK160	30	10	27710	2310	66	20	67236	2190	23.11	24.38
	13A-48A-66A	13	10	23230	782	QPSK160	48	20	26686	2155	66	20	67236	2190	23.18	24.38
	13A-66C	13	10	23230	782	QPSK160	66	20	67038	2170.2	66	20	67236	2190	23.12	24.38
	13A-48A-66A	13	10	23230	782	QPSK160	48	20	26640	3690	66	20	67236	2190	23.11	24.37
	13A-66A-66A	13	10	23230	782	QPSK160	66	20	66886	2155	66	20	67236	2190	23.15	24.37
	13A-66B	13	10	23230	782	QPSK160	66	10	67187	2185.1	66	10	67286	2195	23.16	24.37
	13A-66C	13	10	23230	782	QPSK160	66	10	67038	2170.2	66	10	67236	2190	23.13	24.37
	25A-25A-66A	25	20	26140	1860	QPSK160	25	20	26660	1905	66	20	67236	2190	23.12	24.34
	30A-66A-66A	30	10	27710	2310	QPSK160	66	20	66886	2155	66	20	67236	2190	23.22	23.58
	41A-41A-41A	41	20	39750	2508	QPSK160	41	20	41094	2640.4	41	20	41480	2680	23.01	24.07
	41A-41C	41	20	39750	2508	QPSK160	41	20	41292	2660.2	41	20	41480	2680	23.02	24.07
	66A-66A-66A	66	20	55340	3560	QPSK160	48	20	26640	3690	66	20	67236	2190	23.12	24.45
	66A-66A-66A	66	20	55340	3560	QPSK160	66	20	66886	2155	66	20	67236	2190	23.22	24.45
	66A-48C	48	20	55340	3560	QPSK160	48	20	26642	3670.2	48	20	26640	3690	23.13	24.45
	66A-66A-66A	66	20	132072	1720	QPSK160	66	20	66886	2155	66	20	67236	2190	23.11	24.31
	66A-66A-71A	66	20	132072	1720	QPSK160	66	20	66886	2155	71	10	133207	680.5	23.12	24.31
	66A-66B	66	20	132072	1720	QPSK160	66	20	67187	2185.1	66	20	67286	2195	23.28	24.31
	66A-66C	66	20	132072	1720	QPSK160	66	20	67038	2170.2	66	20	67236	2190	23.14	24.31
	2C-5A	2	20	18602	1860.2	QPSK160	2	20	19100	1900	5	10	20600	844	23.15	24.27
	2C-12A	2	20	18602	1860.2	QPSK160	12	10	19100	1900	12	10	23130	711	23.15	24.27
	66C-71A	66	20	132072	1775	QPSK160	66	20	67234	2189.9	71	10	133207	680.5	23.12	24.31
	41D	41	20	41094	2640.4	QPSK160	41	20	41292	2660.2	41	20	41480	2680	23.11	24.07



41E	41	20	40880	2620	QPSK190	41	20	41088	2639.8	41	20	41286	2659.6	41	20	41484	2679.4	22.96	24.07
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SCC LTE Downlink																								
Configure	CA Configuration	POC				SCC1				SCC2				SCC3				SCC4				Power		
		Band	BW (MHz)	UL Channel	UL Freq (MHz)	UL Mode Modulation (RB/Carrier)	Band	BW (MHz)	DL Channel	DL Freq (MHz)	Band	BW (MHz)	DL Channel	DL Freq (MHz)	Band	BW (MHz)	DL Channel	DL Freq (MHz)	Band	BW (MHz)	DL Channel		DL Freq (MHz)	CA TX (dBm)
Intra-band&Inter-band	2A-2A-5A-6A-6A	2	20	18700	1860	QPSK190	2	20	19100	1900	5	10	20600	844	66	20	66886	2155	66	20	67236	2190	23.24	24.27
	2A-2A-5A-6A-6A	2	20	18700	1860	QPSK190	2	20	19100	1900	5	10	20600	844	66	10	67187	2185.1	66	10	67236	2190	23.15	24.27
	2A-2A-5A-6A-6A	2	20	18700	1860	QPSK190	2	20	19100	1900	5	10	20600	844	66	20	67038	2170.2	66	20	67236	2190	23.25	24.27
	2A-2A-12A-6A-6A	2	20	18700	1860	QPSK190	2	20	19100	1900	12	10	23130	711	66	20	66886	2155	66	20	67236	2190	23.16	24.27
	2A-2A-13A-6A-6A	2	20	18700	1860	QPSK190	2	20	19100	1900	13	10	23230	782	66	20	66886	2155	66	20	67236	2190	23.13	24.27
	2A-2A-12B-6A-6A	2	20	18700	1860	QPSK190	2	20	19100	1900	12	5	23038	703.8	12	10	23130	711	66	20	67236	2190	23.15	24.27
	2A-2A-5A-5A-6A-6A	2	20	18700	1860	QPSK190	5	10	20450	829	5	10	20600	844	66	20	66886	2155	66	20	67236	2190	23.13	24.27
	2A-7A-7A-6A-6A-6A	2	20	18700	1860	QPSK190	7	20	20850	2010	7	20	21350	2560	66	20	66886	2155	66	20	67236	2190	23.15	24.27
	2A-13A-4B-6A	2	20	18700	1860	QPSK190	13	10	23230	782	48	20	56244	3650.4	48	20	56442	3670.2	48	20	56640	3690	23.19	24.27
	2A-7C-6A-6A-6A	2	20	18700	1860	QPSK190	7	20	21152	2540.2	7	20	21350	2560	66	20	66886	2155	66	20	67236	2190	23.08	24.27
	2A-4B-6A-6A-6A	2	20	18700	1860	QPSK190	48	20	56244	3650.4	48	20	56442	3670.2	48	20	56640	3690	66	20	67236	2190	23.03	24.27
	4A-4B-6A	4	20	20650	1720	QPSK190	48	20	56340	3650	48	20	56538	3579.8	48	20	56736	3599.6	48	5	56853	3611.3	23.11	24.26
	5A-7C-6A-6A-6A	5	10	20450	829	QPSK190	7	20	21152	2540.2	7	20	21350	2560	66	20	66886	2155	66	20	67236	2190	23.15	24.37
	7A-7A-25A-25A-6A-6A	7	20	20850	2510	QPSK190	7	20	21350	2560	25	20	26140	1860	25	20	26590	1905	66	20	67236	2190	23.15	24.13
	13A-4B-6A	13	10	23230	782	QPSK190	48	20	56244	3650.4	48	20	56442	3670.2	48	20	56640	3690	66	20	67236	2190	23.17	24.37
	13A-4B-6A	13	10	23230	782	QPSK190	48	20	56340	3660	48	20	56538	3579.8	48	20	56736	3599.6	48	5	56853	3611.3	23.36	24.37
	41C-41D	41	20	39750	2506	QPSK190	41	20	39948	2525.8	41	20	41094	2640.4	41	20	41292	2660.2	41	20	41490	2680	23.15	24.07
	48E-6A	48	20	56340	3560	QPSK190	48	20	56538	3579.8	48	20	56736	3599.6	48	5	56853	3611.3	66	20	67236	2190	23.13	24.45

SCC LTE Downlink																												
Configure	CA Configuration	SCC1					SCC2					SCC3					SCC4					Power						
		Band	BW (MHz)	UL Freq (MHz)	UL Mode (Modulation)	UL Freq (MHz)	Band	BW (MHz)	DL Freq (MHz)	DL Mode (Modulation)	DL Freq (MHz)	Band	BW (MHz)	DL Freq (MHz)	DL Mode (Modulation)	DL Freq (MHz)	Band	BW (MHz)	DL Freq (MHz)	DL Mode (Modulation)	CA TX (dBm)	Rel 8 TX (dBm)						
Inter-band	2A-48E-6A	2	20	18700	1860	QPSK190	48	20	56340	3660	48	20	56538	3579.8	48	20	56736	3599.6	48	5	56853	3611.3	66	20	67236	2190	23.15	24.27

2G LTE Downlink													
Configure	CA Configuration	PCC				SCC				Power			
		Band	BW (MHz)	UL Freq (MHz)	UL Mode (Modulation/RS-OFDM)	Band	BW (MHz)	DL Channel	DL Freq (MHz)	CA TX (dBm)	Rel 8 TX (dBm)		
Intra-band&Inter-band	n2A-n4A	n2	20	372000	1800	QPSK/161	n41	40	634000	2670	23.29	24.25	
	n2A-n25A	n12	15	141300	706.5	QPSK/161	n25	40	379000	1895	23.02	24.25	
	n7A-n78A	n77	100	633334	3500.01	QPSK/161	n78	100	650000	3750	23.28	24.24	
	n7A-n78A	n78	100	633334	3500.01	QPSK/161	n78	100	650000	3750	23.18	24.23	
	n8B	n48	40	642668	3640.02	QPSK/161	n48	40	644032	3679.98	23.22	24.22	
	n8C	n48	40	639000	3570	QPSK/161	n48	40	645332	3679.98	23.22	24.22	
	n77C	n77	100	623334	3350.1	QPSK/161	n77	100	676666	4149.99	23.17	24.24	
	n78C	n78	100	643332	3650.04	QPSK/161	n78	100	650000	3750	23.08	24.23	
3G LTE Downlink													
Configure	CA Configuration	PCC				SCC1				SCC2			
		Band	BW (MHz)	UL Freq (MHz)	UL Mode (Modulation/RS-OFDM)	Band	BW (MHz)	DL Channel	DL Freq (MHz)	Band	BW (MHz)	DL Channel	DL Freq (MHz)
Intra-band&Inter-band	n2A-n2A-n25A	n2	20	372000	1800	QPSK/161	n5	20	167800	839	n26	10	462000
	n2A-n2A-n25A	n2	20	372000	1800	QPSK/161	n5	20	167800	839	n66	40	352000
	n2A-n2A-n77A	n2	20	372000	1800	QPSK/161	n5	20	167800	839	n77	100	662000
	n2A-n77A-n78A	n2	20	372000	1800	QPSK/161	n7	40	510000	2550	n7	40	510000
	n2A-n78A-n8B	n2	20	372000	1800	QPSK/161	n12	15	141700	706.5	n66	40	352000
	n2A-n78A-n8B	n2	20	372000	1800	QPSK/161	n12	15	141700	706.5	n77	100	662000
	n2A-n30A-n66A	n2	20	372000	1800	QPSK/161	n30	10	462000	2310	n66	40	352000
	n2A-n30A-n77A	n2	20	372000	1800	QPSK/161	n30	10	462000	2310	n77	100	662000
	n2A-n66A-n77A	n2	20	372000	1800	QPSK/161	n66	40	352000	1760	n77	100	662000
	n2A-n66A-n77A	n2	20	372000	1800	QPSK/161	n66	40	352000	1760	n77	100	662000
Intra-band&Inter-band	n2A-n66A-n78A	n2	20	372000	1800	QPSK/161	n66	40	352000	1760	n78	100	660000
	n2A-n71A-n78A	n2	20	372000	1800	QPSK/161	n71	20	137600	688	n78	100	660000
	n2A-n77A-n78A	n2	20	372000	1800	QPSK/161	n77	100	662000	3930	n77	100	662000
	n2A-n78A-n78A	n2	20	372000	1800	QPSK/161	n78	100	660000	3750	n78	100	660000
	n2A-n8B	n2	20	372000	1800	QPSK/161	n5	10	166800	834.1	n5	10	177600
	n2A-n8B	n2	20	372000	1800	QPSK/161	n66	40	352000	1760	n66	10	436860
	n2A-n77C	n2	20	372000	1800	QPSK/161	n77	100	623334	3350.1	n77	100	676666
	n5A-n5A-n77A	n5	20	166800	834	QPSK/161	n5	20	167800	839	n77	100	662000
	n5A-n71A-n77A	n5	20	166800	834	QPSK/161	n7	40	510000	2550	n77	100	662000
	n5A-n71A-n78A	n5	20	166800	834	QPSK/161	n7	40	510000	2550	n78	100	660000
Intra-band&Inter-band	n5A-n25A-n66A	n5	20	166800	834	QPSK/161	n25	40	379000	1895	n66	40	352000
	n5A-n25A-n77A	n5	20	166800	834	QPSK/161	n25	40	379000	1895	n77	100	662000
	n5A-n30A-n77A	n5	20	166800	834	QPSK/161	n25	40	379000	1895	n78	100	660000
	n5A-n30A-n8B	n5	20	166800	834	QPSK/161	n30	10	462000	2310	n66	40	352000
	n5A-n30A-n77A	n5	20	166800	834	QPSK/161	n30	10	462000	2310	n77	100	662000
	n5A-n66A-n78A	n5	20	166800	834	QPSK/161	n66	40	352000	1760	n77	100	662000
	n5A-n77A-n77A	n5	20	166800	834	QPSK/161	n77	100	662000	3930	n78	100	660000
	n5A-n77A-n78A	n5	20	166800	834	QPSK/161	n78	100	660000	3750	n77	100	662000
	n5A-n78A-n78A	n5	20	166800	834	QPSK/161	n78	100	660000	3750	n78	100	660000
	n5A-n77C	n5	20	166800	834	QPSK/161	n77	100	623334	3350.1	n77	100	676666
Intra-band&Inter-band	n7A-n25A-n66A	n7	40	504000	2520	QPSK/161	n25	40	379000	1895	n66	40	352000
	n7A-n25A-n77A	n7	40	504000	2520	QPSK/161	n25	40	379000	1895	n77	100	662000
	n7A-n25A-n78A	n7	40	504000	2520	QPSK/161	n25	40	379000	1895	n78	100	660000
	n7A-n5A-n78A	n7	40	504000	2520	QPSK/161	n26	20	167800	839	n78	100	660000
	n7A-n66A-n77A	n7	40	504000	2520	QPSK/161	n66	40	352000	1760	n77	100	662000
	n7A-n66A-n78A	n7	40	504000	2520	QPSK/161	n66	40	352000	1760	n78	100	660000
	n7A-n71A-n77A	n7	40	504000	2520	QPSK/161	n71	20	137600	688	n77	100	662000
	n7A-n71A-n78A	n7	40	504000	2520	QPSK/161	n71	20	137600	688	n78	100	660000
	n7A-n77A-n77A	n7	40	504000	2520	QPSK/161	n77	100	662000	3930	n77	100	662000
	n7A-n78A-n78A	n7	40	504000	2520	QPSK/161	n78	100	660000	3750	n78	100	660000
Intra-band&Inter-band	n7A-n8B	n7	40	504000	2520	QPSK/161	n78	100	643332	3650.04	n78	100	660000
	n12A-n66A-n78A	n12	15	141300	706.5	QPSK/161	n66	40	352000	1760	n78	100	660000
	n12A-n77A-n77A	n12	15	141300	706.5	QPSK/161	n77	100	662000	3930	n77	100	662000
	n25A-n25A-n25A	n25	40	374000	1870	QPSK/161	n25	40	379000	1895	n25	40	379000
	n25A-n30A-n78A	n25	40	374000	1870	QPSK/161	n38	40	520000	2600	n78	100	660000
	n25A-n41A-n41A	n25	40	374000	1870	QPSK/161	n41	40	534000	2670	n41	40	534000
	n25A-n41A-n78A	n25	40	374000	1870	QPSK/161	n41	40	534000	2670	n71	20	137600
	n25A-n41A-n77A	n25	40	374000	1870	QPSK/161	n41	40	534000	2670	n77	100	662000
	n25A-n41A-n78A	n25	40	374000	1870	QPSK/161	n41	40	534000	2670	n78	100	660000
	n25A-n66A-n77A	n25	40	374000	1870	QPSK/161	n66	40	352000	1760	n71	20	137600
Intra-band&Inter-band	n25A-n66A-n78A	n25	40	374000	1870	QPSK/161	n66	40	352000	1760	n71	20	137600
	n25A-n66A-n78A	n25	40	374000	1870	QPSK/161	n66	40	352000	1760	n71	20	137600
	n25A-n71A-n77A	n25	40	374000	1870	QPSK/161	n71	20	137600	688	n71	20	137600
	n25A-n71A-n78A	n25	40	374000	1870	QPSK/161	n71	20	137600	688	n77	100	662000
	n25A-n77A-n77A	n25	40	374000	1870	QPSK/161	n77	100	662000	3930	n78	100	660000
	n25A-n77A-n78A	n25	40	374000	1870	QPSK/161	n77	100	662000	3930	n77	100	662000
	n25A-n78A-n78A	n25	40	374000	1870	QPSK/161	n78	100	660000	3750	n78	100	660000
	n25A-n71B	n25	40	374000	1870	QPSK/161	n71	20	134600	673	n71	20	137600
	n5A-n41C	n25	40	374000	1870	QPSK/161	n41	40	514556	2570.28	n41	10	528000
	n66A-n66A-n78A	n66	40	352000	1760	QPSK/161	n66	40	352000	1760	n77	100	662000
Intra-band&Inter-band	n30A-n77A-n77A	n30	10	462000	2310	QPSK/161	n77	100	662000	3930	n77	100	662000
	n30A-n78A-n78A	n30	10	462000	2310	QPSK/161	n78	100	660000	3750	n78	100	660000
	n30A-n78A-n78A	n30	10	462000	2310	QPSK/161	n78	100	660000	3750	n78	100	660000
	n41A-n41A-n41A	n41	40	503202	2516.01	QPSK/161	n41	40	534000	2670	n41	40	534000
	n41A-n41A-n78A	n41	40	503202	2516.01	QPSK/161	n41	40	534000	2670	n71	20	137600
	n41A-n41A-n77A	n41	40	503202	2516.01	QPSK/161	n41	40	534000	2670	n77	100	662000
	n41A-n66A-n71A	n41	40	503202	2516.01	QPSK/161	n66	40	352000	1760	n71	20	137600
	n41A-n66A-n77A	n41	40	503202	2516.01	QPSK/161	n66	40	352000	1760	n77	100	662000
	n41A-n66A-n78A	n41	40	503202	2516.01	QPSK/161	n66	40	352000	1760	n78	100	660000
	n41A-n71A-n71A	n41	40	503202	2516.01	QPSK/161	n71	20	137600	688	n71	20	137600
Intra-band&Inter-band	n41A-n71A-n78A	n41	40	503202	2516.01	QPSK/161	n71	20	137600	688	n78	100	660000
	n41A-n71A-n77A	n41	40	503202	2516.01	QPSK/161	n71	20	137600	688	n77	100	662000
	n41A-n77A-n77A	n41	40	503202	2516.01	QPSK/161	n77	100	662000	3930	n77	100	662000
	n41A-n77A-n78A	n41	40	503202	2516.01	QPSK/161	n77	100	662000	3930	n78	100	660000
	n41A-n78A-n78A	n41	40	503202	2516.01	QPSK/161	n78	100	660000	3750	n78	100	660000
	n41A-n71B	n41	40	503202	2516.01	QPSK/161	n71	20	134600	673	n71	20	137600
	n41A-n41C	n41	40	503202	2516.01	QPSK/161	n41	40</					



n25A-n25A-n78A-n78A	n25	40	374000	1870	QP3K/181	n25	40	379000	1895	n78	100	650000	3750	n78	100	650000	3750	23.14	24.26
n25A-n25A-n71B	n25	40	374000	1870	QP3K/181	n25	40	379000	1895	n71	20	134600	673	n71	20	137600	688	23.19	24.26
n25A-n25A-n71C	n25	40	374000	1870	QP3K/181	n25	40	379000	1895	n41	40	514056	2570.28	n41	10	528000	2640	23.21	24.26
n25A-n38A-n66A-n66A	n25	40	374000	1870	QP3K/181	n38	40	520000	2600	n66	40	352000	1760	n66	40	352000	1760	23.18	24.26
n25A-n41A-n66A-n66A	n25	40	374000	1870	QP3K/181	n41	40	534000	2670	n66	40	352000	1760	n66	40	352000	1760	23.14	24.26
n25A-n66A-n66A-n71A	n25	40	374000	1870	QP3K/181	n66	40	352000	1760	n66	40	352000	1760	n71	20	137600	688	23.09	24.26
n25A-n66A-n66A-n71A	n25	40	374000	1870	QP3K/181	n66	40	352000	1760	n66	40	352000	1760	n77	100	676666	4149.99	23.09	24.26
n25A-n66A-n66A-n78A	n25	40	374000	1870	QP3K/181	n66	40	352000	1760	n66	40	352000	1760	n78	100	650000	3750	23.14	24.26
n30A-n66A-n66A-n77A	n30	10	462000	2310	QP3K/181	n66	40	352000	1760	n66	40	352000	1760	n77	100	676666	4149.99	22.02	23.03
n38A-n66A-n66A-n78A	n38	40	518000	2590	QP3K/181	n66	40	352000	1760	n66	40	352000	1760	n78	100	650000	3750	23.18	24.22
n41A-n41A-n66A-n66A	n41	40	503202	2516.01	QP3K/181	n41	40	534000	2670	n66	40	352000	1760	n66	40	352000	1760	23.19	24.18
n41A-n66A-n66A-n71A	n41	40	503202	2516.01	QP3K/181	n66	40	352000	1760	n66	40	352000	1760	n71	20	137600	688	23.24	24.18
n41A-n66A-n66A-n77A	n41	40	503202	2516.01	QP3K/181	n66	40	352000	1760	n66	40	352000	1760	n77	100	676666	4149.99	23.19	24.18
n66A-n66A-n66A-n77A	n66	40	346000	1730	QP3K/181	n66	40	352000	1760	n66	40	352000	1760	n77	100	676666	4149.99	22.94	24.07
n66A-n66A-n71A-n71A	n66	40	346000	1730	QP3K/181	n66	40	352000	1760	n71	20	137600	688	n71	20	137600	688	23.04	24.07
n66A-n66A-n71A-n71A	n66	40	346000	1730	QP3K/181	n66	40	352000	1760	n71	20	137600	688	n77	100	676666	4149.99	22.97	24.07
n66A-n66A-n71A-n78A	n66	40	346000	1730	QP3K/181	n66	40	352000	1760	n71	20	137600	688	n78	100	650000	3750	23.02	24.07
n66A-n66A-n77A-n77A	n66	40	346000	1730	QP3K/181	n66	40	352000	1760	n77	100	676666	4149.99	n77	100	676666	4149.99	22.89	24.07
n66A-n66A-n78A-n78A	n66	40	346000	1730	QP3K/181	n66	40	352000	1760	n78	100	650000	3750	n78	100	650000	3750	22.98	24.07
n66A-n66A-n71B	n66	40	346000	1730	QP3K/181	n66	40	352000	1760	n71	20	134600	673	n71	20	137600	688	23.01	24.07
n66A-n66A-n77C	n66	40	346000	1730	QP3K/181	n66	40	352000	1760	n77	100	623334	3350.1	n77	100	676666	4149.99	22.91	24.07
n66B-n77C	n66	10	166820	834.1	QP3K/181	n66	10	177800	889	n77	100	623334	3350.1	n77	100	676666	4149.99	22.85	23.96
n66B-n77C	n66	40	352000	1760	QP3K/181	n66	40	436860	2184.3	n77	100	623334	3350.1	n77	100	676666	4149.99	23.07	24.07
n41C-n66A-n66A	n41	40	514056	2570.28	QP3K/181	n41	10	528000	2640	n66	40	352000	1760	n66	40	352000	1760	23.21	24.18

[illegible]

ANT 1								
Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
BR / EDR	CH 00	2402	13.84	15.50	10.91	12.50	11.77	13.50
	CH 39	2441	13.54	15.50	10.24	12.00	11.15	13.00
	CH 78	2480	13.08	15.00	10.16	12.00	10.81	12.50
Duty Cycle %			76.69		63.55		77.15	
Power Setting			11		10		10	

ANT 8								
Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
BR / EDR	CH 00	2402	16.84	18.50	13.37	15.00	14.02	16.00
	CH 39	2441	16.04	18.00	12.90	14.50	13.51	15.50
	CH 78	2480	16.14	18.00	12.91	14.50	13.81	15.50
Duty Cycle %			76.75		63.55		77.15	
Power Setting			11		11		11	

ANT 9								
Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
BR / EDR	CH 00	2402	16.32	18.00	12.46	14.00	13.39	15.00
	CH 39	2441	15.97	17.50	12.52	14.50	12.88	14.50
	CH 78	2480	15.07	17.00	11.22	13.00	12.03	14.00
Duty Cycle %			76.75		63.55		77.15	
Power Setting			11		11		11	

ANT 1						
Mode	Channel	Frequency (MHz)	1Mbps		2Mbps	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
LE	CH 00	2402	12.49	14.00	9.63	11.50
	CH 19	2440	12.05	14.00	9.46	11.00
	CH 39	2480	11.91	13.50	9.26	11.00
Duty Cycle %			63.52		34.08	

ANT 8						
Mode	Channel	Frequency (MHz)	1Mbps		2Mbps	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
LE	CH 00	2402	11.91	13.50	13.33	15.00
	CH 19	2440	16.17	18.00	12.74	14.50
	CH 39	2480	15.65	17.50	12.98	14.50
Duty Cycle %			63.52		34.08	

ANT 9						
Mode	Channel	Frequency (MHz)	1Mbps		2Mbps	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
LE	CH 00	2402	15.19	17.00	12.86	14.50
	CH 19	2440	14.86	16.50	11.90	13.50
	CH 39	2480	14.08	16.00	11.56	13.50
Duty Cycle %			64		34.53	

Reduced Power Level 1

ANT 5									
GSM1900		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Ch Delta > 0.5
TX Channel		512	661	810		512	661	810	
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot		28.05	28.09	28.04	29.00	19.05	19.09	19.04	20.00
GPRS 1 Tx slot		28.06	28.10	28.06	29.00	19.06	19.10	19.06	20.00
GPRS 2 Tx slots		25.11	25.15	25.14	26.00	19.11	19.15	19.14	20.00
GPRS 3 Tx slots		23.16	23.23	23.18	24.20	18.90	18.97	18.92	19.94
GPRS 4 Tx slots		22.48	22.53	22.51	23.50	19.48	19.53	19.51	20.50
EDGE 1 Tx slot		24.11	24.12	24.14	25.00	15.11	15.12	15.14	16.00
EDGE 2 Tx slots		21.10	21.16	21.15	22.00	15.10	15.16	15.15	16.00
EDGE 3 Tx slots		19.70	19.83	19.75	20.80	15.44	15.57	15.49	16.54
EDGE 4 Tx slots		19.55	19.65	19.59	20.60	16.55	16.65	16.59	17.60
Mode			Max.	28.10			Max.	19.53	
Attenuator		Cable Loss : 0.8							

ANT 6									
GSM1900		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Ch Delta > 0.5
TX Channel		512	661	810		512	661	810	
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot		25.83	25.87	25.82	26.70	16.83	16.87	16.82	17.70
GPRS 1 Tx slot		25.84	25.88	25.84	26.70	16.84	16.88	16.84	17.70
GPRS 2 Tx slots		22.89	22.93	22.92	23.70	16.89	16.93	16.92	17.70
GPRS 3 Tx slots		20.94	21.01	20.96	21.90	16.68	16.75	16.70	17.64
GPRS 4 Tx slots		20.26	20.31	20.29	21.20	17.26	17.31	17.29	18.20
EDGE 1 Tx slot		21.89	21.90	21.92	22.70	12.89	12.90	12.92	13.70
EDGE 2 Tx slots		18.88	18.94	18.93	19.70	12.88	12.94	12.93	13.70
EDGE 3 Tx slots		17.48	17.61	17.53	18.50	13.22	13.35	13.27	14.24
EDGE 4 Tx slots		17.33	17.43	17.37	18.30	14.33	14.43	14.37	15.30
Mode			Max.	25.88			Max.	17.31	
Attenuator		Cable Loss : 0.8							

ANT 5									
Band		WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513	
Rx Channel		9662	9800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	RMC 12.2Kbps	19.58	19.61	19.60	20.30	19.61	19.62	19.58	20.30
3GPP Rel 5	HSDPA Subtest-1	18.62	18.61	18.65	19.30	18.55	18.54	18.58	19.30
3GPP Rel 5	HSDPA Subtest-2	18.65	18.66	18.64	19.30	18.58	18.59	18.57	19.30
3GPP Rel 5	HSDPA Subtest-3	18.08	18.09	18.08	18.80	18.01	18.02	18.01	18.80
3GPP Rel 5	HSDPA Subtest-4	18.06	18.08	18.07	18.80	17.99	18.01	18.00	18.80
3GPP Rel 8	DC-HSDPA Subtest-1	18.65	18.66	18.62	19.30	18.58	18.59	18.55	19.30
3GPP Rel 8	DC-HSDPA Subtest-2	18.64	18.62	18.65	19.30	18.57	18.55	18.58	19.30
3GPP Rel 8	DC-HSDPA Subtest-3	17.98	18.01	17.94	18.80	17.91	17.94	17.87	18.80
3GPP Rel 8	DC-HSDPA Subtest-4	17.97	18.02	17.98	18.80	17.90	17.95	17.91	18.80
3GPP Rel 6	HSUPA Subtest-1	18.65	18.68	18.60	19.30	18.58	18.55	18.53	19.30
3GPP Rel 6	HSUPA Subtest-2	16.62	16.60	16.63	17.30	16.55	16.53	16.56	17.30
3GPP Rel 6	HSUPA Subtest-3	17.58	17.61	17.59	18.30	17.51	17.54	17.52	18.30
3GPP Rel 6	HSUPA Subtest-4	16.59	16.61	16.62	17.30	16.52	16.54	16.55	17.30
3GPP Rel 6	HSUPA Subtest-5	18.62	18.65	18.62	19.30	18.55	18.58	18.55	19.30
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	17.08	17.09	16.98	17.80	17.01	17.02	16.91	17.80
Attenuator		Cable Loss				Cable Loss			
Mode			Max.	19.61			Max.	19.62	

ANT 4									
Band		WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513	
Rx Channel		9662	9800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	RMC 12.2Kbps	16.62	16.64	16.63	17.30	17.14	17.15	17.12	17.80
3GPP Rel 5	HSDPA Subtest-1	16.59	16.58	16.62	17.30	17.02	17.01	17.05	17.80
3GPP Rel 5	HSDPA Subtest-2	16.62	16.63	16.61	17.30	17.05	17.06	17.04	17.80
3GPP Rel 5	HSDPA Subtest-3	16.05	16.06	16.05	16.80	16.48	16.49	16.48	17.30
3GPP Rel 5	HSDPA Subtest-4	16.03	16.05	16.04	16.80	16.46	16.48	16.47	17.30
3GPP Rel 8	DC-HSDPA Subtest-1	16.62	16.63	16.59	17.30	17.05	17.06	17.02	17.80
3GPP Rel 8	DC-HSDPA Subtest-2	16.61	16.59	16.62	17.30	17.04	17.02	17.05	17.80
3GPP Rel 8	DC-HSDPA Subtest-3	15.95	15.98	15.91	16.80	16.38	16.41	16.34	17.30
3GPP Rel 8	DC-HSDPA Subtest-4	15.94	15.99	15.95	16.80	16.37	16.42	16.38	17.30
3GPP Rel 6	HSUPA Subtest-1	16.62	16.65	16.57	17.30	17.05	17.02	17.00	17.80
3GPP Rel 6	HSUPA Subtest-2	14.59	14.57	14.60	15.30	15.02	15.00	15.03	15.80
3GPP Rel 6	HSUPA Subtest-3	15.55	15.58	15.56	16.30	15.98	16.01	15.99	16.80
3GPP Rel 6	HSUPA Subtest-4	14.56	14.58	14.59	15.30	14.99	15.01	15.02	15.80
3GPP Rel 6	HSUPA Subtest-5	16.59	16.62	16.59	17.30	17.02	17.05	17.02	17.80
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	15.05	15.06	14.95	15.80	15.48	15.49	15.38	16.30
Attenuator		Cable Loss				Cable Loss			
Mode			Max.	16.65			Max.	17.15	

Band 2 (1900MHz Band) (dBm)-ANT 5											
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)				
Channel				18700	18900	19100					
Frequency (MHz)				1860	1880	1900					
20	QPSK	1	0	20.25	20.27	20.20	21				
20	QPSK	1	49	20.24	20.26	20.19					
20	QPSK	1	99	20.16	20.23	20.20					
20	QPSK	50	0	19.30	19.42	19.31	20				
20	QPSK	50	24	19.34	19.28	19.26					
20	QPSK	50	50	19.31	19.34	19.27					
20	QPSK	100	0	19.34	19.35	19.24	20				
20	16QAM	1	0	19.61	19.52	19.35					
20	16QAM	1	49	19.49	19.58	19.53					
20	16QAM	1	99	19.59	19.36	19.63	19				
20	16QAM	50	0	18.42	18.37	18.41					
20	16QAM	50	24	18.51	18.36	18.35					
20	16QAM	50	50	18.38	18.41	18.43	19				
20	16QAM	100	0	18.36	18.38	18.34					
20	64QAM	1	0	18.46	18.60	18.55					
20	64QAM	1	49	18.49	18.53	18.43	19				
20	64QAM	1	99	18.59	18.47	18.29					
20	64QAM	50	0	18.44	18.33	18.33					
20	64QAM	50	24	18.27	18.28	18.35	19				
20	64QAM	50	50	18.40	18.33	18.38					
20	64QAM	100	0	18.32	18.35	18.34					
20	256QAM	1	0	14.47	14.62	14.57	15				
20	256QAM	1	49	14.50	14.55	14.45					
20	256QAM	1	99	14.60	14.49	14.31					
20	256QAM	50	0	14.45	14.35	14.35	15				
20	256QAM	50	24	14.28	14.30	14.37					
20	256QAM	50	50	14.41	14.35	14.40					
20	256QAM	100	0	14.33	14.37	14.36	21				
Channel				18675	18900	19125	Tune-up limit (dBm)				
Frequency (MHz)				1857.5	1880	1902.5					
15	QPSK	1	0	20.17	20.22	20.13	21				
15	QPSK	1	37	20.21	20.22	20.16					
15	QPSK	1	74	20.07	20.22	20.19					
15	QPSK	36	0	19.26	19.32	19.21	20				
15	QPSK	36	20	19.40	19.21	19.22					
15	QPSK	36	39	19.30	19.27	19.18					
15	QPSK	75	0	19.29	19.27	19.14	20				
15	16QAM	1	0	19.57	19.46	19.29					
15	16QAM	1	37	19.56	19.68	19.48					
15	16QAM	1	74	19.61	19.76	19.62	19				
15	16QAM	36	0	18.41	18.28	18.35					
15	16QAM	36	20	18.47	18.27	18.27					
15	16QAM	36	39	18.34	18.39	18.41	19				
15	16QAM	75	0	18.26	18.34	18.33					
15	64QAM	1	0	18.43	18.59	18.50					
15	64QAM	1	37	18.43	18.43	18.38	19				
15	64QAM	1	74	18.57	18.42	18.23					
15	64QAM	36	0	18.41	18.23	18.26					
15	64QAM	36	20	18.18	18.25	18.28	19				
15	64QAM	36	39	18.36	18.31	18.30					
15	64QAM	75	0	18.26	18.32	18.33					
15	256QAM	1	0	14.46	14.54	14.49	15				
15	256QAM	1	37	14.41	14.52	14.35					
15	256QAM	1	74	14.54	14.39	14.26					
15	256QAM	36	0	14.42	14.32	14.30	15				
15	256QAM	36	20	14.21	14.25	14.35					
15	256QAM	36	39	14.31	14.25	14.33					
15	256QAM	75	0	14.23	14.31	14.29	21				
Channel				18650	18900	19150	Tune-up limit (dBm)				
Frequency (MHz)				1855	1880	1905					
10	QPSK	1	0	20.24	20.25	20.18	21				
10	QPSK	1	25	20.17	20.21	20.13					
10	QPSK	1	49	20.08	20.22	20.12					
10	QPSK	25	0	19.24	19.41	19.26	20				
10	QPSK	25	12	19.32	19.19	19.25					
10	QPSK	25	25	19.22	19.32	19.20					
10	QPSK	50	0	19.25	19.31	19.18	20				
10	16QAM	1	0	19.55	19.47	19.28					
10	16QAM	1	25	19.55	19.72	19.52					
10	16QAM	1	49	19.57	19.77	19.58	19				
10	16QAM	25	0	18.34	18.33	18.36					
10	16QAM	25	12	18.43	18.29	18.31					
10	16QAM	25	25	18.37	18.32	18.39	19				
10	16QAM	50	0	18.35	18.32	18.25					
10	64QAM	1	0	18.36	18.51	18.53					
10	64QAM	1	25	18.47	18.52	18.41	19				
10	64QAM	1	49	18.54	18.40	18.19					
10	64QAM	25	0	18.43	18.23	18.24					
10	64QAM	25	12	18.19	18.25	18.29	19				
10	64QAM	25	25	18.36	18.31	18.32					
10	64QAM	50	0	18.25	18.26	18.32					
10	256QAM	1	0	14.38	14.53	14.47	15				
10	256QAM	1	25	14.48	14.51	14.38					
10	256QAM	1	49	14.57	14.46	14.26					
10	256QAM	25	0	14.41	14.33	14.29	15				
10	256QAM	25	12	14.22	14.22	14.29					
10	256QAM	25	25	14.35	14.33	14.35					
10	256QAM	50	0	14.28	14.34	14.32	21				
Channel				18625	18900	19175	Tune-up limit (dBm)				
Frequency (MHz)				1852.5	1880	1907.5					
5	QPSK	1	0	20.23	20.23	20.14	21				
5	QPSK	1	12	20.14	20.16	20.18					
5	QPSK	1	24	20.15	20.21	20.11					
5	QPSK	12	0	19.21	19.37	19.25	20				
5	QPSK	12	7	19.35	19.23	19.17					
5	QPSK	12	13	19.28	19.28	19.17					
5	QPSK	25	0	19.32	19.31	19.16	20				
5	16QAM	1	0	19.27	19.26	19.07					

Band 2 (1900MHz Band) (dBm)-ANT 0								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	17.75	17.77	17.70	18.6	
20	QPSK	1	49	17.74	17.76	17.69		
20	QPSK	1	99	17.68	17.73	17.70		
20	QPSK	50	0	16.80	16.92	16.81	17.6	
20	QPSK	50	24	16.84	16.78	16.76		
20	QPSK	50	50	16.81	16.84	16.77		
20	QPSK	100	0	16.84	16.85	16.74	17.6	
20	16QAM	1	0	17.11	17.02	16.85		
20	16QAM	1	49	16.99	17.08	17.03		
20	16QAM	1	99	17.09	16.86	17.13	16.6	
20	16QAM	50	0	15.80	15.75	15.79		
20	16QAM	50	24	16.01	15.86	15.85		
20	16QAM	50	50	15.88	15.91	15.93	16.6	
20	16QAM	100	0	15.86	15.88	15.84		
20	64QAM	1	0	15.96	16.10	16.05		
20	64QAM	1	49	15.99	16.03	15.93	16.6	
20	64QAM	1	99	16.09	15.97	15.79		
20	64QAM	50	0	15.94	15.83	15.83		
20	64QAM	50	24	15.77	15.78	15.85	16.6	
20	64QAM	50	50	15.90	15.83	15.88		
20	64QAM	100	0	15.82	15.85	15.84		
20	256QAM	1	0	11.97	12.12	12.07	12.6	
20	256QAM	1	49	12.00	12.05	11.95		
20	256QAM	1	99	12.10	11.99	11.81		
20	256QAM	50	0	11.95	11.85	11.85	12.6	
20	256QAM	50	24	11.78	11.80	11.87		
20	256QAM	50	50	11.91	11.85	11.90		
20	256QAM	100	0	11.83	11.87	11.86		
Channel				18675	18900	19125	Tune-up limit (dBm)	
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	17.79	17.84	17.75	18.6	
15	QPSK	1	37	17.83	17.84	17.78		
15	QPSK	1	74	17.69	17.84	17.81		
15	QPSK	36	0	16.88	16.94	16.83	17.6	
15	QPSK	36	20	17.02	16.83	16.84		
15	QPSK	36	39	16.92	16.89	16.80		
15	QPSK	75	0	16.91	16.89	16.76	17.6	
15	16QAM	1	0	17.07	16.96	16.79		
15	16QAM	1	37	17.06	17.18	16.98		
15	16QAM	1	74	17.11	17.26	17.12	16.6	
15	16QAM	36	0	15.91	15.78	15.85		
15	16QAM	36	20	15.97	15.77	15.77		
15	16QAM	36	39	15.84	15.89	15.91	16.6	
15	16QAM	75	0	15.76	15.84	15.83		
15	64QAM	1	0	15.93	16.09	16.00		
15	64QAM	1	37	15.93	15.93	15.88	16.6	
15	64QAM	1	74	16.07	15.92	15.73		
15	64QAM	36	0	15.91	15.73	15.76		
15	64QAM	36	20	15.68	15.75	15.78	16.6	
15	64QAM	36	39	15.86	15.81	15.80		
15	64QAM	75	0	15.76	15.82	15.83		
15	256QAM	1	0	11.96	12.04	11.99	12.6	
15	256QAM	1	37	11.91	12.02	11.85		
15	256QAM	1	74	12.04	11.89	11.76		
15	256QAM	36	0	11.92	11.82	11.80	12.6	
15	256QAM	36	20	11.71	11.75	11.85		
15	256QAM	36	39	11.81	11.75	11.83		
15	256QAM	75	0	11.85	11.93	11.91		
Channel				18650	18900	19150	Tune-up limit (dBm)	
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	17.86	17.87	17.80	18.6	
10	QPSK	1	25	17.79	17.83	17.75		
10	QPSK	1	49	17.70	17.84	17.74		
10	QPSK	25	0	16.86	17.03	16.88	17.6	
10	QPSK	25	12	16.82	16.69	16.75		
10	QPSK	25	25	16.72	16.82	16.70		
10	QPSK	50	0	16.75	16.81	16.68	17.6	
10	16QAM	1	0	17.05	16.97	16.78		
10	16QAM	1	25	17.05	17.22	17.02		
10	16QAM	1	49	17.07	17.27	17.08	16.6	
10	16QAM	25	0	15.84	15.83	15.86		
10	16QAM	25	12	15.93	15.79	15.81		
10	16QAM	25	25	15.87	15.82	15.89	16.6	
10	16QAM	50	0	15.85	15.82	15.75		
10	64QAM	1	0	15.86	16.01	16.03		
10	64QAM	1	25	15.97	16.02	15.91	16.6	
10	64QAM	1	49	16.04	15.90	15.69		
10	64QAM	25	0	15.93	15.73	15.74		
10	64QAM	25	12	15.69	15.75	15.79	16.6	
10	64QAM	25	25	15.86	15.81	15.82		
10	64QAM	50	0	15.75	15.76	15.82		
10	256QAM	1	0	11.88	12.03	11.97	12.6	
10	256QAM	1	25	11.98	12.01	11.88		
10	256QAM	1	49	12.07	11.96	11.76		
10	256QAM	25	0	11.91	11.83	11.79	12.6	
10	256QAM	25	12	11.72	11.72	11.79		
10	256QAM	25	25	11.85	11.83	11.85		
10	256QAM	50	0	11.78	11.84	11.82		
Channel				18625	18900	19175	Tune-up limit (dBm)	
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	17.85	17.85	17.76	18.6	
5	QPSK	1	12	17.76	17.78	17.80		
5	QPSK	1	24	17.77	17.83	17.73		
5	QPSK	12	0	16.83	16.99	16.87	17.6	
5	QPSK	12	7	16.85	16.73	16.67		
5	QPSK	12	13	16.78	16.78	16.67		
5	QPSK	25	0	16.82	16.81	16.66	17.6	
5	16QAM	1	0	16.77	16.76	16.57		

5	16QAM	1	12	19.30	19.46	19.27	20
5	16QAM	1	24	19.35	19.46	19.31	
5	16QAM	12	0	18.16	18.06	18.13	
5	16QAM	12	7	18.17	18.07	18.03	19
5	16QAM	12	13	18.09	18.09	18.15	
5	16QAM	25	0	18.03	18.05	18.01	
5	64QAM	1	0	18.13	18.33	18.25	
5	64QAM	1	12	18.16	18.24	18.14	19
5	64QAM	1	24	18.32	18.20	18.01	
5	64QAM	12	0	18.42	18.32	18.30	
5	64QAM	12	7	18.24	18.21	18.29	19
5	64QAM	12	13	18.36	18.24	18.37	
5	64QAM	25	0	18.31	18.32	18.25	
5	256QAM	1	0	14.46	14.54	14.54	
5	256QAM	1	12	14.45	14.47	14.42	15
5	256QAM	1	24	14.50	14.40	14.27	
5	256QAM	12	0	14.44	14.32	14.32	
5	256QAM	12	7	14.20	14.20	14.32	15
5	256QAM	12	13	14.34	14.28	14.31	
5	256QAM	25	0	14.23	14.34	14.29	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	20.14	20.24	20.10	21
3	QPSK	1	8	20.18	20.23	20.14	
3	QPSK	1	14	20.10	20.13	20.11	
3	QPSK	8	0	19.23	19.35	19.27	20
3	QPSK	8	4	19.31	19.25	19.24	
3	QPSK	8	7	19.27	19.26	19.24	
3	QPSK	15	0	19.24	19.26	19.18	20
3	16QAM	1	0	19.27	19.27	19.04	
3	16QAM	1	8	19.31	19.45	19.27	
3	16QAM	1	14	19.37	19.48	19.36	19
3	16QAM	8	0	18.11	18.04	18.10	
3	16QAM	8	4	18.24	18.04	18.05	
3	16QAM	8	7	18.04	18.10	18.16	19
3	16QAM	15	0	18.03	18.06	18.07	
3	64QAM	1	0	18.21	18.29	18.29	
3	64QAM	1	8	18.21	18.23	18.10	19
3	64QAM	1	14	18.33	18.18	17.95	
3	64QAM	8	0	18.38	18.23	18.23	
3	64QAM	8	4	18.22	18.21	18.25	19
3	64QAM	8	7	18.31	18.25	18.34	
3	64QAM	15	0	18.25	18.27	18.31	
3	256QAM	1	0	14.40	14.52	14.56	15
3	256QAM	1	8	14.47	14.51	14.42	
3	256QAM	1	14	14.55	14.45	14.26	
3	256QAM	8	0	14.39	14.30	14.26	15
3	256QAM	8	4	14.19	14.27	14.28	
3	256QAM	8	7	14.39	14.34	14.31	
3	256QAM	15	0	14.23	14.32	14.27	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	20.14	20.22	20.11	21
1.4	QPSK	1	3	20.14	20.17	20.10	
1.4	QPSK	1	5	20.10	20.21	20.15	
1.4	QPSK	3	0	20.24	20.19	20.24	20
1.4	QPSK	3	1	20.23	20.23	20.21	
1.4	QPSK	3	3	20.21	20.25	20.25	
1.4	QPSK	6	0	19.25	19.25	19.14	20
1.4	16QAM	1	0	19.28	19.25	19.02	
1.4	16QAM	1	3	19.37	19.45	19.28	
1.4	16QAM	1	5	19.32	19.48	19.38	19
1.4	16QAM	3	0	19.10	19.10	19.13	
1.4	16QAM	3	1	19.25	19.04	19.01	
1.4	16QAM	3	3	19.07	19.14	19.09	19
1.4	16QAM	6	0	18.05	18.04	18.01	
1.4	64QAM	1	0	18.12	18.27	18.30	
1.4	64QAM	1	3	18.22	18.24	18.16	19
1.4	64QAM	1	5	18.28	18.22	18.00	
1.4	64QAM	3	0	18.12	18.05	18.08	
1.4	64QAM	3	1	17.99	18.03	18.09	19
1.4	64QAM	3	3	18.09	18.02	18.09	
1.4	64QAM	6	0	18.23	18.25	18.26	
1.4	256QAM	1	0	14.44	14.54	14.52	15
1.4	256QAM	1	3	14.48	14.53	14.38	
1.4	256QAM	1	5	14.53	14.47	14.23	
1.4	256QAM	3	0	14.38	14.34	14.30	15
1.4	256QAM	3	1	14.20	14.21	14.30	
1.4	256QAM	3	3	14.34	14.31	14.35	
1.4	256QAM	6	0	14.27	14.36	14.34	15

5	16QAM	1	12	16.80	16.96	16.77	17.6
5	16QAM	1	24	16.85	16.96	16.81	
5	16QAM	12	0	15.66	15.56	15.63	
5	16QAM	12	7	15.67	15.57	15.53	16.6
5	16QAM	12	13	15.59	15.59	15.65	
5	16QAM	25	0	15.53	15.55	15.51	
5	64QAM	1	0	15.63	15.63	15.75	
5	64QAM	1	12	15.66	15.74	15.64	16.6
5	64QAM	1	24	15.82	15.70	15.51	
5	64QAM	12	0	15.92	15.82	15.80	
5	64QAM	12	7	15.74	15.71	15.79	16.6
5	64QAM	12	13	15.86	15.74	15.87	
5	64QAM	25	0	15.81	15.82	15.75	
5	256QAM	1	0	11.96	12.04	12.04	
5	256QAM	1	12	11.95	11.97	11.92	12.6
5	256QAM	1	24	12.00	11.90	11.77	
5	256QAM	12	0	11.94	11.82	11.82	
5	256QAM	12	7	11.70	11.70	11.82	12.6
5	256QAM	12	13	11.84	11.78	11.81	
5	256QAM	25	0	11.73	11.84	11.79	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	17.76	17.86	17.72	18.6
3	QPSK	1	8	17.80	17.85	17.76	
3	QPSK	1	14	17.60	17.63	17.61	
3	QPSK	8	0	16.73	16.85	16.77	17.6
3	QPSK	8	4	16.81	16.75	16.74	
3	QPSK	8	7	16.77	16.76	16.74	
3	QPSK	15	0	16.74	16.76	16.68	17.6
3	16QAM	1	0	16.77	16.77	16.54	
3	16QAM	1	8	16.81	16.95	16.77	
3	16QAM	1	14	16.87	16.98	16.86	16.6
3	16QAM	8	0	15.61	15.54	15.60	
3	16QAM	8	4	15.74	15.54	15.55	
3	16QAM	8	7	15.54	15.60	15.66	16.6
3	16QAM	15	0	15.53	15.56	15.57	
3	64QAM	1	0	15.71	15.79	15.79	
3	64QAM	1	8	15.71	15.73	15.60	16.6
3	64QAM	1	14	15.83	15.68	15.45	
3	64QAM	8	0	15.88	15.73	15.73	
3	64QAM	8	4	15.72	15.71	15.75	16.6
3	64QAM	8	7	15.81	15.75	15.84	
3	64QAM	15	0	15.75	15.77	15.81	
3	256QAM	1	0	11.90	12.02	12.06	12.6
3	256QAM	1	8	11.97	12.01	11.92	
3	256QAM	1	14	12.05	11.95	11.76	
3	256QAM	8	0	11.89	11.80	11.76	12.6
3	256QAM	8	4	11.69	11.77	11.78	
3	256QAM	8	7	11.89	11.84	11.81	
3	256QAM	15	0	11.73	11.82	11.77	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	17.76	17.84	17.73	18.6
1.4	QPSK	1	3	17.76	17.79	17.72	
1.4	QPSK	1	5	17.60	17.71	17.65	
1.4	QPSK	3	0	17.74	17.69	17.74	17.6
1.4	QPSK	3	1	17.73	17.73	17.71	
1.4	QPSK	3	3	17.71	17.75	17.75	
1.4	QPSK	6	0	16.75	16.75	16.64	17.6
1.4	16QAM	1	0	16.78	16.75	16.52	
1.4	16QAM	1	3	16.87	16.95	16.78	
1.4	16QAM	1	5	16.82	16.98	16.88	16.6
1.4	16QAM	3	0	16.60	16.60	16.63	
1.4	16QAM	3	1	16.75	16.54	16.51	
1.4	16QAM	3	3	16.57	16.64	16.59	16.6
1.4	16QAM	6	0	15.55	15.54	15.51	
1.4	64QAM	1	0	15.62	15.77	15.80	
1.4	64QAM	1	3	15.72	15.74	15.66	16.6
1.4	64QAM	1	5	15.78	15.72	15.50	
1.4	64QAM	3	0	15.62	15.55	15.58	
1.4	64QAM	3	1	15.49	15.53	15.59	16.6
1.4	64QAM	3	3	15.59	15.52	15.59	
1.4	64QAM	6	0	15.73	15.75	15.76	
1.4	256QAM	1	0	11.94	12.04	12.02	12.6
1.4	256QAM	1	3	11.98	12.03	11.88	
1.4	256QAM	1	5	12.03	11.97	11.73	
1.4	256QAM	3	0	11.88	11.84	11.80	12.6
1.4	256QAM	3	1	11.70	11.71	11.80	
1.4	256QAM	3	3	11.84	11.81	11.85	
1.4	256QAM	6	0	11.77	11.86	11.84	12.6

Band 2 (1900MHz Band) (dBm)-ANT 6							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	18.49	18.51	18.44	19.2
20	QPSK	1	49	18.48	18.50	18.43	
20	QPSK	1	99	18.40	18.47	18.44	
20	QPSK	50	0	17.54	17.66	17.55	18.2
20	QPSK	50	24	17.58	17.52	17.50	
20	QPSK	50	50	17.55	17.58	17.51	
20	QPSK	100	0	17.58	17.59	17.48	18.2
20	16QAM	1	0	17.85	17.76	17.59	
20	16QAM	1	49	17.73	17.82	17.77	
20	16QAM	1	99	17.83	17.60	17.87	17.2
20	16QAM	50	0	16.54	16.49	16.53	
20	16QAM	50	24	16.75	16.60	16.59	
20	16QAM	50	50	16.62	16.65	16.67	17.2
20	16QAM	100	0	16.60	16.62	16.58	
20	64QAM	1	0	16.70	16.84	16.79	
20	64QAM	1	49	16.73	16.77	16.67	17.2
20	64QAM	1	99	16.83	16.71	16.53	
20	64QAM	50	0	16.68	16.57	16.57	17.2
20	64QAM	50	24	16.51	16.52	16.59	
20	64QAM	50	50	16.64	16.57	16.62	
20	64QAM	100	0	16.56	16.59	16.58	13.2
20	256QAM	1	0	12.71	12.86	12.81	
20	256QAM	1	49	12.74	12.79	12.69	
20	256QAM	1	99	12.84	12.73	12.55	13.2
20	256QAM	50	0	12.69	12.59	12.59	
20	256QAM	50	24	12.52	12.54	12.61	
20	256QAM	50	50	12.65	12.59	12.64	
20	256QAM	100	0	12.57	12.61	12.60	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	18.23	18.28	18.19	19.2
15	QPSK	1	37	18.27	18.28	18.22	
15	QPSK	1	74	18.13	18.28	18.25	
15	QPSK	36	0	17.32	17.38	17.27	18.2
15	QPSK	36	20	17.46	17.27	17.28	
15	QPSK	36	39	17.36	17.33	17.24	
15	QPSK	75	0	17.35	17.33	17.20	18.2
15	16QAM	1	0	17.51	17.40	17.23	
15	16QAM	1	37	17.50	17.62	17.42	
15	16QAM	1	74	17.55	17.70	17.56	17.2
15	16QAM	36	0	16.35	16.22	16.29	
15	16QAM	36	20	16.41	16.21	16.21	
15	16QAM	36	39	16.28	16.33	16.35	17.2
15	16QAM	75	0	16.20	16.28	16.27	
15	64QAM	1	0	16.37	16.53	16.44	
15	64QAM	1	37	16.37	16.37	16.32	17.2
15	64QAM	1	74	16.51	16.36	16.17	
15	64QAM	36	0	16.35	16.17	16.20	
15	64QAM	36	20	16.12	16.19	16.22	13.2
15	64QAM	36	39	16.30	16.25	16.24	
15	64QAM	75	0	16.20	16.26	16.27	
15	256QAM	1	0	12.40	12.48	12.43	13.2
15	256QAM	1	37	12.35	12.46	12.29	
15	256QAM	1	74	12.48	12.33	12.20	
15	256QAM	36	0	12.36	12.26	12.24	13.2
15	256QAM	36	20	12.15	12.19	12.29	
15	256QAM	36	39	12.25	12.19	12.27	
15	256QAM	75	0	12.29	12.37	12.35	Tune-up limit (dBm)
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	18.30	18.31	18.24	19.2
10	QPSK	1	25	18.23	18.27	18.19	
10	QPSK	1	49	18.14	18.28	18.18	
10	QPSK	25	0	17.30	17.47	17.32	18.2
10	QPSK	25	12	17.26	17.13	17.19	
10	QPSK	25	25	17.16	17.26	17.14	
10	QPSK	50	0	17.19	17.25	17.12	18.2
10	16QAM	1	0	17.49	17.41	17.22	
10	16QAM	1	25	17.49	17.66	17.46	
10	16QAM	1	49	17.51	17.71	17.52	17.2
10	16QAM	25	0	16.28	16.27	16.30	
10	16QAM	25	12	16.37	16.23	16.25	
10	16QAM	25	25	16.31	16.26	16.33	17.2
10	16QAM	50	0	16.29	16.26	16.19	
10	64QAM	1	0	16.30	16.45	16.47	
10	64QAM	1	25	16.41	16.46	16.35	17.2
10	64QAM	1	49	16.48	16.34	16.13	
10	64QAM	25	0	16.37	16.17	16.18	
10	64QAM	25	12	16.13	16.19	16.23	17.2
10	64QAM	25	25	16.30	16.25	16.26	
10	64QAM	50	0	16.19	16.20	16.26	
10	256QAM	1	0	12.32	12.47	12.41	13.2
10	256QAM	1	25	12.42	12.45	12.32	
10	256QAM	1	49	12.51	12.40	12.20	
10	256QAM	25	0	12.35	12.27	12.23	13.2
10	256QAM	25	12	12.16	12.16	12.23	
10	256QAM	25	25	12.29	12.27	12.29	
10	256QAM	50	0	12.22	12.28	12.26	Tune-up limit (dBm)
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	18.29	18.29	18.20	19.2
5	QPSK	1	12	18.20	18.22	18.24	
5	QPSK	1	24	18.21	18.27	18.17	
5	QPSK	12	0	17.27	17.43	17.31	18.2
5	QPSK	12	7	17.29	17.17	17.11	
5	QPSK	12	13	17.22	17.22	17.11	
5	QPSK	25	0	17.26	17.25	17.10	
5	16QAM	1	0	17.21	17.20	17.01	

Band 2 (1900MHz Band) (dBm)-ANT 4							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	18.02	18.04	17.97	18.8
20	QPSK	1	49	18.01	18.03	17.96	
20	QPSK	1	99	17.93	18.00	17.97	
20	QPSK	50	0	17.07	17.19	17.08	17.8
20	QPSK	50	24	17.11	17.05	17.03	
20	QPSK	50	50	17.08	17.11	17.04	
20	QPSK	100	0	17.11	17.12	17.01	17.8
20	16QAM	1	0	17.38	17.29	17.12	
20	16QAM	1	49	17.26	17.35	17.30	
20	16QAM	1	99	17.36	17.13	17.40	16.8
20	16QAM	50	0	16.07	16.02	16.06	
20	16QAM	50	24	16.28	16.13	16.12	
20	16QAM	50	50	16.15	16.18	16.20	16.8
20	16QAM	100	0	16.13	16.15	16.11	
20	64QAM	1	0	16.23	16.37	16.32	
20	64QAM	1	49	16.26	16.30	16.20	16.8
20	64QAM	1	99	16.36	16.24	16.06	
20	64QAM	50	0	16.21	16.10	16.10	16.8
20	64QAM	50	24	16.04	16.05	16.12	
20	64QAM	50	50	16.17	16.10	16.15	
20	64QAM	100	0	16.09	16.12	16.11	13.8
20	256QAM	1	0	12.24	12.39	12.34	
20	256QAM	1	49	12.27	12.32	12.22	
20	256QAM	1	99	12.37	12.26	12.08	13.8
20	256QAM	50	0	12.22	12.12	12.12	
20	256QAM	50	24	12.05	12.07	12.14	
20	256QAM	50	50	12.18	12.12	12.17	Tune-up limit (dBm)
20	256QAM	100	0	12.10	12.14	12.13	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	17.76	17.81	17.72	18.8
15	QPSK	1	37	17.80	17.81	17.75	
15	QPSK	1	74	17.66	17.81	17.78	
15	QPSK	36	0	16.85	16.91	16.80	17.8
15	QPSK	36	20	16.99	16.80	16.81	
15	QPSK	36	39	16.89	16.86	16.77	
15	QPSK	75	0	16.88	16.86	16.73	17.8
15	16QAM	1	0	17.04	16.93	16.76	
15	16QAM	1	37	17.03	17.15	16.95	
15	16QAM	1	74	17.08	17.23	17.09	16.8
15	16QAM	36	0	15.88	15.75	15.82	
15	16QAM	36	20	15.94	15.74	15.74	
15	16QAM	36	39	15.81	15.86	15.88	16.8
15	16QAM	75	0	15.73	15.81	15.80	
15	64QAM	1	0	15.90	16.06	15.97	
15	64QAM	1	37	15.90	15.90	15.85	16.8
15	64QAM	1	74	16.04	15.89	15.70	
15	64QAM	36	0	15.88	15.70	15.73	
15	64QAM	36	20	15.65	15.72	15.75	16.8
15	64QAM	36	39	15.83	15.78	15.77	
15	64QAM	75	0	15.73	15.79	15.80	
15	256QAM	1	0	11.93	12.01	11.96	13.8
15	256QAM	1	37	11.88	11.99	11.82	
15	256QAM	1	74	12.01	11.86	11.73	
15	256QAM	36	0	11.89	11.79	11.77	13.8
15	256QAM	36	20	11.68	11.72	11.82	
15	256QAM	36	39	11.78	11.72	11.80	
15	256QAM	75	0	11.82	11.90	11.88	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	17.83	17.84	17.77	18.8
10	QPSK	1	25	17.76	17.80	17.72	
10	QPSK	1	49	17.67	17.81	17.71	
10	QPSK	25	0	16.83	17.00	16.85	17.8
10	QPSK	25	12	16.79	16.66	16.72	
10	QPSK	25	25	16.69	16.79	16.67	
10	QPSK	50	0	16.72	16.78	16.65	17.8
10	16QAM	1	0	17.02	16.94	16.75	
10	16QAM	1	25	17.02	17.19	16.99	
10	16QAM	1	49	17.04	17.24	17.05	16.8
10	16QAM	25	0	15.81	15.80	15.83	
10	16QAM	25	12	15.90	15.76	15.78	
10	16QAM	25	25	15.84	15.79	15.86	16.8
10	16QAM	50	0	15.82	15.79	15.72	
10	64QAM	1	0	15.83	15.98	16.00	
10	64QAM	1	25	15.94	15.99	15.88	16.8
10	64QAM	1	49	16.01	15.87	15.66	
10	64QAM	25	0	15.90	15.70	15.71	
10	64QAM	25	12	15.66	15.72	15.76	16.8
10	64QAM	25	25	15.83	15.78	15.79	
10	64QAM	50	0	15.72	15.73	15.79	
10	256QAM	1	0	11.85	12.00	11.94	13.8
10	256QAM	1	25	11.95	11.98	11.85	
10	256QAM	1	49	12.04	11.93	11.73	
10	256QAM	25	0	11.88	11.80	11.76	13.8
10	256QAM	25	12	11.69	11.69	11.76	
10	256QAM	25	25	11.82	11.80	11.82	
10	256QAM	50	0	11.75	11.81	11.79	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	17.82	17.82	17.73	18.8
5	QPSK	1	12	17.73	17.75	17.77	
5	QPSK	1	24	17.74	17.80	17.70	
5	QPSK	12	0	16.80	16.96	16.84	17.8
5	QPSK	12	7	16.82	16.70	16.64	
5	QPSK	12	13	16.75	16.75	16.64	
5	QPSK	25	0	16.79	16.78	16.63	17.8
5	16QAM	1	0	16.74	16.73	16.54	

5	16QAM	1	12	17.24	17.40	17.21	18.2
5	16QAM	1	24	17.29	17.40	17.25	
5	16QAM	12	0	16.10	16.00	16.07	
5	16QAM	12	7	16.11	16.01	15.97	17.2
5	16QAM	12	13	16.03	16.03	16.09	
5	16QAM	25	0	15.97	15.95	15.95	
5	64QAM	1	0	16.07	16.27	16.19	
5	64QAM	1	12	16.10	16.18	16.08	17.2
5	64QAM	1	24	16.26	16.14	15.95	
5	64QAM	12	0	16.36	16.26	16.24	
5	64QAM	12	7	16.18	16.15	16.23	17.2
5	64QAM	12	13	16.30	16.16	16.31	
5	64QAM	25	0	16.25	16.26	16.19	
5	256QAM	1	0	12.40	12.48	12.48	
5	256QAM	1	12	12.39	12.41	12.36	13.2
5	256QAM	1	24	12.44	12.34	12.21	
5	256QAM	12	0	12.38	12.26	12.26	
5	256QAM	12	7	12.14	12.14	12.26	13.2
5	256QAM	12	13	12.28	12.22	12.25	
5	256QAM	25	0	12.17	12.28	12.23	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	18.20	18.30	18.16	19.2
3	QPSK	1	8	18.24	18.29	18.20	
3	QPSK	1	14	18.04	18.07	18.05	
3	QPSK	8	0	17.17	17.29	17.21	18.2
3	QPSK	8	4	17.25	17.19	17.18	
3	QPSK	8	7	17.21	17.20	17.18	
3	QPSK	15	0	17.18	17.20	17.12	
3	16QAM	1	0	17.21	17.21	16.98	18.2
3	16QAM	1	8	17.25	17.39	17.21	
3	16QAM	1	14	17.31	17.42	17.30	
3	16QAM	8	0	16.05	15.98	16.04	17.2
3	16QAM	8	4	16.18	15.98	15.99	
3	16QAM	8	7	15.98	16.04	16.10	
3	16QAM	15	0	15.97	16.00	16.01	
3	64QAM	1	0	16.15	16.23	16.23	17.2
3	64QAM	1	8	16.15	16.17	16.04	
3	64QAM	1	14	16.27	16.12	15.89	
3	64QAM	8	0	16.32	16.17	16.17	17.2
3	64QAM	8	4	16.16	16.15	16.19	
3	64QAM	8	7	16.25	16.19	16.28	
3	64QAM	15	0	16.19	16.21	16.25	
3	256QAM	1	0	12.34	12.46	12.50	13.2
3	256QAM	1	8	12.41	12.45	12.36	
3	256QAM	1	14	12.49	12.39	12.20	
3	256QAM	8	0	12.33	12.24	12.20	13.2
3	256QAM	8	4	12.13	12.21	12.22	
3	256QAM	8	7	12.33	12.28	12.25	
3	256QAM	15	0	12.17	12.26	12.21	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	18.20	18.28	18.17	19.2
1.4	QPSK	1	3	18.20	18.23	18.16	
1.4	QPSK	1	5	18.04	18.15	18.09	
1.4	QPSK	3	0	18.18	18.13	18.18	18.2
1.4	QPSK	3	1	18.17	18.17	18.15	
1.4	QPSK	3	3	18.15	18.19	18.19	
1.4	QPSK	6	0	17.19	17.19	17.08	18.2
1.4	16QAM	1	0	17.22	17.19	16.96	
1.4	16QAM	1	3	17.31	17.39	17.22	
1.4	16QAM	1	5	17.26	17.42	17.32	17.2
1.4	16QAM	3	0	17.04	17.04	17.07	
1.4	16QAM	3	1	17.19	16.98	16.95	
1.4	16QAM	3	3	17.01	17.08	17.03	17.2
1.4	16QAM	6	0	15.99	15.98	15.95	
1.4	64QAM	1	0	16.06	16.21	16.24	
1.4	64QAM	1	3	16.16	16.18	16.10	17.2
1.4	64QAM	1	5	16.22	16.16	15.94	
1.4	64QAM	3	0	16.06	15.99	16.02	
1.4	64QAM	3	1	15.93	15.97	16.03	17.2
1.4	64QAM	3	3	16.03	15.96	16.03	
1.4	64QAM	6	0	16.17	16.19	16.20	
1.4	256QAM	1	0	12.38	12.48	12.46	13.2
1.4	256QAM	1	3	12.42	12.47	12.32	
1.4	256QAM	1	5	12.47	12.41	12.17	
1.4	256QAM	3	0	12.32	12.28	12.24	13.2
1.4	256QAM	3	1	12.14	12.15	12.24	
1.4	256QAM	3	3	12.28	12.25	12.29	
1.4	256QAM	6	0	12.21	12.30	12.28	13.2

5	16QAM	1	12	16.77	16.93	16.74	17.8
5	16QAM	1	24	16.82	16.93	16.78	
5	16QAM	12	0	15.63	15.53	15.60	
5	16QAM	12	7	15.64	15.54	15.50	16.8
5	16QAM	12	13	15.56	15.56	15.62	
5	16QAM	25	0	15.50	15.52	15.48	
5	64QAM	1	0	15.60	15.80	15.72	
5	64QAM	1	12	15.63	15.71	15.61	16.8
5	64QAM	1	24	15.79	15.67	15.48	
5	64QAM	12	0	15.89	15.79	15.77	
5	64QAM	12	7	15.71	15.68	15.76	16.8
5	64QAM	12	13	15.83	15.71	15.64	
5	64QAM	25	0	15.78	15.79	15.72	
5	256QAM	1	0	11.93	12.01	12.01	
5	256QAM	1	12	11.92	11.94	11.89	13.8
5	256QAM	1	24	11.97	11.87	11.74	
5	256QAM	12	0	11.91	11.79	11.79	
5	256QAM	12	7	11.67	11.67	11.79	13.8
5	256QAM	12	13	11.81	11.75	11.78	
5	256QAM	25	0	11.70	11.81	11.76	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	17.73	17.83	17.69	18.8
3	QPSK	1	8	17.77	17.82	17.73	
3	QPSK	1	14	17.57	17.60	17.58	
3	QPSK	8	0	16.70	16.82	16.74	17.8
3	QPSK	8	4	16.76	16.72	16.71	
3	QPSK	8	7	16.74	16.73	16.71	
3	QPSK	15	0	16.71	16.73	16.65	
3	16QAM	1	0	16.74	16.74	16.51	17.8
3	16QAM	1	8	16.78	16.92	16.74	
3	16QAM	1	14	16.84	16.95	16.83	
3	16QAM	8	0	15.58	15.51	15.57	16.8
3	16QAM	8	4	15.71	15.51	15.52	
3	16QAM	8	7	15.51	15.57	15.63	
3	16QAM	15	0	15.50	15.53	15.54	
3	64QAM	1	0	15.68	15.76	15.76	16.8
3	64QAM	1	8	15.68	15.70	15.57	
3	64QAM	1	14	15.80	15.65	15.42	
3	64QAM	8	0	15.85	15.70	15.70	16.8
3	64QAM	8	4	15.69	15.68	15.72	
3	64QAM	8	7	15.78	15.72	15.81	
3	64QAM	15	0	15.72	15.74	15.78	
3	256QAM	1	0	11.87	11.99	12.03	13.8
3	256QAM	1	8	11.94	11.98	11.89	
3	256QAM	1	14	12.02	11.92	11.73	
3	256QAM	8	0	11.86	11.77	11.73	13.8
3	256QAM	8	4	11.66	11.74	11.75	
3	256QAM	8	7	11.86	11.81	11.78	
3	256QAM	15	0	11.70	11.79	11.74	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	17.73	17.81	17.70	18.8
1.4	QPSK	1	3	17.73	17.76	17.69	
1.4	QPSK	1	5	17.57	17.68	17.62	
1.4	QPSK	3	0	17.71	17.66	17.71	17.8
1.4	QPSK	3	1	17.70	17.70	17.68	
1.4	QPSK	3	3	17.68	17.72	17.72	
1.4	QPSK	6	0	16.72	16.72	16.61	17.8
1.4	16QAM	1	0	16.75	16.72	16.49	
1.4	16QAM	1	3	16.84	16.92	16.75	
1.4	16QAM	1	5	16.79	16.95	16.85	16.8
1.4	16QAM	3	0	16.57	16.57	16.60	
1.4	16QAM	3	1	16.72	16.51	16.48	
1.4	16QAM	3	3	16.54	16.61	16.56	16.8
1.4	16QAM	6	0	15.52	15.51	15.48	
1.4	64QAM	1	0	15.59	15.74	15.77	
1.4	64QAM	1	3	15.69	15.71	15.63	16.8
1.4	64QAM	1	5	15.75	15.69	15.47	
1.4	64QAM	3	0	15.59	15.52	15.55	
1.4	64QAM	3	1	15.46	15.50	15.56	16.8
1.4	64QAM	3	3	15.56	15.49	15.56	
1.4	64QAM	6	0	15.70	15.72	15.73	
1.4	256QAM	1	0	11.91	12.01	11.99	13.8
1.4	256QAM	1	3	11.95	12.00	11.85	
1.4	256QAM	1	5	12.00	11.94	11.70	
1.4	256QAM	3	0	11.85	11.81	11.77	13.8
1.4	256QAM	3	1	11.67	11.68	11.77	
1.4	256QAM	3	3	11.81	11.78	11.82	
1.4	256QAM	6	0	11.74	11.83	11.81	13.8

Band 4 (AWS Band) (dBm)-ANT 5							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	19.74	19.78	19.77	20.5
20	QPSK	1	49	19.68	19.69	19.70	
20	QPSK	1	99	19.60	19.62	19.65	
20	QPSK	50	0	18.79	18.85	18.72	
20	QPSK	50	24	18.77	18.80	18.81	19.5
20	QPSK	50	50	18.74	18.77	18.83	
20	QPSK	100	0	18.71	18.80	18.75	
20	16QAM	1	0	18.44	18.69	18.75	
20	16QAM	1	49	18.69	18.75	18.60	19.5
20	16QAM	1	99	18.76	18.75	18.86	
20	16QAM	50	0	17.82	17.78	17.83	
20	16QAM	50	24	17.85	17.74	17.78	
20	16QAM	50	50	17.90	17.76	17.77	18.5
20	16QAM	100	0	17.82	17.81	17.79	
20	64QAM	1	0	17.94	17.88	17.92	
20	64QAM	1	49	17.74	17.76	17.92	
20	64QAM	1	99	17.84	17.85	17.96	18.5
20	64QAM	50	0	17.76	17.73	17.74	
20	64QAM	50	24	17.75	17.77	17.90	
20	64QAM	50	50	17.79	17.76	17.94	
20	64QAM	100	0	17.77	17.74	17.85	18.5
20	256QAM	1	0	13.97	13.91	13.95	
20	256QAM	1	49	13.77	13.79	13.95	
20	256QAM	1	99	13.87	13.88	13.99	
20	256QAM	50	0	13.79	13.76	13.77	14.5
20	256QAM	50	24	13.78	13.80	13.93	
20	256QAM	50	50	13.82	13.79	13.97	
20	256QAM	100	0	13.80	13.77	13.88	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	Tune-up limit (dBm)
15	QPSK	1	0	19.65	19.66	19.63	20.5
15	QPSK	1	37	19.58	19.54	19.63	
15	QPSK	1	74	19.49	19.52	19.56	
15	QPSK	36	0	18.65	18.74	18.65	
15	QPSK	36	20	18.69	18.69	18.72	19.5
15	QPSK	36	39	18.63	18.63	18.71	
15	QPSK	75	0	18.58	18.71	18.65	
15	16QAM	1	0	18.78	18.97	18.60	
15	16QAM	1	37	19.06	19.01	19.01	19.5
15	16QAM	1	74	18.68	18.69	18.75	
15	16QAM	36	0	17.69	17.72	17.75	
15	16QAM	36	20	17.73	17.68	17.72	
15	16QAM	36	39	17.78	17.62	17.71	18.5
15	16QAM	75	0	17.74	17.75	17.72	
15	64QAM	1	0	17.82	17.81	17.77	
15	64QAM	1	37	17.79	17.82	17.81	
15	64QAM	1	74	17.69	17.75	17.90	18.5
15	64QAM	36	0	17.70	17.65	17.67	
15	64QAM	36	20	17.65	17.62	17.78	
15	64QAM	36	39	17.64	17.67	17.83	
15	64QAM	75	0	17.67	17.60	17.78	14.5
15	256QAM	1	0	13.90	13.76	13.82	
15	256QAM	1	37	13.67	13.65	13.89	
15	256QAM	1	74	13.81	13.77	13.85	
15	256QAM	36	0	13.72	13.63	13.63	14.5
15	256QAM	36	20	13.65	13.71	13.87	
15	256QAM	36	39	13.73	13.66	13.82	
15	256QAM	75	0	13.66	13.71	13.81	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	19.62	19.71	19.66	20.5
10	QPSK	1	25	19.56	19.58	19.58	
10	QPSK	1	49	19.51	19.48	19.51	
10	QPSK	25	0	18.66	18.77	18.59	
10	QPSK	25	12	18.64	18.72	18.73	19.5
10	QPSK	25	25	18.63	18.69	18.76	
10	QPSK	50	0	18.58	18.66	18.68	
10	16QAM	1	0	18.79	19.02	18.69	
10	16QAM	1	25	19.00	19.08	18.96	19.5
10	16QAM	1	49	18.84	18.68	18.76	
10	16QAM	25	0	17.73	17.66	17.74	
10	16QAM	25	12	17.79	17.59	17.67	
10	16QAM	25	25	17.80	17.69	17.66	18.5
10	16QAM	50	0	17.76	17.69	17.70	
10	64QAM	1	0	17.79	17.75	17.83	
10	64QAM	1	25	17.68	17.69	17.86	
10	64QAM	1	49	17.74	17.71	17.86	18.5
10	64QAM	25	0	17.68	17.65	17.67	
10	64QAM	25	12	17.67	17.65	17.82	
10	64QAM	25	25	17.68	17.64	17.79	
10	64QAM	50	0	17.62	17.61	17.76	14.5
10	256QAM	1	0	13.90	13.85	13.80	
10	256QAM	1	25	13.69	13.69	13.84	
10	256QAM	1	49	13.74	13.82	13.85	
10	256QAM	25	0	13.69	13.67	13.64	
10	256QAM	25	12	13.72	13.70	13.79	14.5
10	256QAM	25	25	13.71	13.70	13.84	
10	256QAM	50	0	13.72	13.70	13.73	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	19.61	19.67	19.64	20.5
5	QPSK	1	12	19.59	19.55	19.56	
5	QPSK	1	24	19.52	19.52	19.52	
5	QPSK	12	0	18.70	18.79	18.57	
5	QPSK	12	7	18.64	18.74	18.66	19.5
5	QPSK	12	13	18.60	18.62	18.69	
5	QPSK	25	0	18.61	18.72	18.61	
5	16QAM	1	0	18.76	19.09	18.67	

Band 4 (AWS Band) (dBm)-ANT 0							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	19.77	19.81	19.80	20.5
20	QPSK	1	49	19.71	19.72	19.73	
20	QPSK	1	99	19.63	19.65	19.68	
20	QPSK	50	0	18.82	18.88	18.75	
20	QPSK	50	24	18.80	18.83	18.84	19.5
20	QPSK	50	50	18.77	18.80	18.86	
20	QPSK	100	0	18.74	18.83	18.78	
20	16QAM	1	0	18.47	18.72	18.78	
20	16QAM	1	49	18.72	18.78	18.63	19.5
20	16QAM	1	99	18.79	18.78	18.89	
20	16QAM	50	0	17.85	17.81	17.86	
20	16QAM	50	24	17.88	17.77	17.81	
20	16QAM	50	50	17.93	17.79	17.80	18.5
20	16QAM	100	0	17.85	17.84	17.82	
20	64QAM	1	0	17.97	17.91	17.95	
20	64QAM	1	49	17.77	17.79	17.95	
20	64QAM	1	99	17.87	17.88	17.99	18.5
20	64QAM	50	0	17.79	17.76	17.77	
20	64QAM	50	24	17.78	17.80	17.93	
20	64QAM	50	50	17.82	17.79	17.97	
20	64QAM	100	0	17.80	17.77	17.88	18.5
20	256QAM	1	0	14.00	13.94	13.98	
20	256QAM	1	49	13.80	13.82	13.98	
20	256QAM	1	99	13.90	13.91	14.02	
20	256QAM	50	0	13.82	13.79	13.80	14.5
20	256QAM	50	24	13.81	13.83	13.96	
20	256QAM	50	50	13.85	13.82	14.00	
20	256QAM	100	0	13.83	13.80	13.91	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	19.68	19.69	19.66	20.5
15	QPSK	1	37	19.61	19.57	19.66	
15	QPSK	1	74	19.52	19.55	19.59	
15	QPSK	36	0	18.68	18.77	18.68	
15	QPSK	36	20	18.72	18.72	18.75	19.5
15	QPSK	36	39	18.66	18.66	18.74	
15	QPSK	75	0	18.61	18.74	18.68	
15	16QAM	1	0	18.81	19.00	18.63	
15	16QAM	1	37	19.09	19.04	19.04	19.5
15	16QAM	1	74	18.71	18.72	18.78	
15	16QAM	36	0	17.72	17.75	17.78	
15	16QAM	36	20	17.76	17.71	17.75	
15	16QAM	36	39	17.81	17.65	17.74	18.5
15	16QAM	75	0	17.77	17.78	17.75	
15	64QAM	1	0	17.85	17.84	17.80	
15	64QAM	1	37	17.82	17.85	17.84	
15	64QAM	1	74	17.72	17.78	17.93	18.5
15	64QAM	36	0	17.73	17.68	17.70	
15	64QAM	36	20	17.68	17.65	17.81	
15	64QAM	36	39	17.67	17.70	17.86	
15	64QAM	75	0	17.70	17.63	17.81	18.5
15	256QAM	1	0	13.93	13.79	13.85	
15	256QAM	1	37	13.70	13.68	13.92	
15	256QAM	1	74	13.84	13.80	13.88	
15	256QAM	36	0	13.75	13.66	13.66	14.5
15	256QAM	36	20	13.68	13.74	13.90	
15	256QAM	36	39	13.76	13.69	13.85	
15	256QAM	75	0	13.69	13.74	13.84	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	19.65	19.74	19.69	20.5
10	QPSK	1	25	19.59	19.61	19.61	
10	QPSK	1	49	19.54	19.51	19.54	
10	QPSK	25	0	18.69	18.80	18.62	
10	QPSK	25	12	18.67	18.75	18.76	19.5
10	QPSK	25	25	18.66	18.72	18.79	
10	QPSK	50	0	18.61	18.69	18.71	
10	16QAM	1	0	18.82	19.05	18.72	
10	16QAM	1	25	19.03	19.11	18.99	19.5
10	16QAM	1	49	18.87	18.71	18.79	
10	16QAM	25	0	17.76	17.69	17.77	
10	16QAM	25	12	17.82	17.62	17.70	
10	16QAM	25	25	17.83	17.72	17.69	18.5
10	16QAM	50	0	17.79	17.72	17.73	
10	64QAM	1	0	17.82	17.78	17.86	
10	64QAM	1	25	17.71	17.72	17.89	
10	64QAM	1	49	17.77	17.74	17.89	18.5
10	64QAM	25	0	17.71	17.68	17.70	
10	64QAM	25	12	17.70	17.68	17.85	
10	64QAM	25	25	17.71	17.67	17.82	
10	64QAM	50	0	17.65	17.64	17.79	18.5
10	256QAM	1	0	13.93	13.88	13.83	
10	256QAM	1	25	13.72	13.72	13.87	
10	256QAM	1	49	13.77	13.85	13.88	
10	256QAM	25	0	13.72	13.70	13.67	14.5
10	256QAM	25	12	13.75	13.73	13.82	
10	256QAM	25	25	13.74	13.73	13.87	
10	256QAM	50	0	13.75	13.73	13.76	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	19.64	19.70	19.67	20.5
5	QPSK	1	12	19.62	19.58	19.59	
5	QPSK	1	24	19.55	19.55	19.55	
5	QPSK	12	0	18.73	18.82	18.60	
5	QPSK	12	7	18.67	18.77	18.69	19.5
5	QPSK	12	13	18.63	18.65	18.72	
5	QPSK	25	0	18.64	18.75	18.64	
5	16QAM	1	0	18.79	19.12	18.70	

5	16QAM	1	12	19.06	19.10	18.95	19.5
5	16QAM	1	24	18.68	18.61	18.76	
5	16QAM	12	0	17.68	17.70	17.73	
5	16QAM	12	7	17.70	17.61	17.67	18.5
5	16QAM	12	13	17.82	17.69	17.63	
5	16QAM	25	0	17.70	17.70	17.64	
5	64QAM	1	0	17.86	17.82	17.80	
5	64QAM	1	12	17.79	17.83	17.83	18.5
5	64QAM	1	24	17.78	17.74	17.89	
5	64QAM	12	0	17.61	17.62	17.66	
5	64QAM	12	7	17.68	17.69	17.79	18.5
5	64QAM	12	13	17.67	17.65	17.88	
5	64QAM	25	0	17.62	17.61	17.79	
5	256QAM	1	0	13.90	13.84	13.83	
5	256QAM	1	12	13.69	13.73	13.87	14.5
5	256QAM	1	24	13.73	13.76	13.88	
5	256QAM	12	0	13.72	13.66	13.68	
5	256QAM	12	7	13.66	13.67	13.83	14.5
5	256QAM	12	13	13.74	13.70	13.90	
5	256QAM	25	0	13.66	13.63	13.77	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	19.61	19.70	19.64	20.5
3	QPSK	1	8	19.62	19.55	19.64	
3	QPSK	1	14	19.48	19.53	19.56	
3	QPSK	8	0	18.65	18.75	18.64	
3	QPSK	8	4	18.65	18.73	18.73	
3	QPSK	8	7	18.60	18.70	18.68	19.5
3	QPSK	15	0	18.58	18.70	18.66	
3	16QAM	1	0	18.76	19.03	18.65	
3	16QAM	1	8	19.02	19.11	18.96	19.5
3	16QAM	1	14	18.64	18.64	18.78	
3	16QAM	8	0	17.72	17.65	17.73	
3	16QAM	8	4	17.74	17.67	17.69	18.5
3	16QAM	8	7	17.82	17.64	17.66	
3	16QAM	15	0	17.70	17.69	17.70	
3	64QAM	1	0	17.83	17.79	17.77	
3	64QAM	1	8	17.82	17.82	17.82	18.5
3	64QAM	1	14	17.75	17.71	17.83	
3	64QAM	8	0	17.65	17.63	17.65	
3	64QAM	8	4	17.60	17.63	17.80	18.5
3	64QAM	8	7	17.71	17.65	17.84	
3	64QAM	15	0	17.71	17.66	17.70	
3	256QAM	1	0	13.83	13.85	13.83	
3	256QAM	1	8	13.64	13.71	13.88	14.5
3	256QAM	1	14	13.72	13.80	13.85	
3	256QAM	8	0	13.66	13.61	13.63	
3	256QAM	8	4	13.63	13.72	13.85	14.5
3	256QAM	8	7	13.66	13.70	13.89	
3	256QAM	15	0	13.70	13.67	13.82	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	19.63	19.64	19.64	20.5
1.4	QPSK	1	3	19.57	19.54	19.62	
1.4	QPSK	1	5	19.53	19.56	19.51	
1.4	QPSK	3	0	19.70	19.77	19.62	
1.4	QPSK	3	1	19.65	19.70	19.73	
1.4	QPSK	3	3	19.68	19.68	19.68	
1.4	QPSK	6	0	18.56	18.66	18.61	19.5
1.4	16QAM	1	0	18.82	19.02	18.68	
1.4	16QAM	1	3	19.04	19.11	18.99	
1.4	16QAM	1	5	18.62	18.65	18.75	19.5
1.4	16QAM	3	0	18.74	18.72	18.68	
1.4	16QAM	3	1	18.78	18.62	18.67	
1.4	16QAM	3	3	18.75	18.70	18.67	
1.4	16QAM	6	0	17.76	17.71	17.73	18.5
1.4	64QAM	1	0	17.79	17.76	17.79	
1.4	64QAM	1	3	17.68	17.63	17.84	
1.4	64QAM	1	5	17.76	17.72	17.90	18.5
1.4	64QAM	3	0	17.62	17.62	17.68	
1.4	64QAM	3	1	17.60	17.62	17.80	
1.4	64QAM	3	3	17.66	17.69	17.80	
1.4	64QAM	6	0	17.67	17.68	17.78	18.5
1.4	256QAM	1	0	13.90	13.78	13.84	
1.4	256QAM	1	3	13.64	13.65	13.82	
1.4	256QAM	1	5	13.77	13.77	13.86	14.5
1.4	256QAM	3	0	13.66	13.67	13.69	
1.4	256QAM	3	1	13.64	13.74	13.87	
1.4	256QAM	3	3	13.74	13.72	13.85	
1.4	256QAM	6	0	13.73	13.65	13.73	14.5

5	16QAM	1	12	19.09	19.13	18.98	19.5
5	16QAM	1	24	18.71	18.64	18.79	
5	16QAM	12	0	17.71	17.73	17.76	
5	16QAM	12	7	17.73	17.64	17.70	18.5
5	16QAM	12	13	17.85	17.72	17.66	
5	16QAM	25	0	17.73	17.73	17.67	
5	64QAM	1	0	17.91	17.85	17.83	
5	64QAM	1	12	17.82	17.86	17.86	18.5
5	64QAM	1	24	17.81	17.77	17.92	
5	64QAM	12	0	17.64	17.65	17.69	
5	64QAM	12	7	17.71	17.72	17.82	18.5
5	64QAM	12	13	17.70	17.68	17.91	
5	64QAM	25	0	17.65	17.64	17.82	
5	256QAM	1	0	13.93	13.87	13.86	
5	256QAM	1	12	13.72	13.76	13.90	14.5
5	256QAM	1	24	13.76	13.79	13.91	
5	256QAM	12	0	13.75	13.69	13.71	
5	256QAM	12	7	13.69	13.70	13.86	14.5
5	256QAM	12	13	13.77	13.73	13.93	
5	256QAM	25	0	13.69	13.66	13.80	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	19.64	19.73	19.67	20.5
3	QPSK	1	8	19.65	19.58	19.67	
3	QPSK	1	14	19.51	19.56	19.59	
3	QPSK	8	0	18.68	18.78	18.67	
3	QPSK	8	4	18.68	18.76	18.76	
3	QPSK	8	7	18.63	18.73	18.71	19.5
3	QPSK	15	0	18.61	18.73	18.69	
3	16QAM	1	0	18.79	19.06	18.68	
3	16QAM	1	8	19.05	19.14	18.99	19.5
3	16QAM	1	14	18.67	18.67	18.81	
3	16QAM	8	0	17.75	17.68	17.76	
3	16QAM	8	4	17.77	17.70	17.72	18.5
3	16QAM	8	7	17.85	17.67	17.69	
3	16QAM	15	0	17.73	17.72	17.73	
3	64QAM	1	0	17.86	17.82	17.80	
3	64QAM	1	8	17.85	17.85	17.85	18.5
3	64QAM	1	14	17.78	17.74	17.86	
3	64QAM	8	0	17.68	17.66	17.68	
3	64QAM	8	4	17.63	17.66	17.83	18.5
3	64QAM	8	7	17.74	17.68	17.87	
3	64QAM	15	0	17.74	17.69	17.73	
3	256QAM	1	0	13.86	13.88	13.86	
3	256QAM	1	8	13.67	13.74	13.91	14.5
3	256QAM	1	14	13.75	13.83	13.88	
3	256QAM	8	0	13.69	13.64	13.66	
3	256QAM	8	4	13.66	13.75	13.88	14.5
3	256QAM	8	7	13.71	13.73	13.92	
3	256QAM	15	0	13.73	13.70	13.85	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	19.66	19.67	19.67	20.5
1.4	QPSK	1	3	19.60	19.57	19.65	
1.4	QPSK	1	5	19.56	19.59	19.54	
1.4	QPSK	3	0	19.73	19.80	19.65	
1.4	QPSK	3	1	19.68	19.73	19.76	
1.4	QPSK	3	3	19.71	19.71	19.71	
1.4	QPSK	6	0	18.59	18.69	18.64	19.5
1.4	16QAM	1	0	18.85	19.05	18.71	
1.4	16QAM	1	3	19.07	19.14	19.02	
1.4	16QAM	1	5	18.65	18.68	18.78	19.5
1.4	16QAM	3	0	18.77	18.75	18.71	
1.4	16QAM	3	1	18.81	18.65	18.70	
1.4	16QAM	3	3	18.78	18.73	18.70	
1.4	16QAM	6	0	17.79	17.74	17.76	18.5
1.4	64QAM	1	0	17.82	17.79	17.82	
1.4	64QAM	1	3	17.71	17.66	17.87	
1.4	64QAM	1	5	17.79	17.75	17.93	18.5
1.4	64QAM	3	0	17.65	17.65	17.71	
1.4	64QAM	3	1	17.63	17.65	17.83	
1.4	64QAM	3	3	17.69	17.72	17.83	
1.4	64QAM	6	0	17.70	17.71	17.81	18.5
1.4	256QAM	1	0	13.93	13.81	13.87	
1.4	256QAM	1	3	13.67	13.68	13.85	
1.4	256QAM	1	5	13.80	13.80	13.86	14.5
1.4	256QAM	3	0	13.69	13.70	13.72	
1.4	256QAM	3	1	13.67	13.77	13.90	
1.4	256QAM	3	3	13.77	13.75	13.88	
1.4	256QAM	6	0	13.76	13.68	13.76	14.5

Band 4 (AWS Band) (dBm)-ANT 6							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	17.8
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	17.10	17.14	17.13	
20	QPSK	1	49	17.04	17.05	17.06	16.8
20	QPSK	1	99	16.96	16.98	17.01	
20	QPSK	50	0	16.15	16.21	16.08	
20	QPSK	50	24	16.13	16.16	16.17	16.8
20	QPSK	50	50	16.10	16.13	16.19	
20	QPSK	100	0	16.07	16.16	16.11	
20	16QAM	1	0	15.80	16.05	16.11	16.8
20	16QAM	1	49	16.05	16.11	15.96	
20	16QAM	1	99	16.12	16.11	16.22	
20	16QAM	50	0	15.18	15.14	15.19	15.8
20	16QAM	50	24	15.21	15.10	15.14	
20	16QAM	50	50	15.26	15.12	15.13	
20	16QAM	100	0	15.18	15.17	15.15	15.8
20	64QAM	1	0	15.30	15.24	15.28	
20	64QAM	1	49	15.10	15.12	15.28	
20	64QAM	1	99	15.20	15.21	15.32	15.8
20	64QAM	50	0	15.12	15.09	15.10	
20	64QAM	50	24	15.11	15.13	15.26	
20	64QAM	50	50	15.15	15.12	15.30	12.8
20	64QAM	100	0	15.13	15.10	15.21	
20	256QAM	1	0	11.33	11.27	11.31	
20	256QAM	1	49	11.13	11.15	11.31	12.8
20	256QAM	1	99	11.23	11.24	11.35	
20	256QAM	50	0	11.15	11.12	11.13	12.8
20	256QAM	50	24	11.14	11.16	11.29	
20	256QAM	50	50	11.18	11.15	11.33	
20	256QAM	100	0	11.16	11.13	11.24	17.8
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	17.01	17.02	16.99	16.8
15	QPSK	1	37	16.94	16.90	16.99	
15	QPSK	1	74	16.85	16.88	16.92	
15	QPSK	36	0	16.01	16.10	16.01	16.8
15	QPSK	36	20	16.05	16.05	16.08	
15	QPSK	36	39	15.99	15.99	16.07	
15	QPSK	75	0	15.94	16.07	16.01	16.8
15	16QAM	1	0	16.14	16.33	15.96	
15	16QAM	1	37	16.42	16.37	16.37	
15	16QAM	1	74	16.04	16.05	16.11	15.8
15	16QAM	36	0	15.05	15.08	15.11	
15	16QAM	36	20	15.09	15.04	15.08	
15	16QAM	36	39	15.14	14.98	15.07	15.8
15	16QAM	75	0	15.10	15.11	15.08	
15	64QAM	1	0	15.18	15.17	15.13	
15	64QAM	1	37	15.15	15.18	15.17	15.8
15	64QAM	1	74	15.05	15.11	15.26	
15	64QAM	36	0	15.06	15.01	15.03	
15	64QAM	36	20	15.01	14.98	15.14	12.8
15	64QAM	36	39	15.00	15.03	15.19	
15	64QAM	75	0	15.03	14.96	15.14	
15	256QAM	1	0	11.26	11.12	11.18	12.8
15	256QAM	1	37	11.03	11.01	11.25	
15	256QAM	1	74	11.17	11.13	11.21	
15	256QAM	36	0	11.08	10.99	10.99	12.8
15	256QAM	36	20	11.01	11.07	11.23	
15	256QAM	36	39	11.09	11.02	11.18	
15	256QAM	75	0	11.02	11.07	11.17	17.8
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	16.98	17.07	17.02	16.8
10	QPSK	1	25	16.92	16.94	16.94	
10	QPSK	1	49	16.87	16.84	16.87	
10	QPSK	25	0	16.02	16.13	15.95	16.8
10	QPSK	25	12	16.00	16.08	16.09	
10	QPSK	25	25	15.99	16.05	16.12	
10	QPSK	50	0	15.84	16.02	16.04	16.8
10	16QAM	1	0	16.15	16.38	16.05	
10	16QAM	1	25	16.36	16.44	16.32	
10	16QAM	1	49	16.20	16.04	16.12	15.8
10	16QAM	25	0	15.09	15.02	15.10	
10	16QAM	25	12	15.15	14.95	15.03	
10	16QAM	25	25	15.16	15.05	15.02	15.8
10	16QAM	50	0	15.12	15.05	15.06	
10	64QAM	1	0	15.15	15.11	15.19	
10	64QAM	1	25	15.04	15.05	15.22	15.8
10	64QAM	1	49	15.10	15.07	15.22	
10	64QAM	25	0	15.04	15.01	15.03	
10	64QAM	25	12	15.03	15.01	15.18	15.8
10	64QAM	25	25	15.04	15.00	15.15	
10	64QAM	50	0	14.98	14.97	15.12	
10	256QAM	1	0	11.26	11.21	11.16	12.8
10	256QAM	1	25	11.05	11.05	11.20	
10	256QAM	1	49	11.10	11.18	11.21	
10	256QAM	25	0	11.05	11.03	11.00	12.8
10	256QAM	25	12	11.08	11.06	11.15	
10	256QAM	25	25	11.07	11.06	11.20	
10	256QAM	50	0	11.08	11.06	11.09	17.8
Channel				19975	20175	20375	
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	16.97	17.03	17.00	16.8
5	QPSK	1	12	16.95	16.91	16.92	
5	QPSK	1	24	16.88	16.88	16.88	
5	QPSK	12	0	16.06	16.15	15.93	16.8
5	QPSK	12	7	16.00	16.10	16.02	
5	QPSK	12	13	15.96	15.98	16.05	
5	QPSK	25	0	15.97	16.08	15.97	16.8
5	16QAM	1	0	16.12	16.45	16.03	
5	16QAM	1	0	16.12	16.45	16.03	

Band 4 (AWS Band) (dBm)-ANT 4							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	18.6
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	17.82	17.86	17.85	
20	QPSK	1	49	17.76	17.77	17.78	17.6
20	QPSK	1	99	17.68	17.70	17.73	
20	QPSK	50	0	16.87	16.93	16.80	
20	QPSK	50	24	16.85	16.88	16.89	17.6
20	QPSK	50	50	16.82	16.85	16.91	
20	QPSK	100	0	16.79	16.88	16.83	
20	16QAM	1	0	16.52	16.77	16.83	17.6
20	16QAM	1	49	16.77	16.83	16.68	
20	16QAM	1	99	16.84	16.83	16.94	
20	16QAM	50	0	15.90	15.86	15.91	16.6
20	16QAM	50	24	15.93	15.82	15.86	
20	16QAM	50	50	15.98	15.84	15.85	
20	16QAM	100	0	15.90	15.89	15.87	16.6
20	64QAM	1	0	16.02	15.96	16.00	
20	64QAM	1	49	15.82	15.84	16.00	
20	64QAM	1	99	15.92	15.93	16.04	16.6
20	64QAM	50	0	15.84	15.81	15.82	
20	64QAM	50	24	15.83	15.85	15.98	
20	64QAM	50	50	15.87	15.84	16.02	13.6
20	64QAM	100	0	15.85	15.82	15.93	
20	256QAM	1	0	12.05	11.99	12.03	
20	256QAM	1	49	11.85	11.87	12.03	13.6
20	256QAM	1	99	11.95	11.96	12.07	
20	256QAM	50	0	11.87	11.84	11.85	
20	256QAM	50	24	11.86	11.88	12.01	13.6
20	256QAM	50	50	11.90	11.87	12.05	
20	256QAM	100	0	11.88	11.85	11.96	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	18.6
15	QPSK	1	0	17.73	17.74	17.71	
15	QPSK	1	37	17.66	17.62	17.71	
15	QPSK	1	74	17.57	17.60	17.64	17.6
15	QPSK	36	0	16.73	16.82	16.73	
15	QPSK	36	20	16.77	16.77	16.80	
15	QPSK	36	39	16.71	16.71	16.79	17.6
15	QPSK	75	0	16.66	16.79	16.73	
15	16QAM	1	0	16.86	17.05	16.68	
15	16QAM	1	37	17.14	17.09	17.09	17.6
15	16QAM	1	74	16.76	16.77	16.83	
15	16QAM	36	0	15.77	15.80	15.83	
15	16QAM	36	20	15.81	15.76	15.80	16.6
15	16QAM	36	39	15.86	15.70	15.79	
15	16QAM	75	0	15.82	15.83	15.80	
15	64QAM	1	0	15.90	15.89	15.85	16.6
15	64QAM	1	37	15.87	15.90	15.89	
15	64QAM	1	74	15.77	15.83	15.98	
15	64QAM	36	0	15.78	15.73	15.75	16.6
15	64QAM	36	20	15.73	15.70	15.86	
15	64QAM	36	39	15.72	15.75	15.91	
15	64QAM	75	0	15.75	15.68	15.86	13.6
15	256QAM	1	0	11.98	11.84	11.90	
15	256QAM	1	37	11.75	11.73	11.97	
15	256QAM	1	74	11.89	11.85	11.93	13.6
15	256QAM	36	0	11.80	11.71	11.71	
15	256QAM	36	20	11.73	11.79	11.95	
15	256QAM	36	39	11.81	11.74	11.90	13.6
15	256QAM	75	0	11.74	11.79	11.89	
Channel				20000	20175	20300	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	18.6
10	QPSK	1	0	17.70	17.79	17.74	
10	QPSK	1	25	17.64	17.66	17.68	
10	QPSK	1	49	17.59	17.56	17.59	17.6
10	QPSK	25	0	16.74	16.85	16.67	
10	QPSK	25	12	16.72	16.80	16.81	
10	QPSK	25	25	16.71	16.77	16.84	17.6
10	QPSK	50	0	16.66	16.74	16.76	
10	16QAM	1	0	16.87	17.10	16.77	
10	16QAM	1	25	17.08	17.16	17.04	17.6
10	16QAM	1	49	16.92	16.76	16.84	
10	16QAM	25	0	15.81	15.74	15.82	
10	16QAM	25	12	15.87	15.67	15.75	16.6
10	16QAM	25	25	15.88	15.77	15.74	
10	16QAM	50	0	15.84	15.77	15.78	
10	64QAM	1	0	15.87	15.83	15.91	16.6
10	64QAM	1	25	15.76	15.77	15.94	
10	64QAM	1	49	15.82	15.79	15.94	
10	64QAM	25	0	15.76	15.73	15.75	16.6
10	64QAM	25	12	15.75	15.73	15.90	
10	64QAM	25	25	15.76	15.72	15.87	
10	64QAM	50	0	15.70	15.69	15.84	13.6
10	256QAM	1	0	11.98	11.93	11.88	
10	256QAM	1	25	11.77	11.77	11.92	
10	256QAM	1	49	11.82	11.90	11.93	13.6
10	256QAM	25	0	11.77	11.75	11.72	
10	256QAM	25	12	11.80	11.78	11.87	
10	256QAM	25	25	11.79	11.78	11.92	13.6
10	256QAM	50	0	11.80	11.78	11.81	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	18.6
5	QPSK	1	0	17.69	17.75	17.72	
5	QPSK	1	12	17.67	17.63	17.64	
5	QPSK	1	24	17.60	17.60	17.60	17.6
5	QPSK	12	0	16.78	16.87	16.65	
5	QPSK	12	7	16.72	16.82	16.74	
5	QPSK	12	13	16.68	16.70	16.77	17.6
5	QPSK	25	0	16.69	16.80	16.69	
5	16QAM	1	0	16.84	17.17	16.75	

5	16QAM	1	12	16.42	16.46	16.31	16.8
5	16QAM	1	24	16.04	15.97	16.12	
5	16QAM	12	0	15.04	15.06	15.09	
5	16QAM	12	7	15.06	14.97	15.03	15.8
5	16QAM	12	13	15.18	15.05	14.99	
5	16QAM	25	0	15.06	15.06	15.00	
5	64QAM	1	0	15.24	15.18	15.16	
5	64QAM	1	12	15.15	15.19	15.19	15.8
5	64QAM	1	24	15.14	15.10	15.25	
5	64QAM	12	0	14.97	14.98	15.02	
5	64QAM	12	7	15.04	15.05	15.15	15.8
5	64QAM	12	13	15.03	15.01	15.24	
5	64QAM	25	0	14.98	14.97	15.15	
5	256QAM	1	0	11.26	11.20	11.19	
5	256QAM	1	12	11.05	11.09	11.23	12.8
5	256QAM	1	24	11.09	11.12	11.24	
5	256QAM	12	0	11.08	11.02	11.04	
5	256QAM	12	7	11.02	11.03	11.19	12.8
5	256QAM	12	13	11.10	11.06	11.26	
5	256QAM	25	0	11.02	10.99	11.13	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	16.97	17.06	17.00	17.8
3	QPSK	1	8	16.98	16.91	17.00	
3	QPSK	1	14	16.84	16.89	16.92	
3	QPSK	8	0	16.01	16.11	16.00	16.8
3	QPSK	8	4	16.01	16.09	16.09	
3	QPSK	8	7	15.96	16.06	16.04	
3	QPSK	15	0	15.94	16.06	16.02	
3	16QAM	1	0	16.12	16.39	16.01	16.8
3	16QAM	1	8	16.38	16.47	16.32	
3	16QAM	1	14	16.00	16.00	16.14	
3	16QAM	8	0	15.08	15.01	15.09	15.8
3	16QAM	8	4	15.10	15.03	15.05	
3	16QAM	8	7	15.18	15.00	15.02	
3	16QAM	15	0	15.06	15.05	15.06	
3	64QAM	1	0	15.19	15.15	15.13	15.8
3	64QAM	1	8	15.18	15.18	15.18	
3	64QAM	1	14	15.11	15.07	15.19	
3	64QAM	8	0	15.01	14.99	15.01	15.8
3	64QAM	8	4	14.96	14.99	15.16	
3	64QAM	8	7	15.07	15.01	15.20	
3	64QAM	15	0	15.07	15.02	15.06	
3	256QAM	1	0	11.19	11.21	11.19	12.8
3	256QAM	1	8	11.00	11.07	11.24	
3	256QAM	1	14	11.08	11.16	11.21	
3	256QAM	8	0	11.02	10.97	10.99	12.8
3	256QAM	8	4	10.99	11.08	11.21	
3	256QAM	8	7	11.04	11.06	11.25	
3	256QAM	15	0	11.06	11.03	11.18	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	16.99	17.00	17.00	17.8
1.4	QPSK	1	3	16.93	16.90	16.98	
1.4	QPSK	1	5	16.89	16.92	16.87	
1.4	QPSK	3	0	17.06	17.13	16.98	16.8
1.4	QPSK	3	1	17.01	17.06	17.09	
1.4	QPSK	3	3	17.04	17.04	17.04	
1.4	QPSK	6	0	15.92	16.02	15.97	15.8
1.4	16QAM	1	0	16.18	16.38	16.04	
1.4	16QAM	1	3	16.40	16.47	16.35	
1.4	16QAM	1	5	15.98	16.01	16.11	15.8
1.4	16QAM	3	0	16.10	16.08	16.04	
1.4	16QAM	3	1	16.14	15.98	16.03	
1.4	16QAM	3	3	16.11	16.06	16.03	15.8
1.4	16QAM	6	0	15.12	15.07	15.09	
1.4	64QAM	1	0	15.15	15.12	15.15	
1.4	64QAM	1	3	15.04	14.99	15.20	12.8
1.4	64QAM	1	5	15.12	15.08	15.26	
1.4	64QAM	3	0	14.98	14.98	15.04	
1.4	64QAM	3	1	14.96	14.98	15.16	15.8
1.4	64QAM	3	3	15.02	15.05	15.16	
1.4	64QAM	6	0	15.03	15.04	15.14	
1.4	256QAM	1	0	11.26	11.14	11.20	12.8
1.4	256QAM	1	3	11.00	11.01	11.18	
1.4	256QAM	1	5	11.13	11.13	11.22	
1.4	256QAM	3	0	11.02	11.03	11.05	12.8
1.4	256QAM	3	1	11.00	11.10	11.23	
1.4	256QAM	3	3	11.10	11.08	11.21	
1.4	256QAM	6	0	11.09	11.01	11.09	

5	16QAM	1	12	17.14	17.18	17.03	17.6
5	16QAM	1	24	16.76	16.69	16.84	
5	16QAM	12	0	15.76	15.78	15.81	
5	16QAM	12	7	15.78	15.69	15.75	16.6
5	16QAM	12	13	15.90	15.77	15.71	
5	16QAM	25	0	15.78	15.78	15.72	
5	64QAM	1	0	15.96	15.90	15.88	
5	64QAM	1	12	15.87	15.91	15.91	16.6
5	64QAM	1	24	15.86	15.82	15.97	
5	64QAM	12	0	15.69	15.70	15.74	
5	64QAM	12	7	15.76	15.77	15.87	16.6
5	64QAM	12	13	15.75	15.73	15.96	
5	64QAM	25	0	15.70	15.69	15.87	
5	256QAM	1	0	11.98	11.92	11.91	
5	256QAM	1	12	11.77	11.81	11.95	13.6
5	256QAM	1	24	11.81	11.84	11.96	
5	256QAM	12	0	11.80	11.74	11.76	
5	256QAM	12	7	11.74	11.75	11.91	13.6
5	256QAM	12	13	11.82	11.78	11.98	
5	256QAM	25	0	11.74	11.71	11.85	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	17.69	17.78	17.72	18.6
3	QPSK	1	8	17.70	17.63	17.72	
3	QPSK	1	14	17.56	17.61	17.64	
3	QPSK	8	0	16.73	16.83	16.72	17.6
3	QPSK	8	4	16.73	16.81	16.81	
3	QPSK	8	7	16.68	16.78	16.76	
3	QPSK	15	0	16.66	16.78	16.74	
3	16QAM	1	0	16.84	17.11	16.73	17.6
3	16QAM	1	8	17.10	17.19	17.04	
3	16QAM	1	14	16.72	16.72	16.86	
3	16QAM	8	0	15.80	15.73	15.81	16.6
3	16QAM	8	4	15.82	15.75	15.77	
3	16QAM	8	7	15.90	15.72	15.74	
3	16QAM	15	0	15.78	15.77	15.78	
3	64QAM	1	0	15.91	15.87	15.85	16.6
3	64QAM	1	8	15.90	15.90	15.90	
3	64QAM	1	14	15.83	15.79	15.91	
3	64QAM	8	0	15.73	15.71	15.73	16.6
3	64QAM	8	4	15.68	15.71	15.88	
3	64QAM	8	7	15.79	15.73	15.92	
3	64QAM	15	0	15.79	15.74	15.78	
3	256QAM	1	0	11.91	11.93	11.91	13.6
3	256QAM	1	8	11.72	11.79	11.96	
3	256QAM	1	14	11.80	11.88	11.93	
3	256QAM	8	0	11.74	11.69	11.71	13.6
3	256QAM	8	4	11.71	11.80	11.93	
3	256QAM	8	7	11.76	11.78	11.97	
3	256QAM	15	0	11.78	11.75	11.90	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	17.71	17.72	17.72	18.6
1.4	QPSK	1	3	17.65	17.62	17.70	
1.4	QPSK	1	5	17.61	17.64	17.59	
1.4	QPSK	3	0	17.78	17.85	17.70	17.6
1.4	QPSK	3	1	17.73	17.78	17.81	
1.4	QPSK	3	3	17.76	17.76	17.76	
1.4	QPSK	6	0	16.64	16.74	16.69	16.6
1.4	16QAM	1	0	16.90	17.10	16.76	
1.4	16QAM	1	3	17.12	17.19	17.07	
1.4	16QAM	1	5	16.70	16.73	16.83	16.6
1.4	16QAM	3	0	16.82	16.80	16.76	
1.4	16QAM	3	1	16.86	16.70	16.75	
1.4	16QAM	3	3	16.83	16.78	16.75	16.6
1.4	16QAM	6	0	15.84	15.79	15.81	
1.4	64QAM	1	0	15.87	15.84	15.87	
1.4	64QAM	1	3	15.76	15.71	15.92	13.6
1.4	64QAM	1	5	15.84	15.80	15.98	
1.4	64QAM	3	0	15.70	15.70	15.76	
1.4	64QAM	3	1	15.68	15.70	15.88	16.6
1.4	64QAM	3	3	15.74	15.77	15.88	
1.4	64QAM	6	0	15.75	15.76	15.86	
1.4	256QAM	1	0	11.98	11.86	11.92	13.6
1.4	256QAM	1	3	11.72	11.73	11.90	
1.4	256QAM	1	5	11.85	11.85	11.94	
1.4	256QAM	3	0	11.74	11.75	11.77	13.6
1.4	256QAM	3	1	11.72	11.82	11.95	
1.4	256QAM	3	3	11.82	11.80	11.93	
1.4	256QAM	6	0	11.81	11.73	11.81	

Band 5 (Celluar Band) (dBm)-ANT 1								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				20450	20525	20600		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	21.36	21.37	21.29	22	
10	QPSK	1	25	21.32	21.35	21.24		
10	QPSK	1	49	21.24	21.31	21.06		
10	QPSK	25	0	20.42	20.50	20.36		
10	QPSK	25	12	20.49	20.46	20.41	21	
10	QPSK	25	25	20.41	20.37	20.40		
10	QPSK	50	0	20.30	20.32	20.29		
10	16QAM	1	0	20.39	20.29	20.25		
10	16QAM	1	25	20.38	20.56	20.42	21	
10	16QAM	1	49	20.35	20.36	20.28		
10	16QAM	25	0	19.34	19.25	19.22		
10	16QAM	25	12	19.26	19.22	19.19		
10	16QAM	25	25	19.34	19.30	19.25	20	
10	16QAM	50	0	19.38	19.24	19.21		
10	64QAM	1	0	19.40	19.47	19.36		
10	64QAM	1	25	19.27	19.25	19.31		
10	64QAM	1	49	19.42	19.22	19.38	20	
10	64QAM	25	0	19.37	19.30	19.25		
10	64QAM	25	12	19.45	19.25	19.30		
10	64QAM	25	25	19.29	19.30	19.25		
10	64QAM	50	0	19.30	19.27	19.29	20	
10	256QAM	1	0	15.44	15.51	15.40		
10	256QAM	1	25	15.31	15.29	15.35		
10	256QAM	1	49	15.46	15.26	15.42		
10	256QAM	25	0	15.41	15.34	15.29	17	
10	256QAM	25	12	15.49	15.29	15.34		
10	256QAM	25	25	15.33	15.34	15.29		
10	256QAM	50	0	15.34	15.31	15.33		
Channel				20425	20525	20625	Tune-up limit (dBm)	
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	21.33	21.34	21.26		22
5	QPSK	1	12	21.29	21.29	21.22		
5	QPSK	1	24	21.19	21.26	21.00		
5	QPSK	12	0	20.41	20.47	20.23		
5	QPSK	12	7	20.45	20.43	20.38	21	
5	QPSK	12	13	20.31	20.33	20.30		
5	QPSK	25	0	20.35	20.33	20.38		
5	16QAM	1	0	20.49	20.40	20.35		
5	16QAM	1	12	20.48	20.68	20.54	21	
5	16QAM	1	24	20.47	20.44	20.40		
5	16QAM	12	0	19.40	19.36	19.27		
5	16QAM	12	7	19.34	19.33	19.25		
5	16QAM	12	13	19.39	19.38	19.32	20	
5	16QAM	25	0	19.48	19.29	19.26		
5	64QAM	1	0	19.34	19.41	19.34		
5	64QAM	1	12	19.17	19.24	19.26		
5	64QAM	1	24	19.37	19.13	19.29	20	
5	64QAM	12	0	19.30	19.26	19.19		
5	64QAM	12	7	19.41	19.20	19.24		
5	64QAM	12	13	19.21	19.21	19.15		
5	64QAM	25	0	19.39	19.37	19.40	17	
5	256QAM	1	0	15.40	15.43	15.39		
5	256QAM	1	12	15.29	15.28	15.31		
5	256QAM	1	24	15.38	15.24	15.38		
5	256QAM	12	0	15.35	15.28	15.19	17	
5	256QAM	12	7	15.40	15.23	15.25		
5	256QAM	12	13	15.23	15.26	15.22		
5	256QAM	25	0	15.30	15.30	15.26		
Channel				20415	20525	20635	Tune-up limit (dBm)	
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	21.24	21.32	21.28		22
3	QPSK	1	8	21.31	21.29	21.17		
3	QPSK	1	14	21.15	21.24	20.98		
3	QPSK	8	0	20.35	20.46	20.24		
3	QPSK	8	4	20.45	20.43	20.36	21	
3	QPSK	8	7	20.17	20.22	20.20		
3	QPSK	15	0	20.22	20.21	20.25		
3	16QAM	1	0	20.36	20.20	20.21		
3	16QAM	1	8	20.36	20.54	20.35	21	
3	16QAM	1	14	20.28	20.26	20.26		
3	16QAM	8	0	19.31	19.19	19.15		
3	16QAM	8	4	19.17	19.19	19.18		
3	16QAM	8	7	19.28	19.20	19.17	20	
3	16QAM	15	0	19.34	19.21	19.18		
3	64QAM	1	0	19.32	19.38	19.33		
3	64QAM	1	8	19.26	19.20	19.30		
3	64QAM	1	14	19.38	19.19	19.35	20	
3	64QAM	8	0	19.32	19.21	19.21		
3	64QAM	8	4	19.41	19.24	19.26		
3	64QAM	8	7	19.27	19.21	19.19		
3	64QAM	15	0	19.20	19.26	19.20	17	
3	256QAM	1	0	15.39	15.43	15.36		
3	256QAM	1	8	15.27	15.22	15.32		
3	256QAM	1	14	15.37	15.19	15.41		
3	256QAM	8	0	15.54	15.40	15.33	17	
3	256QAM	8	4	15.56	15.40	15.47		
3	256QAM	8	7	15.41	15.42	15.38		
3	256QAM	15	0	15.42	15.43	15.40		
Channel				20407	20525	20643	Tune-up limit (dBm)	
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	21.34	21.35	21.22		22
1.4	QPSK	1	3	21.27	21.27	21.16		
1.4	QPSK	1	5	21.23	21.28	21.01		
1.4	QPSK	3	0	21.23	21.34	21.08		
1.4	QPSK	3	1	21.29	21.26	21.19		
1.4	QPSK	3	3	21.18	21.22	21.25		
1.4	QPSK	6	0	20.29	20.19	20.20		
1.4	16QAM	1	0	20.36	20.24	20.17	21	

Band 7 (2600MHz Band) (dBm)-ANT 5							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	20.07	20.13	20.09	21
20	QPSK	1	49	19.99	20.06	20.11	
20	QPSK	1	99	20.10	20.11	20.12	
20	QPSK	50	0	19.20	19.33	19.32	
20	QPSK	50	24	19.27	19.32	19.31	20
20	QPSK	50	50	19.30	19.29	19.31	
20	QPSK	100	0	19.25	19.26	19.21	
20	16QAM	1	0	19.21	19.15	19.20	
20	16QAM	1	49	19.28	19.27	19.19	20
20	16QAM	1	99	19.29	19.34	19.30	
20	16QAM	50	0	18.19	18.34	18.40	
20	16QAM	50	24	18.23	18.28	18.20	
20	16QAM	50	50	18.22	18.33	18.18	19
20	16QAM	100	0	18.21	18.26	18.31	
20	64QAM	1	0	18.24	18.28	18.32	
20	64QAM	1	49	18.28	18.34	18.09	
20	64QAM	1	99	18.23	18.10	18.00	19
20	64QAM	50	0	18.20	18.24	18.28	
20	64QAM	50	24	18.20	18.33	18.12	
20	64QAM	50	50	18.17	18.32	18.26	
20	64QAM	100	0	18.25	18.24	18.14	15
20	256QAM	1	0	14.28	14.32	14.36	
20	256QAM	1	49	14.32	14.38	14.13	15
20	256QAM	1	99	14.27	14.14	14.04	
20	256QAM	50	0	14.24	14.28	14.32	
20	256QAM	50	24	14.24	14.37	14.16	
20	256QAM	50	50	14.21	14.36	14.30	15
20	256QAM	100	0	14.29	14.28	14.18	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	20.01	20.11	20.05	21
15	QPSK	1	37	19.91	19.98	20.03	
15	QPSK	1	74	20.03	20.08	20.10	
15	QPSK	36	0	19.17	19.32	19.24	
15	QPSK	36	20	19.17	19.30	19.25	20
15	QPSK	36	39	19.24	19.28	19.29	
15	QPSK	75	0	19.27	19.24	19.19	
15	16QAM	1	0	19.17	19.14	19.12	
15	16QAM	1	37	19.23	19.18	19.18	20
15	16QAM	1	74	19.26	19.33	19.20	
15	16QAM	36	0	18.12	18.32	18.39	
15	16QAM	36	20	18.20	18.19	18.15	
15	16QAM	36	39	18.18	18.32	18.11	19
15	16QAM	75	0	18.19	18.25	18.30	
15	64QAM	1	0	18.20	18.18	18.30	
15	64QAM	1	37	18.19	18.29	18.05	
15	64QAM	1	74	18.15	18.05	17.98	19
15	64QAM	36	0	18.10	18.16	18.19	
15	64QAM	36	20	18.15	18.29	18.09	
15	64QAM	36	39	18.07	18.28	18.25	
15	64QAM	75	0	18.24	18.16	18.12	15
15	256QAM	1	0	14.25	14.27	14.30	
15	256QAM	1	37	14.28	14.29	14.05	
15	256QAM	1	74	14.22	14.07	14.00	
15	256QAM	36	0	14.16	14.23	14.26	15
15	256QAM	36	20	14.22	14.33	14.13	
15	256QAM	36	39	14.19	14.29	14.28	
15	256QAM	75	0	14.28	14.26	14.17	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	19.95	20.08	20.06	21
10	QPSK	1	25	19.95	20.04	20.01	
10	QPSK	1	49	20.02	20.02	20.05	
10	QPSK	25	0	19.12	19.31	19.22	
10	QPSK	25	12	19.22	19.28	19.26	20
10	QPSK	25	25	19.25	19.19	19.30	
10	QPSK	50	0	19.34	19.31	19.26	
10	16QAM	1	0	19.13	19.11	19.12	
10	16QAM	1	25	19.24	19.25	19.09	20
10	16QAM	1	49	19.23	19.25	19.28	
10	16QAM	25	0	18.17	18.25	18.38	
10	16QAM	25	12	18.20	18.25	18.10	
10	16QAM	25	25	18.19	18.25	18.12	19
10	16QAM	50	0	18.16	18.25	18.30	
10	64QAM	1	0	18.23	18.26	18.31	
10	64QAM	1	25	18.19	18.29	18.06	
10	64QAM	1	49	18.19	18.00	17.92	19
10	64QAM	25	0	18.11	18.18	18.23	
10	64QAM	25	12	18.16	18.32	18.10	
10	64QAM	25	25	18.14	18.22	18.20	
10	64QAM	50	0	18.18	18.23	18.06	15
10	256QAM	1	0	14.18	14.22	14.29	
10	256QAM	1	25	14.25	14.37	14.08	
10	256QAM	1	49	14.21	14.12	14.02	
10	256QAM	25	0	14.23	14.26	14.26	15
10	256QAM	25	12	14.21	14.30	14.09	
10	256QAM	25	25	14.15	14.28	14.24	
10	256QAM	50	0	14.21	14.18	14.10	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	20.01	20.12	19.99	21
5	QPSK	1	12	19.96	20.02	20.08	
5	QPSK	1	24	20.04	20.07	20.06	
5	QPSK	12	0	19.17	19.29	19.25	
5	QPSK	12	7	19.26	19.30	19.25	20
5	QPSK	12	13	19.22	19.25	19.28	
5	QPSK	25	0	19.27	19.30	19.20	
5	16QAM	1	0	19.20	19.06	19.13	

1.4	16QAM	1	3	20.36	20.54	20.32	21
1.4	16QAM	1	5	20.34	20.31	20.23	
1.4	16QAM	3	0	20.39	20.32	20.34	
1.4	16QAM	3	1	20.38	20.33	20.27	
1.4	16QAM	3	3	20.39	20.39	20.37	20
1.4	16QAM	6	0	19.50	19.36	19.33	
1.4	64QAM	1	0	19.53	19.55	19.41	20
1.4	64QAM	1	3	19.34	19.31	19.36	
1.4	64QAM	1	5	19.50	19.26	19.50	
1.4	64QAM	3	0	19.44	19.43	19.36	
1.4	64QAM	3	1	19.51	19.32	19.35	
1.4	64QAM	3	3	19.34	19.34	19.31	
1.4	64QAM	6	0	19.42	19.39	19.39	
1.4	256QAM	1	0	15.50	15.64	15.52	17
1.4	256QAM	1	3	15.40	15.38	15.39	
1.4	256QAM	1	5	15.54	15.30	15.51	
1.4	256QAM	3	0	15.46	15.39	15.39	
1.4	256QAM	3	1	15.62	15.42	15.43	
1.4	256QAM	3	3	15.43	15.40	15.34	
1.4	256QAM	6	0	15.38	15.35	15.37	
1.4	256QAM	6	0	15.38	15.35	15.37	17

5	16QAM	1	12	19.25	19.22	19.13	20
5	16QAM	1	24	19.21	19.32	19.26	
5	16QAM	12	0	18.17	18.24	18.32	19
5	16QAM	12	7	18.15	18.24	18.14	
5	16QAM	12	13	18.14	18.24	18.11	
5	16QAM	25	0	18.12	18.16	18.25	
5	64QAM	1	0	18.16	18.23	18.25	19
5	64QAM	1	12	18.23	18.32	18.00	
5	64QAM	1	24	18.19	18.08	17.92	
5	64QAM	12	0	18.16	18.16	18.22	
5	64QAM	12	7	18.10	18.27	18.02	19
5	64QAM	12	13	18.16	18.27	18.16	
5	64QAM	25	0	18.15	18.19	18.06	
5	256QAM	1	0	14.25	14.31	14.26	15
5	256QAM	1	12	14.27	14.30	14.07	
5	256QAM	1	24	14.23	14.13	13.96	
5	256QAM	12	0	14.19	14.20	14.26	
5	256QAM	12	7	14.15	14.27	14.09	15
5	256QAM	12	13	14.17	14.35	14.23	
5	256QAM	25	0	14.28	14.24	14.16	
5	256QAM	25	0	14.28	14.24	14.16	

Band 7 (2600MHz Band) (dBm)-ANT 0							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	17.1
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	16.25	16.31	16.27	16.1
20	QPSK	1	49	16.17	16.24	16.29	
20	QPSK	1	99	16.28	16.29	16.30	
20	QPSK	50	0	15.38	15.51	15.50	
20	QPSK	50	24	15.45	15.50	15.49	16.1
20	QPSK	50	50	15.48	15.47	15.49	
20	QPSK	100	0	15.43	15.45	15.40	
20	16QAM	1	0	15.39	15.33	15.38	
20	16QAM	1	49	15.46	15.45	15.37	15.1
20	16QAM	1	99	15.47	15.52	15.48	
20	16QAM	50	0	14.37	14.52	14.58	
20	16QAM	50	24	14.41	14.46	14.38	
20	16QAM	50	50	14.40	14.51	14.36	15.1
20	16QAM	100	0	14.39	14.44	14.49	
20	64QAM	1	0	14.42	14.46	14.50	
20	64QAM	1	49	14.46	14.52	14.27	
20	64QAM	1	99	14.41	14.28	14.18	15.1
20	64QAM	50	0	14.38	14.42	14.46	
20	64QAM	50	24	14.38	14.51	14.30	
20	64QAM	50	50	14.35	14.50	14.44	
20	64QAM	100	0	14.43	14.42	14.32	11.1
20	256QAM	1	0	10.46	10.50	10.54	
20	256QAM	1	49	10.50	10.56	10.31	
20	256QAM	1	99	10.45	10.32	10.22	
20	256QAM	50	0	10.42	10.46	10.50	11.1
20	256QAM	50	24	10.42	10.55	10.34	
20	256QAM	50	50	10.39	10.54	10.48	
20	256QAM	100	0	10.47	10.46	10.36	
Channel				20825	21100	21375	17.1
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	16.19	16.29	16.23	16.1
15	QPSK	1	37	16.09	16.16	16.21	
15	QPSK	1	74	16.21	16.26	16.28	
15	QPSK	36	0	15.35	15.50	15.42	
15	QPSK	36	20	15.35	15.48	15.43	16.1
15	QPSK	36	39	15.42	15.46	15.47	
15	QPSK	75	0	15.45	15.42	15.37	
15	16QAM	1	0	15.35	15.32	15.30	
15	16QAM	1	37	15.41	15.36	15.36	15.1
15	16QAM	1	74	15.44	15.51	15.38	
15	16QAM	36	0	14.30	14.50	14.57	
15	16QAM	36	20	14.38	14.37	14.33	
15	16QAM	36	39	14.36	14.50	14.29	15.1
15	16QAM	75	0	14.37	14.43	14.48	
15	64QAM	1	0	14.38	14.36	14.48	
15	64QAM	1	37	14.37	14.47	14.23	
15	64QAM	1	74	14.33	14.23	14.16	15.1
15	64QAM	36	0	14.28	14.34	14.37	
15	64QAM	36	20	14.33	14.47	14.27	
15	64QAM	36	39	14.25	14.46	14.43	
15	64QAM	75	0	14.42	14.34	14.30	11.1
15	256QAM	1	0	10.43	10.45	10.48	
15	256QAM	1	37	10.46	10.47	10.23	
15	256QAM	1	74	10.40	10.25	10.18	
15	256QAM	36	0	10.34	10.41	10.44	11.1
15	256QAM	36	20	10.40	10.51	10.31	
15	256QAM	36	39	10.37	10.47	10.46	
15	256QAM	75	0	10.46	10.44	10.35	
Channel				20800	21100	21400	17.1
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	16.13	16.26	16.24	16.1
10	QPSK	1	25	16.13	16.22	16.19	
10	QPSK	1	49	16.20	16.20	16.23	
10	QPSK	25	0	15.30	15.49	15.40	
10	QPSK	25	12	15.40	15.46	15.44	16.1
10	QPSK	25	25	15.43	15.37	15.48	
10	QPSK	50	0	15.52	15.49	15.44	
10	16QAM	1	0	15.31	15.29	15.30	
10	16QAM	1	25	15.42	15.43	15.27	15.1
10	16QAM	1	49	15.41	15.43	15.46	
10	16QAM	25	0	14.35	14.43	14.56	
10	16QAM	25	12	14.38	14.43	14.28	
10	16QAM	25	25	14.37	14.43	14.30	15.1
10	16QAM	50	0	14.34	14.43	14.48	
10	64QAM	1	0	14.41	14.44	14.49	
10	64QAM	1	25	14.37	14.47	14.24	
10	64QAM	1	49	14.37	14.18	14.10	15.1
10	64QAM	25	0	14.29	14.36	14.41	
10	64QAM	25	12	14.34	14.50	14.28	
10	64QAM	25	25	14.32	14.40	14.38	
10	64QAM	50	0	14.36	14.41	14.24	11.1
10	256QAM	1	0	10.36	10.40	10.47	
10	256QAM	1	25	10.43	10.55	10.26	
10	256QAM	1	49	10.39	10.30	10.20	
10	256QAM	25	0	10.41	10.44	10.44	11.1
10	256QAM	25	12	10.39	10.48	10.27	
10	256QAM	25	25	10.33	10.46	10.42	
10	256QAM	50	0	10.39	10.36	10.28	
Channel				20775	21100	21425	17.1
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	16.19	16.30	16.17	16.1
5	QPSK	1	12	16.14	16.20	16.26	
5	QPSK	1	24	16.22	16.25	16.24	
5	QPSK	12	0	15.35	15.47	15.43	
5	QPSK	12	7	15.44	15.48	15.43	16.1
5	QPSK	12	13	15.40	15.43	15.46	
5	QPSK	25	0	15.45	15.48	15.38	
5	16QAM	1	0	15.38	15.24	15.31	

Band 7 (2600MHz Band) (dBm)-ANT 6							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	17.10	17.16	17.12	17.8
20	QPSK	1	49	17.02	17.09	17.14	
20	QPSK	1	99	17.13	17.14	17.15	
20	QPSK	50	0	16.23	16.36	16.35	
20	QPSK	50	24	16.30	16.35	16.34	16.8
20	QPSK	50	50	16.33	16.32	16.34	
20	QPSK	100	0	16.38	16.39	16.31	
20	16QAM	1	0	16.24	16.18	16.23	
20	16QAM	1	49	16.31	16.30	16.22	16.8
20	16QAM	1	99	16.32	16.37	16.33	
20	16QAM	50	0	15.22	15.37	15.43	
20	16QAM	50	24	15.26	15.31	15.23	
20	16QAM	50	50	15.25	15.36	15.21	15.8
20	16QAM	100	0	15.24	15.29	15.34	
20	64QAM	1	0	15.27	15.31	15.35	
20	64QAM	1	49	15.31	15.37	15.12	
20	64QAM	1	99	15.26	15.13	15.03	15.8
20	64QAM	50	0	15.23	15.27	15.31	
20	64QAM	50	24	15.23	15.36	15.15	
20	64QAM	50	50	15.20	15.35	15.29	
20	64QAM	100	0	15.28	15.27	15.17	11.8
20	256QAM	1	0	11.31	11.35	11.39	
20	256QAM	1	49	11.35	11.41	11.16	
20	256QAM	1	99	11.30	11.17	11.07	
20	256QAM	50	0	11.27	11.31	11.35	11.8
20	256QAM	50	24	11.27	11.40	11.19	
20	256QAM	50	50	11.24	11.39	11.33	
20	256QAM	100	0	11.32	11.31	11.21	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	17.04	17.14	17.08	17.8
15	QPSK	1	37	16.94	17.01	17.06	
15	QPSK	1	74	17.06	17.11	17.13	
15	QPSK	36	0	16.20	16.35	16.27	
15	QPSK	36	20	16.20	16.33	16.28	16.8
15	QPSK	36	39	16.27	16.31	16.32	
15	QPSK	75	0	16.30	16.27	16.22	
15	16QAM	1	0	16.20	16.17	16.15	
15	16QAM	1	37	16.26	16.21	16.21	16.8
15	16QAM	1	74	16.29	16.36	16.23	
15	16QAM	36	0	15.15	15.35	15.42	
15	16QAM	36	20	15.23	15.22	15.18	
15	16QAM	36	39	15.21	15.35	15.14	15.8
15	16QAM	75	0	15.22	15.28	15.33	
15	64QAM	1	0	15.23	15.21	15.33	
15	64QAM	1	37	15.22	15.32	15.08	
15	64QAM	1	74	15.18	15.08	15.01	15.8
15	64QAM	36	0	15.13	15.19	15.22	
15	64QAM	36	20	15.18	15.32	15.12	
15	64QAM	36	39	15.10	15.31	15.28	
15	64QAM	75	0	15.27	15.19	15.15	11.8
15	256QAM	1	0	11.28	11.30	11.33	
15	256QAM	1	37	11.31	11.32	11.08	
15	256QAM	1	74	11.25	11.10	11.03	
15	256QAM	36	0	11.19	11.26	11.29	11.8
15	256QAM	36	20	11.25	11.36	11.16	
15	256QAM	36	39	11.22	11.32	11.31	
15	256QAM	75	0	11.31	11.29	11.20	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	16.98	17.11	17.09	17.8
10	QPSK	1	25	16.98	17.07	17.04	
10	QPSK	1	49	17.05	17.05	17.08	
10	QPSK	25	0	16.15	16.34	16.25	
10	QPSK	25	12	16.25	16.31	16.29	16.8
10	QPSK	25	25	16.28	16.22	16.33	
10	QPSK	50	0	16.37	16.34	16.29	
10	16QAM	1	0	16.16	16.14	16.15	
10	16QAM	1	25	16.27	16.28	16.12	16.8
10	16QAM	1	49	16.26	16.28	16.31	
10	16QAM	25	0	15.20	15.28	15.41	
10	16QAM	25	12	15.23	15.28	15.13	
10	16QAM	25	25	15.22	15.28	15.15	15.8
10	16QAM	50	0	15.19	15.28	15.33	
10	64QAM	1	0	15.26	15.29	15.34	
10	64QAM	1	25	15.22	15.32	15.09	
10	64QAM	1	49	15.22	15.03	14.95	15.8
10	64QAM	25	0	15.14	15.21	15.26	
10	64QAM	25	12	15.19	15.35	15.13	
10	64QAM	25	25	15.17	15.25	15.23	
10	64QAM	50	0	15.21	15.26	15.09	11.8
10	256QAM	1	0	11.21	11.25	11.32	
10	256QAM	1	25	11.28	11.40	11.11	
10	256QAM	1	49	11.24	11.15	11.05	
10	256QAM	25	0	11.26	11.29	11.29	11.8
10	256QAM	25	12	11.24	11.33	11.12	
10	256QAM	25	25	11.18	11.31	11.27	
10	256QAM	50	0	11.24	11.21	11.13	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	17.04	17.15	17.02	17.8
5	QPSK	1	12	16.99	17.05	17.11	
5	QPSK	1	24	17.07	17.10	17.09	
5	QPSK	12	0	16.20	16.32	16.28	
5	QPSK	12	7	16.29	16.33	16.28	16.8
5	QPSK	12	13	16.25	16.28	16.31	
5	QPSK	25	0	16.30	16.33	16.23	
5	16QAM	1	0	16.23	16.09	16.16	



5	16QAM	1	12	15.43	15.40	15.31	16.1
5	16QAM	1	24	15.39	15.50	15.44	
5	16QAM	12	0	14.35	14.42	14.50	
5	16QAM	12	7	14.33	14.42	14.32	15.1
5	16QAM	12	13	14.32	14.42	14.29	
5	16QAM	25	0	14.30	14.34	14.43	
5	64QAM	1	0	14.34	14.41	14.43	15.1
5	64QAM	1	12	14.41	14.50	14.18	
5	64QAM	1	24	14.37	14.26	14.10	
5	64QAM	12	0	14.34	14.34	14.40	15.1
5	64QAM	12	7	14.28	14.45	14.20	
5	64QAM	12	13	14.34	14.45	14.34	
5	64QAM	25	0	14.33	14.37	14.24	11.1
5	256QAM	1	0	10.43	10.49	10.44	
5	256QAM	1	12	10.45	10.48	10.25	
5	256QAM	1	24	10.41	10.31	10.14	11.1
5	256QAM	12	0	10.37	10.38	10.44	
5	256QAM	12	7	10.33	10.45	10.27	
5	256QAM	12	13	10.35	10.53	10.41	11.1
5	256QAM	25	0	10.46	10.42	10.34	

5	16QAM	1	12	16.28	16.25	16.16	16.8
5	16QAM	1	24	16.24	16.35	16.29	
5	16QAM	12	0	15.20	15.27	15.35	
5	16QAM	12	7	15.18	15.27	15.17	15.8
5	16QAM	12	13	15.17	15.27	15.14	
5	16QAM	25	0	15.15	15.19	15.28	
5	64QAM	1	0	15.19	15.26	15.28	15.8
5	64QAM	1	12	15.26	15.35	15.03	
5	64QAM	1	24	15.22	15.11	14.95	
5	64QAM	12	0	15.19	15.19	15.25	15.8
5	64QAM	12	7	15.13	15.30	15.05	
5	64QAM	12	13	15.19	15.30	15.19	
5	64QAM	25	0	15.18	15.22	15.09	11.8
5	256QAM	1	0	11.28	11.34	11.29	
5	256QAM	1	12	11.30	11.33	11.10	
5	256QAM	1	24	11.26	11.16	10.99	11.8
5	256QAM	12	0	11.22	11.23	11.29	
5	256QAM	12	7	11.18	11.30	11.12	
5	256QAM	12	13	11.20	11.38	11.26	11.8
5	256QAM	25	0	11.31	11.27	11.19	

Band 7 (2600MHz Band) (dBm)-ANT 4							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	16.11	16.17	16.13	16.8
20	QPSK	1	49	16.03	16.10	16.15	
20	QPSK	1	99	16.14	16.15	16.16	
20	QPSK	50	0	15.24	15.37	15.36	
20	QPSK	50	24	15.31	15.36	15.35	15.8
20	QPSK	50	50	15.34	15.33	15.35	
20	QPSK	100	0	15.29	15.30	15.28	
20	16QAM	1	0	15.25	15.19	15.24	
20	16QAM	1	49	15.32	15.31	15.23	15.8
20	16QAM	1	99	15.33	15.38	15.34	
20	16QAM	50	0	14.23	14.38	14.44	
20	16QAM	50	24	14.27	14.32	14.24	
20	16QAM	50	50	14.26	14.37	14.22	14.8
20	16QAM	100	0	14.25	14.30	14.35	
20	64QAM	1	0	14.28	14.32	14.36	
20	64QAM	1	49	14.32	14.38	14.13	
20	64QAM	1	99	14.27	14.14	14.04	14.8
20	64QAM	50	0	14.24	14.28	14.32	
20	64QAM	50	24	14.24	14.37	14.16	
20	64QAM	50	50	14.21	14.36	14.30	
20	64QAM	100	0	14.29	14.28	14.18	10.8
20	256QAM	1	0	10.32	10.36	10.40	
20	256QAM	1	49	10.36	10.42	10.17	
20	256QAM	1	99	10.31	10.18	10.08	
20	256QAM	50	0	10.28	10.32	10.36	10.8
20	256QAM	50	24	10.28	10.41	10.20	
20	256QAM	50	50	10.25	10.40	10.34	
20	256QAM	100	0	10.33	10.32	10.22	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	16.05	16.15	16.09	16.8
15	QPSK	1	37	15.95	16.02	16.07	
15	QPSK	1	74	16.07	16.12	16.14	
15	QPSK	36	0	15.21	15.36	15.28	
15	QPSK	36	20	15.21	15.34	15.29	15.8
15	QPSK	36	39	15.28	15.32	15.33	
15	QPSK	75	0	15.31	15.28	15.23	
15	16QAM	1	0	15.21	15.18	15.16	
15	16QAM	1	37	15.27	15.22	15.22	15.8
15	16QAM	1	74	15.30	15.37	15.24	
15	16QAM	36	0	14.16	14.36	14.43	
15	16QAM	36	20	14.24	14.23	14.19	
15	16QAM	36	39	14.22	14.36	14.15	14.8
15	16QAM	75	0	14.23	14.29	14.34	
15	64QAM	1	0	14.24	14.22	14.34	
15	64QAM	1	37	14.23	14.33	14.09	
15	64QAM	1	74	14.19	14.09	14.02	14.8
15	64QAM	36	0	14.14	14.20	14.23	
15	64QAM	36	20	14.19	14.33	14.13	
15	64QAM	36	39	14.11	14.32	14.29	
15	64QAM	75	0	14.28	14.20	14.16	10.8
15	256QAM	1	0	10.29	10.31	10.34	
15	256QAM	1	37	10.32	10.33	10.09	
15	256QAM	1	74	10.26	10.11	10.04	
15	256QAM	36	0	10.20	10.27	10.30	10.8
15	256QAM	36	20	10.26	10.37	10.17	
15	256QAM	36	39	10.23	10.33	10.32	
15	256QAM	75	0	10.32	10.30	10.21	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	15.99	16.12	16.10	16.8
10	QPSK	1	25	15.99	16.08	16.05	
10	QPSK	1	49	16.06	16.06	16.09	
10	QPSK	25	0	15.16	15.35	15.26	
10	QPSK	25	12	15.26	15.32	15.30	15.8
10	QPSK	25	25	15.29	15.23	15.34	
10	QPSK	50	0	15.38	15.35	15.30	
10	16QAM	1	0	15.17	15.15	15.16	
10	16QAM	1	25	15.28	15.29	15.13	15.8
10	16QAM	1	49	15.27	15.29	15.32	
10	16QAM	25	0	14.21	14.29	14.42	
10	16QAM	25	12	14.24	14.29	14.14	
10	16QAM	25	25	14.23	14.29	14.16	14.8
10	16QAM	50	0	14.20	14.29	14.34	
10	64QAM	1	0	14.27	14.30	14.35	
10	64QAM	1	25	14.23	14.33	14.10	
10	64QAM	1	49	14.23	14.04	13.96	14.8
10	64QAM	25	0	14.15	14.22	14.27	
10	64QAM	25	12	14.20	14.36	14.14	
10	64QAM	25	25	14.18	14.26	14.24	
10	64QAM	50	0	14.22	14.27	14.10	10.8
10	256QAM	1	0	10.22	10.26	10.33	
10	256QAM	1	25	10.29	10.41	10.12	
10	256QAM	1	49	10.25	10.16	10.06	
10	256QAM	25	0	10.27	10.30	10.30	
10	256QAM	25	12	10.25	10.34	10.13	10.8
10	256QAM	25	25	10.19	10.32	10.28	
10	256QAM	50	0	10.25	10.22	10.14	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	16.05	16.16	16.03	16.8
5	QPSK	1	12	16.00	16.06	16.12	
5	QPSK	1	24	16.08	16.11	16.10	
5	QPSK	12	0	15.21	15.33	15.29	
5	QPSK	12	7	15.30	15.34	15.29	15.8
5	QPSK	12	13	15.26	15.29	15.32	
5	QPSK	25	0	15.31	15.34	15.24	
5	16QAM	1	0	15.24	15.10	15.17	

Band 12 (700MHz Low Band) (dBm)-ANT 0							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	21.48	21.53	21.41	22.3
10	QPSK	1	25	21.41	21.44	21.45	
10	QPSK	1	49	21.31	21.46	21.48	
10	QPSK	25	0	20.47	20.52	20.51	
10	QPSK	25	12	20.49	20.40	20.47	21.3
10	QPSK	25	25	20.49	20.44	20.41	
10	QPSK	50	0	20.43	20.42	20.48	
10	16QAM	1	0	20.67	20.64	20.51	
10	16QAM	1	25	20.42	20.49	20.49	21.3
10	16QAM	1	49	20.47	20.42	20.53	
10	16QAM	25	0	19.45	19.47	19.58	
10	16QAM	25	12	19.43	19.48	19.45	
10	16QAM	25	25	19.55	19.52	19.54	20.3
10	16QAM	50	0	19.59	19.53	19.50	
10	64QAM	1	0	19.59	19.54	19.44	
10	64QAM	1	25	19.65	19.60	19.58	
10	64QAM	1	49	19.71	19.73	19.67	20.3
10	64QAM	25	0	19.43	19.63	19.47	
10	64QAM	25	12	19.50	19.56	19.58	
10	64QAM	25	25	19.45	19.52	19.46	
10	64QAM	50	0	19.49	19.47	19.50	16.3
10	256QAM	1	0	15.43	15.38	15.28	
10	256QAM	1	25	15.49	15.44	15.42	
10	256QAM	1	49	15.55	15.57	15.51	
10	256QAM	25	0	15.27	15.47	15.31	16.3
10	256QAM	25	12	15.34	15.40	15.42	
10	256QAM	25	25	15.29	15.36	15.30	
10	256QAM	50	0	15.33	15.31	15.34	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	21.28	21.43	21.31	22.3
5	QPSK	1	12	21.36	21.43	21.36	
5	QPSK	1	24	21.30	21.41	21.42	
5	QPSK	12	0	20.44	20.45	20.47	
5	QPSK	12	7	20.40	20.35	20.44	21.3
5	QPSK	12	13	20.41	20.36	20.40	
5	QPSK	25	0	20.42	20.39	20.44	
5	16QAM	1	0	20.63	20.59	20.41	
5	16QAM	1	12	20.32	20.47	20.47	21.3
5	16QAM	1	24	20.42	20.41	20.46	
5	16QAM	12	0	19.36	19.45	19.50	
5	16QAM	12	7	19.42	19.40	19.37	
5	16QAM	12	13	19.47	19.44	19.48	20.3
5	16QAM	25	0	19.57	19.43	19.48	
5	64QAM	1	0	19.57	19.46	19.40	
5	64QAM	1	12	19.57	19.53	19.56	
5	64QAM	1	24	19.67	19.69	19.57	20.3
5	64QAM	12	0	19.39	19.58	19.44	
5	64QAM	12	7	19.43	19.53	19.51	
5	64QAM	12	13	19.41	19.47	19.37	
5	64QAM	25	0	19.48	19.44	19.49	16.3
5	256QAM	1	0	15.38	15.29	15.24	
5	256QAM	1	12	15.46	15.35	15.39	
5	256QAM	1	24	15.49	15.50	15.48	
5	256QAM	12	0	15.24	15.41	15.25	16.3
5	256QAM	12	7	15.29	15.38	15.32	
5	256QAM	12	13	15.25	15.28	15.23	
5	256QAM	25	0	15.27	15.24	15.27	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	21.33	21.51	21.39	22.3
3	QPSK	1	8	21.39	21.39	21.44	
3	QPSK	1	14	21.29	21.45	21.38	
3	QPSK	8	0	20.46	20.46	20.46	
3	QPSK	8	4	20.44	20.30	20.43	21.3
3	QPSK	8	7	20.40	20.39	20.34	
3	QPSK	15	0	20.37	20.39	20.43	
3	16QAM	1	0	20.60	20.59	20.41	
3	16QAM	1	8	20.37	20.42	20.47	21.3
3	16QAM	1	14	20.37	20.37	20.51	
3	16QAM	8	0	19.43	19.41	19.56	
3	16QAM	8	4	19.34	19.38	19.37	
3	16QAM	8	7	19.52	19.48	19.49	20.3
3	16QAM	15	0	19.58	19.48	19.40	
3	64QAM	1	0	19.55	19.49	19.40	
3	64QAM	1	8	19.62	19.59	19.50	
3	64QAM	1	14	19.64	19.66	19.60	20.3
3	64QAM	8	0	19.41	19.62	19.37	
3	64QAM	8	4	19.41	19.48	19.54	
3	64QAM	8	7	19.44	19.45	19.40	
3	64QAM	15	0	19.43	19.41	19.42	16.3
3	256QAM	1	0	15.39	15.33	15.22	
3	256QAM	1	8	15.42	15.36	15.41	
3	256QAM	1	14	15.50	15.50	15.48	
3	256QAM	8	0	15.19	15.43	15.25	16.3
3	256QAM	8	4	15.25	15.35	15.40	
3	256QAM	8	7	15.26	15.30	15.25	
3	256QAM	15	0	15.24	15.28	15.29	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	21.32	21.52	21.33	22.3
1.4	QPSK	1	3	21.39	21.38	21.42	
1.4	QPSK	1	5	21.30	21.36	21.41	
1.4	QPSK	3	0	21.43	21.47	21.47	
1.4	QPSK	3	1	21.48	21.36	21.45	
1.4	QPSK	3	3	21.40	21.36	21.34	
1.4	QPSK	6	0	20.38	20.38	20.40	21.3
1.4	16QAM	1	0	20.62	20.57	20.49	



5	16QAM	1	12	15.29	15.26	15.17	15.8
5	16QAM	1	24	15.25	15.36	15.30	
5	16QAM	12	0	14.21	14.28	14.36	
5	16QAM	12	7	14.19	14.28	14.18	14.8
5	16QAM	12	13	14.18	14.28	14.15	
5	16QAM	25	0	14.16	14.20	14.29	
5	64QAM	1	0	14.20	14.27	14.29	14.8
5	64QAM	1	12	14.27	14.36	14.04	
5	64QAM	1	24	14.23	14.12	13.96	
5	64QAM	12	0	14.20	14.20	14.26	14.8
5	64QAM	12	7	14.14	14.31	14.06	
5	64QAM	12	13	14.20	14.31	14.20	
5	64QAM	25	0	14.19	14.23	14.10	10.8
5	256QAM	1	0	10.29	10.35	10.30	
5	256QAM	1	12	10.31	10.34	10.11	
5	256QAM	1	24	10.27	10.17	10.00	10.8
5	256QAM	12	0	10.23	10.24	10.30	
5	256QAM	12	7	10.19	10.31	10.13	
5	256QAM	12	13	10.21	10.39	10.27	10.8
5	256QAM	25	0	10.32	10.28	10.20	

1.4	16QAM	1	3	20.35	20.40	20.42	21.3
1.4	16QAM	1	5	20.46	20.32	20.50	
1.4	16QAM	3	0	20.36	20.46	20.50	
1.4	16QAM	3	1	20.37	20.39	20.36	20.3
1.4	16QAM	3	3	20.52	20.47	20.50	
1.4	16QAM	6	0	19.53	19.44	19.46	
1.4	64QAM	1	0	19.57	19.46	19.36	20.3
1.4	64QAM	1	3	19.57	19.52	19.54	
1.4	64QAM	1	5	19.70	19.68	19.61	
1.4	64QAM	3	0	19.41	19.56	19.46	20.3
1.4	64QAM	3	1	19.41	19.49	19.57	
1.4	64QAM	3	3	19.40	19.48	19.36	
1.4	64QAM	6	0	19.47	19.37	19.49	16.3
1.4	256QAM	1	0	15.35	15.32	15.23	
1.4	256QAM	1	3	15.45	15.37	15.38	
1.4	256QAM	1	5	15.51	15.49	15.43	16.3
1.4	256QAM	3	0	15.22	15.43	15.24	
1.4	256QAM	3	1	15.30	15.36	15.39	
1.4	256QAM	3	3	15.20	15.34	15.27	16.3
1.4	256QAM	6	0	15.28	15.24	15.33	

Band 13(700MHz Band) (dBm)-ANT 0							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					23230		
Frequency (MHz)					762		
10	QPSK	1	0		20.53		21.3
10	QPSK	1	25		20.50		
10	QPSK	1	49		20.40		
10	QPSK	25	0		19.58		20.3
10	QPSK	25	12		19.50		
10	QPSK	25	25		19.51		
10	QPSK	50	0		19.52		20.3
10	16QAM	1	0		19.67		
10	16QAM	1	25		19.64		
10	16QAM	1	49		19.75		19.3
10	16QAM	25	0		18.61		
10	16QAM	25	12		18.61		
10	16QAM	25	25		18.53		19.3
10	16QAM	50	0		18.57		
10	64QAM	1	0		18.69		
10	64QAM	1	25		18.78		19.3
10	64QAM	1	49		18.72		
10	64QAM	25	0		18.59		
10	64QAM	25	12		18.56		19.3
10	64QAM	25	25		18.60		
10	64QAM	50	0		18.51		
10	256QAM	1	0		14.58		15.3
10	256QAM	1	25		14.67		
10	256QAM	1	49		14.61		
10	256QAM	25	0		14.48		15.3
10	256QAM	25	12		14.45		
10	256QAM	25	25		14.49		
10	256QAM	50	0		14.40		
Channel				23205	23230	23255	
Frequency (MHz)				779.5	782	784.5	Tune-up limit (dBm)
5	QPSK	1	0	20.51	20.52	20.49	21.3
5	QPSK	1	12	20.46	20.42	20.48	
5	QPSK	1	24	20.33	20.30	20.39	
5	QPSK	12	0	19.56	19.52	19.53	20.3
5	QPSK	12	7	19.51	19.48	19.51	
5	QPSK	12	13	19.50	19.48	19.42	
5	QPSK	25	0	19.42	19.48	19.42	20.3
5	16QAM	1	0	19.65	19.66	19.65	
5	16QAM	1	12	19.56	19.62	19.56	
5	16QAM	1	24	19.69	19.66	19.67	19.3
5	16QAM	12	0	18.56	18.57	18.59	
5	16QAM	12	7	18.52	18.53	18.55	
5	16QAM	12	13	18.45	18.48	18.51	19.3
5	16QAM	25	0	18.54	18.47	18.54	
5	64QAM	1	0	18.67	18.61	18.67	
5	64QAM	1	12	18.69	18.74	18.76	19.3
5	64QAM	1	24	18.62	18.65	18.62	
5	64QAM	12	0	18.58	18.58	18.49	
5	64QAM	12	7	18.51	18.46	18.53	19.3
5	64QAM	12	13	18.58	18.56	18.53	
5	64QAM	25	0	18.45	18.48	18.47	
5	256QAM	1	0	14.48	14.50	14.56	15.3
5	256QAM	1	12	14.62	14.60	14.61	
5	256QAM	1	24	14.54	14.51	14.51	
5	256QAM	12	0	14.40	14.42	14.38	15.3
5	256QAM	12	7	14.39	14.43	14.41	
5	256QAM	12	13	14.45	14.47	14.45	
5	256QAM	25	0	14.36	14.39	14.36	

Band 17 (700MHz Band) (dBm)-ANT 0							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	21.58	21.60	21.45	22.3
10	QPSK	1	25	21.57	21.59	21.55	
10	QPSK	1	49	21.48	21.56	21.58	
10	QPSK	25	0	20.68	20.69	20.67	21.3
10	QPSK	25	12	20.65	20.64	20.64	
10	QPSK	25	25	20.66	20.60	20.61	
10	QPSK	50	0	20.67	20.65	20.65	21.3
10	16QAM	1	0	20.79	20.95	20.62	
10	16QAM	1	25	20.61	20.67	20.72	
10	16QAM	1	49	20.75	20.81	20.83	20.3
10	16QAM	25	0	19.68	19.72	19.60	
10	16QAM	25	12	19.74	19.76	19.75	
10	16QAM	25	25	19.76	19.70	19.69	20.3
10	16QAM	50	0	19.61	19.65	19.66	
10	64QAM	1	0	19.66	19.85	19.74	
10	64QAM	1	25	19.89	19.93	19.80	20.3
10	64QAM	1	49	19.74	19.73	19.71	
10	64QAM	25	0	19.62	19.74	19.63	
10	64QAM	25	12	19.61	19.68	19.65	20.3
10	64QAM	25	25	19.69	19.72	19.68	
10	64QAM	50	0	19.65	19.61	19.66	
10	256QAM	1	0	15.67	15.86	15.75	16.3
10	256QAM	1	25	15.90	15.94	15.81	
10	256QAM	1	49	15.75	15.74	15.72	
10	256QAM	25	0	15.63	15.75	15.64	16.3
10	256QAM	25	12	15.62	15.69	15.66	
10	256QAM	25	25	15.70	15.73	15.69	
10	256QAM	50	0	15.66	15.62	15.67	
Channel				23755	23790	23825	
Frequency (MHz)				706.5	710	713.5	Tune-up limit (dBm)
5	QPSK	1	0	21.57	21.58	21.44	22.3
5	QPSK	1	12	21.50	21.53	21.54	
5	QPSK	1	24	21.45	21.49	21.52	
5	QPSK	12	0	20.61	20.64	20.64	21.3
5	QPSK	12	7	20.56	20.54	20.56	
5	QPSK	12	13	20.56	20.53	20.59	
5	QPSK	25	0	20.62	20.58	20.60	21.3
5	16QAM	1	0	20.76	20.85	20.55	
5	16QAM	1	12	20.60	20.60	20.62	
5	16QAM	1	24	20.66	20.74	20.73	20.3
5	16QAM	12	0	19.65	19.68	19.53	
5	16QAM	12	7	19.66	19.67	19.71	
5	16QAM	12	13	19.75	19.66	19.61	20.3
5	16QAM	25	0	19.57	19.64	19.57	
5	64QAM	1	0	19.63	19.84	19.70	
5	64QAM	1	12	19.88	19.88	19.72	20.3
5	64QAM	1	24	19.66	19.72	19.67	
5	64QAM	12	0	19.52	19.67	19.53	
5	64QAM	12	7	19.52	19.63	19.62	20.3
5	64QAM	12	13	19.66	19.68	19.59	
5	64QAM	25	0	19.56	19.60	19.64	
5	256QAM	1	0	15.59	15.84	15.68	16.3
5	256QAM	1	12	15.86	15.84	15.78	
5	256QAM	1	24	15.70	15.64	15.62	
5	256QAM	12	0	15.59	15.71	15.60	16.3
5	256QAM	12	7	15.58	15.59	15.61	
5	256QAM	12	13	15.69	15.66	15.61	
5	256QAM	25	0	15.59	15.54	15.57	



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5	16QAM	1	12	18.71	18.73	18.71	19.5
5	16QAM	1	24	18.53	18.60	18.65	
5	16QAM	12	0	17.78	17.54	17.54	
5	16QAM	12	7	17.60	17.64	17.47	18.5
5	16QAM	12	13	17.57	17.53	17.58	
5	16QAM	25	0	17.60	17.63	17.52	
5	64QAM	1	0	17.61	17.66	17.64	
5	64QAM	1	12	17.62	17.59	17.72	18.5
5	64QAM	1	24	17.71	17.61	17.58	
5	64QAM	12	0	17.65	17.57	17.59	
5	64QAM	12	7	17.64	17.63	17.62	18.5
5	64QAM	12	13	17.58	17.60	17.54	
5	64QAM	25	0	17.69	17.66	17.46	
5	256QAM	1	0	13.71	13.71	13.69	
5	256QAM	1	12	13.66	13.74	13.76	14.5
5	256QAM	1	24	13.69	13.74	13.72	
5	256QAM	12	0	13.64	13.60	13.68	
5	256QAM	12	7	13.72	13.75	13.61	14.5
5	256QAM	12	13	13.56	13.70	13.65	
5	256QAM	25	0	13.79	13.73	13.53	
Channel				26055	26365	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1882.5	1913.5	
3	QPSK	1	0	19.63	19.64	19.52	20.5
3	QPSK	1	8	19.53	19.55	19.53	
3	QPSK	1	14	19.57	19.52	19.50	
3	QPSK	8	0	18.75	18.59	18.59	
3	QPSK	8	4	18.66	18.68	18.69	19.5
3	QPSK	8	7	18.68	18.55	18.62	
3	QPSK	15	0	18.68	18.62	18.74	
3	16QAM	1	0	18.64	18.64	18.69	
3	16QAM	1	8	18.75	18.68	18.68	19.5
3	16QAM	1	14	18.51	18.67	18.69	
3	16QAM	8	0	17.69	17.63	17.61	
3	16QAM	8	4	17.64	17.67	17.48	
3	16QAM	8	7	17.53	17.51	17.63	18.5
3	16QAM	15	0	17.55	17.67	17.54	
3	64QAM	1	0	17.60	17.65	17.62	
3	64QAM	1	8	17.65	17.62	17.71	
3	64QAM	1	14	17.71	17.64	17.58	18.5
3	64QAM	8	0	17.64	17.58	17.65	
3	64QAM	8	4	17.66	17.72	17.63	
3	64QAM	8	7	17.57	17.56	17.56	
3	64QAM	15	0	17.74	17.68	17.50	14.5
3	256QAM	1	0	13.74	13.75	13.61	
3	256QAM	1	8	13.64	13.65	13.70	
3	256QAM	1	14	13.72	13.68	13.67	
3	256QAM	8	0	13.65	13.70	13.63	14.5
3	256QAM	8	4	13.64	13.76	13.68	
3	256QAM	8	7	13.64	13.71	13.55	
3	256QAM	15	0	13.72	13.78	13.51	
Channel				26047	26365	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	19.66	19.59	19.55	20.5
1.4	QPSK	1	3	19.55	19.58	19.54	
1.4	QPSK	1	5	19.54	19.44	19.51	
1.4	QPSK	3	0	19.73	19.58	19.68	
1.4	QPSK	3	1	19.69	19.67	19.63	19.5
1.4	QPSK	3	3	19.66	19.57	19.64	
1.4	QPSK	6	0	18.71	18.63	18.64	
1.4	16QAM	1	0	18.56	18.65	18.59	
1.4	16QAM	1	3	18.73	18.68	18.62	18.5
1.4	16QAM	1	5	18.47	18.64	18.71	
1.4	16QAM	3	0	18.68	18.56	18.64	
1.4	16QAM	3	1	18.67	18.68	18.52	
1.4	16QAM	3	3	18.62	18.56	18.57	17.5
1.4	16QAM	6	0	17.52	17.63	17.53	
1.4	64QAM	1	0	17.68	17.65	17.60	
1.4	64QAM	1	3	17.59	17.62	17.70	
1.4	64QAM	1	5	17.70	17.66	17.56	18.5
1.4	64QAM	3	0	17.63	17.61	17.57	
1.4	64QAM	3	1	17.60	17.67	17.59	
1.4	64QAM	3	3	17.53	17.58	17.51	
1.4	64QAM	6	0	17.67	17.69	17.44	18.5
1.4	256QAM	1	0	13.67	13.74	13.61	
1.4	256QAM	1	3	13.62	13.69	13.76	
1.4	256QAM	1	5	13.75	13.73	13.73	
1.4	256QAM	3	0	13.75	13.70	13.72	14.5
1.4	256QAM	3	1	13.70	13.80	13.63	
1.4	256QAM	3	3	13.64	13.61	13.62	
1.4	256QAM	6	0	13.74	13.72	13.57	

5	16QAM	1	12	16.85	16.87	16.85	17.6
5	16QAM	1	24	16.67	16.74	16.79	
5	16QAM	12	0	15.92	15.68	15.68	
5	16QAM	12	7	15.74	15.78	15.61	16.6
5	16QAM	12	13	15.71	15.67	15.72	
5	16QAM	25	0	15.74	15.77	15.66	
5	64QAM	1	0	15.75	15.80	15.78	
5	64QAM	1	12	15.76	15.73	15.86	16.6
5	64QAM	1	24	15.85	15.75	15.72	
5	64QAM	12	0	15.79	15.71	15.73	
5	64QAM	12	7	15.78	15.77	15.76	16.6
5	64QAM	12	13	15.72	15.74	15.68	
5	64QAM	25	0	15.83	15.80	15.60	
5	256QAM	1	0	11.85	11.85	11.83	
5	256QAM	1	12	11.80	11.88	11.90	12.6
5	256QAM	1	24	11.83	11.88	11.86	
5	256QAM	12	0	11.78	11.74	11.82	
5	256QAM	12	7	11.86	11.89	11.75	12.6
5	256QAM	12	13	11.70	11.84	11.79	
5	256QAM	25	0	11.93	11.87	11.67	
Channel				26055	26365	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1882.5	1913.5	
3	QPSK	1	0	17.77	17.78	17.66	18.6
3	QPSK	1	8	17.67	17.69	17.67	
3	QPSK	1	14	17.71	17.66	17.64	
3	QPSK	8	0	16.89	16.73	16.73	
3	QPSK	8	4	16.80	16.82	16.83	17.6
3	QPSK	8	7	16.82	16.69	16.76	
3	QPSK	15	0	16.82	16.76	16.88	
3	16QAM	1	0	16.78	16.78	16.83	
3	16QAM	1	8	16.89	16.82	16.82	17.6
3	16QAM	1	14	16.65	16.81	16.83	
3	16QAM	8	0	15.83	15.77	15.75	
3	16QAM	8	4	15.78	15.81	15.62	
3	16QAM	8	7	15.67	15.65	15.77	16.6
3	16QAM	15	0	15.69	15.81	15.68	
3	64QAM	1	0	15.74	15.79	15.76	
3	64QAM	1	8	15.79	15.76	15.85	
3	64QAM	1	14	15.85	15.78	15.72	16.6
3	64QAM	8	0	15.78	15.72	15.79	
3	64QAM	8	4	15.80	15.86	15.77	
3	64QAM	8	7	15.71	15.70	15.70	
3	64QAM	15	0	15.88	15.82	15.64	12.6
3	256QAM	1	0	11.88	11.89	11.75	
3	256QAM	1	8	11.78	11.79	11.84	
3	256QAM	1	14	11.86	11.82	11.81	
3	256QAM	8	0	11.79	11.84	11.77	12.6
3	256QAM	8	4	11.78	11.80	11.82	
3	256QAM	8	7	11.78	11.85	11.69	
3	256QAM	15	0	11.86	11.92	11.65	
Channel				26047	26365	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	17.80	17.73	17.69	18.6
1.4	QPSK	1	3	17.69	17.72	17.68	
1.4	QPSK	1	5	17.68	17.58	17.65	
1.4	QPSK	3	0	17.87	17.72	17.82	
1.4	QPSK	3	1	17.83	17.81	17.77	17.6
1.4	QPSK	3	3	17.80	17.71	17.78	
1.4	QPSK	6	0	16.85	16.77	16.78	
1.4	16QAM	1	0	16.70	16.79	16.73	
1.4	16QAM	1	3	16.87	16.82	16.76	22.1
1.4	16QAM	1	5	16.61	16.78	16.85	
1.4	16QAM	3	0	16.82	16.70	16.78	
1.4	16QAM	3	1	16.81	16.82	16.66	
1.4	16QAM	3	3	16.76	16.70	16.71	21.1
1.4	16QAM	6	0	15.66	15.77	15.67	
1.4	64QAM	1	0	15.82	15.79	15.74	
1.4	64QAM	1	3	15.73	15.76	15.84	
1.4	64QAM	1	5	15.84	15.80	15.70	16.6
1.4	64QAM	3	0	15.77	15.75	15.71	
1.4	64QAM	3	1	15.74	15.81	15.73	
1.4	64QAM	3	3	15.67	15.72	15.65	
1.4	64QAM	6	0	15.81	15.83	15.58	16.6
1.4	256QAM	1	0	11.81	11.88	11.75	
1.4	256QAM	1	3	11.76	11.83	11.90	
1.4	256QAM	1	5	11.89	11.87	11.87	
1.4	256QAM	3	0	11.89	11.84	11.86	12.6
1.4	256QAM	3	1	11.84	11.94	11.77	
1.4	256QAM	3	3	11.78	11.75	11.76	
1.4	256QAM	6	0	11.88	11.86	11.71	

5	16QAM	1	12	17.38	17.40	17.38	18.1
5	16QAM	1	24	17.20	17.27	17.32	
5	16QAM	12	0	16.45	16.21	16.21	
5	16QAM	12	7	16.27	16.31	16.14	17.1
5	16QAM	12	13	16.24	16.20	16.25	
5	16QAM	25	0	16.27	16.30	16.19	
5	64QAM	1	0	16.28	16.33	16.31	
5	64QAM	1	12	16.29	16.26	16.39	17.1
5	64QAM	1	24	16.38	16.28	16.25	
5	64QAM	12	0	16.32	16.24	16.26	
5	64QAM	12	7	16.31	16.30	16.29	17.1
5	64QAM	12	13	16.25	16.27	16.21	
5	64QAM	25	0	16.36	16.33	16.13	
5	256QAM	1	0	12.38	12.38	12.36	
5	256QAM	1	12	12.33	12.41	12.43	13.1
5	256QAM	1	24	12.36	12.41	12.39	
5	256QAM	12	0	12.31	12.27	12.35	
5	256QAM	12	7	12.39	12.42	12.28	13.1
5	256QAM	12	13	12.23	12.37	12.32	
5	256QAM	25	0	12.46	12.40	12.20	
Channel				26055	26365	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1882.5	1913.5	
3	QPSK	1	0	18.30	18.31	18.19	19.1
3	QPSK	1	8	18.20	18.22	18.20	
3	QPSK	1	14	18.24	18.19	18.17	
3	QPSK	8	0	17.42	17.26	17.26	
3	QPSK	8	4	17.33	17.35	17.36	18.1
3	QPSK	8	7	17.35	17.22	17.29	
3	QPSK	15	0	17.35	17.29	17.41	
3	16QAM	1	0	17.31	17.31	17.36	
3	16QAM	1	8	17.42	17.35	17.35	18.1
3	16QAM	1	14	17.18	17.34	17.36	
3	16QAM	8	0	16.36	16.30	16.28	
3	16QAM	8	4	16.31	16.34	16.15	17.1
3	16QAM	8	7	16.20	16.18	16.30	
3	16QAM	15	0	16.22	16.34	16.21	
3	64QAM	1	0	16.27	16.32	16.29	
3	64QAM	1	8	16.32	16.29	16.38	17.1
3	64QAM	1	14	16.38	16.31	16.25	
3	64QAM	8	0	16.31	16.25	16.32	
3	64QAM	8	4	16.33	16.39	16.30	17.1
3	64QAM	8	7	16.24	16.23	16.23	
3	64QAM	15	0	16.41	16.35	16.17	
3	256QAM	1	0	12.41	12.42	12.28	
3	256QAM	1	8	12.31	12.32	12.37	13.1
3	256QAM	1	14	12.39	12.35	12.34	
3	256QAM	8	0	12.32	12.37	12.30	
3	256QAM	8	4	12.31	12.43	12.35	13.1
3	256QAM	8	7	12.31	12.38	12.22	
3	256QAM	15	0	12.39	12.45	12.18	
Channel				26047	26365	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	18.33	18.26	18.22	19.1
1.4	QPSK	1	3	18.22	18.25	18.21	
1.4	QPSK	1	5	18.21	18.11	18.18	
1.4	QPSK	3	0	18.40	18.25	18.35	
1.4	QPSK	3	1	18.36	18.34	18.30	
1.4	QPSK	3	3	18.33	18.24	18.31	
1.4	QPSK	6	0	17.38	17.30	17.31	18.1
1.4	16QAM	1	0	17.23	17.32	17.26	
1.4	16QAM	1	3	17.40	17.35	17.29	
1.4	16QAM	1	5	17.14	17.31	17.38	22.8
1.4	16QAM	3	0	17.35	17.23	17.31	
1.4	16QAM	3	1	17.34	17.35	17.19	
1.4	16QAM	3	3	17.29	17.23	17.24	
1.4	16QAM	6	0	16.19	16.30	16.20	21.8
1.4	64QAM	1	0	16.35	16.32	16.27	
1.4	64QAM	1	3	16.26	16.29	16.37	
1.4	64QAM	1	5	16.37	16.33	16.23	17.1
1.4	64QAM	3	0	16.30	16.28	16.24	
1.4	64QAM	3	1	16.27	16.34	16.26	
1.4	64QAM	3	3	16.20	16.25	16.18	
1.4	64QAM	6	0	16.34	16.36	16.11	17.1
1.4	256QAM	1	0	12.34	12.41	12.28	
1.4	256QAM	1	3	12.29	12.36	12.43	
1.4	256QAM	1	5	12.42	12.40	12.40	13.1
1.4	256QAM	3	0	12.42	12.37	12.39	
1.4	256QAM	3	1	12.37	12.47	12.30	
1.4	256QAM	3	3	12.31	12.28	12.29	
1.4	256QAM	6	0	12.41	12.39	12.24	13.1

5	16QAM	1	12	16.99	17.01	16.99	17.8
5	16QAM	1	24	16.81	16.88	16.93	
5	16QAM	12	0	16.06	15.82	15.82	
5	16QAM	12	7	15.88	15.92	15.75	16.8
5	16QAM	12	13	15.85	15.81	15.86	
5	16QAM	25	0	15.88	15.91	15.80	
5	64QAM	1	0	15.89	15.94	15.92	
5	64QAM	1	12	15.90	15.87	16.00	16.8
5	64QAM	1	24	15.99	15.89	15.86	
5	64QAM	12	0	15.93	15.85	15.87	
5	64QAM	12	7	15.92	15.91	15.90	16.8
5	64QAM	12	13	15.86	15.88	15.82	
5	64QAM	25	0	15.97	15.94	15.74	
5	256QAM	1	0	11.99	11.99	11.97	
5	256QAM	1	12	11.94	12.02	12.04	12.8
5	256QAM	1	24	11.97	12.02	12.00	
5	256QAM	12	0	11.92	11.88	11.96	
5	256QAM	12	7	12.00	12.03	11.89	12.8
5	256QAM	12	13	11.84	11.98	11.93	
5	256QAM	25	0	12.07	12.01	11.81	
Channel				26055	26365	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1882.5	1913.5	
3	QPSK	1	0	17.91	17.92	17.80	18.8
3	QPSK	1	8	17.81	17.83	17.81	
3	QPSK	1	14	17.85	17.80	17.78	
3	QPSK	8	0	17.03	16.87	16.87	
3	QPSK	8	4	16.94	16.96	16.97	17.8
3	QPSK	8	7	16.96	16.83	16.90	
3	QPSK	15	0	16.96	16.90	17.02	
3	16QAM	1	0	16.92	16.92	16.97	
3	16QAM	1	8	17.03	16.96	16.96	17.8
3	16QAM	1	14	16.79	16.95	16.97	
3	16QAM	8	0	15.97	15.91	15.89	
3	16QAM	8	4	15.92	15.95	15.76	16.8
3	16QAM	8	7	15.81	15.79	15.91	
3	16QAM	15	0	15.83	15.95	15.82	
3	64QAM	1	0	15.88	15.93	15.90	
3	64QAM	1	8	15.93	15.90	15.99	16.8
3	64QAM	1	14	15.99	15.92	15.86	
3	64QAM	8	0	15.92	15.86	15.93	
3	64QAM	8	4	15.94	16.00	15.91	16.8
3	64QAM	8	7	15.85	15.84	15.84	
3	64QAM	15	0	16.02	15.96	15.78	
3	256QAM	1	0	12.02	12.03	11.89	
3	256QAM	1	8	11.92	11.93	11.98	12.8
3	256QAM	1	14	12.00	11.96	11.95	
3	256QAM	8	0	11.93	11.98	11.91	
3	256QAM	8	4	11.92	12.04	11.96	12.8
3	256QAM	8	7	11.92	11.99	11.83	
3	256QAM	15	0	12.00	12.06	11.79	
Channel				26047	26365	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	17.94	17.87	17.83	18.8
1.4	QPSK	1	3	17.83	17.86	17.82	
1.4	QPSK	1	5	17.82	17.72	17.79	
1.4	QPSK	3	0	18.01	17.86	17.96	
1.4	QPSK	3	1	17.97	17.95	17.91	
1.4	QPSK	3	3	17.94	17.85	17.92	
1.4	QPSK	6	0	16.99	16.91	16.92	17.8
1.4	16QAM	1	0	16.84	16.93	16.87	
1.4	16QAM	1	3	17.01	16.96	16.90	
1.4	16QAM	1	5	16.75	16.92	16.99	23.3
1.4	16QAM	3	0	16.96	16.84	16.92	
1.4	16QAM	3	1	16.95	16.96	16.80	
1.4	16QAM	3	3	16.90	16.84	16.85	
1.4	16QAM	6	0	15.80	15.91	15.81	22.3
1.4	64QAM	1	0	15.96	15.93	15.88	
1.4	64QAM	1	3	15.87	15.90	15.98	
1.4	64QAM	1	5	15.98	15.94	15.84	22.3
1.4	64QAM	3	0	15.91	15.89	15.85	
1.4	64QAM	3	1	15.88	15.95	15.87	
1.4	64QAM	3	3	15.81	15.86	15.79	
1.4	64QAM	6	0	15.95	15.97	15.72	16.8
1.4	256QAM	1	0	11.95	12.02	11.89	
1.4	256QAM	1	3	11.90	11.97	12.04	
1.4	256QAM	1	5	12.03	12.01	12.01	12.8
1.4	256QAM	3	0	12.03	11.98	12.00	
1.4	256QAM	3	1	11.98	12.08	11.91	
1.4	256QAM	3	3	11.92	11.89	11.90	
1.4	256QAM	6	0	12.02	12.00	11.85	12.8

3	16QAM	1	8	23.22	23.21	23.16	24
3	16QAM	1	14	23.03	23.10	23.14	
3	16QAM	8	0	22.31	22.34	22.22	
3	16QAM	8	4	22.06	22.21	22.27	23
3	16QAM	8	7	22.28	22.33	22.33	
3	16QAM	15	0	22.33	22.36	22.24	
3	64QAM	1	0	22.22	22.33	22.38	
3	64QAM	1	8	22.37	22.31	22.32	23
3	64QAM	1	14	22.16	22.13	22.27	
3	64QAM	8	0	22.35	22.26	22.28	
3	64QAM	8	4	22.20	22.24	22.14	23
3	64QAM	8	7	22.31	22.30	22.29	
3	64QAM	15	0	22.28	22.34	22.18	
3	256QAM	1	0	18.10	18.21	18.17	
3	256QAM	1	8	18.29	18.24	18.22	19
3	256QAM	1	14	18.09	18.07	17.94	
3	256QAM	8	0	18.27	18.13	18.20	
3	256QAM	8	4	18.15	18.11	18.08	19
3	256QAM	8	7	18.17	18.14	18.18	
3	256QAM	15	0	18.19	18.22	18.10	
Channel				26697	26865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	24.22	24.26	24.23	25
1.4	QPSK	1	3	24.22	24.21	24.20	
1.4	QPSK	1	5	24.24	24.20	24.16	
1.4	QPSK	3	0	24.30	24.15	24.11	
1.4	QPSK	3	1	24.17	24.18	24.10	
1.4	QPSK	3	3	24.15	24.14	24.11	
1.4	QPSK	6	0	23.31	23.25	23.25	24
1.4	16QAM	1	0	23.38	23.13	23.35	
1.4	16QAM	1	3	23.15	23.18	23.19	24
1.4	16QAM	1	5	23.06	23.19	23.05	
1.4	16QAM	3	0	23.34	23.27	23.20	
1.4	16QAM	3	1	23.15	23.20	23.23	
1.4	16QAM	3	3	23.33	23.29	23.33	
1.4	16QAM	6	0	22.37	22.30	22.32	23
1.4	64QAM	1	0	22.21	22.37	22.30	
1.4	64QAM	1	3	22.41	22.32	22.33	23
1.4	64QAM	1	5	22.24	22.18	22.04	
1.4	64QAM	3	0	22.29	22.23	22.27	
1.4	64QAM	3	1	22.27	22.29	22.20	
1.4	64QAM	3	3	22.26	22.31	22.25	
1.4	64QAM	6	0	22.21	22.33	22.23	
1.4	256QAM	1	0	18.12	18.16	18.17	19
1.4	256QAM	1	3	18.23	18.16	18.18	
1.4	256QAM	1	5	18.10	18.10	17.93	
1.4	256QAM	3	0	18.28	18.09	18.16	
1.4	256QAM	3	1	18.13	18.12	18.03	
1.4	256QAM	3	3	18.16	18.15	18.17	
1.4	256QAM	6	0	18.15	18.27	18.03	19

3	16QAM	1	8	20.17	20.16	20.11	21
3	16QAM	1	14	19.98	20.05	20.09	
3	16QAM	8	0	19.26	19.29	19.17	
3	16QAM	8	4	19.01	19.16	19.22	20
3	16QAM	8	7	19.23	19.28	19.28	
3	16QAM	15	0	19.28	19.31	19.19	
3	64QAM	1	0	19.17	19.28	19.33	
3	64QAM	1	8	19.32	19.26	19.27	20
3	64QAM	1	14	19.11	19.08	19.22	
3	64QAM	8	0	19.30	19.21	19.23	
3	64QAM	8	4	19.15	19.19	19.09	20
3	64QAM	8	7	19.26	19.25	19.24	
3	64QAM	15	0	19.23	19.29	19.13	
3	256QAM	1	0	15.05	15.16	15.12	
3	256QAM	1	8	15.24	15.19	15.17	16
3	256QAM	1	14	15.04	15.02	14.89	
3	256QAM	8	0	15.22	15.08	15.15	
3	256QAM	8	4	15.10	15.06	15.03	16
3	256QAM	8	7	15.12	15.09	15.13	
3	256QAM	15	0	15.14	15.17	15.05	
Channel				26697	26865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	21.17	21.21	21.18	22
1.4	QPSK	1	3	21.17	21.16	21.15	
1.4	QPSK	1	5	21.19	21.15	21.11	
1.4	QPSK	3	0	21.25	21.10	21.06	
1.4	QPSK	3	1	21.12	21.13	21.05	
1.4	QPSK	3	3	21.10	21.09	21.06	
1.4	QPSK	6	0	20.26	20.20	20.20	21
1.4	16QAM	1	0	20.33	20.08	20.30	
1.4	16QAM	1	3	20.10	20.13	20.14	21
1.4	16QAM	1	5	20.01	20.14	20.00	
1.4	16QAM	3	0	20.29	20.22	20.15	
1.4	16QAM	3	1	20.10	20.15	20.18	
1.4	16QAM	3	3	20.28	20.24	20.28	
1.4	16QAM	6	0	19.32	19.25	19.27	20
1.4	64QAM	1	0	19.16	19.32	19.25	
1.4	64QAM	1	3	19.36	19.27	19.28	20
1.4	64QAM	1	5	19.19	19.13	18.99	
1.4	64QAM	3	0	19.24	19.18	19.22	
1.4	64QAM	3	1	19.22	19.24	19.15	
1.4	64QAM	3	3	19.21	19.26	19.20	
1.4	64QAM	6	0	19.16	19.28	19.18	20
1.4	256QAM	1	0	15.07	15.11	15.12	16
1.4	256QAM	1	3	15.18	15.11	15.13	
1.4	256QAM	1	5	15.05	15.05	14.88	
1.4	256QAM	3	0	15.23	15.04	15.11	
1.4	256QAM	3	1	15.08	15.07	14.96	
1.4	256QAM	3	3	15.11	15.10	15.12	
1.4	256QAM	6	0	15.10	15.22	14.98	16

Band 30 (dBm)-ANT 4							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					27710		
Frequency (MHz)					2310		
10	QPSK	1	0		19.08		19.8
10	QPSK	1	25		18.96		
10	QPSK	1	49		18.96		
10	QPSK	25	0		18.09		18.8
10	QPSK	25	12		18.05		
10	QPSK	25	25		18.04		
10	QPSK	50	0		18.06		18.8
10	16QAM	1	0		18.25		
10	16QAM	1	25		18.22		
10	16QAM	1	49		18.29		17.8
10	16QAM	25	0		17.11		
10	16QAM	25	12		17.06		
10	16QAM	25	25		17.07		17.8
10	16QAM	50	0		17.04		
10	64QAM	1	0		17.31		
10	64QAM	1	25		17.05		17.8
10	64QAM	1	49		17.21		
10	64QAM	25	0		17.15		
10	64QAM	25	12		17.10		17.8
10	64QAM	25	25		17.05		
10	64QAM	50	0		17.07		
10	256QAM	1	0		14.00		14.8
10	256QAM	1	25		13.74		
10	256QAM	1	49		13.90		
10	256QAM	25	0		13.83		14.8
10	256QAM	25	12		13.78		
10	256QAM	25	25		13.73		
10	256QAM	50	0		13.75		
Channel				27685	27710	27735	
Frequency (MHz)				2307.5	2310	2312.5	Tune-up limit (dBm)
5	QPSK	1	0	18.97	19.07	18.96	19.8
5	QPSK	1	12	18.88	18.88	18.91	
5	QPSK	1	24	18.92	18.86	18.93	
5	QPSK	12	0	17.98	18.07	17.99	18.8
5	QPSK	12	7	18.04	17.97	17.99	
5	QPSK	12	13	18.02	17.98	18.01	
5	QPSK	25	0	17.90	17.97	18.00	18.8
5	16QAM	1	0	18.23	18.17	18.23	
5	16QAM	1	12	18.18	18.14	18.18	
5	16QAM	1	24	18.21	18.22	18.27	17.8
5	16QAM	12	0	17.03	17.02	17.10	
5	16QAM	12	7	16.99	16.99	17.03	
5	16QAM	12	13	16.98	17.06	16.96	17.8
5	16QAM	25	0	16.96	16.98	16.97	
5	64QAM	1	0	17.25	17.27	17.21	
5	64QAM	1	12	16.99	16.94	17.03	17.8
5	64QAM	1	24	17.20	17.15	17.16	
5	64QAM	12	0	17.13	17.06	17.05	
5	64QAM	12	7	17.09	17.07	17.09	17.8
5	64QAM	12	13	17.02	17.00	16.93	
5	64QAM	25	0	17.03	16.95	16.97	
5	256QAM	1	0	13.91	13.97	13.89	14.8
5	256QAM	1	12	13.72	13.71	13.70	
5	256QAM	1	24	13.87	13.85	13.83	
5	256QAM	12	0	13.71	13.77	13.73	14.8
5	256QAM	12	7	13.71	13.72	13.74	
5	256QAM	12	13	13.61	13.62	13.66	
5	256QAM	25	0	13.65	13.67	13.73	

Band 30 (dBm)-ANT 6							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					27710		
Frequency (MHz)					2310		
10	QPSK	1	0		19.05		19.8
10	QPSK	1	25		19.03		
10	QPSK	1	49		18.99		
10	QPSK	25	0		18.11		18.8
10	QPSK	25	12		18.00		
10	QPSK	25	25		18.01		
10	QPSK	50	0		18.03		18.8
10	16QAM	1	0		18.22		
10	16QAM	1	25		18.19		
10	16QAM	1	49		18.26		17.8
10	16QAM	25	0		17.08		
10	16QAM	25	12		17.03		
10	16QAM	25	25		17.04		17.8
10	16QAM	50	0		17.01		
10	64QAM	1	0		17.28		
10	64QAM	1	25		17.02		17.8
10	64QAM	1	49		17.18		
10	64QAM	25	0		17.12		
10	64QAM	25	12		17.07		17.8
10	64QAM	25	25		17.02		
10	64QAM	50	0		17.04		
10	256QAM	1	0		13.97		14.8
10	256QAM	1	25		13.71		
10	256QAM	1	49		13.87		
10	256QAM	25	0		13.80		14.8
10	256QAM	25	12		13.75		
10	256QAM	25	25		13.70		
10	256QAM	50	0		13.72		
Channel				27685	27710	27735	
Frequency (MHz)				2307.5	2310	2312.5	Tune-up limit (dBm)
5	QPSK	1	0	18.94	19.04	18.93	19.8
5	QPSK	1	12	18.85	18.85	18.88	
5	QPSK	1	24	18.89	18.83	18.90	
5	QPSK	12	0	17.95	18.04	17.96	18.8
5	QPSK	12	7	18.01	17.94	17.96	
5	QPSK	12	13	17.99	17.95	17.98	
5	QPSK	25	0	17.87	17.94	17.97	18.8
5	16QAM	1	0	18.20	18.14	18.20	
5	16QAM	1	12	18.15	18.11	18.15	
5	16QAM	1	24	18.18	18.19	18.24	17.8
5	16QAM	12	0	17.00	16.99	17.07	
5	16QAM	12	7	16.96	16.96	17.00	
5	16QAM	12	13	16.95	17.03	16.93	17.8
5	16QAM	25	0	16.93	16.95	16.94	
5	64QAM	1	0	17.22	17.24	17.18	
5	64QAM	1	12	16.96	16.91	17.00	17.8
5	64QAM	1	24	17.17	17.12	17.13	
5	64QAM	12	0	17.10	17.03	17.02	
5	64QAM	12	7	17.06	17.04	17.06	17.8
5	64QAM	12	13	16.99	16.97	16.90	
5	64QAM	25	0	17.00	16.92	16.94	
5	256QAM	1	0	13.88	13.94	13.86	14.8
5	256QAM	1	12	13.69	13.68	13.67	
5	256QAM	1	24	13.84	13.82	13.80	
5	256QAM	12	0	13.68	13.74	13.70	14.8
5	256QAM	12	7	13.68	13.69	13.71	
5	256QAM	12	13	13.58	13.59	13.63	
5	256QAM	25	0	13.62	13.64	13.70	

5	16QAM	1	12	18.75	18.92	18.67	19.5
5	16QAM	1	24	18.74	18.85	18.86	
5	16QAM	12	0	17.62	17.50	17.53	
5	16QAM	12	7	17.73	17.67	17.52	18.5
5	16QAM	12	13	17.60	17.69	17.64	
5	16QAM	25	0	17.72	17.67	17.55	
5	64QAM	1	0	17.86	17.85	17.91	
5	64QAM	1	12	17.72	17.91	17.65	18.5
5	64QAM	1	24	17.66	17.80	17.87	
5	64QAM	12	0	17.61	17.50	17.53	
5	64QAM	12	7	17.69	17.66	17.53	18.5
5	64QAM	12	13	17.62	17.64	17.61	
5	64QAM	25	0	17.63	17.63	17.48	
5	256QAM	1	0	13.97	13.89	13.95	
5	256QAM	1	12	13.74	13.91	13.67	14.5
5	256QAM	1	24	13.80	13.91	13.94	
5	256QAM	12	0	13.59	13.56	13.50	
5	256QAM	12	7	13.65	13.71	13.60	14.5
5	256QAM	12	13	13.76	13.68	13.66	
5	256QAM	25	0	13.71	13.71	13.53	
Channel				131987	132322	132657	Tune-up limit
Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	19.46	19.56	19.53	20.5
3	QPSK	1	8	19.38	19.56	19.43	
3	QPSK	1	14	19.48	19.49	19.54	
3	QPSK	8	0	18.55	18.53	18.56	
3	QPSK	8	4	18.59	18.62	18.62	19.5
3	QPSK	8	7	18.65	18.65	18.62	
3	QPSK	15	0	18.54	18.45	18.62	
3	16QAM	1	0	18.95	18.92	18.87	
3	16QAM	1	8	18.83	18.88	18.71	19.5
3	16QAM	1	14	18.69	18.85	18.95	
3	16QAM	8	0	17.57	17.57	17.52	
3	16QAM	8	4	17.70	17.67	17.60	18.5
3	16QAM	8	7	17.64	17.63	17.67	
3	16QAM	15	0	17.63	17.61	17.55	
3	64QAM	1	0	17.95	17.86	17.93	
3	64QAM	1	8	17.82	17.89	17.66	18.5
3	64QAM	1	14	17.70	17.82	17.79	
3	64QAM	8	0	17.55	17.57	17.49	
3	64QAM	8	4	17.70	17.59	17.60	18.5
3	64QAM	8	7	17.60	17.55	17.59	
3	64QAM	15	0	17.71	17.58	17.47	
3	256QAM	1	0	13.90	13.88	14.00	
3	256QAM	1	8	13.82	13.94	13.64	14.5
3	256QAM	1	14	13.79	13.85	13.96	
3	256QAM	8	0	13.54	13.56	13.59	
3	256QAM	8	4	13.73	13.73	13.54	14.5
3	256QAM	8	7	13.71	13.63	13.64	
3	256QAM	15	0	13.73	13.69	13.52	
Channel				131979	132322	132665	Tune-up limit
Frequency (MHz)				1710.7	1745	1779.3	(dBm)
1.4	QPSK	1	0	19.45	19.61	19.57	20.5
1.4	QPSK	1	3	19.48	19.56	19.45	
1.4	QPSK	1	5	19.49	19.57	19.45	
1.4	QPSK	3	0	19.59	19.57	19.71	
1.4	QPSK	3	1	19.62	19.64	19.60	
1.4	QPSK	3	3	19.67	19.64	19.61	
1.4	QPSK	6	0	18.58	18.45	18.89	19.5
1.4	16QAM	1	0	18.92	18.88	18.87	
1.4	16QAM	1	3	18.79	18.91	18.64	
1.4	16QAM	1	5	18.79	18.86	18.90	19.5
1.4	16QAM	3	0	18.56	18.78	18.57	
1.4	16QAM	3	1	18.76	18.73	18.59	
1.4	16QAM	3	3	18.63	18.66	18.65	
1.4	16QAM	6	0	17.66	17.62	17.63	18.5
1.4	64QAM	1	0	17.92	17.85	17.84	
1.4	64QAM	1	3	17.76	17.92	17.65	
1.4	64QAM	1	5	17.73	17.80	17.83	18.5
1.4	64QAM	3	0	17.66	17.61	17.57	
1.4	64QAM	3	1	17.60	17.65	17.59	
1.4	64QAM	3	3	17.60	17.61	17.64	
1.4	64QAM	6	0	17.72	17.59	17.51	18.5
1.4	256QAM	1	0	13.99	13.95	13.99	
1.4	256QAM	1	3	13.74	13.94	13.73	
1.4	256QAM	1	5	13.76	13.87	13.96	14.5
1.4	256QAM	3	0	13.63	13.51	13.54	
1.4	256QAM	3	1	13.75	13.70	13.59	
1.4	256QAM	3	3	13.68	13.70	13.69	
1.4	256QAM	6	0	13.64	13.73	13.54	14.5

5	16QAM	1	12	18.78	18.95	18.70	19.5
5	16QAM	1	24	18.77	18.88	18.89	
5	16QAM	12	0	17.65	17.53	17.56	
5	16QAM	12	7	17.76	17.70	17.55	18.5
5	16QAM	12	13	17.63	17.72	17.67	
5	16QAM	25	0	17.75	17.70	17.58	
5	64QAM	1	0	17.89	17.88	17.94	
5	64QAM	1	12	17.75	17.94	17.68	18.5
5	64QAM	1	24	17.69	17.83	17.90	
5	64QAM	12	0	17.64	17.53	17.56	
5	64QAM	12	7	17.72	17.69	17.56	18.5
5	64QAM	12	13	17.65	17.67	17.64	
5	64QAM	25	0	17.66	17.66	17.51	
5	256QAM	1	0	14.00	13.92	13.96	
5	256QAM	1	12	13.77	13.94	13.70	14.5
5	256QAM	1	24	13.83	13.94	13.97	
5	256QAM	12	0	13.62	13.59	13.53	
5	256QAM	12	7	13.68	13.74	13.63	14.5
5	256QAM	12	13	13.79	13.71	13.69	
5	256QAM	25	0	13.74	13.74	13.56	
Channel				131987	132322	132657	Tune-up limit
Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	19.49	19.59	19.56	20.5
3	QPSK	1	8	19.41	19.59	19.46	
3	QPSK	1	14	19.51	19.52	19.57	
3	QPSK	8	0	18.58	18.56	18.59	
3	QPSK	8	4	18.62	18.65	18.65	19.5
3	QPSK	8	7	18.68	18.68	18.65	
3	QPSK	15	0	18.57	18.48	18.65	
3	16QAM	1	0	18.98	18.95	18.90	
3	16QAM	1	8	18.86	18.91	18.74	19.5
3	16QAM	1	14	18.72	18.88	18.98	
3	16QAM	8	0	17.60	17.60	17.55	
3	16QAM	8	4	17.73	17.70	17.63	18.5
3	16QAM	8	7	17.67	17.66	17.70	
3	16QAM	15	0	17.66	17.64	17.58	
3	64QAM	1	0	17.98	17.89	17.96	
3	64QAM	1	8	17.85	17.92	17.69	18.5
3	64QAM	1	14	17.73	17.85	17.82	
3	64QAM	8	0	17.58	17.60	17.52	
3	64QAM	8	4	17.73	17.62	17.63	18.5
3	64QAM	8	7	17.63	17.58	17.62	
3	64QAM	15	0	17.74	17.61	17.50	
3	256QAM	1	0	13.93	13.91	14.03	
3	256QAM	1	8	13.85	13.97	13.67	14.5
3	256QAM	1	14	13.82	13.88	13.99	
3	256QAM	8	0	13.57	13.59	13.62	
3	256QAM	8	4	13.76	13.76	13.57	14.5
3	256QAM	8	7	13.74	13.66	13.67	
3	256QAM	15	0	13.76	13.72	13.55	
Channel				131979	132322	132665	Tune-up limit
Frequency (MHz)				1710.7	1745	1779.3	(dBm)
1.4	QPSK	1	0	19.48	19.64	19.60	20.5
1.4	QPSK	1	3	19.51	19.59	19.48	
1.4	QPSK	1	5	19.52	19.60	19.48	
1.4	QPSK	3	0	19.62	19.60	19.74	
1.4	QPSK	3	1	19.65	19.67	19.63	
1.4	QPSK	3	3	19.70	19.67	19.64	
1.4	QPSK	6	0	18.61	18.48	18.72	19.5
1.4	16QAM	1	0	18.95	18.91	18.90	
1.4	16QAM	1	3	18.82	18.94	18.67	
1.4	16QAM	1	5	18.82	18.89	18.93	19.5
1.4	16QAM	3	0	18.59	18.81	18.60	
1.4	16QAM	3	1	18.79	18.76	18.62	
1.4	16QAM	3	3	18.66	18.69	18.68	
1.4	16QAM	6	0	17.69	17.65	17.66	18.5
1.4	64QAM	1	0	17.95	17.88	17.87	
1.4	64QAM	1	3	17.79	17.95	17.68	
1.4	64QAM	1	5	17.76	17.83	17.86	18.5
1.4	64QAM	3	0	17.69	17.64	17.60	
1.4	64QAM	3	1	17.63	17.68	17.62	
1.4	64QAM	3	3	17.63	17.64	17.67	
1.4	64QAM	6	0	17.75	17.62	17.54	18.5
1.4	256QAM	1	0	14.02	13.98	14.02	
1.4	256QAM	1	3	13.77	13.97	13.76	
1.4	256QAM	1	5	13.79	13.90	14.01	14.5
1.4	256QAM	3	0	13.66	13.54	13.57	
1.4	256QAM	3	1	13.78	13.73	13.62	
1.4	256QAM	3	3	13.71	13.73	13.72	
1.4	256QAM	6	0	13.67	13.76	13.57	14.5

Band 71 (dBm)-ANT 0							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				133222	133322	133372	
Frequency (MHz)				673	683	688	
20	QPSK	1	0	22.37	22.50	22.43	23.3
20	QPSK	1	49	22.34	22.40	22.33	
20	QPSK	1	99	22.45	22.42	22.46	
20	QPSK	50	0	21.48	21.56	21.52	22.3
20	QPSK	50	24	21.41	21.44	21.48	
20	QPSK	50	50	21.52	21.55	21.53	
20	QPSK	100	0	21.47	21.57	21.49	22.3
20	16QAM	1	0	21.68	21.72	21.72	
20	16QAM	1	49	21.70	21.79	21.77	
20	16QAM	1	99	21.73	21.80	21.78	21.3
20	16QAM	50	0	20.40	20.44	20.49	
20	16QAM	50	24	20.55	20.57	20.54	
20	16QAM	50	50	20.54	20.59	20.56	21.3
20	16QAM	100	0	20.53	20.45	20.59	
20	64QAM	1	0	20.62	20.76	20.67	
20	64QAM	1	49	20.64	20.79	20.71	21.3
20	64QAM	1	99	20.74	20.85	20.75	
20	64QAM	50	0	20.34	20.38	20.48	21.3
20	64QAM	50	24	20.55	20.55	20.54	
20	64QAM	50	50	20.58	20.58	20.58	
20	64QAM	100	0	20.55	20.42	20.63	17.3
20	256QAM	1	0	16.52	16.66	16.57	
20	256QAM	1	49	16.54	16.69	16.61	
20	256QAM	1	99	16.64	16.75	16.65	17.3
20	256QAM	50	0	16.25	16.29	16.39	
20	256QAM	50	24	16.46	16.46	16.45	
20	256QAM	50	50	16.49	16.49	16.49	17.3
20	256QAM	100	0	16.46	16.33	16.54	
Channel				133197	133297	133397	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	22.31	22.46	22.35	23.3
15	QPSK	1	37	22.26	22.30	22.21	
15	QPSK	1	74	22.33	22.37	22.40	
15	QPSK	36	0	21.21	21.50	21.44	22.3
15	QPSK	36	20	21.31	21.32	21.45	
15	QPSK	36	39	21.51	21.48	21.51	
15	QPSK	75	0	21.35	21.43	21.37	22.3
15	16QAM	1	0	21.62	21.71	21.71	
15	16QAM	1	37	21.65	21.75	21.69	
15	16QAM	1	74	21.69	21.79	21.77	21.3
15	16QAM	36	0	20.30	20.41	20.42	
15	16QAM	36	20	20.44	20.45	20.43	
15	16QAM	36	39	20.52	20.58	20.54	21.3
15	16QAM	75	0	20.42	20.42	20.54	
15	64QAM	1	0	20.58	20.66	20.57	
15	64QAM	1	37	20.61	20.76	20.60	21.3
15	64QAM	1	74	20.65	20.73	20.72	
15	64QAM	36	0	20.28	20.33	20.46	
15	64QAM	36	20	20.43	20.50	20.43	17.3
15	64QAM	36	39	20.56	20.50	20.52	
15	64QAM	75	0	20.45	20.41	20.52	
15	256QAM	1	0	16.43	16.65	16.52	17.3
15	256QAM	1	37	16.53	16.64	16.54	
15	256QAM	1	74	16.54	16.69	16.59	
15	256QAM	36	0	16.22	16.23	16.33	17.3
15	256QAM	36	20	16.35	16.37	16.41	
15	256QAM	36	39	16.43	16.37	16.42	
15	256QAM	75	0	16.35	16.29	16.51	
Channel				133172	133272	133422	
Frequency (MHz)				668	678	683	
10	QPSK	1	0	22.28	22.46	22.40	
10	QPSK	1	25	22.32	22.34	22.23	23.3
10	QPSK	1	49	22.40	22.38	22.45	
10	QPSK	25	0	21.27	21.53	21.43	22.3
10	QPSK	25	12	21.39	21.38	21.38	
10	QPSK	25	25	21.48	21.52	21.44	
10	QPSK	50	0	21.40	21.36	21.43	22.3
10	16QAM	1	0	21.63	21.66	21.65	
10	16QAM	1	25	21.69	21.75	21.73	
10	16QAM	1	49	21.65	21.74	21.67	21.3
10	16QAM	25	0	20.37	20.34	20.37	
10	16QAM	25	12	20.46	20.45	20.45	
10	16QAM	25	25	20.48	20.55	20.55	21.3
10	16QAM	50	0	20.50	20.43	20.56	
10	64QAM	1	0	20.59	20.70	20.63	
10	64QAM	1	25	20.59	20.78	20.61	21.3
10	64QAM	1	49	20.65	20.83	20.73	
10	64QAM	25	0	20.22	20.34	20.46	
10	64QAM	25	12	20.45	20.43	20.44	21.3
10	64QAM	25	25	20.48	20.48	20.56	
10	64QAM	50	0	20.45	20.37	20.62	
10	256QAM	1	0	16.51	16.65	16.54	17.3
10	256QAM	1	25	16.43	16.65	16.57	
10	256QAM	1	49	16.53	16.66	16.55	
10	256QAM	25	0	16.18	16.18	16.32	17.3
10	256QAM	25	12	16.42	16.34	16.33	
10	256QAM	25	25	16.42	16.45	16.40	
10	256QAM	50	0	16.44	16.27	16.42	
Channel				133147	133247	133447	
Frequency (MHz)				665.5	675.5	695.5	
5	QPSK	1	0	22.27	22.45	22.32	
5	QPSK	1	12	22.24	22.32	22.29	23.3
5	QPSK	1	24	22.39	22.39	22.44	
5	QPSK	12	0	21.24	21.51	21.49	22.3
5	QPSK	12	7	21.29	21.33	21.47	
5	QPSK	12	13	21.42	21.45	21.46	
5	QPSK	25	0	21.44	21.44	21.46	
5	16QAM	1	0	21.58	21.65	21.66	



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5	16QAM	1	12	21.63	21.78	21.67	22.3
5	16QAM	1	24	21.66	21.72	21.70	
5	16QAM	12	0	20.35	20.38	20.40	
5	16QAM	12	7	20.49	20.49	20.51	21.3
5	16QAM	12	13	20.53	20.53	20.54	
5	16QAM	25	0	20.48	20.41	20.57	
5	64QAM	1	0	20.55	20.67	20.60	21.3
5	64QAM	1	12	20.57	20.76	20.62	
5	64QAM	1	24	20.62	20.77	20.74	
5	64QAM	12	0	20.25	20.27	20.37	21.3
5	64QAM	12	7	20.51	20.47	20.47	
5	64QAM	12	13	20.48	20.53	20.53	
5	64QAM	25	0	20.45	20.37	20.58	17.3
5	256QAM	1	0	16.49	16.59	16.52	
5	256QAM	1	12	16.46	16.57	16.49	
5	256QAM	1	24	16.63	16.66	16.57	17.3
5	256QAM	12	0	16.18	16.28	16.28	
5	256QAM	12	7	16.35	16.42	16.42	
5	256QAM	12	13	16.39	16.47	16.39	17.3
5	256QAM	25	0	16.34	16.25	16.48	

Band 38 (dBm)-ANT 5							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	21.74	21.78	21.76	22.5
20	QPSK	1	49	21.61	21.74	21.58	
20	QPSK	1	99	21.73	21.70	21.52	
20	QPSK	50	0	20.73	20.80	20.75	21.5
20	QPSK	50	24	20.76	20.77	20.63	
20	QPSK	50	50	20.73	20.66	20.59	
20	QPSK	100	0	20.76	20.79	20.66	21.5
20	16QAM	1	0	20.86	20.87	20.75	
20	16QAM	1	49	20.76	20.79	20.83	
20	16QAM	1	99	20.68	20.72	20.69	20.5
20	16QAM	50	0	19.73	19.80	19.61	
20	16QAM	50	24	19.81	19.76	19.78	
20	16QAM	50	50	19.63	19.68	19.61	20.5
20	16QAM	100	0	19.72	19.73	19.67	
20	64QAM	1	0	19.77	19.84	19.75	
20	64QAM	1	49	19.59	19.67	19.70	20.5
20	64QAM	1	99	19.66	19.68	19.69	
20	64QAM	50	0	19.65	19.70	19.65	20.5
20	64QAM	50	24	19.69	19.65	19.61	
20	64QAM	50	50	19.56	19.63	19.50	
20	64QAM	100	0	19.48	19.66	19.52	16.5
20	256QAM	1	0	15.80	15.87	15.78	
20	256QAM	1	49	15.62	15.70	15.73	
20	256QAM	1	99	15.69	15.71	15.72	16.5
20	256QAM	50	0	15.68	15.73	15.68	
20	256QAM	50	24	15.72	15.68	15.64	
20	256QAM	50	50	15.59	15.66	15.53	16.5
20	256QAM	100	0	15.51	15.69	15.55	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	21.49	21.74	21.65	22.5
15	QPSK	1	37	21.57	21.71	21.50	
15	QPSK	1	74	21.64	21.60	21.49	
15	QPSK	36	0	20.75	20.83	20.72	21.5
15	QPSK	36	20	20.84	20.80	20.68	
15	QPSK	36	39	20.83	20.70	20.68	
15	QPSK	75	0	20.70	20.62	20.64	21.5
15	16QAM	1	0	20.85	20.83	20.68	
15	16QAM	1	37	20.69	20.72	20.75	
15	16QAM	1	74	20.65	20.65	20.62	20.5
15	16QAM	36	0	19.72	19.78	19.54	
15	16QAM	36	20	19.71	19.73	19.75	
15	16QAM	36	39	19.59	19.66	19.59	20.5
15	16QAM	75	0	19.68	19.64	19.58	
15	64QAM	1	0	19.71	19.74	19.66	
15	64QAM	1	37	19.51	19.65	19.68	20.5
15	64QAM	1	74	19.65	19.61	19.65	
15	64QAM	36	0	19.55	19.63	19.55	
15	64QAM	36	20	19.65	19.55	19.53	20.5
15	64QAM	36	39	19.54	19.61	19.45	
15	64QAM	75	0	19.42	19.65	19.51	
15	256QAM	1	0	15.78	15.82	15.70	16.5
15	256QAM	1	37	15.55	15.60	15.67	
15	256QAM	1	74	15.77	15.75	15.80	
15	256QAM	36	0	15.74	15.85	15.77	16.5
15	256QAM	36	20	15.76	15.71	15.71	
15	256QAM	36	39	15.62	15.73	15.60	
15	256QAM	75	0	15.63	15.81	15.63	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	21.56	21.73	21.61	22.5
10	QPSK	1	25	21.58	21.72	21.53	
10	QPSK	1	49	21.69	21.62	21.54	
10	QPSK	25	0	20.78	20.89	20.75	21.5
10	QPSK	25	12	20.85	20.85	20.67	
10	QPSK	25	25	20.82	20.70	20.64	
10	QPSK	50	0	20.80	20.80	20.75	21.5
10	16QAM	1	0	20.80	20.82	20.74	
10	16QAM	1	25	20.73	20.73	20.79	
10	16QAM	1	49	20.65	20.69	20.68	20.5
10	16QAM	25	0	19.67	19.76	19.56	
10	16QAM	25	12	19.74	19.73	19.75	
10	16QAM	25	25	19.53	19.64	19.52	20.5
10	16QAM	50	0	19.66	19.67	19.61	
10	64QAM	1	0	19.74	19.83	19.71	
10	64QAM	1	25	19.58	19.59	19.69	20.5
10	64QAM	1	49	19.64	19.64	19.67	
10	64QAM	25	0	19.59	19.67	19.63	
10	64QAM	25	12	19.68	19.63	19.57	20.5
10	64QAM	25	25	19.46	19.55	19.42	
10	64QAM	50	0	19.47	19.63	19.51	
10	256QAM	1	0	15.74	15.79	15.72	16.5
10	256QAM	1	25	15.54	15.68	15.70	
10	256QAM	1	49	15.60	15.69	15.62	
10	256QAM	25	0	15.60	15.65	15.64	16.5
10	256QAM	25	12	15.78	15.74	15.73	
10	256QAM	25	25	15.69	15.78	15.63	
10	256QAM	50	0	15.62	15.81	15.62	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	21.48	21.73	21.66	22.5
5	QPSK	1	12	21.55	21.72	21.54	
5	QPSK	1	24	21.64	21.65	21.49	
5	QPSK	12	0	20.76	20.86	20.77	21.5
5	QPSK	12	7	20.74	20.69	20.61	
5	QPSK	12	13	20.65	20.64	20.49	
5	QPSK	25	0	20.75	20.69	20.62	21.5
5	16QAM	1	0	20.83	20.86	20.70	
5	16QAM	1	12	20.75	20.77	20.78	
5	16QAM	1	24	20.67	20.62	20.59	20.5
5	16QAM	12	0	19.68	19.72	19.57	
5	16QAM	12	7	19.77	19.73	19.74	
5	16QAM	12	13	19.60	19.63	19.58	20.5
5	16QAM	25	0	19.63	19.66	19.62	
5	64QAM	1	0	19.74	19.82	19.71	
5	64QAM	1	12	19.55	19.61	19.65	20.5
5	64QAM	1	24	19.62	19.64	19.68	

Band 38 (dBm)-ANT 0								
BW [MHz]	Modulation	RB Size		RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					37850	38000	38150	
Frequency (MHz)					2580	2595	2610	
20	QPSK	1		0	20.83	20.87	20.85	21.6
20	QPSK	1		49	20.70	20.83	20.67	
20	QPSK	1		99	20.82	20.79	20.61	
20	QPSK	50		0	19.82	19.89	19.84	20.6
20	QPSK	50		24	19.85	19.86	19.72	
20	QPSK	50		50	19.82	19.75	19.68	
20	QPSK	100		0	19.85	19.88	19.75	20.6
20	16QAM	1		0	19.95	19.96	19.84	
20	16QAM	1		49	19.85	19.88	19.92	
20	16QAM	1		99	19.77	19.81	19.78	19.6
20	16QAM	50		0	18.82	18.89	18.70	
20	16QAM	50		24	18.90	18.85	18.87	
20	16QAM	50		50	18.72	18.77	18.70	19.6
20	16QAM	100		0	18.81	18.82	18.76	
20	64QAM	1		0	18.86	18.93	18.84	
20	64QAM	1		49	18.68	18.76	18.79	19.6
20	64QAM	1		99	18.75	18.77	18.78	
20	64QAM	50		0	18.74	18.79	18.74	19.6
20	64QAM	50		24	18.78	18.74	18.70	
20	64QAM	50		50	18.65	18.72	18.59	
20	64QAM	100		0	18.57	18.75	18.61	15.6
20	256QAM	1		0	14.89	14.96	14.87	
20	256QAM	1		49	14.71	14.79	14.82	
20	256QAM	1		99	14.78	14.80	14.81	15.6
20	256QAM	50		0	14.77	14.82	14.77	
20	256QAM	50		24	14.81	14.77	14.73	
20	256QAM	50		50	14.68	14.75	14.62	15.6
20	256QAM	100		0	14.60	14.78	14.64	
Channel					37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)					2577.5	2595	2612.5	
15	QPSK		1	0	20.58	20.83	20.74	21.6
15	QPSK		1	37	20.66	20.80	20.59	
15	QPSK		1	74	20.73	20.69	20.58	
15	QPSK		36	0	19.84	19.92	19.81	20.6
15	QPSK		36	20	19.93	19.89	19.77	
15	QPSK		36	39	19.92	19.79	19.77	
15	QPSK		75	0	19.79	19.71	19.73	20.6
15	16QAM		1	0	19.94	19.92	19.77	
15	16QAM		1	37	19.78	19.81	19.84	
15	16QAM		1	74	19.74	19.74	19.71	19.6
15	16QAM		36	0	18.81	18.87	18.63	
15	16QAM		36	20	18.80	18.82	18.84	
15	16QAM		36	39	18.68	18.75	18.68	19.6
15	16QAM		75	0	18.77	18.73	18.67	
15	64QAM		1	0	18.80	18.83	18.75	
15	64QAM		1	37	18.60	18.74	18.77	19.6
15	64QAM		1	74	18.74	18.70	18.74	
15	64QAM		36	0	18.64	18.72	18.64	
15	64QAM		36	20	18.74	18.64	18.62	19.6
15	64QAM		36	39	18.63	18.70	18.54	
15	64QAM		75	0	18.51	18.74	18.60	
15	256QAM		1	0	14.87	14.91	14.79	15.6
15	256QAM		1	37	14.64	14.69	14.76	
15	256QAM		1	74	14.86	14.84	14.89	
15	256QAM		36	0	14.83	14.94	14.86	15.6
15	256QAM		36	20	14.85	14.80	14.80	
15	256QAM		36	39	14.71	14.82	14.69	
15	256QAM		75	0	14.72	14.90	14.72	
Channel					37800	38000	38200	
Frequency (MHz)					2575	2595	2615	
10	QPSK		1	0	20.65	20.82	20.70	21.6
10	QPSK		1	25	20.67	20.81	20.62	
10	QPSK		1	49	20.78	20.71	20.63	
10	QPSK		25	0	19.87	19.98	19.84	20.6
10	QPSK		25	12	19.94	19.94	19.76	
10	QPSK		25	25	19.91	19.79	19.73	
10	QPSK		50	0	19.89	19.89	19.84	20.6
10	16QAM		1	0	19.89	19.91	19.83	
10	16QAM		1	25	19.82	19.82	19.88	
10	16QAM		1	49	19.74	19.78	19.77	19.6
10	16QAM		25	0	18.76	18.85	18.65	
10	16QAM		25	12	18.83	18.82	18.84	
10	16QAM		25	25	18.62	18.73	18.61	19.6
10	16QAM		50	0	18.75	18.76	18.70	
10	64QAM		1	0	18.83	18.92	18.80	
10	64QAM		1	25	18.67	18.68	18.78	19.6
10	64QAM		1	49	18.73	18.73	18.76	
10	64QAM		25	0	18.68	18.76	18.72	
10	64QAM		25	12	18.77	18.72	18.66	19.6
10	64QAM		25	25	18.55	18.64	18.51	
10	64QAM		50	0	18.56	18.72	18.60	
10	256QAM		1	0	14.83	14.88	14.81	15.6
10	256QAM		1	25	14.63	14.77	14.79	
10	256QAM		1	49	14.69	14.78	14.71	
10	256QAM		25	0	14.69	14.74	14.73	15.6
10	256QAM		25	12	14.87	14.83	14.82	
10	256QAM		25	25	14.78	14.87	14.72	
10	256QAM		50	0	14.71	14.90	14.71	
Channel					37775	38000	38225	
Frequency (MHz)					2572.5	2595	2617.5	
5	QPSK		1	0	20.57	20.82	20.75	21.6
5	QPSK		1	12	20.64	20.81	20.63	
5	QPSK		1	24	20.73	20.74	20.58	
5	QPSK		12	0	19.85	19.95	19.86	20.6
5	QPSK		12	7	19.83	19.78	19.70	
5	QPSK		12	13	19.74	19.73	19.58	
5	QPSK		25	0	19.84	19.78	19.71	20.6
5	16QAM		1	0	19.92	19.95	19.79	
5	16QAM		1	12	19.84	19.86	19.87	
5	16QAM		1	24	19.76	19.71	19.68	19.6
5	16QAM		12	0	18.77	18.81	18.66	
5	16QAM		12	7	18.86	18.82	18.83	
5	16QAM		12	13	18.69	18.72	18.67	19.6
5	16QAM		25	0	18.72	18.75	18.71	
5	64QAM		1	0	18.83	18.91	18.80	
5	64QAM		1	12	18.64	18.70	18.74	19.6
5	64QAM		1	24	18.71	18.73	18.77	



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5	64QAM	12	0	19.56	19.65	19.64	20.5
5	64QAM	12	7	19.68	19.61	19.60	
5	64QAM	12	13	19.49	19.56	19.44	
5	64QAM	25	0	19.40	19.56	19.44	16.5
5	256QAM	1	0	15.73	15.77	15.72	
5	256QAM	1	12	15.59	15.65	15.72	
5	256QAM	1	24	15.61	15.63	15.63	16.5
5	256QAM	12	0	15.60	15.63	15.60	
5	256QAM	12	7	15.77	15.79	15.71	
5	256QAM	12	13	15.71	15.74	15.58	
5	256QAM	25	0	15.61	15.79	15.66	

5	64QAM	12	0	18.65	18.74	18.73	19.6
5	64QAM	12	7	18.77	18.70	18.69	
5	64QAM	12	13	18.58	18.65	18.53	
5	64QAM	25	0	18.49	18.65	18.53	15.6
5	256QAM	1	0	14.82	14.86	14.81	
5	256QAM	1	12	14.68	14.74	14.81	
5	256QAM	1	24	14.70	14.72	14.72	15.6
5	256QAM	12	0	14.69	14.72	14.69	
5	256QAM	12	7	14.86	14.88	14.80	
5	256QAM	12	13	14.80	14.83	14.67	
5	256QAM	25	0	14.70	14.88	14.75	

Band 38 (dBm)-ANT 6							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	22.94	22.98	22.96	23.5
20	QPSK	1	49	22.81	22.94	22.78	
20	QPSK	1	99	22.93	22.90	22.72	
20	QPSK	50	0	21.93	22.00	21.95	22.5
20	QPSK	50	24	21.96	21.97	21.83	
20	QPSK	50	50	21.93	21.86	21.79	
20	QPSK	100	0	21.96	21.99	21.86	22.5
20	16QAM	1	0	22.06	22.07	21.95	
20	16QAM	1	49	21.96	21.99	22.03	
20	16QAM	1	99	21.88	21.92	21.89	21.5
20	16QAM	50	0	20.93	21.00	20.81	
20	16QAM	50	24	21.01	20.96	20.98	
20	16QAM	50	50	20.83	20.88	20.81	21.5
20	16QAM	100	0	20.92	20.93	20.87	
20	64QAM	1	0	20.97	21.04	20.95	
20	64QAM	1	49	20.79	20.87	20.90	21.5
20	64QAM	1	99	20.86	20.88	20.89	
20	64QAM	50	0	20.85	20.90	20.85	
20	64QAM	50	24	20.89	20.85	20.81	21.5
20	64QAM	50	50	20.76	20.83	20.70	
20	64QAM	100	0	20.68	20.86	20.72	
20	256QAM	1	0	17.00	17.07	16.98	17.5
20	256QAM	1	49	16.82	16.90	16.93	
20	256QAM	1	99	16.89	16.91	16.92	
20	256QAM	50	0	16.88	16.93	16.88	17.5
20	256QAM	50	24	16.92	16.88	16.84	
20	256QAM	50	50	16.79	16.86	16.73	
20	256QAM	100	0	16.71	16.89	16.75	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.69	22.94	22.85	23.5
15	QPSK	1	37	22.77	22.91	22.70	
15	QPSK	1	74	22.84	22.80	22.69	
15	QPSK	36	0	21.95	22.03	21.92	22.5
15	QPSK	36	20	22.04	22.00	21.88	
15	QPSK	36	39	22.03	21.90	21.88	
15	QPSK	75	0	21.90	21.82	21.84	22.5
15	16QAM	1	0	22.05	22.03	21.88	
15	16QAM	1	37	21.89	21.92	21.95	
15	16QAM	1	74	21.85	21.85	21.82	21.5
15	16QAM	36	0	20.92	20.98	20.74	
15	16QAM	36	20	20.91	20.93	20.95	
15	16QAM	36	39	20.79	20.86	20.79	21.5
15	16QAM	75	0	20.88	20.84	20.78	
15	64QAM	1	0	20.91	20.94	20.86	
15	64QAM	1	37	20.71	20.85	20.88	21.5
15	64QAM	1	74	20.85	20.81	20.85	
15	64QAM	36	0	20.75	20.83	20.75	
15	64QAM	36	20	20.85	20.75	20.73	21.5
15	64QAM	36	39	20.74	20.81	20.65	
15	64QAM	75	0	20.62	20.85	20.71	
15	256QAM	1	0	16.98	17.02	16.90	17.5
15	256QAM	1	37	16.75	16.80	16.87	
15	256QAM	1	74	16.97	16.95	17.00	
15	256QAM	36	0	16.94	17.05	16.97	17.5
15	256QAM	36	20	16.96	16.91	16.91	
15	256QAM	36	39	16.82	16.93	16.80	
15	256QAM	75	0	16.83	17.01	16.83	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	22.76	22.93	22.81	23.5
10	QPSK	1	25	22.78	22.92	22.73	
10	QPSK	1	49	22.89	22.82	22.74	
10	QPSK	25	0	21.98	22.09	21.95	22.5
10	QPSK	25	12	22.05	22.05	21.87	
10	QPSK	25	25	22.02	21.90	21.84	
10	QPSK	50	0	22.00	22.00	21.95	22.5
10	16QAM	1	0	22.00	22.02	21.94	
10	16QAM	1	25	21.93	21.93	21.99	
10	16QAM	1	49	21.85	21.89	21.88	21.5
10	16QAM	25	0	20.87	20.96	20.76	
10	16QAM	25	12	20.94	20.93	20.95	
10	16QAM	25	25	20.73	20.84	20.72	21.5
10	16QAM	50	0	20.86	20.87	20.81	
10	64QAM	1	0	20.94	21.03	20.91	
10	64QAM	1	25	20.78	20.79	20.89	21.5
10	64QAM	1	49	20.84	20.84	20.87	
10	64QAM	25	0	20.79	20.87	20.83	
10	64QAM	25	12	20.88	20.83	20.77	21.5
10	64QAM	25	25	20.66	20.75	20.62	
10	64QAM	50	0	20.67	20.83	20.71	
10	256QAM	1	0	16.94	16.99	16.92	17.5
10	256QAM	1	25	16.74	16.88	16.90	
10	256QAM	1	49	16.80	16.89	16.82	
10	256QAM	25	0	16.80	16.85	16.84	17.5
10	256QAM	25	12	16.98	16.94	16.93	
10	256QAM	25	25	16.89	16.98	16.83	
10	256QAM	50	0	16.82	17.01	16.82	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.68	22.93	22.86	23.5
5	QPSK	1	12	22.75	22.92	22.74	
5	QPSK	1	24	22.84	22.85	22.69	
5	QPSK	12	0	21.96	22.06	21.97	22.5
5	QPSK	12	7	21.94	21.89	21.81	
5	QPSK	12	13	21.85	21.84	21.69	
5	QPSK	25	0	21.95	21.89	21.82	22.5
5	16QAM	1	0	22.03	22.06	21.90	
5	16QAM	1	12	21.95	21.97	21.98	
5	16QAM	1	24	21.87	21.82	21.79	21.5
5	16QAM	12	0	20.88	20.92	20.77	
5	16QAM	12	7	20.97	20.93	20.94	
5	16QAM	12	13	20.80	20.83	20.78	21.5
5	16QAM	25	0	20.83	20.86	20.82	
5	64QAM	1	0	20.94	21.02	20.91	
5	64QAM	1	12	20.75	20.81	20.85	21.5
5	64QAM	1	24	20.82	20.84	20.88	

Band 38 (dBm)-ANT 4							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	19.65	19.69	19.67	20.3
20	QPSK	1	49	19.52	19.65	19.49	
20	QPSK	1	99	19.64	19.61	19.43	
20	QPSK	50	0	18.64	18.71	18.66	19.3
20	QPSK	50	24	18.67	18.68	18.54	
20	QPSK	50	50	18.64	18.57	18.50	
20	QPSK	100	0	18.67	18.70	18.57	19.3
20	16QAM	1	0	18.77	18.78	18.66	
20	16QAM	1	49	18.67	18.70	18.74	
20	16QAM	1	99	18.59	18.63	18.60	18.3
20	16QAM	50	0	17.64	17.71	17.52	
20	16QAM	50	24	17.72	17.67	17.69	
20	16QAM	50	50	17.54	17.59	17.52	18.3
20	16QAM	100	0	17.63	17.64	17.58	
20	64QAM	1	0	17.68	17.75	17.66	
20	64QAM	1	49	17.50	17.58	17.61	18.3
20	64QAM	1	99	17.57	17.59	17.60	
20	64QAM	50	0	17.56	17.61	17.56	
20	64QAM	50	24	17.60	17.56	17.52	18.3
20	64QAM	50	50	17.47	17.54	17.41	
20	64QAM	100	0	17.39	17.57	17.43	
20	256QAM	1	0	13.71	13.78	13.69	14.3
20	256QAM	1	49	13.53	13.61	13.64	
20	256QAM	1	99	13.60	13.62	13.63	
20	256QAM	50	0	13.59	13.64	13.59	14.3
20	256QAM	50	24	13.63	13.59	13.55	
20	256QAM	50	50	13.50	13.57	13.44	
20	256QAM	100	0	13.42	13.60	13.46	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	19.40	19.65	19.56	20.3
15	QPSK	1	37	19.48	19.62	19.41	
15	QPSK	1	74	19.55	19.51	19.40	
15	QPSK	36	0	18.66	18.74	18.63	19.3
15	QPSK	36	20	18.75	18.71	18.59	
15	QPSK	36	39	18.74	18.61	18.59	
15	QPSK	75	0	18.61	18.53	18.55	19.3
15	16QAM	1	0	18.76	18.74	18.59	
15	16QAM	1	37	18.60	18.63	18.66	
15	16QAM	1	74	18.56	18.56	18.53	18.3
15	16QAM	36	0	17.63	17.69	17.45	
15	16QAM	36	20	17.62	17.64	17.66	
15	16QAM	36	39	17.50	17.57	17.50	18.3
15	16QAM	75	0	17.59	17.55	17.49	
15	64QAM	1	0	17.62	17.65	17.57	
15	64QAM	1	37	17.42	17.56	17.59	18.3
15	64QAM	1	74	17.56	17.52	17.56	
15	64QAM	36	0	17.46	17.54	17.46	18.3
15	64QAM	36	20	17.55	17.46	17.44	
15	64QAM	36	39	17.45	17.52	17.38	
15	64QAM	75	0	17.33	17.56	17.42	14.3
15	256QAM	1	0	13.69	13.73	13.61	
15	256QAM	1	37	13.46	13.51	13.58	
15	256QAM	1	74	13.68	13.66	13.71	14.3
15	256QAM	36	0	13.65	13.76	13.68	
15	256QAM	36	20	13.67	13.62	13.62	
15	256QAM	36	39	13.53	13.64	13.51	14.3
15	256QAM	75	0	13.54	13.72	13.54	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	19.47	19.64	19.52	20.3
10	QPSK	1	25	19.49	19.63	19.44	
10	QPSK	1	49	19.60	19.53	19.45	
10	QPSK	25	0	18.69	18.80	18.66	19.3
10	QPSK	25	12	18.76	18.76	18.58	
10	QPSK	25	25	18.73	18.61	18.55	
10	QPSK	50	0	18.71	18.71	18.66	19.3
10	16QAM	1	0	18.71	18.73	18.65	
10	16QAM	1	25	18.64	18.64	18.70	
10	16QAM	1	49	18.56	18.60	18.59	18.3
10	16QAM	25	0	17.58	17.67	17.47	
10	16QAM	25	12	17.65	17.64	17.66	
10	16QAM	25	25	17.44	17.55	17.43	18.3
10	16QAM	50	0	17.57	17.58	17.52	
10	64QAM	1	0	17.65	17.74	17.62	
10	64QAM	1	25	17.49	17.50	17.60	18.3
10	64QAM	1	49	17.55	17.55	17.58	
10	64QAM	25	0	17.50	17.58	17.54	
10	64QAM	25	12	17.59	17.54	17.48	18.3
10	64QAM	25	25	17.37	17.46	17.33	
10	64QAM	50	0	17.38	17.54	17.42	
10	256QAM	1	0	13.65	13.70	13.63	14.3
10	256QAM	1	25	13.45	13.59	13.61	
10	256QAM	1	49	13.51	13.60	13.53	
10	256QAM	25	0	13.51	13.56	13.55	14.3
10	256QAM	25	12	13.69	13.65	13.64	
10	256QAM	25	25	13.60	13.69	13.54	
10	256QAM	50	0	13.53	13.72	13.53	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	19.39	19.64	19.57	20.3
5	QPSK	1	12	19.46	19.63	19.45	
5	QPSK	1	24	19.55	19.56	19.40	
5	QPSK	12	0	18.67	18.77	18.68	19.3
5	QPSK	12	7	18.65	18.60	18.52	
5	QPSK	12	13	18.56	18.55	18.40	
5	QPSK	25	0	18.66	18.60	18.53	19.3
5	16QAM	1	0	18.74	18.77	18.61	
5	16QAM	1	12	18.66	18.68	18.69	
5	16QAM	1	24	18.58	18.53	18.50	18.3
5	16QAM	12	0	17.59	17.63	17.48	
5	16QAM	12	13	17.51	17.54	17.49	
5	16QAM	25	0	17.54	17.57	17.53	18.3
5	64QAM	1	0	17.65	17.73	17.62	
5	64QAM	1	12	17.46	17.52	17.56	
5	64QAM	1	24	17.53	17.55	17.59	18.3



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5	64QAM	12	0	20.76	20.85	20.84	21.5
5	64QAM	12	7	20.88	20.81	20.80	
5	64QAM	12	13	20.69	20.76	20.64	
5	64QAM	25	0	20.60	20.76	20.64	17.5
5	256QAM	1	0	16.93	16.97	16.92	
5	256QAM	1	12	16.79	16.85	16.92	
5	256QAM	1	24	16.81	16.83	16.83	17.5
5	256QAM	12	0	16.80	16.83	16.80	
5	256QAM	12	7	16.97	16.99	16.91	
5	256QAM	12	13	16.91	16.94	16.78	17.5
5	256QAM	25	0	16.81	16.99	16.86	

5	64QAM	12	0	17.47	17.56	17.55	18.3
5	64QAM	12	7	17.59	17.52	17.51	
5	64QAM	12	13	17.40	17.47	17.35	
5	64QAM	25	0	17.31	17.47	17.35	14.3
5	256QAM	1	0	13.64	13.68	13.63	
5	256QAM	1	12	13.50	13.56	13.63	
5	256QAM	1	24	13.52	13.54	13.54	14.3
5	256QAM	12	0	13.51	13.54	13.51	
5	256QAM	12	7	13.68	13.70	13.62	
5	256QAM	12	13	13.62	13.65	13.49	14.3
5	256QAM	25	0	13.52	13.70	13.57	

Band 41 (2496~2690MHz) (dBm)PC2-ANT 5											
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)		
Channel				39750	40185	40620	41055	41490			
Frequency (MHz)				2506	2549.5	2593	2636.5	2680			
20	QPSK	1	0	23.07	22.88	23.13	22.97	22.96	23.8		
20	QPSK	1	49	22.98	22.95	22.92	22.89	22.86			
20	QPSK	1	99	23.07	22.92	23.03	22.93	22.85			
20	QPSK	50	0	22.30	22.25	22.31	22.16	22.04			
20	QPSK	50	24	22.28	22.23	22.17	22.02	21.99	22.8		
20	QPSK	50	50	22.28	22.17	22.13	21.96	21.86			
20	QPSK	100	0	22.27	22.23	22.18	22.08	21.96			
20	16QAM	1	0	22.35	22.37	22.31	22.25	22.26	22.8		
20	16QAM	1	49	22.28	22.15	22.25	22.18	22.21			
20	16QAM	1	99	22.21	22.07	22.30	22.16	22.18			
20	16QAM	50	0	21.36	21.32	21.18	21.12	21.03			
20	16QAM	50	24	21.30	21.15	21.21	21.09	21.09	21.8		
20	16QAM	50	50	21.27	21.03	21.06	20.98	21.02			
20	16QAM	100	0	21.18	21.15	21.21	21.15	21.16			
20	64QAM	1	0	21.28	21.33	21.24	21.14	21.18	21.8		
20	64QAM	1	49	21.25	20.97	21.15	21.06	21.08			
20	64QAM	1	99	21.19	21.10	21.19	21.10	21.13			
20	64QAM	50	0	21.31	21.25	21.12	21.05	20.89			
20	64QAM	50	24	21.21	21.16	21.15	21.03	21.07	21.8		
20	64QAM	50	50	21.08	21.09	21.10	20.99	21.01			
20	64QAM	100	0	21.27	21.22	21.26	21.17	21.16			
20	256QAM	1	0	17.02	17.09	17.00	16.90	16.94	17.8		
20	256QAM	1	49	17.01	16.73	16.91	16.82	16.84			
20	256QAM	1	99	16.95	16.86	16.95	16.86	16.89			
20	256QAM	50	0	17.07	17.01	16.88	16.81	16.65			
20	256QAM	50	24	16.97	16.92	16.91	16.79	16.83	17.8		
20	256QAM	50	50	16.84	16.85	16.86	16.75	16.77			
20	256QAM	100	0	17.03	16.98	17.02	16.93	16.92			
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5			
15	QPSK	1	0	23.02	22.87	23.12	22.91	22.87	23.8		
15	QPSK	1	37	22.97	22.95	22.86	22.85	22.87			
15	QPSK	1	74	22.98	22.86	22.93	22.88	22.84			
15	QPSK	36	0	22.19	22.17	22.27	22.09	22.03			
15	QPSK	36	20	22.15	22.15	22.13	21.93	21.93	22.8		
15	QPSK	36	39	22.27	22.16	22.10	21.87	21.84			
15	QPSK	75	0	22.18	22.17	22.10	21.98	21.89			
15	16QAM	1	0	22.31	22.25	22.20	22.13	22.20	22.8		
15	16QAM	1	37	22.19	22.08	22.23	22.08	22.11			
15	16QAM	1	74	22.17	21.95	22.20	22.13	22.06			
15	16QAM	36	0	21.29	21.24	21.10	21.02	20.98			
15	16QAM	36	20	21.29	21.06	21.15	21.00	21.03	21.8		
15	16QAM	36	39	21.16	20.91	20.97	20.91	21.01			
15	16QAM	75	0	21.14	21.09	21.20	21.06	21.13			
15	64QAM	1	0	21.15	21.22	21.18	21.04	21.08	21.8		
15	64QAM	1	37	21.22	20.89	21.11	20.94	20.99			
15	64QAM	1	74	21.16	21.07	21.08	20.99	21.09			
15	64QAM	36	0	21.19	21.24	21.02	21.02	20.84			
15	64QAM	36	20	21.10	21.04	21.05	20.94	21.03	21.8		
15	64QAM	36	39	21.03	21.05	21.02	20.98	20.97			
15	64QAM	75	0	21.20	21.13	21.14	21.10	21.14			
15	256QAM	1	0	16.92	17.00	16.97	16.87	16.85	17.8		
15	256QAM	1	37	16.91	16.91	16.83	16.76	16.81			
15	256QAM	1	74	16.87	16.79	16.89	16.75	16.83			
15	256QAM	36	0	17.02	16.91	16.79	16.70	16.59			
15	256QAM	36	20	16.89	16.89	16.81	16.77	16.79	17.8		
15	256QAM	36	39	16.78	16.84	16.83	16.64	16.66			
15	256QAM	75	0	16.95	16.88	16.95	16.87	16.81			
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)		
Frequency (MHz)				2501 <th>2547<th>2593<th>2639<th>2685</th><th data-cs="2" data-kind="parent"></th><th data-kind="ghost"></th></th></th></th>	2547 <th>2593<th>2639<th>2685</th><th data-cs="2" data-kind="parent"></th><th data-kind="ghost"></th></th></th>	2593 <th>2639<th>2685</th><th data-cs="2" data-kind="parent"></th><th data-kind="ghost"></th></th>	2639 <th>2685</th> <th data-cs="2" data-kind="parent"></th> <th data-kind="ghost"></th>	2685			
10	QPSK	1	0	22.98	22.93	23.08	22.91	22.87	23.8		
10	QPSK	1	25	22.90	22.95	22.84	22.90	22.86			
10	QPSK	1	49	23.03	22.87	22.93	22.91	22.88			
10	QPSK	25	0	22.28	22.18	22.23	22.11	21.97			
10	QPSK	25	12	22.25	22.14	22.16	22.00	21.89	22.8		
10	QPSK	25	25	22.27	22.08	22.11	21.93	21.84			
10	QPSK	50	0	22.23	22.15	22.17	21.99	21.91			
10	16QAM	1	0	22.31	22.28	22.22	22.13	22.19	22.8		
10	16QAM	1	25	22.22	22.12	22.15	22.14	22.12			
10	16QAM	1	49	22.18	22.01	22.29	22.12	22.12			
10	16QAM	25	0	21.25	21.28	21.10	21.07	20.94			
10	16QAM	25	12	21.27	21.11	21.16	21.05	20.95	21.8		
10	16QAM	25	25	21.20	20.96	20.99	20.97	20.92			
10	16QAM	50	0	21.08	21.09	21.17	21.12	21.14			
10	64QAM	1	0	21.21	21.26	21.14	21.07	21.12	21.8		
10	64QAM	1	25	21.22	20.87	21.07	21.01	20.99			
10	64QAM	1	49	21.07	21.02	21.11	21.09	21.03			
10	64QAM	25	0	21.20	21.22	21.02	20.98	20.98			
10	64QAM	25	12	21.17	21.09	21.05	21.01	21.05	21.8		
10	64QAM	25	25	21.07	20.98	21.07	20.98	20.94			
10	64QAM	50	0	21.26	21.20	21.22	21.07	21.12			
10	256QAM	1	0	16.95	17.03	16.98	16.78	16.87	17.8		
10	256QAM	1	25	16.95	16.87	16.79	16.78	16.77			
10	256QAM	1	49	16.91	16.84	16.85	16.79	16.78			
10	256QAM	25	0	17.03	16.96	16.77	16.72	16.59			
10	256QAM	25	12	16.91	16.91	16.88	16.69	16.72	17.8		
10	256QAM	25	25	16.83	16.75	16.76	16.63	16.68			
10	256QAM	50	0	16.96	16.94	16.95	16.88	16.88			
Channel				39715	40140	40620	41053	41525	Tune-up limit (dBm)		
Frequency (MHz)				2498.5	2545.8	2593	2640.39	2687.5			
5	QPSK	1	0	22.98	22.87	23.10	22.89	22.95	23.8		
5	QPSK	1	12	22.96	22.95	22.88	22.87	22.91			
5	QPSK	1	24	23.02	22.85	22.91	22.89	22.90			
5	QPSK	12	0	22.26	22.19	22.24	22.10	21.98			
5	QPSK	12	7	22.18	22.22	22.09	21.95	21.95	22.8		
5	QPSK	12	13	22.16	22.08	22.06	21.93	21.85			
5	QPSK	25	0	22.16	22.21	22.11	21.98	21.85			
5	16QAM	1	0	22.25	22.29	22.25	22.24	22.24	22.8		
5	16QAM	1	12	22.19	22.06	22.14	22.09	22.14			
5	16QAM	1	24	22.10	22.04	22.18	22.15	22.08			
5	16QAM	12	0	21.25	21.21	21.14	21.00	20.92			
5	16QAM	12	7	21.19	21.09	21.14	21.08	20.97	21.8		
5	16QAM	12	13	21.19	20.95	20.99	20.88	20.94			
5	16QAM	25	0	21.13	21.13	21.16	21.13	21.10			
5	64QAM	1	0	21.20	21.23	21.16	21.06	21.09	21.8		
5	64QAM	1	12	21.14	21.07	21.08	20.94	21.04			
5	64QAM	1	24	21.09	21.00	21.17	21.06	21.11			
5	64QAM	12	0	21.24	21.19	21.09	20.93	20.87			
5	64QAM	12	7	21.09	21.11	21.03	20.95	20.97	21.8		
5	64QAM	12	13	20.96	20.99	20.96	20.85	20.92			
5	64QAM	25	0	21.19	21.14	21.21	21.06				

Band 41 (2496~2690MHz) (dBm)PC2-ANT 6											
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)		
Channel				39750	40185	40620	41055	41490			
Frequency (MHz)				2506	2549.5	2593	2636.5	2680			
20	QPSK	1	0	22.78	22.87	22.82	22.68	22.65	23.5		
20	QPSK	1	49	22.67	22.74	22.57	22.58	22.55			
20	QPSK	1	99	22.70	22.81	22.72	22.62	22.54			
20	QPSK	50	0	21.99	21.94	22.00	21.85	21.73			
20	QPSK	50	24	21.95	21.92	21.86	21.71	21.68	22.5		
20	QPSK	50	50	21.97	21.86	21.82	21.65	21.55			
20	QPSK	100	0	21.96	21.92	21.87	21.77	21.65			
20	16QAM	1	0	22.04	22.06	22.00	21.94	21.95	22.5		
20	16QAM	1	49	21.97	21.84	21.94	21.87	21.90			
20	16QAM	1	99	21.90	21.76	21.99	21.85	21.87			
20	16QAM	50	0	21.05	21.01	20.87	20.81	20.72			
20	16QAM	50	24	20.99	20.84	20.90	20.76	20.75	21.5		
20	16QAM	50	50	20.96	20.72	20.75	20.67	20.71			
20	16QAM	100	0	20.87	20.84	20.90	20.84	20.85			
20	64QAM	1	0	20.95	21.02	20.93	20.83	20.87	21.5		
20	64QAM	1	49	20.94	20.66	20.84	20.75	20.77			
20	64QAM	1	99	20.88	20.79	20.88	20.79	20.82			
20	64QAM	50	0	21.00	20.94	20.81	20.74	20.58			
20	64QAM	50	24	20.90	20.85	20.84	20.72	20.76	21.5		
20	64QAM	50	50	20.77	20.78	20.79	20.68	20.70			
20	64QAM	100	0	20.36	20.91	20.95	20.86	20.85			
20	256QAM	1	0	16.71	16.78	16.69	16.59	16.63	17.5		
20	256QAM	1	49	16.70	16.42	16.60	16.51	16.53			
20	256QAM	1	99	16.64	16.55	16.64	16.55	16.58			
20	256QAM	50	0	16.76	16.70	16.57	16.50	16.34			
20	256QAM	50	24	16.68	16.61	16.60	16.48	16.52	17.5		
20	256QAM	50	50	16.53	16.54	16.55	16.44	16.46			
20	256QAM	100	0	16.72	16.67	16.71	16.62	16.61			
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5			
15	QPSK	1	0	22.71	22.56	22.81	22.60	22.56	23.5		
15	QPSK	1	37	22.66	22.64	22.55	22.54	22.56			
15	QPSK	1	74	22.67	22.55	22.62	22.57	22.53			
15	QPSK	36	0	21.86	21.86	21.78	21.72	21.72			
15	QPSK	36	20	21.84	21.84	21.82	21.82	21.82	22.5		
15	QPSK	36	39	21.96	21.85	21.79	21.56	21.53			
15	QPSK	75	0	21.87	21.86	21.79	21.67	21.58			
15	16QAM	1	0	22.00	21.94	21.89	21.82	21.89			
15	16QAM	1	37	21.88	21.77	21.92	21.77	21.80	22.5		
15	16QAM	1	74	21.86	21.64	21.88	21.82	21.75			
15	16QAM	36	0	20.98	20.93	20.79	20.71	20.67			
15	16QAM	36	20	20.98	20.75	20.84	20.69	20.72			
15	16QAM	36	39	20.85	20.60	20.66	20.60	20.70	21.5		
15	16QAM	75	0	20.83	20.78	20.89	20.75	20.82			
15	64QAM	1	0	20.84	20.91	20.87	20.73	20.77			
15	64QAM	1	37	20.91	20.58	20.80	20.63	20.68			
15	64QAM	1	74	20.85	20.76	20.77	20.68	20.78	21.5		
15	64QAM	36	0	20.88	20.93	20.71	20.71	20.53			
15	64QAM	36	20	20.79	20.73	20.74	20.63	20.72			
15	64QAM	36	39	20.72	20.74	20.71	20.67	20.66			
15	64QAM	75	0	20.89	20.82	20.83	20.79	20.83	17.5		
15	256QAM	1	0	16.61	16.69	16.66	16.56	16.54			
15	256QAM	1	37	16.63	16.40	16.52	16.47	16.30			
15	256QAM	1	74	16.59	16.48	16.57	16.44	16.52			
15	256QAM	36	0	16.71	16.60	16.47	16.39	16.28	17.5		
15	256QAM	36	20	16.58	16.58	16.50	16.46	16.48			
15	256QAM	36	39	16.47	16.53	16.52	16.33	16.35			
15	256QAM	75	0	16.64	16.57	16.64	16.56	16.50			
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)		
Frequency (MHz)				2501	2547	2593	2639	2685			
10	QPSK	1	0	22.67	22.62	22.77	22.60	22.56	23.5		
10	QPSK	1	25	22.59	22.64	22.53	22.59	22.55			
10	QPSK	1	49	22.72	22.58	22.62	22.60	22.57			
10	QPSK	25	0	21.95	21.87	21.92	21.80	21.66			
10	QPSK	25	12	21.94	21.83	21.85	21.69	21.58	22.5		
10	QPSK	25	25	21.98	21.77	21.80	21.62	21.53			
10	QPSK	50	0	21.82	21.84	21.86	21.88	21.89			
10	256QAM	1	0	21.82	21.85	21.91	21.82	21.88			
10	16QAM	1	25	21.91	21.81	21.84	21.83	21.81	22.5		
10	16QAM	1	49	21.87	21.70	21.98	21.81	21.81			
10	16QAM	25	0	20.94	20.97	20.79	20.76	20.63			
10	16QAM	25	12	20.96	20.80	20.85	20.74	20.64			
10	16QAM	25	25	20.89	20.65	20.68	20.66	20.61	21.5		
10	16QAM	50	0	20.77	20.78	20.86	20.81	20.83			
10	64QAM	1	0	20.90	20.95	20.83	20.76	20.81			
10	64QAM	1	25	20.91	20.56	20.76	20.70	20.68			
10	64QAM	1	49	20.76	20.71	20.80	20.78	20.72	21.5		
10	64QAM	25	0	20.89	20.91	20.87	20.57	20.57			
10	64QAM	25	12	20.88	20.78	20.74	20.70	20.74			
10	64QAM	25	25	20.76	20.67	20.76	20.65	20.63			
10	64QAM	50	0	20.95	20.89	20.91	20.76	20.81	17.5		
10	256QAM	1	0	16.64	16.72	16.67	16.47	16.56			
10	256QAM	1	25	16.64	16.36	16.48	16.47	16.48			
10	256QAM	1	49	16.60	16.53	16.54	16.48	16.47			
10	256QAM	25	0	16.72	16.65	16.46	16.41	16.28	17.5		
10	256QAM	25	12	16.60	16.60	16.57	16.38	16.41			
10	256QAM	25	25	16.52	16.44	16.45	16.32	16.37			
10	256QAM	50	0	16.65	16.63	16.64	16.57	16.57			
Channel				39735	40160	40620	41080	41535	Tune-up limit (dBm)		
Frequency (MHz)				2498.5	2545.9	2593	2640.30	2687.5			
5	QPSK	1	0	22.65	22.56	22.79	22.58	22.64	23.5		
5	QPSK	1	12	22.65	22.64	22.57	22.56	22.60			
5	QPSK	1	24	22.71	22.54	22.60	22.58	22.59			
5	QPSK	12	0	21.95	21.88	21.93	21.79	21.67			
5	QPSK	12	7	21.87	21.91	21.78	21.64	21.64	22.5		
5	QPSK	12	13	21.85	21.77	21.75	21.62	21.54			
5	QPSK	25	0	21.85	21.90	21.80	21.67	21.54			
5	16QAM	1	0	21.94	21.98	21.84	21.93	21.93			
5	16QAM	1	12	21.87	21.75	21.83	21.78	21.83	22.5		
5	16QAM	1	24	21.79	21.73	21.87	21.84	21.77			
5	16QAM	12	0	20.94	20.90	20.83	20.69	20.61			
5	16QAM	12	7	20.88	20.78	20.83	20.77	20.66			
5	16QAM	12	13	20.88	20.64	20.68	20.57	20.63	21.5		
5	16QAM	25	0	20.82	20.82	20.85	20.82	20.79			
5	64QAM	1	0	20.89	20.92	20.85	20.75	20.78			
5	64QAM	1	12	20.85	20.56	20.77	20.63	20.73			
5	64QAM	1	24	20.78	20.69	20.86	20.75	20.80	21.5		
5	64QAM	12	0	20.93	20.88	20.78	20.62	20.58			
5	64QAM	12	7	20.78	20.80	20.72	20.64	20.66			
5	64QAM	12	13	20.68	20.58	20.58	20.54	20.51			
5	256QAM	1	0	16.69	16.73	16.64	16.55	16.51	17.5		

Band 41 (2496~2690MHz) (dBm)PC3-ANT 5										
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)	
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2501.5	2543.5	2585.5	2627.5	2669.5		
20	QPSK	1	0	21.51	21.42	21.57	21.41	21.40	22.3	21.40
20	QPSK	1	49	21.42	21.49	21.32	21.34	21.30		21.30
20	QPSK	1	99	21.51	21.36	21.47	21.37	21.29		21.29
20	QPSK	50	0	20.74	20.69	20.75	20.60	20.72		20.72
20	QPSK	50	24	20.70	20.67	20.61	20.46	20.43	21.3	20.43
20	QPSK	50	50	20.72	20.61	20.57	20.40	20.30		20.30
20	QPSK	100	0	20.71	20.67	20.62	20.52	20.40		20.40
20	16QAM	1	0	20.79	20.81	20.75	20.69	20.70		20.70
20	16QAM	1	49	20.72	20.59	20.69	20.62	20.65	21.3	20.65
20	16QAM	1	99	20.65	20.51	20.74	20.60	20.62		20.62
20	16QAM	50	0	19.80	19.76	19.82	19.56	19.47		19.47
20	16QAM	50	24	19.74	19.59	19.65	19.53	19.50		19.50
20	16QAM	50	50	19.71	19.47	19.50	19.42	19.46	20.3	19.46
20	16QAM	100	0	19.62	19.59	19.65	19.59	19.60		19.60
20	64QAM	1	0	19.70	19.77	19.68	19.58	19.62		19.62
20	64QAM	1	49	19.69	19.41	19.59	19.50	19.52		19.52
20	64QAM	50	0	19.63	19.54	19.63	19.54	19.57	20.3	19.57
20	64QAM	50	0	19.75	19.69	19.56	19.49	19.33		19.33
20	64QAM	50	24	19.65	19.60	19.59	19.47	19.51		19.51
20	64QAM	50	50	19.52	19.53	19.54	19.43	19.45		19.45
20	64QAM	100	0	19.71	19.66	19.70	19.61	19.60	20.3	19.60
20	256QAM	1	0	15.90	15.97	15.88	15.78	15.82		15.82
20	256QAM	1	49	15.89	15.61	15.79	15.70	15.72		15.72
20	256QAM	1	99	15.83	15.74	15.83	15.74	15.77		15.77
20	256QAM	50	0	15.95	15.89	15.76	15.69	15.53		15.53
20	256QAM	50	24	15.85	15.80	15.79	15.67	15.71	17.3	15.71
20	256QAM	50	50	15.72	15.73	15.74	15.63	15.65		15.65
20	256QAM	100	0	15.91	15.86	15.90	15.81	15.80		15.80
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	21.46	21.31	21.56	21.35	21.31	22.3	21.31
15	QPSK	1	37	21.41	21.39	21.30	21.29	21.31		21.31
15	QPSK	1	74	21.42	21.30	21.37	21.32	21.28		21.28
15	QPSK	36	0	20.63	20.61	20.71	20.53	20.47		20.47
15	QPSK	36	20	20.59	20.56	20.37	20.37	20.37	21.3	20.37
15	QPSK	36	39	20.71	20.60	20.54	20.31	20.28		20.28
15	QPSK	75	0	20.62	20.61	20.54	20.42	20.33		20.33
15	16QAM	1	0	20.75	20.69	20.64	20.57	20.64		20.64
15	16QAM	1	37	20.63	20.52	20.67	20.52	20.55	21.3	20.55
15	16QAM	1	74	20.61	20.39	20.64	20.57	20.50		20.50
15	16QAM	36	0	19.73	19.68	19.54	19.46	19.42		19.42
15	16QAM	36	20	19.73	19.50	19.59	19.44	19.47		19.47
15	16QAM	36	39	19.60	19.35	19.41	19.35	19.45	20.3	19.45
15	16QAM	75	0	19.58	19.53	19.64	19.50	19.57		19.57
15	64QAM	1	0	19.59	19.66	19.62	19.48	19.52		19.52
15	64QAM	1	37	19.66	19.33	19.55	19.38	19.43		19.43
15	64QAM	1	74	19.60	19.51	19.52	19.43	19.53	20.3	19.53
15	64QAM	36	0	19.63	19.68	19.46	19.46	19.28		19.28
15	64QAM	36	20	19.54	19.48	19.49	19.38	19.47		19.47
15	64QAM	36	39	19.47	19.49	19.46	19.42	19.41		19.41
15	64QAM	75	0	19.64	19.57	19.58	19.54	19.56	17.3	19.56
15	256QAM	1	0	15.80	15.88	15.85	15.75	15.73		15.73
15	256QAM	1	37	15.79	15.59	15.71	15.66	15.69		15.69
15	256QAM	1	74	15.75	15.67	15.76	15.63	15.71		15.71
15	256QAM	36	0	15.90	15.79	15.66	15.58	15.47		15.47
15	256QAM	36	20	15.77	15.77	15.69	15.65	15.67	17.3	15.67
15	256QAM	36	39	15.66	15.72	15.71	15.52	15.54		15.54
15	256QAM	75	0	15.83	15.78	15.83	15.75	15.69		15.69
Channel				39700	40160	40620	41089	41540	Tune-up limit (dBm)	
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	21.42	21.37	21.52	21.35	21.31	22.3	21.31
10	QPSK	1	25	21.34	21.39	21.28	21.34	21.31		21.31
10	QPSK	1	49	21.47	21.31	21.37	21.35	21.32		21.32
10	QPSK	25	0	20.70	20.62	20.67	20.55	20.40		20.40
10	QPSK	25	12	20.69	20.58	20.60	20.44	20.33	21.3	20.33
10	QPSK	25	25	20.71	20.52	20.55	20.37	20.28		20.28
10	QPSK	50	0	20.67	20.59	20.61	20.43	20.35		20.35
10	16QAM	1	0	20.75	20.70	20.66	20.57	20.63		20.63
10	16QAM	1	25	20.66	20.56	20.59	20.58	20.56	21.3	20.56
10	16QAM	1	49	20.62	20.45	20.73	20.56	20.56		20.56
10	16QAM	25	0	19.69	19.72	19.64	19.51	19.36		19.36
10	16QAM	25	12	19.71	19.56	19.60	19.49	19.39		19.39
10	16QAM	25	25	19.64	19.40	19.43	19.41	19.36	20.3	19.36
10	16QAM	50	0	19.52	19.53	19.61	19.56	19.58		19.58
10	64QAM	1	0	19.65	19.70	19.58	19.51	19.56		19.56
10	64QAM	1	25	19.66	19.31	19.51	19.45	19.43		19.43
10	64QAM	1	49	19.51	19.46	19.55	19.53	19.47	20.3	19.47
10	64QAM	25	0	19.64	19.66	19.46	19.42	19.32		19.32
10	64QAM	25	12	19.61	19.53	19.49	19.45	19.49		19.49
10	64QAM	25	25	19.51	19.42	19.51	19.40	19.38		19.38
10	64QAM	50	0	19.70	19.64	19.66	19.51	19.56	17.3	19.56
10	256QAM	1	0	15.83	15.91	15.86	15.66	15.75		15.75
10	256QAM	1	25	15.83	15.55	15.67	15.66	15.65		15.65
10	256QAM	1	49	15.79	15.72	15.73	15.67	15.66		15.66
10	256QAM	25	0	15.91	15.84	15.65	15.60	15.47	17.3	15.47
10	256QAM	25	12	15.79	15.79	15.78	15.57	15.60		15.60
10	256QAM	25	25	15.71	15.63	15.64	15.51	15.56		15.56
10	256QAM	50	0	15.84	15.82	15.83	15.78	15.76		15.76
Channel				39755	40165	40620	41093	41555	Tune-up limit (dBm)	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	21.40	21.31	21.54	21.33	21.29	22.3	21.29
5	QPSK	1	12	21.40	21.39	21.32	21.31	21.35		21.35
5	QPSK	1	24	21.46	21.29	21.35	21.33	21.34		21.34
5	QPSK	12	0	20.70	20.63	20.68	20.54	20.42		20.42
5	QPSK	12	7	20.62	20.66	20.53	20.39	20.39	21.3	20.39
5	QPSK	12	13	20.60	20.52	20.50	20.37	20.29		20.29
5	QPSK	25	0	20.60	20.65	20.55	20.42	20.29		20.29
5	16QAM	1	0	20.49	20.73	20.69	20.68	20.68		20.68
5	16QAM	1	12	20.62	20.50	20.58	20.53	20.58	21.3	20.58
5	16QAM	1	24	20.54	20.48	20.62	20.59	20.52		20.52
5	16QAM	12	0	19.69	19.65	19.58	19.44	19.36		19.36
5	16QAM	12	7	19.63	19.53	19.58	19.52	19.41		19.41
5	16QAM	12	13	19.63	19.39	19.43	19.32	19.38	20.3	19.38
5	16QAM	25	0	19.57	19.57	19.60	19.57	19.54		19.54
5	64QAM	1	0	19.64	19.67	19.60	19.50	19.53		19.53
5	64QAM	1	12	19.58	19.31	19.52	19.38	19.48		19.48
5	64QAM	1	24	19.53	19.44	19.81	19.50	19.55	20.3	19.55
5	64QAM	12	0	19.68	19.63	19.53	19.37	19.31		19.31
5	64QAM	12	7	19.65	19.55	19.47	19.39	19.41		19.41
5	64QAM	12	13	19.43	19.43	19.43	19.39	19.38		19.38
5	64QAM	25	0	19.63	19.58	19.65	19.50	19.57		

Band 41 (2496~2690MHz) (dBm)PC3-ANT 6											
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Turn-up limit (dBm)		
Channel				39750	40185	40620	41055	41490			
Frequency (MHz)				2503.5	2548.3	2593.1	2637.9	2682.7			
20	QPSK	1	0	21.26	21.17	21.32	21.16	21.15	22	20.6	
20	QPSK	1	49	21.17	21.24	21.07	21.09	21.05			
20	QPSK	1	99	21.26	21.11	21.22	21.12	21.04			
20	QPSK	50	0	20.49	20.44	20.50	20.35	20.47			
20	QPSK	50	24	20.45	20.42	20.36	20.21	20.18	21	19.6	
20	QPSK	50	50	20.47	20.36	20.32	20.15	20.05			
20	QPSK	100	0	20.46	20.42	20.37	20.27	20.15			
20	QPSK	1	0	20.54	20.56	20.50	20.44	20.45			
20	16QAM	1	49	20.47	20.34	20.34	20.37	20.40	21	19.6	
20	16QAM	1	99	20.40	20.26	20.49	20.35	20.37			
20	16QAM	50	0	19.55	19.51	19.37	19.31	19.22			
20	16QAM	50	24	19.49	19.34	19.40	19.28	19.25			
20	16QAM	50	50	19.46	19.22	19.25	19.17	19.21	20	18.6	
20	16QAM	100	0	19.37	19.34	19.40	19.34	19.35			
20	16QAM	1	0	19.45	19.52	19.43	19.33	19.37			
20	16QAM	1	49	19.44	19.16	19.34	19.25	19.27			
20	64QAM	1	0	19.38	19.29	19.38	19.29	19.32	20	18.6	
20	64QAM	1	0	19.50	19.44	19.31	19.24	19.08			
20	64QAM	50	24	19.40	19.35	19.34	19.22	19.26			
20	64QAM	50	50	19.27	19.28	19.29	19.18	19.20			
20	64QAM	100	0	19.46	19.41	19.45	19.36	19.35	17	15.6	
20	256QAM	1	0	15.65	15.72	15.63	15.53	15.57			
20	256QAM	1	49	15.64	15.36	15.54	15.45	15.47			
20	256QAM	1	99	15.58	15.49	15.58	15.49	15.52			
20	256QAM	50	0	15.70	15.64	15.51	15.44	15.26	17	15.6	
20	256QAM	50	24	15.60	15.55	15.54	15.42	15.46			
20	256QAM	50	50	15.47	15.48	15.49	15.38	15.40			
20	256QAM	100	0	15.66	15.61	15.65	15.56	15.55			
Channel				39725	40173	40620	41068	41515	Turn-up limit (dBm)		
Frequency (MHz)				2503.5	2548.3	2593.1	2637.9	2682.5			
15	QPSK	1	0	21.21	21.06	21.31	21.10	21.06	22	20.6	
15	QPSK	1	37	21.16	21.14	21.05	21.04	21.06			
15	QPSK	1	74	21.17	21.05	21.12	21.07	21.03			
15	QPSK	36	0	20.36	20.36	20.46	20.28	20.22			
15	QPSK	36	24	20.34	20.34	20.32	20.12	20.12	21	19.6	
15	QPSK	36	39	20.46	20.35	20.29	20.06	20.03			
15	QPSK	75	0	20.37	20.36	20.29	20.17	20.08			
15	16QAM	1	0	20.50	20.44	20.39	20.32	20.39			
15	16QAM	1	37	20.38	20.27	20.42	20.27	20.30	21	19.6	
15	16QAM	1	74	20.36	20.14	20.39	20.32	20.25			
15	16QAM	36	0	19.48	19.43	19.29	19.21	19.17			
15	16QAM	36	20	19.48	19.25	19.34	19.19	19.22			
15	16QAM	36	39	19.35	19.10	19.16	19.10	19.20	20	18.6	
15	16QAM	75	0	19.33	19.28	19.39	19.32	19.33			
15	64QAM	1	0	19.34	19.41	19.37	19.23	19.27			
15	64QAM	1	37	19.41	19.08	19.30	19.13	19.18			
15	64QAM	1	74	19.35	19.26	19.27	19.18	19.28	20	18.6	
15	64QAM	36	0	19.38	19.43	19.21	19.21	19.03			
15	64QAM	36	20	19.29	19.23	19.24	19.13	19.22			
15	64QAM	36	39	19.22	19.24	19.21	19.17	19.16			
15	64QAM	75	0	19.39	19.20	19.33	19.29	19.35	17	15.6	
15	256QAM	1	0	15.55	15.63	15.60	15.50	15.48			
15	256QAM	1	37	15.54	15.34	15.46	15.41	15.44			
15	256QAM	1	74	15.50	15.42	15.51	15.38	15.46			
15	256QAM	36	0	15.65	15.54	15.41	15.33	15.22	17	15.6	
15	256QAM	36	20	15.52	15.52	15.44	15.40	15.42			
15	256QAM	36	39	15.41	15.47	15.46	15.27	15.29			
15	256QAM	75	0	15.58	15.51	15.58	15.50	15.44			
Channel				39760	40160	40620	41080	41540	Turn-up limit (dBm)		
Frequency (MHz)				2501	2547	2593	2639	2685			
10	QPSK	1	0	21.17	21.12	21.27	21.10	21.06	22	20.6	
10	QPSK	1	25	21.09	21.14	21.03	21.09	21.05			
10	QPSK	1	49	21.22	21.06	21.12	21.10	21.07			
10	QPSK	25	0	20.45	20.37	20.42	20.30	20.16			
10	QPSK	25	12	20.44	20.33	20.35	20.19	20.08	21	19.6	
10	QPSK	25	25	20.46	20.27	20.30	20.12	20.03			
10	QPSK	50	0	20.42	20.34	20.36	20.18	20.10			
10	16QAM	1	0	20.50	20.45	20.41	20.32	20.38			
10	16QAM	1	25	20.41	20.31	20.34	20.33	20.31	21	19.6	
10	16QAM	1	49	20.37	20.20	20.48	20.31	20.31			
10	16QAM	25	0	19.44	19.47	19.29	19.26	19.15			
10	16QAM	25	12	19.46	19.30	19.35	19.24	19.14			
10	16QAM	25	25	19.39	19.15	19.18	19.16	19.11	20	18.6	
10	16QAM	50	0	19.27	19.28	19.36	19.31	19.33			
10	64QAM	1	0	19.40	19.45	19.33	19.26	19.31			
10	64QAM	1	25	19.41	19.06	19.26	19.20	19.18			
10	64QAM	1	49	19.26	19.21	19.30	19.28	19.22	20	18.6	
10	64QAM	25	0	19.39	19.41	19.21	19.17	19.07			
10	64QAM	25	12	19.36	19.28	19.24	19.20	19.24			
10	64QAM	25	25	19.26	19.17	19.26	19.15	19.19			
10	64QAM	50	0	19.45	19.39	19.41	19.29	19.31	17	15.6	
10	256QAM	1	0	15.59	15.66	15.61	15.41	15.50			
10	256QAM	1	25	15.58	15.30	15.42	15.41	15.40			
10	256QAM	1	49	15.54	15.47	15.48	15.42	15.41			
10	256QAM	25	0	15.66	15.59	15.40	15.35	15.22	17	15.6	
10	256QAM	25	12	15.54	15.54	15.51	15.32	15.35			
10	256QAM	25	25	15.46	15.38	15.39	15.26	15.31			
10	256QAM	50	0	15.59	15.57	15.58	15.51	15.51			
Channel				40165	40165	40620	41055	41555	Turn-up limit (dBm)		
Frequency (MHz)				2498.5	2498.5	2593.1	2637.9	2687.5			
5	QPSK	1	0	21.15	21.06	21.29	21.08	21.04	22	20.6	
5	QPSK	1	12	21.15	21.14	21.07	21.06	21.10			
5	QPSK	1	24	21.21	21.04	21.10	21.08	21.09			
5	QPSK	12	0	20.45	20.38	20.43	20.29	20.17			
5	QPSK	12	7	20.37	20.41	20.28	20.14	20.14	21	19.6	
5	QPSK	12	13	20.35	20.27	20.25	20.12	20.04			
5	QPSK	25	0	20.35	20.40	20.30	20.17	20.04			
5	16QAM	1	0	20.44	20.48	20.44	20.43	20.43			
5	16QAM	1	12	20.37	20.25	20.33	20.28	20.33	21	19.6	
5	16QAM	1	24	20.29	20.23	20.37	20.34	20.27			
5	16QAM	12	0	19.44	19.40	19.33	19.19	19.11			
5	16QAM	12	7	19.38	19.28	19.33	19.27	19.16			
5	16QAM	12	13	19.38	19.14	19.18	19.07	19.13	20	18.6	
5	16QAM	25	0	19.32	19.32	19.35	19.32	19.29			
5	64QAM	1	0	19.39	19.42	19.35	19.25	19.26			
5	64QAM	1	12	19.33	19.06	19.27	19.13	19.23			
5	64QAM	1	24	19.28	19.19	19.36	19.25	19.30	20	18.6	
5	64QAM	12	0	19.43	19.38	19.28	19.12	19.06			
5	64QAM	12	7	19.39	19.28	19.23	19.14	19.05			
5	64QAM	12	13	19.18	19.18	19.18	19.14	19.11			
5	64QAM	25	0	19.38	19.3						

Band 48 (dBm)-ANT 8										
BW [MHz]	Modulation	Channel	RB Size	RB Offset	Power Low Ch./Freq.	Middle-Low Channel	Middle-Low Channel	Middle-High Channel	High Channel	Tune-up limit (dBm)
Channel					55340	55830	55990	56150	56640	
Frequency (MHz)					3560	3609	3625	3641	3690	
20	QPSK	1	0	16.29	16.42	16.45	16.41	16.40		17
20	QPSK	1	49	16.29	16.14	16.11	16.07	16.02		
20	QPSK	1	99	16.27	16.21	16.08	16.10	16.04		16
20	QPSK	50	0	15.48	15.46	15.57	15.47	15.50		
20	QPSK	50	24	15.39	15.56	15.48	15.55	15.39		
20	QPSK	50	50	15.38	15.63	15.38	15.37	15.25		16
20	QPSK	100	0	15.36	15.33	15.48	15.35	15.38		
20	16QAM	1	0	15.59	15.51	15.44	15.35	15.38		16
20	16QAM	1	49	15.64	15.56	15.37	15.36	15.39		
20	16QAM	1	99	15.79	15.44	15.32	15.35	15.33		15
20	16QAM	50	0	14.80	14.69	14.56	14.48	14.51		
20	16QAM	50	24	14.56	14.59	14.52	14.45	14.47		15
20	16QAM	50	50	14.50	14.60	14.32	14.49	14.46		
20	16QAM	100	0	14.85	14.65	14.50	14.50	14.42		15
20	16QAM	1	0	14.70	14.80	14.56	14.67	14.61		
20	16QAM	1	49	14.36	14.59	14.48	14.66	14.59		15
20	16QAM	1	99	14.49	14.50	14.51	14.57	14.60		
20	16QAM	50	0	14.64	14.59	14.48	14.52	14.34		15
20	16QAM	50	24	14.71	14.61	14.44	14.49	14.44		
20	16QAM	50	50	14.65	14.39	14.22	14.55	14.51		11
20	16QAM	100	0	14.55	14.57	14.62	14.42	14.39		
20	256QAM	1	0	10.35	10.48	10.24	10.35	10.29		11
20	256QAM	1	49	10.04	10.27	10.16	10.34	10.27		
20	256QAM	1	99	10.17	10.18	10.19	10.25	10.28		11
20	256QAM	50	0	10.31	10.26	10.15	10.19	10.01		
20	256QAM	50	24	10.38	10.28	10.11	10.16	10.11		11
20	256QAM	50	50	10.32	10.06	9.89	10.22	10.18		
20	256QAM	100	0	10.22	10.24	10.29	10.09	10.06		17
Channel					55315	55820	55990	56160	56665	
Frequency (MHz)					3557.5	3608	3625	3642	3692.5	
15	QPSK	1	0	16.17	16.01	15.92	16.04	15.89		17
15	QPSK	1	37	16.08	15.94	15.89	15.89	15.81		
15	QPSK	1	74	16.08	16.03	15.81	15.93	15.79		16
15	QPSK	36	0	15.67	15.55	15.37	15.38	15.34		
15	QPSK	36	20	15.74	15.49	15.42	15.49	15.27		16
15	QPSK	36	39	15.62	15.62	15.37	15.29	15.16		
15	QPSK	75	0	15.58	15.58	15.45	15.37	15.30		16
15	16QAM	1	0	15.50	15.48	15.37	15.33	15.29		
15	16QAM	1	37	15.61	15.50	15.36	15.33	15.36		15
15	16QAM	1	74	15.70	15.43	15.28	15.32	15.31		
15	16QAM	36	0	14.72	14.66	14.50	14.46	14.44		15
15	16QAM	36	20	14.50	14.56	14.40	14.43	14.40		
15	16QAM	36	39	14.51	14.58	14.22	14.46	14.37		15
15	16QAM	75	0	14.59	14.64	14.47	14.41	14.40		
15	16QAM	1	0	14.58	14.72	14.52	14.62	14.51		15
15	16QAM	1	37	14.29	14.53	14.38	14.58	14.51		
15	16QAM	1	74	14.44	14.47	14.49	14.49	14.59		15
15	16QAM	36	0	14.59	14.50	14.42	14.50	14.25		
15	16QAM	36	20	14.64	14.59	14.38	14.38	14.40		11
15	16QAM	36	39	14.64	14.37	14.15	14.47	14.41		
15	16QAM	75	0	14.53	14.45	14.55	14.34	14.33		11
15	256QAM	1	0	10.37	10.47	10.15	10.28	10.18		
15	256QAM	1	37	10.05	10.22	10.15	10.25	10.19		11
15	256QAM	1	74	10.13	10.14	10.17	10.15	10.23		
15	256QAM	36	0	10.19	10.25	10.08	10.09	9.91		11
15	256QAM	36	20	10.31	10.24	10.08	10.13	10.10		
15	256QAM	36	39	10.20	10.04	9.78	10.13	10.15		11
15	256QAM	75	0	10.10	10.23	10.22	10.03	10.03		
Channel					55290	55815	55990	56165	56690	
Frequency (MHz)					3555	3607.5	3625	3642.5	3695	
10	QPSK	1	0	16.14	16.03	16.02	15.97	15.99		17
10	QPSK	1	25	16.09	15.95	15.94	15.83	15.79		16
10	QPSK	1	49	16.03	15.95	15.86	15.91	15.78		
10	QPSK	25	0	15.33	15.28	15.00	15.18	15.02		16
10	QPSK	25	12	15.33	15.19	15.04	15.10	14.93		
10	QPSK	25	25	15.33	15.23	14.99	14.91	14.89		16
10	QPSK	50	0	15.32	15.28	15.03	15.15	14.96		
10	16QAM	1	0	15.54	15.40	15.34	15.25	15.29		16
10	16QAM	1	25	15.57	15.52	15.35	15.24	15.27		
10	16QAM	1	49	15.72	15.34	15.29	15.30	15.29		15
10	16QAM	25	0	14.77	14.61	14.46	14.45	14.42		
10	16QAM	25	12	14.50	14.50	14.44	14.40	14.35		15
10	16QAM	25	25	14.51	14.55	14.30	14.48	14.42		
10	16QAM	50	0	14.55	14.54	14.40	14.45	14.33		15
10	16QAM	1	0	14.65	14.76	14.45	14.56	14.59		
10	16QAM	1	25	14.26	14.48	14.46	14.58	14.58		15
10	16QAM	1	49	14.43	14.45	14.39	14.45	14.48		
10	16QAM	25	0	14.61	14.53	14.43	14.41	14.27		15
10	16QAM	25	12	14.62	14.51	14.41	14.43	14.43		
10	16QAM	25	25	14.53	14.31	14.12	14.46	14.30		11
10	16QAM	50	0	14.48	14.45	14.58	14.32	14.35		
10	256QAM	1	0	10.36	10.39	10.21	10.23	10.18		11
10	256QAM	1	25	9.92	10.21	10.07	10.25	10.23		
10	256QAM	1	49	10.05	10.07	10.11	10.23	10.18		11
10	256QAM	25	0	10.29	10.22	10.13	10.07	9.89		
10	256QAM	25	12	10.37	10.18	10.01	10.09	10.03		11
10	256QAM	25	25	10.30	9.99	9.84	10.19	10.10		
10	256QAM	50	0	10.19	10.20	10.25	10.02	9.97		17
Channel					55355	55810	55990	56170	56715	
Frequency (MHz)					3552.5	3607	3625	3643	3697.5	
5	QPSK	1	0	16.15	16.01	15.98	15.97	15.91		17
5	QPSK	1	12	16.03	15.90	15.84	15.81	15.75		16
5	QPSK	1	24	16.03	15.97	15.90	15.88	15.80		
5	QPSK	12	0	15.61	15.61	15.33	15.46	15.34		16
5	QPSK	12	7	15.65	15.44	15.42	15.45	15.31		
5	QPSK	12	13	15.63	15.59	15.33	15.30	15.20		16
5	QPSK	25	0	15.64	15.64	15.37	15.37	15.26		
5	16QAM	1	0	15.59	15.45	15.75	15.85	15.70		16
5	16QAM	1	12	15.63	15.49	15.65	15.63	15.72		
5	16QAM	1	24	15.76	15.43	15.64	15.67	15.64		15
5	16QAM	12	0	14.73	14.61	14.49	14.43	14.50		
5	16QAM	12	7	14.45	14.53	14.47	14.37	14.45		15
5	16QAM	12	13	14.58	14.48	14.27	14.45	14.46		
5	16QAM	25	0	14.53	14.54	14.44	14.45	14.39		15
5	16QAM	1	0	14.66	14.69	14.47	14.65	14.59		
5	16QAM	1	12	14.35	14.44	14.43	14.54	14.54		15
5	16QAM	1	24	14.44	14.41	14.43	14.65	14.54		
5	16QAM	12	0	14.53	14.51	14.47	14.51	14.23		15
5	16QAM	12	7	14.64	14.53	14.34	14.41	14.38		
5	16QAM	12	13	14.59	14.29	14.15	14.45	14.45		11
5	16QAM	25	0	14.54	14.48	14.61	14.33	14.34		
5	256QAM	1	0	10.31	10.43	10.16	10.28	10.17		11
5	256QAM	1	12	9.98	10.23	10.15	10.23	10.23		
5	256QAM	1	24	10.08	10.11	10.06	10.16	10.09		11
5	256QAM	12	0	10.27	10.25	10.13	10.15	9.94		
5	256QAM	12	7	10.31	10.18	10.10	10.11	10.03		11
5	256QAM	12	13	10.27	10.00	9.77	10.15	10.11		
5	256QAM	25	0	10.13	10.23	10.20	9.98	9.94		

Band 4

Band 48 (dBm)-ANT 4											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Middle-Low Channel	Middle-Low Channel	Middle-High Channel	High Channel	Tune-up limit (dBm)		
Channel				55340	55830	55990	56150	56640			
Frequency (MHz)				3560	3609	3625	3641	3690			
20	QPSK	1	0	19.78	19.89	19.92	19.88	19.87	20.7		
20	QPSK	1	49	19.76	19.81	19.86	19.84	19.49			
20	QPSK	1	99	19.74	19.88	19.95	19.87	19.51			
20	QPSK	50	0	19.95	19.93	19.04	19.94	19.97			
20	QPSK	50	24	18.86	19.03	18.95	19.02	18.86	19.7		
20	QPSK	50	50	18.85	19.10	18.85	18.84	18.72			
20	QPSK	100	0	18.83	18.80	18.95	18.82	18.85			
20	16QAM	1	0	19.05	18.98	18.91	18.82	18.85			
20	16QAM	1	49	19.11	19.03	18.84	18.83	18.86	19.7		
20	16QAM	1	99	19.26	18.91	18.79	18.82	18.80			
20	16QAM	50	0	18.27	18.16	18.03	17.95	17.98			
20	16QAM	50	24	18.03	18.06	17.96	17.92	17.94			
20	16QAM	50	50	18.06	18.07	17.79	17.96	17.95	18.7		
20	16QAM	100	0	18.12	18.12	17.97	17.97	17.89			
20	64QAM	1	0	18.17	18.27	18.03	18.14	18.08			
20	64QAM	1	49	17.83	18.06	17.95	18.13	18.06		18.7	
20	64QAM	1	99	17.96	17.97	17.98	18.04	18.07			
20	64QAM	50	0	18.11	18.06	17.95	17.99	17.81			
20	64QAM	50	24	18.18	18.08	17.91	17.96	17.91			
20	64QAM	50	50	18.12	17.86	17.69	18.02	17.98	18.7		
20	64QAM	100	0	18.02	18.04	18.09	17.89	17.86			
20	256QAM	1	0	13.85	13.95	13.71	13.82	13.75			
20	256QAM	1	49	13.51	13.74	13.63	13.81	13.74		14.7	
20	256QAM	1	99	13.64	13.65	13.66	13.72	13.75			
20	256QAM	50	0	13.78	13.73	13.62	13.66	13.48			
20	256QAM	50	24	13.85	13.75	13.58	13.63	13.58	14.7		
20	256QAM	50	50	13.79	13.53	13.36	13.69	13.65			
20	256QAM	100	0	13.69	13.71	13.76	13.58	13.53			
Channel				55315	55820	55990	56160	56650	Tune-up limit (dBm)		
Frequency (MHz)				3557.5	3608	3625	3642	3692.5			
15	QPSK	1	0	19.64	19.48	19.39	19.51	19.36	20.7		
15	QPSK	1	37	19.55	19.41	19.36	19.36	19.28			
15	QPSK	1	74	19.53	19.50	19.28	19.40	19.28			
15	QPSK	36	0	18.41	18.02	18.84	18.97	18.91		19.7	
15	QPSK	36	20	18.21	18.26	18.89	18.96	18.74			
15	QPSK	36	39	19.09	19.09	18.84	18.76	18.63			
15	QPSK	75	0	19.05	19.05	18.92	18.84	18.77	19.7		
15	16QAM	1	0	18.97	18.95	18.84	18.80	18.76			
15	16QAM	1	37	19.08	18.97	18.83	18.80	18.82			
15	16QAM	1	74	18.17	18.90	18.75	18.79	18.78		18.7	
15	16QAM	36	0	18.19	18.13	17.87	17.93	17.91			
15	16QAM	36	20	17.97	18.03	17.87	17.90	17.87			
15	16QAM	36	39	17.98	18.05	17.69	17.93	17.84	18.7		
15	16QAM	75	0	18.05	18.11	17.94	17.88	17.87			
15	64QAM	1	0	18.05	18.19	17.99	18.09	17.98			
15	64QAM	1	37	17.76	18.00	17.85	18.05	17.98		18.7	
15	64QAM	1	74	17.91	17.94	17.96	17.96	18.06			
15	64QAM	36	0	18.06	17.97	17.89	17.97	17.72			
15	64QAM	36	20	18.11	18.06	17.85	17.85	17.87	18.7		
15	64QAM	36	39	18.11	17.84	17.82	17.94	17.88			
15	64QAM	75	0	18.00	17.92	18.02	17.81	17.80			
15	256QAM	1	0	13.84	13.94	13.62	13.75	13.65	14.7		
15	256QAM	1	37	13.52	13.69	13.62	13.72	13.66			
15	256QAM	1	74	13.80	13.61	13.64	13.62	13.70			
15	256QAM	36	0	13.66	13.72	13.55	13.56	13.58		14.7	
15	256QAM	36	20	13.78	13.71	13.55	13.60	13.37			
15	256QAM	36	39	13.67	13.51	13.25	13.60	13.62			
15	256QAM	75	0	13.57	13.70	13.69	13.50	13.50			
Channel				55290	55815	55990	56165	56690	Tune-up limit (dBm)		
Frequency (MHz)				3555	3607.5	3625	3642.5	3695			
10	QPSK	1	0	19.61	19.50	19.49	19.44	19.46	20.7		
10	QPSK	1	25	19.56	19.42	19.41	19.30	19.28			
10	QPSK	1	49	19.50	19.42	19.33	19.38	19.25			
10	QPSK	25	0	18.80	18.75	18.47	18.65	18.49		19.7	
10	QPSK	25	12	18.80	18.66	18.51	18.57	18.40			
10	QPSK	25	25	18.80	18.70	18.46	18.38	18.38			
10	QPSK	50	0	18.79	18.75	18.50	18.38	18.49	19.7		
10	16QAM	1	0	19.01	18.87	18.81	18.72	18.71			
10	16QAM	1	25	19.04	18.99	18.82	18.71	18.74			
10	16QAM	1	49	19.19	18.81	18.76	18.77	18.76		18.7	
10	16QAM	25	0	18.24	18.08	17.93	17.92	17.89			
10	16QAM	25	12	17.97	17.97	17.91	17.87	17.82			
10	16QAM	25	25	17.98	18.02	17.77	17.95	17.89		18.7	
10	16QAM	50	0	18.02	18.01	17.87	17.92	17.80			
10	64QAM	1	0	18.12	18.23	17.92	18.03	18.06			
10	64QAM	1	25	17.73	17.95	17.93	18.05	18.05	18.7		
10	64QAM	1	49	17.90	17.92	17.86	17.92	17.95			
10	64QAM	25	0	18.08	18.00	17.90	17.88	17.74			
10	64QAM	25	12	18.09	17.98	17.86	17.91	17.80		18.7	
10	64QAM	25	25	18.00	17.78	17.59	17.93	17.86			
10	64QAM	50	0	17.95	17.92	18.05	17.79	17.82			
10	256QAM	1	0	13.83	13.86	13.68	13.70	13.85	14.7		
10	256QAM	1	25	13.39	13.68	13.54	13.72	13.70			
10	256QAM	1	49	13.52	13.54	13.58	13.70	13.65			
10	256QAM	25	0	13.76	13.89	13.60	13.54	13.36		14.7	
10	256QAM	25	12	13.84	13.65	13.48	13.56	13.50			
10	256QAM	25	25	13.77	13.46	13.31	13.66	13.57			
10	256QAM	50	0	13.66	13.67	13.72	13.49	13.44		Tune-up limit (dBm)	
Channel				55295	55810	55990	56170	56715			
Frequency (MHz)				3552.5	3607	3625	3643	3697.5			
5	QPSK	1	0	19.62	19.48	19.45	19.44	19.38	20.7		
5	QPSK	1	12	19.50	19.37	19.31	19.28	19.22			
5	QPSK	1	24	19.50	19.44	19.37	19.35	19.27			
5	QPSK	12	0	19.08	19.08	18.80	18.93	18.81		19.7	
5	QPSK	12	7	19.12	18.91	18.89	18.92	18.78			
5	QPSK	12	13	19.10	19.06	18.80	18.77	18.67			
5	QPSK	25	0	19.11	19.11	18.84	18.84	18.73	19.7		
5	16QAM	1	0	19.03	18.92	19.22	19.12	19.17			
5	16QAM	1	12	19.10	18.96	19.12	19.10	19.19			
5	16QAM	1	24	19.23	18.90	19.11	19.14	19.11		18.7	
5	16QAM	12	0	18.20	18.08	17.96	17.90	17.97			
5	16QAM	12	7	17.92	18.00	17.94	17.84	17.92			
5	16QAM	12	13	18.05	17.95	17.74	17.92	17.93	18.7		
5	16QAM	25	0	18.00	18.01	17.91	17.92	17.86			
5	64QAM	1	0	18.13	18.16	17.94	18.12	18.06			
5	64QAM	1	12	17.82	17.94	17.85	18.09	18.01		18.7	
5	64QAM	1	24	17.81	17.88	17.90	17.92	18.01			
5	64QAM	12	0	18.00	17.98	17.94	17.98	17.70			



CA_7C Ant 5

Combination:20MHz+20MHz(100RB+100RB)

REPORT No.: SZ24070315S01

PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
20850	20850	21048	QPSK	1	0	0	0	1	0	19.06	19.80
21100	21001	21199	QPSK	1	0	0	0	1	0	19.10	19.80
21350	21152	21350	QPSK	1	0	0	0	1	0	19.08	19.80
20850	20850	21048	16QAM	1	0	0	0	1	0	18.16	18.80
21100	21001	21199	16QAM	1	0	0	0	1	0	18.17	18.80
21350	21152	21350	16QAM	1	0	0	0	1	0	18.13	18.80
20850	20850	21048	64QAM	1	0	0	0	1	0	17.19	17.80
21100	21001	21199	64QAM	1	0	0	0	1	0	17.30	17.80
21350	21152	21350	64QAM	1	0	0	0	1	0	17.16	17.80
20850	20850	21048	256QAM	1	0	0	0	1	0	14.11	14.80
21100	21001	21199	256QAM	1	0	0	0	1	0	14.12	14.80
21350	21152	21350	256QAM	1	0	0	0	1	0	14.05	14.80
20850	20850	21048	QPSK	50	0	0	0	1	0	18.10	18.80
21100	21001	21199	QPSK	50	0	0	0	1	0	18.17	18.80
21350	21152	21350	QPSK	50	0	0	0	1	0	18.08	18.80

CA_7C Ant 0

Combination:20MHz+20MHz(100RB+100RB)

PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
20850	20850	21048	QPSK	1	0	0	0	1	0	15.09	15.80
21100	21001	21199	QPSK	1	0	0	0	1	0	15.10	15.80
21350	21152	21350	QPSK	1	0	0	0	1	0	15.00	15.80
20850	20850	21048	16QAM	1	0	0	0	1	0	14.19	14.80
21100	21001	21199	16QAM	1	0	0	0	1	0	14.30	14.80
21350	21152	21350	16QAM	1	0	0	0	1	0	14.23	14.80
20850	20850	21048	64QAM	1	0	0	0	1	0	13.26	13.80
21100	21001	21199	64QAM	1	0	0	0	1	0	13.27	13.80
21350	21152	21350	64QAM	1	0	0	0	1	0	13.22	13.80
20850	20850	21048	256QAM	1	0	0	0	1	0	10.11	10.80
21100	21001	21199	256QAM	1	0	0	0	1	0	10.13	10.80
21350	21152	21350	256QAM	1	0	0	0	1	0	10.12	10.80
20850	20850	21048	QPSK	50	0	0	0	1	0	14.18	14.80
21100	21001	21199	QPSK	50	0	0	0	1	0	14.26	14.80
21350	21152	21350	QPSK	50	0	0	0	1	0	14.17	14.80

CA_12B Ant 0

Combination:5MHz+10MHz(25RB+50RB)

PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
23060	23038	23110	QPSK	1	0	0	0	1	0	20.32	21.10
23095	23048	23120	QPSK	1	0	0	0	1	0	20.40	21.10
23130	23058	23130	QPSK	1	0	0	0	1	0	20.28	21.10
23060	23038	23110	16QAM	1	0	0	0	1	0	19.37	20.10
23095	23048	23120	16QAM	1	0	0	0	1	0	19.43	20.10
23130	23058	23130	16QAM	1	0	0	0	1	0	19.39	20.10
23060	23038	23110	64QAM	1	0	0	0	1	0	18.29	19.10
23095	23048	23120	64QAM	1	0	0	0	1	0	18.37	19.10
23130	23058	23130	64QAM	1	0	0	0	1	0	18.38	19.10
23060	23038	23110	256QAM	1	0	0	0	1	0	15.32	16.10
23095	23048	23120	256QAM	1	0	0	0	1	0	15.29	16.10
23130	23058	23130	256QAM	1	0	0	0	1	0	15.27	16.10
23060	23038	23110	QPSK	25	0	0	0	1	0	19.31	20.10
23095	23048	23120	QPSK	25	0	0	0	1	0	19.34	20.10
23130	23058	23130	QPSK	25	0	0	0	1	0	19.28	20.10

CA_38C Ant 5

Combination:20MHz+20MHz(100RB+100RB)

PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
37850	37850	38048	QPSK	1	0	0	0	1	0	20.72	21.30
38000	37901	38099	QPSK	1	0	0	0	1	0	20.75	21.30
38150	37952	38150	QPSK	1	0	0	0	1	0	20.73	21.30

3-MORLAB	37850	38048	16QAM	1	0	0	0	1	0	19.84	20.30
38000	37901	38099	16QAM	1	0	0	0	1	0	19.89	20.30
38150	37952	38150	16QAM	1	0	0	0	1	0	19.88	20.30
37850	37850	38048	64QAM	1	0	0	0	1	0	18.61	19.30
38000	37901	38099	64QAM	1	0	0	0	1	0	18.64	19.30
38150	37952	38150	64QAM	1	0	0	0	1	0	18.62	19.30
37850	37850	38048	256QAM	1	0	0	0	1	0	15.68	16.30
38000	37901	38099	256QAM	1	0	0	0	1	0	15.72	16.30
38150	37952	38150	256QAM	1	0	0	0	1	0	15.70	16.30
37850	37850	38048	QPSK	50	0	0	0	1	0	19.63	20.30
38000	37901	38099	QPSK	50	0	0	0	1	0	19.65	20.30
38150	37952	38150	QPSK	50	0	0	0	1	0	19.64	20.30

REPORT No.: SZ24070315S01

CA_38C Ant 0											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
37850	37850	38048	QPSK	1	0	0	0	1	0	19.64	20.30
38000	37901	38099	QPSK	1	0	0	0	1	0	19.73	20.30
38150	37952	38150	QPSK	1	0	0	0	1	0	19.69	20.30
37850	37850	38048	16QAM	1	0	0	0	1	0	18.68	19.30
38000	37901	38099	16QAM	1	0	0	0	1	0	18.71	19.30
38150	37952	38150	16QAM	1	0	0	0	1	0	18.67	19.30
37850	37850	38048	64QAM	1	0	0	0	1	0	17.66	18.30
38000	37901	38099	64QAM	1	0	0	0	1	0	17.74	18.30
38150	37952	38150	64QAM	1	0	0	0	1	0	17.69	18.30
37850	37850	38048	256QAM	1	0	0	0	1	0	14.60	15.30
38000	37901	38099	256QAM	1	0	0	0	1	0	14.66	15.30
38150	37952	38150	256QAM	1	0	0	0	1	0	14.59	15.30
37850	37850	38048	QPSK	50	0	0	0	1	0	18.66	19.30
38000	37901	38099	QPSK	50	0	0	0	1	0	18.67	19.30
38150	37952	38150	QPSK	50	0	0	0	1	0	18.62	19.30

CA_41C Ant 5 (PC3)											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	21.61	22.30
40620	40521	40719	QPSK	1	0	0	0	1	0	21.68	22.30
41490	41292	41490	QPSK	1	0	0	0	1	0	21.63	22.30
39750	39750	39948	16QAM	1	0	0	0	1	0	20.74	21.30
40620	40521	40719	16QAM	1	0	0	0	1	0	20.83	21.30
41490	41292	41490	16QAM	1	0	0	0	1	0	20.81	21.30
39750	39750	39948	64QAM	1	0	0	0	1	0	19.78	20.30
40620	40521	40719	64QAM	1	0	0	0	1	0	19.84	20.30
41490	41292	41490	64QAM	1	0	0	0	1	0	19.76	20.30
39750	39750	39948	256QAM	1	0	0	0	1	0	16.61	17.30
40620	40521	40719	256QAM	1	0	0	0	1	0	16.74	17.30
41490	41292	41490	256QAM	1	0	0	0	1	0	16.65	17.30
39750	39750	39948	QPSK	50	0	0	0	1	0	20.76	21.30
40620	40521	40719	QPSK	50	0	0	0	1	0	20.88	21.30
41490	41292	41490	QPSK	50	0	0	0	1	0	20.72	21.30

CA_41C Ant 0 (PC3)											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	19.54	20.20
40620	40521	40719	QPSK	1	0	0	0	1	0	19.63	20.20
41490	41292	41490	QPSK	1	0	0	0	1	0	19.59	20.20
39750	39750	39948	16QAM	1	0	0	0	1	0	18.72	19.20
40620	40521	40719	16QAM	1	0	0	0	1	0	18.78	19.20
41490	41292	41490	16QAM	1	0	0	0	1	0	18.77	19.20
39750	39750	39948	64QAM	1	0	0	0	1	0	17.65	18.20
40620	40521	40719	64QAM	1	0	0	0	1	0	17.75	18.20
41490	41292	41490	64QAM	1	0	0	0	1	0	17.69	18.20
39750	39750	39948	256QAM	1	0	0	0	1	0	13.73	15.20
40620	40521	40719	256QAM	1	0	0	0	1	0	13.84	15.20
41490	41292	41490	256QAM	1	0	0	0	1	0	13.78	15.20

3-MORLAB	39750	39948	QPSK	50	0	0	0	1	0	18.69	19.20
40620	40521	40719	QPSK	50	0	0	0	1	0	22.71	23.30
41490	41292	41490	QPSK	50	0	0	0	1	0	18.72	19.20

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CA_41C Ant 5 (PC2)											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	22.64	23.30
40620	40521	40719	QPSK	1	0	0	0	1	0	22.71	23.30
41490	41292	41490	QPSK	1	0	0	0	1	0	22.66	23.30
39750	39750	39948	16QAM	1	0	0	0	1	0	21.77	22.30
40620	40521	40719	16QAM	1	0	0	0	1	0	21.86	22.30
41490	41292	41490	16QAM	1	0	0	0	1	0	21.84	22.30
39750	39750	39948	64QAM	1	0	0	0	1	0	20.81	21.30
40620	40521	40719	64QAM	1	0	0	0	1	0	20.87	21.30
41490	41292	41490	64QAM	1	0	0	0	1	0	20.79	21.30
39750	39750	39948	256QAM	1	0	0	0	1	0	17.64	18.30
40620	40521	40719	256QAM	1	0	0	0	1	0	17.77	18.30
41490	41292	41490	256QAM	1	0	0	0	1	0	17.68	18.30
39750	39750	39948	QPSK	50	0	0	0	1	0	21.79	22.30
40620	40521	40719	QPSK	50	0	0	0	1	0	21.91	22.30
41490	41292	41490	QPSK	50	0	0	0	1	0	21.75	22.30

CA_41C Ant 0 (PC2)											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	20.49	21.20
40620	40521	40719	QPSK	1	0	0	0	1	0	20.58	21.20
41490	41292	41490	QPSK	1	0	0	0	1	0	20.54	21.20
39750	39750	39948	16QAM	1	0	0	0	1	0	19.67	20.20
40620	40521	40719	16QAM	1	0	0	0	1	0	19.73	20.20
41490	41292	41490	16QAM	1	0	0	0	1	0	19.72	20.20
39750	39750	39948	64QAM	1	0	0	0	1	0	18.60	19.20
40620	40521	40719	64QAM	1	0	0	0	1	0	18.70	19.20
41490	41292	41490	64QAM	1	0	0	0	1	0	18.64	19.20
39750	39750	39948	256QAM	1	0	0	0	1	0	15.62	16.20
40620	40521	40719	256QAM	1	0	0	0	1	0	15.66	16.20
41490	41292	41490	256QAM	1	0	0	0	1	0	15.57	16.20
39750	39750	39948	QPSK	50	0	0	0	1	0	19.64	20.20
40620	40521	40719	QPSK	50	0	0	0	1	0	19.71	20.20
41490	41292	41490	QPSK	50	0	0	0	1	0	19.67	20.20

CA_48C Ant 8											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
55340	55340	55538	QPSK	1	0	0	0	1	0	15.09	15.80
55990	55891	56089	QPSK	1	0	0	0	1	0	15.22	15.80
56640	56442	56640	QPSK	1	0	0	0	1	0	15.18	15.80
55340	55340	55538	16QAM	1	0	0	0	1	0	14.13	14.80
55990	55891	56089	16QAM	1	0	0	0	1	0	14.22	14.80
56640	56442	56640	16QAM	1	0	0	0	1	0	14.19	14.80
55340	55340	55538	64QAM	1	0	0	0	1	0	13.10	13.80
55990	55891	56089	64QAM	1	0	0	0	1	0	13.21	13.80
56640	56442	56640	64QAM	1	0	0	0	1	0	13.16	13.80
55340	55340	55538	256QAM	1	0	0	0	1	0	10.13	10.80
55990	55891	56089	256QAM	1	0	0	0	1	0	10.14	10.80
56640	56442	56640	256QAM	1	0	0	0	1	0	10.12	10.80
55340	55340	55538	QPSK	50	0	0	0	1	0	14.16	14.80
55990	55891	56089	QPSK	50	0	0	0	1	0	14.25	14.80
56640	56442	56640	QPSK	50	0	0	0	1	0	14.17	14.80

CA_48C Ant 9											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
55340	55340	55538	QPSK	1	0	0	0	1	0	18.15	18.90

5-MORLAB	55891	56089	QPSK	1	0	0	0	1	0	18.18	18.90
56640	56442	56640	QPSK	1	0	0	0	1	0	17.20	17.90
55340	55340	55538	16QAM	1	0	0	0	1	0	17.23	17.90
55990	55891	56089	16QAM	1	0	0	0	1	0	17.16	17.90
56640	56442	56640	16QAM	1	0	0	0	1	0	16.16	16.90
55340	55340	55538	64QAM	1	0	0	0	1	0	16.21	16.90
55990	55891	56089	64QAM	1	0	0	0	1	0	16.17	16.90
56640	56442	56640	64QAM	1	0	0	0	1	0	13.04	13.90
55340	55340	55538	256QAM	1	0	0	0	1	0	13.10	13.90
55990	55891	56089	256QAM	1	0	0	0	1	0	13.05	13.90
56640	56442	56640	256QAM	1	0	0	0	1	0	17.10	17.90
55340	55340	55538	QPSK	50	0	0	0	1	0	17.18	17.90
55990	55891	56089	QPSK	50	0	0	0	1	0	17.05	17.90
56640	56442	56640	QPSK	50	0	0	0	1	0	17.05	17.90

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CA_48C Ant 4											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
55340	55340	55538	QPSK	1	0	0	0	1	0	18.81	19.50
55990	55891	56089	QPSK	1	0	0	0	1	0	18.86	19.50
56640	56442	56640	QPSK	1	0	0	0	1	0	18.76	19.50
55340	55340	55538	16QAM	1	0	0	0	1	0	17.76	18.50
55990	55891	56089	16QAM	1	0	0	0	1	0	17.79	18.50
56640	56442	56640	16QAM	1	0	0	0	1	0	17.73	18.50
55340	55340	55538	64QAM	1	0	0	0	1	0	16.73	17.50
55990	55891	56089	64QAM	1	0	0	0	1	0	16.80	17.50
56640	56442	56640	64QAM	1	0	0	0	1	0	16.68	17.50
55340	55340	55538	256QAM	1	0	0	0	1	0	13.68	14.50
55990	55891	56089	256QAM	1	0	0	0	1	0	13.75	14.50
56640	56442	56640	256QAM	1	0	0	0	1	0	13.69	14.50
55340	55340	55538	QPSK	50	0	0	0	1	0	17.71	18.50
55990	55891	56089	QPSK	50	0	0	0	1	0	17.82	18.50
56640	56442	56640	QPSK	50	0	0	0	1	0	17.68	18.50

CA_48C Ant 11											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
55340	55340	55538	QPSK	1	0	0	0	1	0	15.84	16.60
55990	55891	56089	QPSK	1	0	0	0	1	0	15.89	16.60
56640	56442	56640	QPSK	1	0	0	0	1	0	15.79	16.60
55340	55340	55538	16QAM	1	0	0	0	1	0	14.79	15.60
55990	55891	56089	16QAM	1	0	0	0	1	0	14.82	15.60
56640	56442	56640	16QAM	1	0	0	0	1	0	14.76	15.60
55340	55340	55538	64QAM	1	0	0	0	1	0	13.76	14.60
55990	55891	56089	64QAM	1	0	0	0	1	0	13.83	14.60
56640	56442	56640	64QAM	1	0	0	0	1	0	13.71	14.60
55340	55340	55538	256QAM	1	0	0	0	1	0	10.71	11.60
55990	55891	56089	256QAM	1	0	0	0	1	0	10.78	11.60
56640	56442	56640	256QAM	1	0	0	0	1	0	10.72	11.60
55340	55340	55538	QPSK	50	0	0	0	1	0	14.74	15.60
55990	55891	56089	QPSK	50	0	0	0	1	0	14.85	15.60
56640	56442	56640	QPSK	50	0	0	0	1	0	14.71	15.60

CA_66B Ant 5											
Combination:15MHz+10MHz(75RB+25RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
132070	132047	132140	QPSK	1	0	0	0	1	0	18.72	19.30
132322	132398	132491	QPSK	1	0	0	0	1	0	18.76	19.30
132572	132549	132642	QPSK	1	0	0	0	1	0	18.67	19.30
132070	132047	132140	16QAM	1	0	0	0	1	0	17.60	18.30
132322	132398	132491	16QAM	1	0	0	0	1	0	17.73	18.30
132572	132549	132642	16QAM	1	0	0	0	1	0	17.64	18.30
132070	132047	132140	64QAM	1	0	0	0	1	0	16.72	17.30
132322	132398	132491	64QAM	1	0	0	0	1	0	16.84	17.30
132572	132549	132642	64QAM	1	0	0	0	1	0	16.74	17.30
132070	132047	132140	256QAM	1	0	0	0	1	0	13.64	14.30

132070	132398	132491	256QAM	1	0	0	0	1	0	13.72	14.30
132572	132549	132642	256QAM	1	0	0	0	1	0	13.65	14.30
132070	132047	132140	QPSK	36	0	0	0	1	0	17.60	18.30
132322	132398	132491	QPSK	36	0	0	0	1	0	17.69	18.30
132572	132549	132642	QPSK	36	0	0	0	1	0	17.63	18.30

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CA_66B Ant 0											
Combination:15MHz+10MHz(75RB+25RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
132070	132047	132140	QPSK	1	0	0	0	1	0	18.52	19.30
132322	132398	132491	QPSK	1	0	0	0	1	0	18.56	19.30
132572	132549	132642	QPSK	1	0	0	0	1	0	18.47	19.30
132070	132047	132140	16QAM	1	0	0	0	1	0	17.40	18.30
132322	132398	132491	16QAM	1	0	0	0	1	0	17.53	18.30
132572	132549	132642	16QAM	1	0	0	0	1	0	17.44	18.30
132070	132047	132140	64QAM	1	0	0	0	1	0	16.52	17.30
132322	132398	132491	64QAM	1	0	0	0	1	0	16.64	17.30
132572	132549	132642	64QAM	1	0	0	0	1	0	16.54	17.30
132070	132047	132140	256QAM	1	0	0	0	1	0	13.44	14.30
132322	132398	132491	256QAM	1	0	0	0	1	0	13.52	14.30
132572	132549	132642	256QAM	1	0	0	0	1	0	13.45	14.30
132070	132047	132140	QPSK	36	0	0	0	1	0	17.40	18.30
132322	132398	132491	QPSK	36	0	0	0	1	0	17.49	18.30
132572	132549	132642	QPSK	36	0	0	0	1	0	17.43	18.30

CA_66C Ant 5											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
132070	132072	132270	QPSK	1	0	0	0	1	0	18.57	19.30
132322	132323	132521	QPSK	1	0	0	0	1	0	18.61	19.30
132572	132374	132572	QPSK	1	0	0	0	1	0	18.52	19.30
132070	132072	132270	16QAM	1	0	0	0	1	0	17.54	18.30
132322	132323	132521	16QAM	1	0	0	0	1	0	17.67	18.30
132572	132374	132572	16QAM	1	0	0	0	1	0	17.58	18.30
132070	132072	132270	64QAM	1	0	0	0	1	0	16.57	17.30
132322	132323	132521	64QAM	1	0	0	0	1	0	16.69	17.30
132572	132374	132572	64QAM	1	0	0	0	1	0	16.59	17.30
132070	132072	132270	256QAM	1	0	0	0	1	0	13.64	14.30
132322	132323	132521	256QAM	1	0	0	0	1	0	13.69	14.30
132572	132374	132572	256QAM	1	0	0	0	1	0	13.58	14.30
132070	132072	132270	QPSK	50	0	0	0	1	0	17.45	18.00
132322	132323	132521	QPSK	50	0	0	0	1	0	17.54	18.00
132572	132374	132572	QPSK	50	0	0	0	1	0	17.48	18.00

CA_66C Ant 0											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
132070	132072	132270	QPSK	1	0	0	0	1	0	18.59	19.30
132322	132323	132521	QPSK	1	0	0	0	1	0	18.63	19.30
132572	132374	132572	QPSK	1	0	0	0	1	0	18.54	19.30
132070	132072	132270	16QAM	1	0	0	0	1	0	17.47	18.30
132322	132323	132521	16QAM	1	0	0	0	1	0	17.60	18.30
132572	132374	132572	16QAM	1	0	0	0	1	0	17.51	18.30
132070	132072	132270	64QAM	1	0	0	0	1	0	16.59	17.30
132322	132323	132521	64QAM	1	0	0	0	1	0	16.71	17.30
132572	132374	132572	64QAM	1	0	0	0	1	0	16.61	17.30
132070	132072	132270	256QAM	1	0	0	0	1	0	13.55	14.30
132322	132323	132521	256QAM	1	0	0	0	1	0	13.61	14.30
132572	132374	132572	256QAM	1	0	0	0	1	0	13.53	14.30
132070	132072	132270	QPSK	50	0	0	0	1	0	17.47	18.30
132322	132323	132521	QPSK	50	0	0	0	1	0	17.56	18.30
132572	132374	132572	QPSK	50	0	0	0	1	0	17.50	18.30

n2 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	17.77	17.72	17.47	18.8
20		1	53	17.74	17.69	17.58	
20		1	104	17.76	17.55	17.60	
20		50	1	17.17	16.97	16.84	18.8
20	DFT-s-OFDM QPSK	50	25	17.75	17.59	17.50	
20		50	50	17.15	16.95	16.93	
20		100	0	17.26	17.07	16.99	
20		1	1	17.83	17.91	17.85	18.8
20	DFT-s-OFDM 16QAM	1	53	17.77	17.68	17.53	
20		1	104	17.77	17.54	17.27	
20		50	1	16.95	16.91	16.84	18.8
20		50	25	17.80	17.86	17.76	
20	DFT-s-OFDM 64QAM	50	50	16.99	16.98	16.90	
20		100	0	17.60	17.70	17.65	
20	DFT-s-OFDM 256QAM	1	1	16.85	16.91	16.77	17.8
20	CP-OFDM QPSK	1	1	14.76	14.92	14.67	15.8
20	CP-OFDM 16QAM	1	1	12.67	12.57	12.45	13.8
20	CP-OFDM 64QAM	1	1	16.10	16.23	16.15	16.8
20	CP-OFDM 256QAM	1	1	15.56	15.54	15.37	16.8
20		1	1	13.66	13.55	13.39	14.8
20		1	1	10.62	10.57	10.47	11.8
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	17.80	17.72	17.54	18.8
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	17.44	17.65	17.55	18.8
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	17.58	17.73	17.20	18.8

n2 (PC3)(ANT4)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	18.2
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	17.37	17.31	17.16	18.2
20		1	53	17.35	17.29	17.15	
20		1	104	17.28	17.18	17.24	
20		50	1	16.73	16.70	16.63	18.2
20	DFT-s-OFDM QPSK	50	25	17.33	17.29	17.17	
20		50	50	16.76	16.66	16.58	
20		100	0	16.81	16.76	16.65	
20		1	1	17.38	17.40	17.35	18.2
20	DFT-s-OFDM 16QAM	1	53	17.29	17.27	16.88	
20		1	104	17.38	17.24	17.26	
20		50	1	16.24	16.25	16.29	18.2
20		50	25	17.36	17.37	17.31	
20		50	50	16.28	16.22	17.23	
20		100	0	17.24	17.26	17.10	
20	DFT-s-OFDM 64QAM	1	1	16.02	16.13	15.88	17.2
20	DFT-s-OFDM 256QAM	1	1	14.44	14.50	14.34	16.2
20	CP-OFDM QPSK	1	1	12.24	12.15	12.04	13.2
20	CP-OFDM 16QAM	1	1	15.83	15.89	15.71	17.2
20	CP-OFDM 64QAM	1	1	15.18	15.23	15.00	16.2
20	CP-OFDM 256QAM	1	1	13.29	13.25	13.04	14.2
20	CP-OFDM 256QAM	1	1	10.26	10.27	10.13	11.2
Channel				371500	376000	380500	18.2
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	17.27	17.23	17.16	18.2
Channel				371000	376000	381000	18.2
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	17.33	17.24	17.09	18.2
Channel				370500	376000	381500	18.2
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	17.20	17.06	17.02	18.2

n2 (PC3)(ANT5)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	19.69	19.69	19.57	20.7
20		1	53	19.70	19.65	19.55	
20		1	104	19.63	19.58	19.62	
20		50	1	19.11	19.10	18.93	20.7
20		50	25	19.67	19.69	19.64	
20		50	50	19.06	18.88	18.98	
20		100	0	19.18	19.06	19.04	
20	DFT-s-OFDM QPSK	1	1	19.70	19.75	19.68	20.7
20		1	53	19.67	19.64	19.56	
20		1	104	19.61	19.53	19.51	
20		50	1	18.81	18.87	18.70	20.7
20		50	25	19.68	19.70	19.66	
20		50	50	18.88	18.93	18.84	
20		100	0	19.51	19.59	19.57	
20	DFT-s-OFDM 16QAM	1	1	18.50	18.51	18.32	19.7
20	DFT-s-OFDM 64QAM	1	1	16.99	17.03	16.84	17.7
20	DFT-s-OFDM 256QAM	1	1	14.72	14.75	14.53	15.7
20	CP-OFDM QPSK	1	1	18.33	18.38	18.16	19.7
20	CP-OFDM 16QAM	1	1	17.65	17.71	17.54	18.7
20	CP-OFDM 64QAM	1	1	15.74	15.69	15.54	16.7
20	CP-OFDM 256QAM	1	1	12.64	12.67	12.55	9.2
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	19.69	19.64	19.55	20.7
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	19.65	19.68	19.51	20.7
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	19.66	19.53	19.36	20.7

n2 (PC3)(ANT6)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	17.44	17.33	17.18	18.2
20		1	53	17.42	17.31	17.20	
20		1	104	17.43	17.21	17.28	
20		50	1	16.90	16.74	16.61	18.2
20	DFT-s-OFDM QPSK	50	25	17.50	17.23	17.17	
20		50	50	16.86	16.73	16.53	
20		100	0	16.98	16.76	16.59	
20		1	1	17.48	17.54	17.40	18.2
20	DFT-s-OFDM 16QAM	1	53	17.39	17.40	17.10	
20		1	104	17.44	17.47	17.35	
20		50	1	16.32	16.39	16.26	18.2
20		50	25	17.42	17.46	17.32	
20		50	50	16.37	16.35	16.28	
20		100	0	17.33	17.36	17.22	
20	DFT-s-OFDM 64QAM	1	1	16.27	16.22	15.96	17.2
20	DFT-s-OFDM 256QAM	1	1	14.64	14.64	14.32	15.2
20	CP-OFDM QPSK	1	1	12.35	12.28	12.06	13.2
20	CP-OFDM 16QAM	1	1	16.08	15.96	15.82	17.2
20	CP-OFDM 64QAM	1	1	15.31	15.33	15.06	16.2
20	CP-OFDM 256QAM	1	1	13.40	13.31	13.05	14.2
20	CP-OFDM 256QAM	1	1	10.38	10.28	10.08	11.2
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	17.50	17.36	17.18	24.2
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	17.46	17.32	16.99	24.2
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	17.29	17.18	16.92	24.2

n5 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	22
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	20.93	20.88	20.86	22
20		1	53	20.77	20.81	20.79	
20		1	104	20.81	20.80	20.74	
20		50	1	20.10	20.06	20.11	22
20	DFT-s-OFDM QPSK	50	25	20.74	20.65	20.61	
20		50	50	20.10	20.06	20.04	
20		100	0	20.23	20.28	20.25	
20		1	1	20.88	20.96	20.90	22
20	DFT-s-OFDM 16QAM	1	53	20.72	20.74	20.74	
20		1	104	20.70	20.80	20.81	
20		50	1	20.28	20.26	20.25	22
20		50	25	20.81	20.84	20.73	
20	DFT-s-OFDM 64QAM	50	50	20.25	20.21	20.20	
20		100	0	20.81	20.78	20.76	
20	DFT-s-OFDM 256QAM	1	1	19.31	19.35	19.35	20
20	CP-OFDM QPSK	1	1	17.94	18.00	17.96	19
20	CP-OFDM 16QAM	1	1	15.48	15.40	15.45	16
20	CP-OFDM 64QAM	1	1	19.04	18.98	19.01	20
20	CP-OFDM 256QAM	1	1	18.42	18.41	18.43	19
20		1	1	16.53	16.49	16.45	17
20		1	1	13.41	13.45	13.44	14
Channel				166300	167300	168300	22
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	20.90	20.87	20.80	22
Channel				165800	167300	168800	22
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	20.84	20.76	20.78	22
Channel				165300	167300	169300	22
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	20.77	20.67	20.62	22

n7 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	DFT-s-OFDM PI/2 BPSK	1	1	17.60	17.78	17.71	19
40		1	108	17.55	17.80	17.67	
40		1	214	17.75	17.71	17.75	
40		108	1	17.01	17.21	17.11	19
40		108	54	17.65	17.89	17.71	
40		108	108	17.12	17.19	17.12	
40		216	0	17.14	17.27	17.23	
40	DFT-s-OFDM QPSK	1	1	17.62	17.77	17.69	19
40		1	108	17.50	17.61	17.52	
40		1	214	17.65	17.66	17.68	
40		108	1	17.03	17.04	17.02	19
40		108	54	17.68	17.71	17.70	
40		108	108	17.05	17.01	17.07	
40		216	0	17.60	17.65	17.66	
40	DFT-s-OFDM 16QAM	1	1	15.62	15.60	15.70	17
40	DFT-s-OFDM 64QAM	1	1	14.70	14.89	14.92	16
40	DFT-s-OFDM 256QAM	1	1	12.61	12.54	12.60	14
40	CP-OFDM QPSK	1	1	15.90	16.09	16.11	17
40	CP-OFDM 16QAM	1	1	14.94	15.05	14.76	16
40	CP-OFDM 64QAM	1	1	13.42	13.51	13.64	15
40	CP-OFDM 256QAM	1	1	10.48	10.83	10.60	12
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	DFT-s-OFDM QPSK	1	1	17.45	17.60	17.69	19
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	DFT-s-OFDM QPSK	1	1	17.52	17.66	17.66	19
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	DFT-s-OFDM QPSK	1	1	17.40	17.57	17.68	19
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	DFT-s-OFDM QPSK	1	1	17.43	17.64	17.58	19
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	DFT-s-OFDM QPSK	1	1	17.49	17.65	17.66	19
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	DFT-s-OFDM QPSK	1	1	17.35	17.57	17.68	19

n7 (PC3) (ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	DFT-s-OFDM PI/2 BPSK	1	1	15.43	15.51	15.65	17.2
40		1	108	15.39	15.48	15.46	
40		1	214	15.66	15.65	15.58	
40		108	1	15.20	15.30	15.39	17.2
40		108	54	15.56	15.66	15.62	
40		108	108	15.27	15.33	15.22	
40		216	0	15.30	15.33	15.42	
40	DFT-s-OFDM QPSK	1	1	16.25	16.32	16.27	17.2
40		1	108	16.22	16.20	16.25	
40		1	214	16.14	16.23	16.10	
40		108	1	15.25	15.31	15.21	17.2
40		108	54	16.12	16.15	15.99	
40		108	108	15.23	15.27	15.17	
40		216	0	15.72	15.74	15.71	
40	DFT-s-OFDM 16QAM	1	1	15.05	14.90	15.43	16.2
40	DFT-s-OFDM 64QAM	1	1	12.70	13.00	12.70	14.2
40	DFT-s-OFDM 256QAM	1	1	11.03	11.12	10.70	13.2
40	CP-OFDM QPSK	1	1	13.70	13.75	13.73	15.2
40	CP-OFDM 16QAM	1	1	12.76	12.85	12.72	14.2
40	CP-OFDM 64QAM	1	1	12.25	12.43	12.48	13.2
40	CP-OFDM 256QAM	1	1	8.75	8.72	9.05	10.2
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	DFT-s-OFDM QPSK	1	1	15.96	16.18	15.89	17.2
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	DFT-s-OFDM QPSK	1	1	15.82	16.21	15.93	17.2
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	DFT-s-OFDM QPSK	1	1	15.92	16.28	15.92	17.2
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	DFT-s-OFDM QPSK	1	1	16.00	16.23	16.21	17.2
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	DFT-s-OFDM QPSK	1	1	16.04	16.30	16.29	17.2
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	DFT-s-OFDM QPSK	1	1	15.95	16.23	16.22	17.2

n7 (PC3)(ANT5)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	DFT-s-OFDM PI/2 BPSK	1	1	20.10	20.12	20.01	21.2
40		1	108	19.85	19.97	19.97	
40		1	214	20.05	20.08	20.05	
40		108	1	19.31	19.47	19.41	21.2
40		108	54	19.95	20.08	20.01	
40		108	108	19.42	19.41	19.42	
40		216	0	19.44	19.54	19.53	
40	DFT-s-OFDM QPSK	1	1	20.02	20.14	20.09	21.2
40		1	108	19.90	20.03	19.92	
40		1	214	20.05	20.04	20.08	
40		108	1	19.23	19.30	19.35	21.2
40		108	54	19.93	20.03	20.00	
40		108	108	19.37	19.46	19.47	
40		216	0	19.90	19.97	19.91	
40	DFT-s-OFDM 16QAM	1	1	18.75	18.82	18.97	20.2
40	DFT-s-OFDM 64QAM	1	1	17.10	17.24	17.32	18.2
40	DFT-s-OFDM 256QAM	1	1	14.79	14.88	15.00	16.2
40	CP-OFDM QPSK	1	1	13.01	13.05	13.12	14.2
40	CP-OFDM 16QAM	1	1	17.77	17.95	17.93	18.2
40	CP-OFDM 64QAM	1	1	15.82	15.95	16.04	17.2
40	CP-OFDM 256QAM	1	1	12.88	12.97	13.00	14.2
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	DFT-s-OFDM QPSK	1	1	19.85	20.00	20.09	17.2
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	DFT-s-OFDM QPSK	1	1	19.92	20.06	20.06	17.2
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	DFT-s-OFDM QPSK	1	1	19.80	19.97	20.08	21.2
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	DFT-s-OFDM QPSK	1	1	19.83	20.04	19.98	21.2
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	DFT-s-OFDM QPSK	1	1	19.89	20.05	20.06	21.2
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	DFT-s-OFDM QPSK	1	1	19.75	19.97	20.08	21.2

n7 (PC3)(ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	DFT-s-OFDM PI/2 BPSK	1	1	18.20	18.30	18.35	19.7
40		1	108	18.23	18.27	18.24	
40		1	214	18.48	18.48	18.38	
40		108	1	17.70	17.79	17.85	19.7
40		108	54	18.35	18.48	18.43	
40		108	108	17.83	17.76	17.80	
40		216	0	17.87	17.88	17.88	
40	DFT-s-OFDM QPSK	1	1	18.95	19.02	18.93	19.7
40		1	108	18.83	18.73	18.63	
40		1	214	18.48	18.82	18.55	
40		108	1	17.77	18.12	17.81	19.7
40		108	54	18.80	18.85	18.83	
40		108	108	18.03	17.74	17.83	
40		216	0	18.72	18.75	18.76	
40	DFT-s-OFDM 16QAM	1	1	17.35	17.58	17.95	18.7
40	DFT-s-OFDM 64QAM	1	1	15.69	16.02	16.34	16.7
40	DFT-s-OFDM 256QAM	1	1	13.79	14.12	14.22	14.7
40	CP-OFDM QPSK	1	1	16.88	17.07	17.03	17.7
40	CP-OFDM 16QAM	1	1	16.55	16.56	17.12	17.7
40	CP-OFDM 64QAM	1	1	14.86	14.99	15.14	15.7
40	CP-OFDM 256QAM	1	1	11.94	12.00	12.18	12.7
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	DFT-s-OFDM QPSK	1	1	18.73	18.90	18.86	19.7
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	DFT-s-OFDM QPSK	1	1	18.82	19.01	18.93	19.7
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	DFT-s-OFDM QPSK	1	1	18.69	18.97	18.81	19.7
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	DFT-s-OFDM QPSK	1	1	18.75	19.00	18.98	19.7
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	DFT-s-OFDM QPSK	1	1	18.60	19.01	19.00	19.7
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	DFT-s-OFDM QPSK	1	1	18.75	18.83	18.78	19.7

n12 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	DFT-s-OFDM PI/2 BPSK	1	1	21.81	21.71	21.71	23
15		1	39	21.78	21.78	21.71	
15		1	77	21.72	21.68	21.72	
15		36	1	21.20	21.24	21.17	23
15		36	18	21.84	21.87	21.81	
15		36	37	21.20	21.23	21.16	
15		75	0	21.16	21.20	21.16	
15	DFT-s-OFDM QPSK	1	1	21.36	21.62	21.66	23
15		1	39	21.78	21.90	21.89	
15		1	77	21.79	21.74	21.74	
15		36	1	21.11	21.03	21.13	23
15		36	18	21.76	21.89	21.84	
15		36	37	21.11	21.14	21.07	
15		75	0	21.62	21.66	21.62	
15	DFT-s-OFDM 16QAM	1	1	20.06	20.19	20.10	22
15	DFT-s-OFDM 64QAM	1	1	18.50	18.46	18.43	20
15	DFT-s-OFDM 256QAM	1	1	16.38	16.36	16.31	18
15	CP-OFDM QPSK	1	1	19.62	19.69	19.66	21
15	CP-OFDM 16QAM	1	1	19.05	19.03	18.99	20
15	CP-OFDM 64QAM	1	1	17.22	17.21	17.18	18
15	CP-OFDM 256QAM	1	1	14.32	14.29	14.29	15
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	DFT-s-OFDM QPSK	1	1	21.81	21.75	21.76	23
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	DFT-s-OFDM QPSK	1	1	21.76	21.75	21.64	23

n12 (PC3)(ANT1)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				141300	141500	141700	Tune-up limit (dBm)
Frequency (MHz)				706.5	707.5	708.5	
15	DFT-s-OFDM PI/2 BPSK	1	1	23.93	23.88	23.91	25.2
15		1	39	23.88	23.86	23.88	
15		1	77	23.91	23.89	23.85	
15		36	1	23.24	23.24	23.22	25.2
15		36	18	23.96	23.98	23.95	
15		36	37	23.23	23.31	23.23	
15		75	0	23.32	23.30	23.29	
15	DFT-s-OFDM QPSK	1	1	23.69	23.90	23.75	25.2
15		1	39	23.92	24.04	23.94	
15		1	77	23.89	23.88	23.86	
15		36	1	23.29	23.29	23.23	25.2
15		36	18	23.99	24.01	23.97	
15		36	37	23.36	23.44	23.32	
15		75	0	23.94	23.94	23.89	
15	DFT-s-OFDM 16QAM	1	1	22.82	22.79	22.86	24.2
15	DFT-s-OFDM 64QAM	1	1	21.00	21.10	21.06	22.2
15	DFT-s-OFDM 256QAM	1	1	18.85	18.82	18.83	20.2
15	CP-OFDM QPSK	1	1	22.45	22.48	22.48	23.2
15	CP-OFDM 16QAM	1	1	21.86	21.89	21.84	22.2
15	CP-OFDM 64QAM	1	1	19.80	19.78	19.80	20.2
15	CP-OFDM 256QAM	1	1	16.95	16.92	16.94	18.2
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	DFT-s-OFDM QPSK	1	1	23.91	23.85	23.78	25.2
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	DFT-s-OFDM QPSK	1	1	23.83	23.78	23.77	25.2

n25 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				374000	376500	380000	
Frequency (MHz)				1870	1882.5	1900	
40	DFT-s-OFDM PI/2 BPSK	1	1	18.42	18.39	18.37	19.6
40		1	108	18.28	18.16	18.35	
40		1	214	18.21	18.32	18.42	
40		108	1	17.77	17.78	17.73	19.6
40		108	54	18.30	18.23	18.37	
40		108	108	17.62	17.73	17.78	
40		216	0	17.83	17.73	17.84	
40	DFT-s-OFDM QPSK	1	1	18.46	18.41	18.37	19.6
40		1	108	18.23	18.14	18.36	
40		1	214	18.21	18.17	18.31	
40		108	1	17.68	17.70	17.60	19.6
40		108	54	18.39	18.30	18.31	
40		108	108	17.82	17.77	17.84	
40		216	0	18.33	18.31	18.34	
40	DFT-s-OFDM 16QAM	1	1	17.24	17.25	17.12	18.6
40	DFT-s-OFDM 64QAM	1	1	15.65	15.62	15.64	16.6
40	DFT-s-OFDM 256QAM	1	1	13.35	13.31	13.33	14.6
40	CP-OFDM QPSK	1	1	16.22	16.30	16.55	17.6
40	CP-OFDM 16QAM	1	1	15.55	15.34	15.21	16.6
40	CP-OFDM 64QAM	1	1	14.42	14.33	14.34	15.6
40	CP-OFDM 256QAM	1	1	11.36	11.35	11.35	12.6
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	DFT-s-OFDM QPSK	1	1	18.41	18.30	18.17	19.6
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	DFT-s-OFDM QPSK	1	1	18.41	18.24	18.29	19.6
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM QPSK	1	1	18.38	18.29	18.15	19.6
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	18.43	18.32	18.22	19.6
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	18.44	18.23	18.14	19.6
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	DFT-s-OFDM QPSK	1	1	18.25	18.11	18.06	19.6

n25 (PC3)(ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				374000	376500	380000	
Frequency (MHz)				1870	1882.5	1900	
40	DFT-s-OFDM PI/2 BPSK	1	1	18.20	18.07	17.97	19.1
40		1	108	18.21	17.88	17.95	
40		1	214	18.14	17.98	18.02	
40		108	1	17.62	17.41	17.33	19.1
40		108	54	18.22	17.95	17.97	
40		108	108	17.57	17.38	17.38	
40		216	0	17.69	17.42	17.44	
40	DFT-s-OFDM QPSK	1	1	18.27	18.07	17.97	19.1
40		1	108	18.24	17.84	17.96	
40		1	214	18.12	17.94	17.91	
40		108	1	17.12	17.14	17.12	19.1
40		108	54	18.19	17.99	17.91	
40		108	108	17.13	17.20	17.14	
40		216	0	18.06	18.08	18.09	
40	DFT-s-OFDM 16QAM	1	1	17.01	16.74	16.72	18.1
40	DFT-s-OFDM 64QAM	1	1	15.50	15.17	15.24	16.1
40	DFT-s-OFDM 256QAM	1	1	13.23	13.05	12.93	14.1
40	CP-OFDM QPSK	1	1	16.84	16.58	16.56	18.1
40	CP-OFDM 16QAM	1	1	16.16	15.95	15.94	17.1
40	CP-OFDM 64QAM	1	1	14.25	14.11	13.94	15.1
40	CP-OFDM 256QAM	1	1	11.15	11.02	10.95	12.1
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	DFT-s-OFDM QPSK	1	1	18.06	17.95	17.82	19.1
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	DFT-s-OFDM QPSK	1	1	18.06	18.10	17.94	19.1
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM QPSK	1	1	18.03	17.94	17.80	19.1
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	18.08	17.97	17.87	19.1
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	18.09	17.88	17.79	19.1
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	DFT-s-OFDM QPSK	1	1	17.90	17.76	17.71	19.1

n25 (PC3)(ANT5)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				374000	376500	379000	20.7
Frequency (MHz)				1870	1882.5	1895	
40	DFT-s-OFDM PI/2 BPSK	1	1	19.72	19.71	19.69	20.7
40		1	108	19.58	19.45	19.42	
40		1	214	19.51	19.54	19.72	
40		108	1	19.07	18.98	18.95	20.7
40		108	54	19.60	19.49	19.48	
40		108	108	18.92	18.86	18.91	
40		216	0	19.13	19.02	19.03	
40	DFT-s-OFDM QPSK	1	1	19.76	19.71	19.66	20.7
40		1	108	19.53	19.40	19.35	
40		1	214	19.51	19.54	19.18	
40		108	1	18.88	18.80	18.71	20.7
40		108	54	19.69	19.61	19.63	
40		108	108	18.85	18.83	18.75	
40		216	0	19.67	19.53	19.57	
40	DFT-s-OFDM 16QAM	1	1	18.54	18.54	18.46	19.7
40	DFT-s-OFDM 64QAM	1	1	16.95	16.88	16.83	17.7
40	DFT-s-OFDM 256QAM	1	1	14.65	14.64	14.59	15.7
40	CP-OFDM QPSK	1	1	18.33	18.34	18.29	19.7
40	CP-OFDM 16QAM	1	1	17.65	17.66	17.60	18.7
40	CP-OFDM 64QAM	1	1	15.72	15.69	15.64	16.7
40	CP-OFDM 256QAM	1	1	12.66	12.68	12.64	13.7
Channel				373000	376500	380000	20.7
Frequency (MHz)				1865	1882.5	1900	
30	DFT-s-OFDM QPSK	1	1	19.71	19.60	19.47	20.7
Channel				372500	376500	380500	20.7
Frequency (MHz)				1862.5	1882.5	1902.5	
25	DFT-s-OFDM QPSK	1	1	19.71	19.75	19.59	20.7
Channel				372000	376500	381000	20.7
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM QPSK	1	1	19.68	19.59	19.45	20.7
Channel				371500	376500	381500	20.7
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	19.73	19.62	19.52	20.7
Channel				371000	376500	382000	20.7
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	19.74	19.53	19.44	20.7
Channel				370500	376500	382500	20.7
Frequency (MHz)				1852.5	1882.5	1912.5	
5	DFT-s-OFDM QPSK	1	1	19.55	19.41	19.36	20.7

n25 (PC3)(ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	DFT-s-OFDM PI/2 BPSK	1	1	18.47	18.51	18.44	19.5
40		1	108	18.48	18.29	18.42	
40		1	214	18.41	18.37	18.49	
40		108	1	17.89	17.87	17.80	19.5
40		108	54	18.49	18.50	18.44	
40		108	108	17.84	17.80	17.85	
40		216	0	17.96	17.86	17.91	
40	DFT-s-OFDM QPSK	1	1	18.54	18.42	18.44	19.5
40		1	108	18.51	18.29	18.43	
40		1	214	18.39	18.37	18.38	
40		108	1	17.59	17.69	17.57	19.5
40		108	54	18.46	18.40	18.38	
40		108	108	17.56	17.63	17.51	
40		216	0	18.32	18.41	18.40	
40	DFT-s-OFDM 16QAM	1	1	17.28	17.28	17.19	18.5
40	DFT-s-OFDM 64QAM	1	1	15.77	15.72	15.71	16.5
40	DFT-s-OFDM 256QAM	1	1	13.50	13.58	13.40	14.5
40	CP-OFDM QPSK	1	1	17.11	17.11	17.03	18.5
40	CP-OFDM 16QAM	1	1	16.43	16.50	16.41	17.5
40	CP-OFDM 64QAM	1	1	14.52	14.63	14.41	15.5
40	CP-OFDM 256QAM	1	1	11.42	11.48	11.42	12.5
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	DFT-s-OFDM QPSK	1	1	18.42	18.31	18.18	19.5
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	DFT-s-OFDM QPSK	1	1	18.42	18.46	18.30	19.5
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM QPSK	1	1	18.39	18.30	18.16	19.5
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	18.44	18.33	18.23	19.5
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	18.45	18.24	18.15	19.5
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	DFT-s-OFDM QPSK	1	1	18.26	18.12	18.07	19.5

n26(814-824MHz) (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					163800		
Frequency (MHz)					819		
10	DFT-s-OFDM PI/2 BPSK	1	1		21.37		22.5
10		1	26		21.31		
10		1	50		21.29		
10		25	1		20.71		22.5
10		25	12		21.36		
10		25	25		20.72		
10		50	0		20.76		
10	DFT-s-OFDM QPSK	1	1		21.40		22.5
10		1	26		21.39		
10		1	50		21.37		
10		25	1		20.59		22.5
10		25	12		21.37		
10		25	25		20.54		
10		50	0		21.18		
10	DFT-s-OFDM 16QAM	1	1		20.10		20.5
10	DFT-s-OFDM 64QAM	1	1		18.72		20.5
10	DFT-s-OFDM 256QAM	1	1		16.29		17.5
10	CP-OFDM QPSK	1	1		19.60		20.5
10	CP-OFDM 16QAM	1	1		18.38		19.5
10	CP-OFDM 64QAM	1	1		17.31		18.5
10	CP-OFDM 256QAM	1	1		14.33		15.5
Channel				163300	163800	164300	Tune-up limit (dBm)
Frequency (MHz)				816.5	819	821.5	
5	DFT-s-OFDM QPSK	1	1	21.16	21.30	21.20	22.5

n26(824-849MHz) (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	21.18	21.34	21.22	22.5
20		1	53	21.17	21.25	21.14	
20		1	104	21.18	21.19	21.12	
20		50	1	20.59	20.61	20.61	22.5
20		50	25	21.23	21.23	21.17	
20		50	50	20.53	20.56	20.62	
20		100	0	20.74	20.75	20.66	
20	DFT-s-OFDM QPSK	1	1	21.37	21.34	21.32	22.5
20		1	53	21.25	21.32	21.29	
20		1	104	21.27	21.27	21.19	
20		50	1	20.69	20.50	20.53	22.5
20		50	25	21.28	21.26	21.17	
20		50	50	20.66	20.69	20.69	
20		100	0	21.05	21.16	21.11	
20	DFT-s-OFDM 16QAM	1	1	19.89	19.70	19.67	20.5
20	DFT-s-OFDM 64QAM	1	1	18.15	18.15	18.09	19.5
20	DFT-s-OFDM 256QAM	1	1	15.73	15.79	15.85	17.5
20	CP-OFDM QPSK	1	1	19.44	19.39	19.41	19.5
20	CP-OFDM 16QAM	1	1	18.75	18.80	18.69	19.5
20	CP-OFDM 64QAM	1	1	16.85	16.87	16.79	17.5
20	CP-OFDM 256QAM	1	1	13.78	13.90	13.74	14.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	21.32	21.31	21.27	22.5
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	21.23	21.05	21.06	22.5
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	21.29	21.12	21.12	22.5

n30 (PC3)(ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	DFT-s-OFDM PI/2 BPSK	1	1		18.35		19.7
10		1	26		18.50		
10		1	50		18.46		
10		25	1		17.84		19.7
10		25	12		18.51		
10		25	25		17.94		
10		50	0		18.24		
10	DFT-s-OFDM QPSK	1	1		18.24		19.7
10		1	26		18.53		
10		1	50		18.15		
10		25	1		17.72		19.7
10		25	12		18.49		
10		25	25		17.90		
10		50	0		18.33		
10	DFT-s-OFDM 16QAM	1	1		17.26		18.7
10	DFT-s-OFDM 64QAM	1	1		15.62		12.2
10	DFT-s-OFDM 256QAM	1	1		13.47		10.2
10	CP-OFDM QPSK	1	1		16.88		17.7
10	CP-OFDM 16QAM	1	1		16.27		16.7
10	CP-OFDM 64QAM	1	1		14.42		14.7
10	CP-OFDM 256QAM	1	1		11.43		11.7
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	DFT-s-OFDM QPSK	1	1	18.11	18.39	18.40	19.7

n30 (PC3)(ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	DFT-s-OFDM PI/2 BPSK	1	1		18.63		19.9
10		1	26		18.70		
10		1	50		18.68		
10		25	1		18.01		19.9
10		25	12		18.69		
10		25	25		18.16		
10		50	0		18.03		
10	DFT-s-OFDM QPSK	1	1		18.52		19.9
10		1	26		18.73		
10		1	50		18.64		
10		25	1		17.98		19.9
10		25	12		18.65		
10		25	25		17.92		
10		50	0		18.61		
10	DFT-s-OFDM 16QAM	1	1		17.38		18.9
10	DFT-s-OFDM 64QAM	1	1		15.76		16.9
10	DFT-s-OFDM 256QAM	1	1		13.65		14.9
10	CP-OFDM QPSK	1	1		17.04		18.9
10	CP-OFDM 16QAM	1	1		16.46		17.9
10	CP-OFDM 64QAM	1	1		14.60		15.9
10	CP-OFDM 256QAM	1	1		11.63		12.9
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	DFT-s-OFDM QPSK	1	1	18.51	18.63	18.67	19.9

n38 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	16.94	17.03	17.06	18.2
40		1	53	16.79	16.69	16.75	
40		1	104	16.75	16.63	16.77	
40		50	1	16.43	16.40	16.41	18.2
40		50	25	16.99	16.86	16.96	
40		50	50	16.27	16.17	16.26	
40		100	0	16.51	16.44	16.43	
40	DFT-s-OFDM QPSK	1	1	17.05	17.09	17.12	18.2
40		1	53	16.76	16.68	16.72	
40		1	104	16.76	16.53	16.75	
40		50	1	16.26	16.22	16.23	18.2
40		50	25	16.98	17.00	17.01	
40		50	50	16.22	16.24	16.20	
40		100	0	17.00	17.00	16.95	
40	DFT-s-OFDM 16QAM	1	1	15.65	16.04	15.90	17.2
40	DFT-s-OFDM 64QAM	1	1	14.26	14.37	14.39	15.2
40	DFT-s-OFDM 256QAM	1	1	12.09	12.25	12.21	13.2
40	CP-OFDM QPSK	1	1	15.56	15.61	15.62	16.2
40	CP-OFDM 16QAM	1	1	14.94	14.95	15.03	15.2
40	CP-OFDM 64QAM	1	1	12.92	13.24	13.09	14.2
40	CP-OFDM 256QAM	1	1	10.08	10.27	9.93	11.2
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	DFT-s-OFDM QPSK	1	1	17.00	17.10	17.05	18.2
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	DFT-s-OFDM QPSK	1	1	16.89	17.01	16.95	18.2
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	DFT-s-OFDM QPSK	1	1	16.91	16.91	16.88	18.2
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	DFT-s-OFDM QPSK	1	1	16.94	16.94	16.89	18.2

n38 (PC3)(ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	16.00	16.11	16.12	17.1
40		1	53	15.85	15.88	15.81	
40		1	104	15.81	15.87	15.83	
40		50	1	15.49	15.61	15.47	17.1
40	DFT-s-OFDM QPSK	50	25	16.05	16.06	16.02	
40		50	50	15.33	15.41	15.32	
40		100	0	15.57	15.58	15.49	
40		1	1	16.11	16.14	16.18	17.1
40	DFT-s-OFDM 16QAM	1	53	15.82	15.98	15.78	
40		1	104	15.82	15.84	15.81	
40		50	1	15.22	15.19	15.19	17.1
40		50	25	16.04	16.04	16.07	
40	DFT-s-OFDM 64QAM	50	50	15.18	15.11	15.16	
40		100	0	15.95	15.96	15.89	
40	DFT-s-OFDM 256QAM	1	1	14.41	14.76	14.66	16.1
40	CP-OFDM QPSK	1	1	13.02	13.34	13.15	15.1
40	CP-OFDM 16QAM	1	1	10.85	10.91	10.97	12.1
40	CP-OFDM 64QAM	1	1	14.32	14.40	14.38	16.1
40	CP-OFDM 256QAM	1	1	13.70	12.83	13.79	14.1
40		1	1	11.68	11.86	11.85	13.1
40		1	1	8.84	8.92	8.73	10.1
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	DFT-s-OFDM QPSK	1	1	15.58	15.68	15.63	17.1
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	DFT-s-OFDM QPSK	1	1	15.77	15.89	15.92	17.1
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	DFT-s-OFDM QPSK	1	1	15.79	15.79	15.76	17.1
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	DFT-s-OFDM QPSK	1	1	15.82	15.82	15.77	17.1

n38 (PC3)(ANT5)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	Tune-up limit (dBm)
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	19.04	19.16	19.16	20.2
40		1	53	18.89	18.86	18.85	
40		1	104	18.85	18.86	18.87	
40		50	1	18.53	18.53	18.51	20.2
40		50	25	19.09	19.02	19.06	
40		50	50	18.37	18.36	18.36	
40		100	0	18.61	18.59	18.53	
40	DFT-s-OFDM QPSK	1	1	19.15	19.19	19.22	20.2
40		1	53	18.86	18.86	18.82	
40		1	104	18.86	18.84	18.85	
40		50	1	18.36	18.31	18.33	20.2
40		50	25	19.08	19.04	19.11	
40		50	50	18.42	18.38	18.40	
40		100	0	18.93	18.90	18.97	
40	DFT-s-OFDM 16QAM	1	1	17.75	17.86	18.00	19.2
40	DFT-s-OFDM 64QAM	1	1	16.36	16.39	16.49	17.2
40	DFT-s-OFDM 256QAM	1	1	14.19	14.19	14.31	15.2
40	CP-OFDM QPSK	1	1	17.66	17.73	17.72	19.2
40	CP-OFDM 16QAM	1	1	17.04	17.14	17.13	18.2
40	CP-OFDM 64QAM	1	1	15.02	15.15	15.19	16.2
40	CP-OFDM 256QAM	1	1	12.18	12.23	12.07	13.2
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	DFT-s-OFDM QPSK	1	1	19.10	19.20	19.15	20.2
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	DFT-s-OFDM QPSK	1	1	18.99	19.11	19.05	20.2
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	DFT-s-OFDM QPSK	1	1	19.01	19.01	18.98	20.2
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	DFT-s-OFDM QPSK	1	1	19.04	19.04	18.99	20.2

n38 (PC3)(ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	19.96	20.09	20.08	20.8
40		1	53	19.81	20.00	19.77	
40		1	104	19.77	20.11	19.79	
40		50	1	19.45	19.80	19.43	20.8
40	DFT-s-OFDM QPSK	50	25	20.01	20.11	19.98	
40		50	50	19.29	19.60	19.28	
40		100	0	19.53	19.81	19.45	
40		1	1	20.07	20.11	20.14	20.8
40	DFT-s-OFDM 16QAM	1	53	19.78	20.07	19.74	
40		1	104	19.78	20.06	19.77	
40		50	1	18.98	19.25	18.95	20.8
40		50	25	20.00	20.02	20.03	
40	DFT-s-OFDM 64QAM	50	50	19.04	19.17	19.02	
40		100	0	19.66	19.79	19.76	
40	DFT-s-OFDM 256QAM	1	1	18.67	19.21	18.92	19.8
40	DFT-s-OFDM 64QAM	1	1	17.28	17.84	17.41	18.8
40	DFT-s-OFDM 256QAM	1	1	15.11	15.52	15.23	15.8
40	CP-OFDM QPSK	1	1	18.58	18.71	18.64	19.8
40	CP-OFDM 16QAM	1	1	17.96	17.97	18.05	18.8
40	CP-OFDM 64QAM	1	1	15.94	16.44	16.11	17.8
40	CP-OFDM 256QAM	1	1	12.70	12.62	12.65	13.8
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	DFT-s-OFDM QPSK	1	1	20.02	20.12	20.07	20.8
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	DFT-s-OFDM QPSK	1	1	19.91	20.03	19.97	20.8
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	DFT-s-OFDM QPSK	1	1	19.93	19.93	19.90	20.8
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	DFT-s-OFDM QPSK	1	1	19.96	19.96	19.91	20.8

n41 (PC2)(ANT0)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	19.7
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	18.11	18.54	18.48	18.50	18.44	19.7
100		1	136	18.27	18.43	18.26	18.04	18.35	
100		1	271	18.51	18.15	17.94	17.79	18.28	
100		135	1	17.73	17.79	17.79	17.79	17.75	19.7
100		135	67	18.29	18.50	18.34	18.09	18.35	
100		135	136	17.79	17.88	17.88	17.73	17.75	
100		270	0	17.77	17.73	17.78	17.75	17.70	
100	DFT-s-OFDM QPSK	1	1	18.38	18.46	18.35	18.26	18.47	19.7
100		1	136	18.40	18.55	18.56	18.54	18.47	
100		1	271	18.50	18.09	17.94	17.93	17.74	
100		135	1	17.73	17.85	17.80	17.78	17.86	19.7
100		135	67	18.36	18.51	18.53	18.35	18.46	
100		135	136	17.79	17.89	17.70	17.71	17.79	
100		270	0	18.46	18.44	18.48	18.41	18.38	
100	DFT-s-OFDM 16QAM	1	1	16.87	17.00	17.00	16.98	16.60	17.7
100	DFT-s-OFDM 64QAM	1	1	15.71	16.17	16.09	15.83	15.69	16.7
100	DFT-s-OFDM 256QAM	1	1	14.58	14.85	14.83	14.91	14.49	15.7
100	CP-OFDM QPSK	1	1	16.57	16.89	16.86	16.95	16.80	17.7
100	CP-OFDM 16QAM	1	1	16.08	16.26	16.38	16.18	16.36	16.7
100	CP-OFDM 64QAM	1	1	14.79	15.17	15.13	15.17	14.81	15.7
100	CP-OFDM 256QAM	1	1	10.75	10.70	10.72	10.60	10.70	11.7
Channel				508200	513402	518598	523800	528996	19.7
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	17.94	18.23	18.34	18.46	18.43	19.7
Channel				507204	512904	518598	524298	529998	19.7
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	17.99	18.26	18.37	18.49	18.54	19.7
Channel				506202	512400	518598	524796	531000	19.7
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	17.91	18.15	18.38	18.42	18.39	19.7
Channel				505200	511902	518598	525798	531996	19.7
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	17.83	18.28	18.32	18.43	18.36	19.7
Channel				504204	511404	518598	525798	532998	19.7
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	18.18	18.37	18.50	18.51	18.51	19.7
Channel				503202	510900	518598	526296	534000	19.7
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	18.01	18.20	18.36	18.36	18.16	19.7
Channel				502200	510402	518598	526800	534996	19.7
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	18.15	18.29	18.53	18.43	18.18	19.7
Channel				501204	509904	518598	527298	535998	19.7
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	17.99	18.19	18.27	18.29	18.00	19.7

n41 (PC2) (ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	17.6
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	16.58	16.77	16.77	16.79	16.80	17.6
100		1	136	16.69	16.67	16.73	16.75	16.54	
100		1	271	16.86	16.83	16.62	16.30	16.17	
100		135	1	15.68	15.69	15.72	15.68	15.68	17.6
100		135	67	16.75	16.79	16.88	16.79	16.78	
100		135	136	15.61	15.63	15.72	15.67	15.72	
100		270	0	15.68	15.64	15.72	15.64	15.73	
100	DFT-s-OFDM QPSK	1	1	16.67	16.65	16.81	16.87	16.82	17.6
100		1	136	16.91	16.87	16.92	16.86	16.88	
100		1	271	16.84	16.69	16.67	16.35	16.22	
100		135	1	15.66	15.74	15.78	15.82	15.79	17.6
100		135	67	16.75	16.76	16.85	16.75	16.78	
100		135	136	15.75	15.85	15.71	15.60	15.73	
100		270	0	16.49	16.34	16.56	16.49	16.44	
100	DFT-s-OFDM 16QAM	1	1	15.70	15.66	15.75	15.81	15.80	16.6
100	DFT-s-OFDM 64QAM	1	1	14.70	14.72	14.86	14.88	14.76	15.6
100	DFT-s-OFDM 256QAM	1	1	13.51	13.53	13.65	13.62	13.62	14.6
100	CP-OFDM QPSK	1	1	15.83	15.87	15.88	15.97	16.01	16.6
100	CP-OFDM 16QAM	1	1	14.23	14.21	14.22	14.41	14.30	15.6
100	CP-OFDM 64QAM	1	1	14.29	14.34	14.42	14.43	14.47	15.6
100	CP-OFDM 256QAM	1	1	11.01	11.05	11.02	11.15	11.19	12.6
Channel				508200	513402	518598	523800	528996	17.6
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	16.76	16.77	16.78	16.87	16.86	17.6
Channel				507204	512904	518598	524298	529998	17.6
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	16.73	16.86	16.89	16.88	16.85	17.6
Channel				506202	512400	518598	524796	531000	17.6
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	16.62	16.71	16.80	16.87	16.72	17.6
Channel				505200	511902	518598	525798	531996	17.6
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	16.58	16.79	16.85	16.86	16.60	17.6
Channel				504204	511404	518598	525798	532998	17.6
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	16.72	16.90	16.88	16.88	16.62	17.6
Channel				503202	510900	518598	526296	534000	17.6
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	16.54	16.73	16.88	16.63	16.34	17.6
Channel				502200	510402	518598	526800	534996	17.6
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	16.68	16.83	16.85	16.79	16.20	17.6
Channel				501204	509904	518598	527298	535998	17.6
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	16.60	16.82	16.72	16.63	16.08	17.6

n41 (PC2)(ANT5)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	22
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	20.66	20.78	20.84	20.96	20.99	22
100		1	136	20.82	20.86	20.97	20.89	20.90	
100		1	271	21.06	21.00	21.03	20.75	20.83	
100		135	1	20.08	20.18	20.12	20.28	20.20	22
100		135	67	20.84	20.93	21.08	21.02	20.90	
100		135	136	20.14	20.15	20.20	20.12	20.10	
100		270	0	20.02	20.18	20.24	20.29	20.15	
100	DFT-s-OFDM QPSK	1	1	20.65	20.69	20.76	20.47	21.02	22
100		1	136	20.93	21.02	21.09	21.00	21.02	
100		1	271	21.05	21.00	21.02	20.71	20.19	
100		135	1	20.08	20.09	20.14	20.27	20.21	22
100		135	67	20.71	20.88	20.92	20.90	20.81	
100		135	136	20.14	20.23	20.18	20.09	20.04	
100		270	0	20.61	20.79	20.82	20.88	20.77	
100	DFT-s-OFDM 16QAM	1	1	19.38	19.61	19.67	19.82	19.91	21
100	DFT-s-OFDM 64QAM	1	1	18.22	18.69	18.79	18.89	19.00	20
100	DFT-s-OFDM 256QAM	1	1	16.49	17.55	17.66	17.68	17.80	19
100	CP-OFDM QPSK	1	1	19.08	19.83	20.01	20.06	20.11	21
100	CP-OFDM 16QAM	1	1	18.59	19.34	19.41	19.58	19.67	20
100	CP-OFDM 64QAM	1	1	17.75	18.36	18.44	18.58	18.57	19
100	CP-OFDM 256QAM	1	1	15.00	15.09	14.99	15.27	15.13	16
Channel				508200	513402	518598	523800	528996	22
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	15.29	20.78	20.89	21.01	20.98	22
Channel				507204	512904	518598	524298	529998	22
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	20.54	20.81	20.92	21.04	20.99	22
Channel				506202	512400	518598	524796	531000	22
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	20.46	20.70	20.93	20.97	20.94	22
Channel				505200	511902	518598	525798	531996	22
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	20.38	20.83	20.87	20.98	20.91	22
Channel				504204	511404	518598	525798	532998	22
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	20.73	20.92	21.05	21.06	20.96	22
Channel				503202	510900	518598	526296	534000	22
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	20.56	20.75	20.81	20.91	20.71	22
Channel				502200	510402	518598	526800	534996	22
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	20.70	20.84	20.95	20.98	20.73	22
Channel				501204	509904	518598	527298	535998	22
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	20.54	20.74	20.82	20.84	20.55	22

n41 (PC2)(ANT6)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	19.6
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	18.43	18.76	18.68	18.71	18.76	19.6
100		1	136	18.59	18.69	18.75	18.77	18.67	
100		1	271	18.83	18.63	18.80	18.54	18.60	
100		135	1	17.65	17.65	17.64	17.71	17.77	19.6
100		135	67	18.61	18.77	18.85	18.82	18.67	
100		135	136	17.71	17.69	17.73	17.66	17.57	
100		270	0	17.69	17.72	17.77	17.76	17.62	
100	DFT-s-OFDM QPSK	1	1	18.42	18.76	18.63	18.69	18.79	19.6
100		1	136	18.70	18.78	18.86	18.81	18.79	
100		1	271	18.82	18.62	18.85	18.60	17.96	
100		135	1	17.75	17.68	17.58	17.77	17.88	19.6
100		135	67	18.68	18.79	18.84	18.79	18.68	
100		135	136	17.81	17.74	17.65	17.73	17.71	
100		270	0	18.72	18.54	18.78	18.41	18.41	
100	DFT-s-OFDM 16QAM	1	1	17.08	17.12	17.45	17.50	17.61	18.6
100	DFT-s-OFDM 64QAM	1	1	15.92	16.09	16.00	15.99	16.70	16.6
100	DFT-s-OFDM 256QAM	1	1	14.19	15.10	14.95	15.02	15.50	15.6
100	CP-OFDM QPSK	1	1	16.78	17.27	17.16	16.78	17.81	17.6
100	CP-OFDM 16QAM	1	1	16.29	15.82	15.64	15.56	17.37	16.6
100	CP-OFDM 64QAM	1	1	15.45	16.08	15.96	16.09	16.27	16.6
100	CP-OFDM 256QAM	1	1	12.70	12.49	12.36	12.37	12.83	13.6
Channel				508200	513402	518598	523800	528996	19.6
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	18.26	18.55	18.66	18.78	18.75	19.6
Channel				507204	512904	518598	524298	529998	19.6
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	18.31	18.58	18.69	18.81	18.31	19.6
Channel				506202	512400	518598	524796	531000	19.6
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	18.23	18.47	18.70	18.74	18.71	19.6
Channel				505200	511902	518598	525798	531996	19.6
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	18.15	18.60	18.64	18.75	18.68	19.6
Channel				504204	511404	518598	525798	532998	19.6
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	18.50	18.69	18.82	18.83	18.83	19.6
Channel				503202	510900	518598	526296	534000	19.6
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	18.33	18.52	18.68	18.68	18.48	19.6
Channel				502200	510402	518598	526800	534996	19.6
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	18.47	18.61	18.40	18.75	18.50	19.6
Channel				501204	509904	518598	527298	535998	19.6
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	18.31	18.51	18.59	18.61	18.32	19.6

n41 (PC3)(ANT0)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	17.7
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	16.29	16.62	16.54	16.57	16.62	17.7
100		1	136	16.45	16.55	16.61	16.63	16.53	
100		1	271	16.69	16.49	16.66	16.40	16.46	
100		135	1	15.91	16.01	16.00	16.07	16.03	17.7
100		135	67	16.47	16.63	16.71	16.68	16.53	
100		135	136	15.97	16.05	16.09	16.02	15.93	
100		270	0	15.85	16.08	16.13	16.12	15.98	
100	DFT-s-OFDM QPSK	1	1	16.28	16.62	16.49	16.55	16.65	17.7
100		1	136	16.56	16.64	16.72	16.67	16.65	
100		1	271	16.68	16.48	16.71	16.46	15.82	
100		135	1	15.91	15.84	15.74	15.93	16.04	17.7
100		135	67	16.54	16.65	16.70	16.65	16.54	
100		135	136	15.97	15.90	15.81	15.89	15.87	
100		270	0	16.58	16.40	16.64	16.60	16.60	
100	DFT-s-OFDM 16QAM	1	1	14.94	14.98	15.31	15.36	15.47	15.7
100	DFT-s-OFDM 64QAM	1	1	13.78	13.95	13.86	13.85	14.56	14.7
100	DFT-s-OFDM 256QAM	1	1	12.05	12.96	12.81	12.88	13.36	13.7
100	CP-OFDM QPSK	1	1	14.64	15.13	15.02	14.64	15.67	15.7
100	CP-OFDM 16QAM	1	1	14.15	13.68	13.50	13.42	13.60	14.7
100	CP-OFDM 64QAM	1	1	13.31	13.94	13.82	13.95	14.13	14.7
100	CP-OFDM 256QAM	1	1	10.56	10.35	10.22	10.23	10.69	11.7
Channel				508200	513402	518598	523800	528996	17.7
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	16.12	16.41	16.52	16.64	16.61	17.7
Channel				507204	512904	518598	524298	529998	17.7
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	16.17	16.44	16.55	16.67	16.61	17.7
Channel				506202	512400	518598	524796	531000	17.7
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	16.09	16.33	16.56	16.60	16.57	17.7
Channel				505200	511902	518598	525798	531996	17.7
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	16.01	16.46	16.50	16.61	16.54	17.7
Channel				504204	511404	518598	525798	532998	17.7
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	16.36	16.55	16.68	16.69	16.69	17.7
Channel				503202	510900	518598	526296	534000	17.7
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	16.19	16.38	16.54	16.54	16.34	17.7
Channel				502200	510402	518598	526800	534996	17.7
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	16.33	16.47	16.62	16.61	16.36	17.7
Channel				501204	509904	518598	527298	535998	17.7
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	16.17	16.37	16.45	16.47	16.18	17.7

n41 (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	16.1
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	14.65	14.98	14.90	14.93	14.98	16.1
100		1	136	14.81	14.91	14.97	14.99	14.89	
100		1	271	15.05	14.85	15.02	14.76	14.82	
100		135	1	14.37	14.37	14.36	14.43	14.49	16.1
100		135	67	14.83	14.99	15.07	15.04	14.89	
100		135	136	14.43	14.41	14.45	14.38	14.39	
100		270	0	14.31	14.44	14.49	14.48	14.44	
100	DFT-s-OFDM QPSK	1	1	14.64	14.98	14.85	14.91	15.01	16.1
100		1	136	14.92	15.00	15.08	15.03	15.01	
100		1	271	15.04	14.84	15.07	14.82	14.18	
100		135	1	14.37	14.30	14.20	14.39	14.50	16.1
100		135	67	14.90	15.01	15.06	15.01	14.90	
100		135	136	14.43	14.36	14.27	14.35	14.33	
100		270	0	14.94	14.76	15.00	14.63	14.63	
100	DFT-s-OFDM 16QAM	1	1	13.30	13.34	13.67	13.72	13.83	14.1
100	DFT-s-OFDM 64QAM	1	1	12.14	12.31	12.22	12.21	12.92	13.1
100	DFT-s-OFDM 256QAM	1	1	10.41	11.32	11.17	11.24	11.72	12.1
100	CP-OFDM QPSK	1	1	13.00	13.49	13.38	13.00	13.30	14.1
100	CP-OFDM 16QAM	1	1	12.51	12.04	11.86	11.78	11.96	13.1
100	CP-OFDM 64QAM	1	1	11.67	12.30	12.18	12.31	12.49	13.1
100	CP-OFDM 256QAM	1	1	8.12	8.71	8.58	8.59	8.45	10.1
Channel				508200	513402	518598	523800	528996	16.1
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	14.48	14.77	14.88	15.00	14.97	16.1
Channel				507204	512904	518598	524298	529998	16.1
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	14.53	14.80	14.91	15.03	15.02	16.1
Channel				506202	512400	518598	524796	531000	16.1
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	14.45	14.69	14.92	14.96	14.93	16.1
Channel				505200	511902	518598	525798	531996	16.1
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	14.37	14.82	14.86	14.97	14.90	16.1
Channel				504204	511404	518598	525798	532998	16.1
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	14.72	14.91	15.04	15.05	15.05	16.1
Channel				503202	510900	518598	526296	534000	16.1
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	14.55	14.74	14.90	14.90	14.70	16.1
Channel				502200	510402	518598	526800	534996	16.1
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	14.69	14.83	15.00	14.97	14.72	16.1
Channel				501204	509904	518598	527298	535998	16.1
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	14.53	14.73	14.81	14.83	14.54	16.1

n41 (PC3)(ANT5)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	20
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	18.40	18.48	18.54	18.73	18.73	20
100		1	136	18.47	18.63	18.64	18.62	18.54	
100		1	271	18.71	18.65	18.55	18.32	18.44	
100		135	1	18.45	18.56	18.60	18.67	18.62	20
100		135	67	18.56	18.72	18.73	18.58	18.55	
100		135	136	18.67	18.69	18.63	18.48	18.36	
100		270	0	18.53	18.67	18.70	18.66	18.63	
100	DFT-s-OFDM QPSK	1	1	18.38	18.39	18.51	18.71	18.70	20
100		1	136	18.62	18.65	18.77	18.65	18.58	
100		1	271	18.68	18.68	18.58	18.55	18.56	
100		135	1	18.36	18.46	18.61	18.68	18.63	20
100		135	67	18.65	18.70	18.75	18.74	18.66	
100		135	136	18.72	18.70	18.57	18.59	18.54	
100		270	0	18.47	18.68	18.69	18.67	18.62	
100	DFT-s-OFDM 16QAM	1	1	18.34	18.35	18.42	18.65	18.68	20
100	DFT-s-OFDM 64QAM	1	1	18.38	18.44	18.53	18.68	18.70	20
100	DFT-s-OFDM 256QAM	1	1	16.83	17.24	17.35	17.51	17.54	19
100	CP-OFDM QPSK	1	1	18.48	18.53	18.69	18.67	18.70	20
100	CP-OFDM 16QAM	1	1	18.48	18.53	18.66	18.63	18.70	20
100	CP-OFDM 64QAM	1	1	17.88	18.02	18.16	18.32	18.33	19
100	CP-OFDM 256QAM	1	1	14.74	14.79	14.85	15.06	15.05	16
Channel				508200	513402	518598	523800	528996	20
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	18.44	18.49	18.44	18.57	18.65	20
Channel				507204	512904	518598	524298	529998	20
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	18.49	18.51	18.60	18.66	18.67	20
Channel				506202	512400	518598	524796	531000	20
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	18.44	18.53	18.59	18.64	18.52	20
Channel				505200	511902	518598	525798	531996	20
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	18.36	18.53	18.64	18.66	18.57	20
Channel				504204	511404	518598	525798	532998	20
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	18.53	18.68	18.70	18.73	18.60	20
Channel				503202	510900	518598	526296	534000	20
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	18.32	18.47	18.46	18.51	18.30	20
Channel				502200	510402	518598	526800	534996	20
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	18.42	18.52	18.73	18.57	18.35	20
Channel				501204	509904	518598	527298	535998	20
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	18.25	18.48	18.42	18.41	18.32	20

n41 (PC3)(ANT6)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	19.4
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	17.87	18.20	18.12	18.15	18.20	19.4
100		1	136	18.03	18.13	18.19	18.21	18.11	
100		1	271	18.27	18.07	18.24	17.98	18.04	
100		135	1	17.59	17.49	17.48	17.55	17.61	19.4
100		135	67	18.05	18.21	18.29	18.26	18.11	
100		135	136	17.65	17.53	17.57	17.50	17.51	
100		270	0	17.53	17.56	17.61	17.60	17.56	
100	DFT-s-OFDM QPSK	1	1	17.86	18.20	18.07	18.13	18.23	19.4
100		1	136	18.14	18.22	18.30	18.25	18.23	
100		1	271	18.26	18.06	18.29	18.04	17.40	
100		135	1	17.49	17.42	17.52	17.51	17.62	19.4
100		135	67	18.12	18.23	18.28	18.23	18.12	
100		135	136	17.55	17.48	17.49	17.47	17.45	
100		270	0	18.16	17.98	18.22	17.85	17.85	
100	DFT-s-OFDM 16QAM	1	1	16.52	16.56	16.89	16.94	17.05	18.4
100	DFT-s-OFDM 64QAM	1	1	15.36	15.53	15.44	15.43	15.25	16.4
100	DFT-s-OFDM 256QAM	1	1	14.25	14.54	14.39	14.46	14.25	16.4
100	CP-OFDM QPSK	1	1	16.22	16.71	16.60	16.22	16.52	17.4
100	CP-OFDM 16QAM	1	1	15.73	15.26	15.08	15.00	15.18	16.4
100	CP-OFDM 64QAM	1	1	14.89	15.52	15.40	15.53	15.71	16.4
100	CP-OFDM 256QAM	1	1	11.34	11.93	11.80	11.81	11.67	13.4
Channel				508200	513402	518598	523800	528996	19.4
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	17.70	17.99	12.80	18.22	18.19	19.4
Channel				507204	512904	518598	524298	529998	19.4
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	17.75	18.02	18.13	18.25	18.24	19.4
Channel				506202	512400	518598	524796	531000	19.4
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	17.67	17.91	18.14	18.18	18.15	19.4
Channel				505200	511902	518598	525798	531996	19.4
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	17.59	18.04	18.08	18.19	18.12	19.4
Channel				504204	511404	518598	525798	532998	19.4
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	17.94	18.13	18.26	18.27	18.27	19.4
Channel				503202	510900	518598	526296	534000	19.4
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	17.77	17.96	18.12	18.12	17.92	19.4
Channel				502200	510402	518598	526800	534996	19.4
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	17.91	18.05	18.22	18.19	17.94	19.4
Channel				501204	509904	518598	527298	535998	19.4
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	17.75	17.95	18.03	18.05	17.76	19.4

n48 (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				638000	639834	641666	643500	645332	14.4
Frequency (MHz)				3570	3597.51	3624.99	3652.5	3679.98	
40	DFT-s-OFDM PI/2 BPSK	1	1	12.84	12.89	13.19	13.29	13.19	14.4
40		1	53	12.92	13.30	13.12	13.27	13.23	
40		1	104	13.10	13.22	13.31	13.25	13.33	
40		50	1	12.47	12.59	12.68	12.80	12.75	14.4
40		50	25	13.00	13.41	13.20	13.44	13.36	
40		50	50	12.49	12.80	12.76	12.77	12.71	
40		100	0	12.43	12.80	12.62	12.83	12.79	
40	DFT-s-OFDM QPSK	1	1	13.18	13.27	13.37	13.32	13.36	14.4
40		1	53	12.99	13.30	13.22	13.31	13.35	
40		1	104	13.29	13.30	13.27	13.22	13.30	
40		50	1	12.70	12.66	12.77	12.70	12.64	14.4
40		50	25	13.12	13.13	13.23	13.21	13.23	
40		50	50	12.60	12.77	12.77	12.72	12.65	
40		100	0	13.14	13.13	13.22	13.21	13.21	
40	DFT-s-OFDM 16QAM	1	1	11.63	11.67	11.98	11.97	11.98	13.4
40	DFT-s-OFDM 64QAM	1	1	10.19	10.10	10.69	10.55	10.54	11.4
40	DFT-s-OFDM 256QAM	1	1	7.98	7.99	8.43	8.51	8.35	9.4
40	CP-OFDM QPSK	1	1	11.31	11.33	11.69	11.64	11.68	12.4
40	CP-OFDM 16QAM	1	1	10.71	10.79	11.08	11.03	11.07	12.4
40	CP-OFDM 64QAM	1	1	8.82	8.86	9.21	9.16	9.19	10.4
40	CP-OFDM 256QAM	1	1	6.04	6.06	6.44	6.35	6.40	7.4
Channel				637668	639668	641666	643666	645666	14.4
Frequency (MHz)				3565.02	3595.02	3624.99	3654.99	3684.99	
30	DFT-s-OFDM QPSK	1	1	12.87	12.95	13.31	13.26	13.25	14.4
Channel				637334	639500	641666	643832	646000	14.4
Frequency (MHz)				3560.01	3592.5	3624.99	3657.48	3690	
20	DFT-s-OFDM QPSK	1	1	12.32	12.87	13.20	13.15	13.19	14.4
Channel				637168	639418	641666	643916	646166	14.4
Frequency (MHz)				3557.52	3591.27	3624.99	3658.74	3692.49	
15	DFT-s-OFDM QPSK	1	1	12.37	12.95	13.33	13.28	13.13	14.4
Channel				637000	639334	641666	644000	646332	14.4
Frequency (MHz)				3555	3590.01	3624.99	3660	3694.98	
10	DFT-s-OFDM QPSK	1	1	12.30	12.80	13.34	13.29	13.20	14.4

n48 (PC3)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				638000	639834	641666	643500	645332	15.2
Frequency (MHz)				3570	3597.51	3624.99	3652.5	3679.98	
40	DFT-s-OFDM PI/2 BPSK	1	1	13.61	13.66	13.96	14.06	13.96	15.2
40		1	53	13.69	14.07	13.89	14.04	14.00	
40		1	104	13.87	13.99	14.08	14.02	14.10	
40		50	1	13.25	13.27	13.36	13.28	13.23	15.2
40		50	25	13.08	13.49	13.28	13.42	13.44	
40		50	50	13.27	13.28	13.24	13.25	13.29	
40		100	0	13.21	13.28	13.20	13.31	13.27	
40	DFT-s-OFDM QPSK	1	1	14.16	14.15	14.22	14.19	14.20	15.2
40		1	53	13.56	13.97	13.79	13.98	13.92	
40		1	104	13.86	13.87	14.04	13.99	14.07	
40		50	1	13.31	13.24	13.25	13.38	13.32	15.2
40		50	25	14.08	14.10	14.15	14.10	14.12	
40		50	50	13.28	13.35	13.35	13.30	13.28	
40		100	0	13.96	13.99	14.05	14.03	14.01	
40	DFT-s-OFDM 16QAM	1	1	12.40	12.44	12.75	12.74	12.75	13.2
40	DFT-s-OFDM 64QAM	1	1	10.96	11.50	11.46	11.32	11.31	12.2
40	DFT-s-OFDM 256QAM	1	1	8.75	8.76	9.20	9.28	9.12	10.2
40	CP-OFDM QPSK	1	1	12.08	12.10	12.46	12.41	12.45	13.2
40	CP-OFDM 16QAM	1	1	11.48	11.56	11.85	11.80	11.84	12.2
40	CP-OFDM 64QAM	1	1	9.59	9.63	9.98	9.93	9.96	11.2
40	CP-OFDM 256QAM	1	1	6.81	6.83	7.21	7.12	7.17	8.2
Channel				637668	639668	641666	643666	645666	15.2
Frequency (MHz)				3565.02	3595.02	3624.99	3654.99	3684.99	
30	DFT-s-OFDM QPSK	1	1	13.64	13.72	14.09	14.08	14.02	15.2
Channel				637334	639500	641666	643832	646000	15.2
Frequency (MHz)				3560.01	3592.5	3624.99	3657.48	3690	
20	DFT-s-OFDM QPSK	1	1	13.88	13.64	13.71	13.97	13.96	15.2
Channel				637168	639418	641666	643916	646166	15.2
Frequency (MHz)				3557.52	3591.27	3624.99	3658.74	3692.49	
15	DFT-s-OFDM QPSK	1	1	13.84	13.72	14.11	14.10	13.90	15.2
Channel				637000	639334	641666	644000	646332	15.2
Frequency (MHz)				3555	3590.01	3624.99	3660	3694.98	
10	DFT-s-OFDM QPSK	1	1	13.96	13.57	13.64	14.11	13.97	15.2

n48 (PC3)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				638000	639834	641666	643500	645332	17.7
Frequency (MHz)				3570	3597.51	3624.99	3652.5	3679.98	
40	DFT-s-OFDM PI/2 BPSK	1	1	15.04	15.55	16.19	16.39	16.48	17.7
40		1	53	15.48	16.15	16.18	16.49	16.59	
40		1	104	15.86	16.16	16.44	16.53	16.45	
40		50	1	15.76	15.74	15.88	15.93	16.06	17.7
40		50	25	15.85	16.27	16.31	16.41	16.31	
40		50	50	15.79	15.84	15.89	16.06	16.27	
40		100	0	15.75	15.79	15.88	16.01	16.15	
40	DFT-s-OFDM QPSK	1	1	16.43	16.51	16.63	16.47	16.45	17.7
40		1	53	15.94	16.04	16.06	16.40	16.52	
40		1	104	16.06	16.14	16.38	16.49	16.31	
40		50	1	15.97	15.96	16.01	16.01	15.94	17.7
40		50	25	16.31	16.31	16.37	16.35	16.32	
40		50	50	15.92	15.91	16.07	16.04	15.93	
40		100	0	16.32	16.22	16.30	16.21	16.34	
40	DFT-s-OFDM 16QAM	1	1	14.77	14.97	15.05	14.81	14.96	16.7
40	DFT-s-OFDM 64QAM	1	1	13.44	13.31	13.56	13.42	13.51	14.7
40	DFT-s-OFDM 256QAM	1	1	10.28	10.74	11.43	11.21	11.31	12.7
40	CP-OFDM QPSK	1	1	13.53	13.99	14.63	14.49	14.56	15.7
40	CP-OFDM 16QAM	1	1	13.52	13.75	14.08	14.02	14.12	15.7
40	CP-OFDM 64QAM	1	1	11.03	11.52	12.15	12.04	12.05	12.7
40	CP-OFDM 256QAM	1	1	8.93	10.00	9.38	9.24	9.35	10.7
Channel				637668	639668	641666	643666	645666	17.7
Frequency (MHz)				3565.02	3595.02	3624.99	3654.99	3684.99	
30	DFT-s-OFDM QPSK	1	1	16.25	15.67	16.23	16.46	16.58	17.7
Channel				637334	639500	641666	643832	646000	17.7
Frequency (MHz)				3560.01	3592.5	3624.99	3657.48	3690	
20	DFT-s-OFDM QPSK	1	1	16.21	15.60	16.25	16.38	16.56	17.7
Channel				637168	639418	641666	643916	646166	17.7
Frequency (MHz)				3557.52	3591.27	3624.99	3658.74	3692.49	
15	DFT-s-OFDM QPSK	1	1	16.22	16.20	16.30	16.20	16.30	17.7
Channel				637000	639334	641666	644000	646332	17.7
Frequency (MHz)				3555	3590.01	3624.99	3660	3694.98	
10	DFT-s-OFDM QPSK	1	1	16.32	16.30	16.32	16.35	16.20	17.7

n48 (PC3)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				638000	639834	641666	643500	645332	14
Frequency (MHz)				3570	3597.51	3624.99	3652.5	3679.98	
40	DFT-s-OFDM PI/2 BPSK	1	1	12.36	12.37	12.53	12.35	12.31	14
40		1	53	12.40	12.66	12.35	12.47	12.38	
40		1	104	12.53	12.40	12.51	12.45	12.49	
40		50	1	12.05	12.12	12.08	12.19	12.07	14
40		50	25	12.46	12.10	12.47	12.58	12.54	
40		50	50	12.10	12.11	12.12	12.06	12.08	
40		100	0	12.05	12.18	12.07	12.09	12.03	
40	DFT-s-OFDM QPSK	1	1	12.68	12.72	12.88	12.78	12.72	14
40		1	53	12.32	12.60	12.29	12.37	12.29	
40		1	104	12.50	12.34	12.46	12.38	12.43	
40		50	1	12.00	12.09	12.06	12.08	12.08	14
40		50	25	12.53	12.68	12.79	12.69	12.71	
40		50	50	12.07	12.02	12.09	12.06	12.04	
40		100	0	12.45	12.59	12.68	12.45	12.42	
40	DFT-s-OFDM 16QAM	1	1	11.18	11.09	11.33	11.17	11.10	12
40	DFT-s-OFDM 64QAM	1	1	9.73	9.72	9.94	9.72	9.69	11
40	DFT-s-OFDM 256QAM	1	1	7.58	7.54	7.76	7.67	7.59	8
40	CP-OFDM QPSK	1	1	10.84	10.80	11.01	10.82	10.84	12
40	CP-OFDM 16QAM	1	1	10.25	10.34	10.48	10.28	10.25	11
40	CP-OFDM 64QAM	1	1	9.12	9.00	9.10	9.10	9.00	10
40	CP-OFDM 256QAM	1	1	6.88	6.85	7.06	6.99	6.90	8
Channel				637668	639668	641666	643666	645666	14
Frequency (MHz)				3565.02	3595.02	3624.99	3654.99	3684.99	
30	DFT-s-OFDM QPSK	1	1	11.92	11.93	12.03	12.01	11.95	14
Channel				637334	639500	641666	643832	646000	14
Frequency (MHz)				3560.01	3592.5	3624.99	3657.48	3690	
20	DFT-s-OFDM QPSK	1	1	11.88	11.85	11.83	12.05	11.72	14
Channel				637168	639418	641666	643916	646166	14
Frequency (MHz)				3557.52	3591.27	3624.99	3658.74	3692.49	
15	DFT-s-OFDM QPSK	1	1	11.62	11.95	11.97	12.11	11.84	14
Channel				637000	639334	641666	644000	646332	14
Frequency (MHz)				3555	3590.01	3624.99	3660	3694.98	
10	DFT-s-OFDM QPSK	1	1	11.84	11.44	11.84	11.86	12.04	14

n66 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	21.2
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	20.29	20.39	20.35	21.2
40		1	108	20.23	20.22	20.04	
40		1	214	20.22	20.23	20.14	
40		108	1	19.75	19.75	19.65	21.2
40		108	54	20.33	20.27	20.15	
40		108	108	19.74	19.66	19.62	
40		216	0	19.73	19.78	19.68	
40	DFT-s-OFDM QPSK	1	1	20.40	20.35	20.38	21.2
40		1	108	20.20	20.16	19.94	
40		1	214	20.31	20.25	20.08	
40		108	1	19.45	19.28	19.42	21.2
40		108	54	20.33	20.31	20.32	
40		108	108	19.46	19.23	19.37	
40		216	0	20.30	20.22	20.19	
40	DFT-s-OFDM 16QAM	1	1	19.21	19.28	19.21	20.2
40	DFT-s-OFDM 64QAM	1	1	17.56	17.64	17.57	19.2
40	DFT-s-OFDM 256QAM	1	1	15.17	15.26	15.31	16.2
40	CP-OFDM QPSK	1	1	18.98	18.81	18.83	19.7
40	CP-OFDM 16QAM	1	1	18.24	18.27	18.14	19.2
40	CP-OFDM 64QAM	1	1	16.22	16.23	16.22	17.2
40	CP-OFDM 256QAM	1	1	13.34	13.31	13.22	12.2
Channel				345000	349000	353000	21.2
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	20.29	20.31	20.22	21.2
Channel				344000	349000	354000	21.2
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	20.23	20.18	20.14	21.2
Channel				343500	349000	354500	21.2
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	20.37	20.32	20.21	21.2
Channel				343000	349000	355000	21.2
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	20.32	20.36	20.15	21.2
Channel				342500	349000	355500	21.2
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	20.18	20.23	20.07	21.2

n66 (PC3)(ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	18.7
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	17.46	17.55	17.52	18.7
40		1	108	17.40	17.35	17.21	
40		1	214	17.39	17.51	17.31	
40		108	1	16.92	16.93	16.82	18.7
40		108	54	17.50	17.45	17.32	
40		108	108	16.91	16.91	16.79	
40		216	0	16.90	16.94	16.85	
40	DFT-s-OFDM QPSK	1	1	17.59	17.58	17.55	18.7
40		1	108	17.37	17.33	17.11	
40		1	214	17.48	17.46	17.25	
40		108	1	16.82	16.79	16.79	18.7
40		108	54	17.52	17.51	17.49	
40		108	108	16.83	16.77	16.74	
40		216	0	17.47	17.42	17.38	
40	DFT-s-OFDM 16QAM	1	1	16.38	16.48	16.38	17.7
40	DFT-s-OFDM 64QAM	1	1	14.73	14.86	14.74	15.7
40	DFT-s-OFDM 256QAM	1	1	12.34	12.50	12.48	13.7
40	CP-OFDM QPSK	1	1	16.15	16.07	16.00	16.7
40	CP-OFDM 16QAM	1	1	15.41	15.49	15.31	15.7
40	CP-OFDM 64QAM	1	1	13.39	13.50	13.39	14.7
40	CP-OFDM 256QAM	1	1	10.51	10.55	10.39	11.7
Channel				345000	349000	353000	18.7
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	17.46	17.48	17.39	18.7
Channel				344000	349000	354000	18.7
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	17.40	17.35	17.31	18.7
Channel				343500	349000	354500	18.7
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	17.54	17.49	17.38	18.7
Channel				343000	349000	355000	18.7
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	17.49	17.53	17.32	18.7
Channel				342500	349000	355500	18.7
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	17.35	17.40	17.24	18.7

n66 (PC3)(ANT5)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	21.1
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	19.86	19.95	19.92	21.1
40		1	108	19.80	19.72	19.61	
40		1	214	19.79	19.75	19.71	
40		108	1	19.32	19.30	19.22	21.1
40		108	54	19.90	19.86	19.72	
40		108	108	19.31	19.21	19.19	
40		216	0	19.30	19.36	19.25	
40	DFT-s-OFDM QPSK	1	1	19.97	19.92	19.95	21.1
40		1	108	19.77	19.73	19.51	
40		1	214	19.88	19.69	19.65	
40		108	1	19.22	19.21	19.19	21.1
40		108	54	19.90	19.84	19.89	
40		108	108	19.23	19.23	19.14	
40		216	0	19.82	19.78	19.77	
40	DFT-s-OFDM 16QAM	1	1	18.88	18.81	18.88	20.1
40	DFT-s-OFDM 64QAM	1	1	17.13	17.08	17.14	18.1
40	DFT-s-OFDM 256QAM	1	1	14.74	14.83	14.88	16.1
40	CP-OFDM QPSK	1	1	18.55	18.55	18.40	19.1
40	CP-OFDM 16QAM	1	1	17.81	17.71	17.71	18.1
40	CP-OFDM 64QAM	1	1	15.79	15.80	15.79	17.1
40	CP-OFDM 256QAM	1	1	12.91	12.91	12.79	14.1
Channel				345000	349000	353000	21.1
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	19.86	19.88	19.79	21.1
Channel				344000	349000	354000	21.1
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	19.80	19.75	19.71	21.1
Channel				343500	349000	354500	21.1
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	19.94	19.89	19.78	21.1
Channel				343000	349000	355000	21.1
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	19.89	19.93	19.72	21.1
Channel				342500	349000	355500	21.1
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	19.75	19.80	19.64	21.1

n66 (PC3)(ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	19
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	18.06	18.12	18.12	19
40		1	108	18.00	17.99	17.81	
40		1	214	17.99	18.14	17.91	
40		108	1	17.52	17.57	17.42	19
40		108	54	18.10	18.11	17.92	
40		108	108	17.51	17.56	17.39	
40		216	0	17.50	17.58	17.45	
40	DFT-s-OFDM QPSK	1	1	18.15	18.12	18.10	19
40		1	108	17.97	17.97	17.71	
40		1	214	18.08	18.09	17.85	
40		108	1	17.22	17.15	17.19	19
40		108	54	18.12	18.11	18.09	
40		108	108	17.23	17.01	17.14	
40		216	0	18.09	18.05	18.02	
40	DFT-s-OFDM 16QAM	1	1	16.98	17.10	16.98	18
40	DFT-s-OFDM 64QAM	1	1	15.33	15.49	15.34	16
40	DFT-s-OFDM 256QAM	1	1	12.94	13.13	13.08	14
40	CP-OFDM QPSK	1	1	16.75	16.81	16.60	18
40	CP-OFDM 16QAM	1	1	16.01	16.24	15.91	17
40	CP-OFDM 64QAM	1	1	13.99	14.15	13.99	15
40	CP-OFDM 256QAM	1	1	11.21	11.28	10.99	12
Channel				345000	349000	353000	19
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	18.06	18.08	17.99	19
Channel				344000	349000	354000	19
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	18.00	17.95	17.91	19
Channel				343500	349000	354500	19
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	18.14	18.09	17.98	19
Channel				343000	349000	355000	19
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	18.09	18.13	17.92	19
Channel				342500	349000	355500	19
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	17.95	18.00	17.84	19

n71 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				134600	136100	137600	24.4
Frequency (MHz)				673	680.5	688	
20	DFT-s-OFDM PI/2 BPSK	1	1	22.82	22.73	22.87	24.4
20		1	53	22.92	22.81	22.76	
20		1	104	22.87	22.72	22.72	
20		50	1	22.48	22.60	22.61	24.4
20		50	25	23.09	23.18	23.15	
20		50	50	22.60	22.60	22.48	
20		100	0	22.64	22.71	22.67	
20	DFT-s-OFDM QPSK	1	1	22.99	23.07	23.16	24.4
20		1	53	23.18	23.22	23.20	
20		1	104	23.13	23.08	23.07	
20		50	1	22.66	22.71	22.75	24.4
20		50	25	23.17	23.19	23.12	
20		50	50	22.67	22.74	22.63	
20		100	0	23.00	23.07	22.99	
20	DFT-s-OFDM 16QAM	1	1	21.91	21.96	22.06	23.4
20	DFT-s-OFDM 64QAM	1	1	20.31	20.34	20.43	21.4
20	DFT-s-OFDM 256QAM	1	1	17.94	18.07	18.24	19.4
20	CP-OFDM QPSK	1	1	21.59	21.60	21.71	22.4
20	CP-OFDM 16QAM	1	1	21.01	21.03	21.12	21.4
20	CP-OFDM 64QAM	1	1	18.90	19.08	19.16	20.4
20	CP-OFDM 256QAM	1	1	16.05	16.08	16.20	17.4
Channel				134100	136100	138100	24.4
Frequency (MHz)				670.5	680.5	690.5	
15	DFT-s-OFDM QPSK	1	1	22.04	23.01	22.97	24.4
Channel				133600	136100	138600	24.4
Frequency (MHz)				668	680.5	693	
10	DFT-s-OFDM QPSK	1	1	22.21	22.93	22.91	24.4
Channel				133100	136100	139100	24.4
Frequency (MHz)				665.5	680.5	695.5	
5	DFT-s-OFDM QPSK	1	1	22.82	22.93	22.89	24.4

n77(3450-3550MHz) (PC2)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			16.49			17.5
100		1	136			16.55			
100		1	271			16.30			
100		135	1			16.30			17.5
100		135	67			16.56			
100		135	136			15.69			
100	DFT-s-OFDM QPSK	270	0			16.26			17.5
100		1	1			16.58			
100		1	136			16.49			
100		1	271			16.27			17.5
100		135	1			15.96			
100		135	67			16.48			
100		135	136			15.59			17.5
100		270	0			16.43			
100	DFT-s-OFDM 16QAM	1	1			16.02			16.5
100	DFT-s-OFDM 64QAM	1	1			14.58			15.5
100	DFT-s-OFDM 256QAM	1	1			12.41			13.5
100	CP-OFDM QPSK	1	1			15.77			17.5
100	CP-OFDM 16QAM	1	1			15.20			16.5
100	CP-OFDM 64QAM	1	1			13.23			14.5
100	CP-OFDM 256QAM	1	1			10.38			11.5
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	16.40	16.39	16.37	16.32	16.39	17.5
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	16.42	16.36	16.36	16.27	16.30	17.5
Channel				632334	632634	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	16.41	16.33	16.38	16.28	16.21	17.5
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	16.23	16.20	16.09	16.10	16.07	17.5
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	16.45	16.43	16.36	16.29	16.23	17.5
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	16.36	16.34	16.13	16.05	15.82	17.5
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	16.35	16.34	16.24	16.10	15.84	17.5
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	16.20	16.10	16.05	16.01	15.81	17.5
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	16.14	16.17	16.11	15.69	15.78	17.5
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	16.11	16.14	16.16	15.63	15.79	17.5

n77(3450-3550MHz) (PC2)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			12.4
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			11.36			12.4
100		1	136			11.30			
100		1	271			10.96			
100		135	1			10.99			12.4
100		135	67			11.35			
100		135	136			10.59			
100	DFT-s-OFDM QPSK	270	0			10.84			12.4
100		1	1			11.39			
100		1	136			11.26			
100		1	271			10.93			12.4
100		135	1			10.64			
100		135	67			11.30			
100	DFT-s-OFDM 16QAM	135	136			10.69			12.4
100		270	0			11.21			
100	DFT-s-OFDM 64QAM	1	1			10.16			11.4
100	DFT-s-OFDM 256QAM	1	1			9.29			10.4
100	CP-OFDM QPSK	1	1			7.29			8.4
100	CP-OFDM 16QAM	1	1			10.32			11.4
100	CP-OFDM 64QAM	1	1			9.68			10.4
100	CP-OFDM 256QAM	1	1			7.71			8.4
100		1	1			4.95			5.4
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	11.31	11.30	11.28	11.23	11.30	12.4
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	11.33	11.27	11.27	11.18	11.21	12.4
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	11.32	11.24	11.29	11.19	11.12	12.4
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	11.14	11.11	11.00	11.01	10.98	12.4
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	11.36	11.34	11.27	11.20	11.14	12.4
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	11.27	11.25	11.04	10.96	10.93	12.4
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	11.26	11.25	11.15	11.01	10.95	12.4
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	11.11	11.01	10.96	10.92	10.92	12.4
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	11.05	11.08	11.02	10.90	10.99	12.4
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	11.32	11.35	11.37	10.84	11.00	12.4

n77(3450-3550MHz) (PC2)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			14.86			16
100		1	136			14.25			
100		1	271			14.35			
100		135	1			14.30			16
100		135	67			14.55			
100		135	136			14.26			
100		270	0			14.52			
100	DFT-s-OFDM QPSK	1	1			14.91			16
100		1	136			14.10			
100		1	271			14.30			
100		135	1			14.30			16
100		135	67			14.86			
100		135	136			14.08			
100		270	0			14.62			
100	DFT-s-OFDM 16QAM	1	1			13.71			15
100	DFT-s-OFDM 64QAM	1	1			12.27			13
100	DFT-s-OFDM 256QAM	1	1			10.05			11
100	CP-OFDM QPSK	1	1			13.44			15
100	CP-OFDM 16QAM	1	1			12.92			14
100	CP-OFDM 64QAM	1	1			10.88			13
100	CP-OFDM 256QAM	1	1			8.08			9
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	14.71	14.70	14.78	14.63	14.70	16
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	14.73	14.67	14.67	14.58	14.61	16
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	14.72	14.64	14.69	14.59	14.52	16
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	14.54	14.51	14.40	14.41	14.38	16
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	14.76	14.74	14.67	14.60	14.54	16
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	14.67	14.65	14.44	14.36	14.33	16
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	14.66	14.65	14.55	14.41	14.35	16
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	14.51	14.41	14.36	14.32	14.32	16
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	14.45	14.48	14.42	14.20	14.29	16
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	14.42	14.45	14.47	14.14	14.10	16

n77(3450-3550MHz) (PC2)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			15.30			16.3
100		1	136			15.07			
100		1	271			14.87			
100		135	1			14.61			16.3
100		135	67			15.07			
100		135	136			14.59			
100		270	0			14.58			
100	DFT-s-OFDM QPSK	1	1			15.31			16.3
100		1	136			15.01			
100		1	271			14.87			
100		135	1			14.49			16.3
100		135	67			15.27			
100		135	136			14.65			
100		270	0			15.19			
100	DFT-s-OFDM 16QAM	1	1			14.19			15.3
100	DFT-s-OFDM 64QAM	1	1			12.77			14.3
100	DFT-s-OFDM 256QAM	1	1			10.55			11.3
100	CP-OFDM QPSK	1	1			13.94			19.5
100	CP-OFDM 16QAM	1	1			13.26			18.5
100	CP-OFDM 64QAM	1	1			11.32			17.5
100	CP-OFDM 256QAM	1	1			8.54			13.5
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	15.14	15.13	15.11	15.06	15.13	16.3
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	15.16	15.10	15.10	15.01	15.04	16.3
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	15.15	15.07	15.12	15.02	14.95	16.3
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	14.97	14.94	14.83	14.84	14.81	16.3
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	15.19	15.17	15.25	15.03	14.97	16.3
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	15.10	15.08	14.87	14.79	14.56	16.3
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	15.09	15.08	14.98	14.84	14.58	16.3
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	14.94	14.84	14.79	14.75	14.55	16.3
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	14.88	14.91	14.85	14.58	14.52	16.3
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	14.85	14.88	14.90	14.52	14.53	16.3

n77(3450-3550MHz) (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			16.5
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			15.22			16.5
100		1	136			15.21			
100		1	271			15.27			
100		135	1			15.27			16.5
100		135	67			15.19			
100		135	136			15.29			
100	DFT-s-OFDM QPSK	270	0			15.30			16.5
100		1	1			15.32			
100		1	136			15.21			
100		1	271			15.26			16.5
100		135	1			15.15			
100		135	67			15.26			
100	DFT-s-OFDM 16QAM	135	136			15.14			16.5
100		270	0			15.24			
100		1	1			15.13			
100	DFT-s-OFDM 64QAM	1	1			13.38			14.5
100	DFT-s-OFDM 256QAM	1	1			11.56			12.5
100	CP-OFDM QPSK	1	1			14.80			16.5
100	CP-OFDM 16QAM	1	1			14.26			15.5
100	CP-OFDM 64QAM	1	1			12.54			13.5
100	CP-OFDM 256QAM	1	1			9.66			11.5
Channel				633000	633168	633334	633500	633666	16.5
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	15.10	15.14	15.16	15.11	15.24	16.5
Channel				632668	633000	633334	633666	634000	16.5
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	15.30	15.23	15.26	15.28	15.17	16.5
Channel				632334	632834	633334	633832	634332	16.5
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	15.22	15.19	15.25	15.26	15.24	16.5
Channel				632000	632668	633334	634000	634666	16.5
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	15.15	15.21	15.21	15.21	15.26	16.5
Channel				631668	632500	633334	634166	635000	16.5
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	15.29	15.29	15.21	15.28	15.21	16.5
Channel				631334	632334	633334	634332	635332	16.5
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	15.22	15.23	15.26	15.22	15.26	16.5
Channel				631000	632168	633334	634500	635666	16.5
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	15.23	15.19	15.25	15.22	15.26	16.5
Channel				630668	632000	633334	634666	636000	16.5
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	15.10	15.19	15.23	15.24	15.28	16.5
Channel				630500	631916	633334	634750	636166	16.5
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	15.08	15.19	15.25	15.28	15.27	16.5
Channel				630334	631834	633334	634834	636332	16.5
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	15.06	15.16	15.17	15.26	15.24	16.5

n77(3700-3980MHz) (PC2)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	17.5
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	16.25	16.63	16.66	16.67	16.31	17.5
100		1	136	16.41	16.57	16.68	16.68	15.93	
100		1	271	16.44	16.63	16.60	16.46	16.55	
100		135	1	16.13	15.96	16.02	15.92	15.53	17.5
100		135	67	16.41	16.53	16.67	16.67	15.98	
100		135	136	15.79	16.03	15.95	15.94	15.73	
100		270	0	15.95	16.04	16.32	16.24	15.62	
100	DFT-s-OFDM QPSK	1	1	16.55	16.64	16.72	16.67	16.54	17.5
100		1	136	16.42	16.51	16.64	16.60	16.57	
100		1	271	16.44	16.65	16.65	16.33	16.56	
100		135	1	15.56	15.57	15.62	15.51	15.59	17.5
100		135	67	16.51	16.57	16.66	16.60	16.59	
100		135	136	15.65	15.76	15.63	15.61	15.54	
100		270	0	16.36	16.48	16.64	16.63	16.60	
100	DFT-s-OFDM 16QAM	1	1	15.26	15.43	15.47	15.59	15.30	16.5
100	DFT-s-OFDM 64QAM	1	1	13.77	14.15	14.16	14.26	14.01	15.5
100	DFT-s-OFDM 256QAM	1	1	11.66	11.87	12.03	12.01	11.82	13.5
100	CP-OFDM QPSK	1	1	15.02	15.20	15.21	15.33	14.94	17.5
100	CP-OFDM 16QAM	1	1	14.21	14.69	14.73	14.85	14.47	15.5
100	CP-OFDM 64QAM	1	1	12.25	12.72	12.75	12.92	12.47	13.5
100	CP-OFDM 256QAM	1	1	9.60	9.94	9.94	10.09	9.84	11.5
Channel				633000	633168	633334	633500	633666	17.5
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	16.55	16.54	16.52	16.47	16.54	17.5
Channel				632668	633000	633334	633666	634000	17.5
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	16.57	16.51	16.51	16.42	16.45	17.5
Channel				632334	632834	633334	633832	634332	17.5
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	16.56	16.48	16.53	16.43	16.36	17.5
Channel				632000	632668	633334	634000	634666	17.5
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	16.38	16.35	16.24	16.25	16.22	17.5
Channel				631668	632500	633334	634166	635000	17.5
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	16.60	16.58	16.66	16.44	16.38	17.5
Channel				631334	632334	633334	634332	635332	17.5
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	16.51	16.49	16.28	16.20	15.97	17.5
Channel				631000	632168	633334	634500	635666	17.5
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	16.50	16.49	16.39	16.25	15.99	17.5
Channel				630668	632000	633334	634666	636000	17.5
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	16.35	16.25	16.20	16.16	15.96	17.5
Channel				630500	631916	633334	634750	636166	17.5
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	16.29	16.32	16.26	15.99	15.93	17.5
Channel				630334	631834	633334	634834	636332	17.5
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	16.26	16.29	16.31	15.93	15.94	17.5

n77(3450-3550MHz) (PC3)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			11.4
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			10.32			11.4
100		1	136			10.31			
100		1	271			10.37			
100		135	1			10.37			11.4
100		135	67			10.29			
100		135	136			10.39			
100	DFT-s-OFDM QPSK	270	0			10.40			11.4
100		1	1			10.42			
100		1	136			10.31			
100		1	271			10.36			11.4
100		135	1			10.25			
100		135	67			10.36			
100	DFT-s-OFDM 16QAM	135	136			10.24			11.4
100		270	0			10.34			
100		1	1			10.23			
100	DFT-s-OFDM 64QAM	1	1			8.48			9.4
100	DFT-s-OFDM 256QAM	1	1			6.66			7.4
100	CP-OFDM QPSK	1	1			9.90			11.4
100	CP-OFDM 16QAM	1	1			9.36			10.4
100	CP-OFDM 64QAM	1	1			7.64			8.4
100	CP-OFDM 256QAM	1	1			4.76			5.4
Channel				633000	633168	633334	633500	633666	11.4
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	10.20	10.24	10.26	10.21	10.34	11.4
Channel				632668	633000	633334	633666	634000	11.4
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	10.40	10.33	10.36	10.38	10.27	11.4
Channel				632334	632834	633334	633832	634332	11.4
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	10.32	10.29	10.35	10.36	10.34	11.4
Channel				632000	632668	633334	634000	634666	11.4
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	10.25	10.31	10.31	10.31	10.36	11.4
Channel				631668	632500	633334	634166	635000	11.4
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	10.39	10.39	10.31	10.38	10.31	11.4
Channel				631334	632334	633334	634332	635332	11.4
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	10.32	10.33	10.36	10.32	10.36	11.4
Channel				631000	632168	633334	634500	635666	11.4
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	10.33	10.29	10.35	10.32	10.36	11.4
Channel				630668	632000	633334	634666	636000	11.4
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	10.20	10.29	10.33	10.34	10.38	11.4
Channel				630500	631916	633334	634750	636166	11.4
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	10.18	10.29	10.35	10.38	10.37	11.4
Channel				630334	631834	633334	634834	636332	11.4
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	10.16	10.26	10.27	10.36	10.34	11.4

n77(3450-3550MHz) (PC3)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			15
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			13.97			15
100		1	136			13.96			
100		1	271			14.02			
100		135	1			14.02			15
100		135	67			13.94			
100		135	136			14.04			
100	DFT-s-OFDM QPSK	270	0			14.05			15
100		1	1			14.07			
100		1	136			13.96			
100		1	271			14.01			15
100		135	1			13.90			
100		135	67			14.01			
100		135	136			13.89			15
100		270	0			13.99			
100	DFT-s-OFDM 16QAM	1	1			13.88			15
100	DFT-s-OFDM 64QAM	1	1			12.13			13
100	DFT-s-OFDM 256QAM	1	1			10.31			11
100	CP-OFDM QPSK	1	1			13.55			15
100	CP-OFDM 16QAM	1	1			13.01			14
100	CP-OFDM 64QAM	1	1			11.29			12
100	CP-OFDM 256QAM	1	1			8.41			9
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	13.85	13.89	13.91	13.86	13.99	15
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	14.05	13.98	14.01	14.03	13.92	15
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	13.97	13.94	14.00	14.01	13.99	15
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	13.90	13.96	13.96	13.96	14.01	15
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	14.04	14.04	13.96	14.03	13.96	15
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	13.97	13.98	14.01	13.97	14.01	15
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	13.98	13.94	14.00	13.97	14.01	15
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	13.85	13.94	13.98	13.99	14.03	15
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	13.83	13.94	14.00	14.03	14.02	15
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	13.81	13.91	13.92	14.01	13.99	15

n77(3450-3550MHz) (PC3)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			15.3
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			14.01			15.3
100		1	136			14.00			
100		1	271			14.06			
100		135	1			14.06			15.3
100		135	67			13.98			
100		135	136			14.08			
100	DFT-s-OFDM QPSK	270	0			14.09			15.3
100		1	1			14.11			
100		1	136			14.00			
100		1	271			14.05			15.3
100		135	1			13.94			
100		135	67			14.05			
100	DFT-s-OFDM 16QAM	135	136			13.93			15.3
100		270	0			14.03			
100	DFT-s-OFDM 16QAM	1	1			13.92			15.3
100	DFT-s-OFDM 64QAM	1	1			12.17			13.3
100	DFT-s-OFDM 256QAM	1	1			10.35			11.3
100	CP-OFDM QPSK	1	1			13.59			15.3
100	CP-OFDM 16QAM	1	1			13.05			14.3
100	CP-OFDM 64QAM	1	1			11.33			12.3
100	CP-OFDM 256QAM	1	1			8.45			10.3
Channel				633000	633168	633334	633500	633666	15.3
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	13.89	13.93	13.95	13.90	14.03	15.3
Channel				632668	633000	633334	633666	634000	15.3
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	14.09	14.02	14.05	14.07	13.96	15.3
Channel				632334	632834	633334	633832	634332	15.3
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	14.01	13.98	14.04	14.05	14.03	15.3
Channel				632000	632668	633334	634000	634666	15.3
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	13.94	14.00	14.00	14.00	14.05	15.3
Channel				631668	632500	633334	634166	635000	15.3
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	14.08	14.08	14.00	14.07	14.00	15.3
Channel				631334	632334	633334	634332	635332	15.3
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	14.01	14.02	14.05	14.01	14.05	15.3
Channel				631000	632168	633334	634500	635666	15.3
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	14.02	13.98	14.04	14.01	14.05	15.3
Channel				630668	632000	633334	634666	636000	15.3
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	13.89	13.98	14.02	14.03	14.07	15.3
Channel				630500	631916	633334	634750	636166	15.3
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	13.87	13.98	14.04	14.07	14.06	15.3
Channel				630334	631834	633334	634834	636332	15.3
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	13.85	13.95	13.96	14.05	14.03	15.3

n77(3700-3980MHz) (PC2)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	12.4
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	10.85	11.03	11.09	11.19	10.91	12.4
100		1	136	11.01	10.99	11.13	10.84	10.53	
100		1	271	11.04	11.17	10.93	10.66	11.15	
100		135	1	10.73	10.48	10.56	10.45	10.43	12.4
100		135	67	11.01	10.97	11.12	10.86	10.58	
100		135	136	10.59	10.63	10.50	10.47	10.53	
100	DFT-s-OFDM QPSK	270	0	10.55	10.49	10.65	10.44	10.42	12.4
100		1	1	11.05	11.08	11.26	11.20	11.14	
100		1	136	11.02	11.04	11.07	10.88	10.67	
100		1	271	11.04	11.16	10.90	10.76	11.16	12.4
100		135	1	10.46	10.55	10.65	10.45	10.59	
100		135	67	11.11	11.06	11.13	11.07	11.09	
100		135	136	10.65	10.79	10.61	10.50	10.54	12.4
100		270	0	11.06	10.97	11.12	10.95	10.88	
100	DFT-s-OFDM 16QAM	1	1	9.86	9.93	10.03	10.19	9.90	11.4
100	DFT-s-OFDM 64QAM	1	1	8.37	8.59	8.67	8.80	8.61	9.4
100	DFT-s-OFDM 256QAM	1	1	6.16	6.36	6.45	6.57	6.32	7.4
100	CP-OFDM QPSK	1	1	9.72	9.78	9.82	9.88	9.64	10.4
100	CP-OFDM 16QAM	1	1	8.91	9.21	9.27	9.41	9.17	10.4
100	CP-OFDM 64QAM	1	1	6.95	7.20	7.27	7.42	7.17	8.4
100	CP-OFDM 256QAM	1	1	4.20	4.41	4.51	4.62	4.54	5.4
Channel				649666	652834	656000	659166	662332	Tune-up limit (dBm)
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	10.89	10.97	11.05	11.17	10.87	12.4
Channel				649334	652668	656000	659332	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	10.96	10.98	11.15	11.02	10.78	12.4
Channel				649000	652500	656000	659500	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	10.92	10.96	11.13	10.95	10.70	12.4
Channel				648668	652334	656000	659666	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	10.76	10.90	10.92	10.70	10.44	12.4
Channel				648334	652168	656000	659832	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	11.00	11.03	11.13	11.06	10.35	12.4
Channel				648000	652000	656000	660000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	10.88	10.84	10.93	10.88	10.46	12.4
Channel				647668	651834	656000	660166	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	10.94	10.93	11.08	10.90	10.61	12.4
Channel				647334	651668	656000	660332	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	10.82	10.80	10.93	10.61	10.76	12.4
Channel				647168	651584	656000	660416	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	10.86	10.85	11.01	10.61	10.82	12.4
Channel				647000	651500	656000	660500	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	10.88	10.87	11.03	10.66	11.03	12.4

n77(3700-3980MHz) (PC2)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	16
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	14.55	14.58	14.74	14.88	14.61	16
100		1	136	14.71	14.66	14.79	14.72	14.23	
100		1	271	14.74	14.81	14.82	14.51	14.85	
100		135	1	14.43	14.15	14.20	14.13	14.03	16
100		135	67	14.71	14.64	14.76	14.75	14.48	
100		135	136	14.09	14.18	14.01	14.01	14.23	
100		270	0	14.25	14.11	14.37	14.20	14.12	
100	DFT-s-OFDM QPSK	1	1	14.76	14.75	14.89	14.88	14.74	16
100		1	136	14.72	14.60	14.73	14.67	14.37	
100		1	271	14.74	14.87	14.78	14.51	14.86	
100		135	1	14.37	14.24	14.32	14.19	14.30	16
100		135	67	14.72	14.69	14.79	14.75	14.70	
100		135	136	14.26	14.34	14.19	14.21	14.15	
100		270	0	14.59	14.49	14.71	14.66	14.51	
100	DFT-s-OFDM 16QAM	1	1	13.46	13.47	13.56	13.69	13.50	15
100	DFT-s-OFDM 64QAM	1	1	11.97	12.09	12.25	12.30	12.21	13
100	DFT-s-OFDM 256QAM	1	1	9.76	9.94	9.98	10.15	9.92	11
100	CP-OFDM QPSK	1	1	13.32	13.20	13.29	13.42	13.24	14
100	CP-OFDM 16QAM	1	1	12.51	12.61	12.82	12.94	12.77	14
100	CP-OFDM 64QAM	1	1	10.55	10.67	10.82	10.97	10.77	12
100	CP-OFDM 256QAM	1	1	7.80	7.94	8.02	8.10	8.14	9
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	14.66	14.65	14.73	14.58	14.65	16
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	14.68	14.62	14.62	14.53	14.56	16
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	14.67	14.59	14.64	14.54	14.47	16
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	14.49	14.46	14.35	14.36	14.33	16
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	14.71	14.69	14.62	14.55	14.49	16
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	14.62	14.60	14.39	14.31	14.28	16
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	14.61	14.60	14.50	14.36	14.30	16
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	14.46	14.36	14.31	14.27	14.27	16
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	14.40	14.43	14.37	14.15	14.24	16
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	14.37	14.40	14.42	14.09	14.05	16

n77(3700-3980MHz) (PC2)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	16.3
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	14.85	15.09	15.17	15.22	14.91	16.3
100		1	136	15.01	15.06	15.14	15.14	14.63	
100		1	271	15.04	15.22	15.21	14.94	15.15	
100		135	1	14.73	14.63	14.70	14.57	14.53	16.3
100		135	67	15.01	15.22	15.24	15.25	14.98	
100		135	136	14.39	14.76	14.62	14.62	14.53	
100		270	0	14.55	14.76	15.00	14.93	14.42	
100	DFT-s-OFDM QPSK	1	1	15.25	15.28	15.33	15.25	15.24	16.3
100		1	136	15.02	15.17	15.31	15.26	15.17	
100		1	271	15.04	15.23	15.23	15.18	15.16	
100		135	1	14.36	14.35	14.38	14.31	14.39	16.3
100		135	67	15.11	15.14	15.26	15.25	15.19	
100		135	136	14.45	14.42	14.49	14.31	14.34	
100		270	0	15.10	15.14	15.16	15.11	15.07	
100	DFT-s-OFDM 16QAM	1	1	14.06	14.10	14.12	14.28	14.10	15.3
100	DFT-s-OFDM 64QAM	1	1	12.57	12.81	12.80	12.93	12.81	14.3
100	DFT-s-OFDM 256QAM	1	1	10.46	10.65	10.66	10.74	10.62	11.3
100	CP-OFDM QPSK	1	1	13.82	13.87	13.93	13.99	13.74	15.3
100	CP-OFDM 16QAM	1	1	13.01	13.35	13.29	13.53	13.27	14.3
100	CP-OFDM 64QAM	1	1	11.05	11.33	11.36	11.58	11.27	13.3
100	CP-OFDM 256QAM	1	1	8.40	8.61	8.63	8.73	8.64	9.3
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	15.45	15.44	15.42	15.37	15.44	16.3
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	15.47	15.41	15.41	15.32	15.35	16.3
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	15.46	15.38	15.43	15.33	15.26	16.3
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	15.28	15.25	15.14	15.15	15.12	16.3
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	15.50	15.48	15.56	15.34	15.28	16.3
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	15.41	15.39	15.18	15.10	14.87	16.3
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	15.40	15.39	15.29	15.15	14.89	16.3
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	15.25	15.15	15.10	15.06	14.86	16.3
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	15.19	15.22	15.16	14.89	14.83	16.3
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	15.16	15.19	15.21	14.83	14.84	16.3

n77(3700-3980MHz) (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	16.5
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	15.17	15.16	15.25	15.14	15.30	16.5
100		1	136	15.12	15.13	15.15	15.13	15.20	
100		1	271	15.11	15.30	15.21	15.16	15.20	
100		135	1	15.06	15.06	15.11	15.12	15.22	16.5
100		135	67	15.06	15.14	15.10	15.00	15.20	
100		135	136	15.11	15.24	15.15	15.21	15.16	
100	DFT-s-OFDM QPSK	270	0	15.09	15.24	15.20	15.23	15.24	16.5
100		1	1	15.16	15.22	15.34	15.19	15.29	
100		1	136	15.04	15.05	15.03	15.06	15.13	
100		1	271	15.26	15.20	15.30	15.22	15.23	16.5
100		135	1	15.05	15.02	15.08	15.13	15.19	
100		135	67	15.20	15.23	15.26	15.21	15.11	
100	DFT-s-OFDM 16QAM	1	1	14.93	15.03	15.09	15.03	15.14	16.5
100		1	1	13.27	13.40	13.49	13.40	13.52	14.5
100	DFT-s-OFDM 64QAM	1	1	11.34	11.56	11.61	11.53	11.66	12.5
100	DFT-s-OFDM 256QAM	1	1	11.34	11.56	11.61	11.53	11.66	12.5
100	CP-OFDM QPSK	1	1	14.71	14.60	13.91	14.76	13.94	16.5
100	CP-OFDM 16QAM	1	1	14.01	14.13	14.24	14.18	14.30	15.5
100	CP-OFDM 64QAM	1	1	12.47	12.61	12.66	12.66	12.77	13.5
100	CP-OFDM 256QAM	1	1	9.42	9.63	9.69	9.66	9.76	11.5
Channel				649666	652834	656000	659166	662332	16.5
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	15.11	15.20	15.06	14.98	15.25	16.5
Channel				649334	652668	656000	659332	662666	16.5
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	15.03	15.04	15.03	15.07	15.20	16.5
Channel				649000	652500	656000	659500	663000	16.5
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	14.93	15.02	15.05	15.12	15.13	16.5
Channel				648668	652334	656000	659666	663332	16.5
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	14.86	14.82	14.90	15.01	15.06	16.5
Channel				648334	652168	656000	659832	663666	16.5
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	14.96	15.09	15.11	15.16	15.13	16.5
Channel				648000	652000	656000	660000	664000	16.5
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	14.97	14.97	14.95	15.03	14.93	16.5
Channel				647668	651834	656000	660166	664332	16.5
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	15.07	15.08	15.06	15.20	15.02	16.5
Channel				647334	651668	656000	660332	664666	16.5
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	14.98	14.89	14.82	14.91	14.87	16.5
Channel				647168	651584	656000	660416	664832	16.5
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	14.92	15.03	14.91	14.93	14.92	16.5
Channel				647000	651500	656000	660500	665000	16.5
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	14.88	15.00	14.88	15.03	14.85	16.5

n77(3700-3980MHz) (PC3)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	11.4
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	10.27	10.26	10.35	10.24	10.40	11.4
100		1	136	10.22	10.23	10.25	10.23	10.30	
100		1	271	10.21	10.40	10.31	10.26	10.30	
100		135	1	10.16	10.16	10.21	10.22	10.32	11.4
100		135	67	10.16	10.24	10.20	10.10	10.30	
100		135	136	10.21	10.34	10.25	10.31	10.26	
100	DFT-s-OFDM QPSK	270	0	10.19	10.34	10.30	10.33	10.34	11.4
100		1	1	10.26	10.32	10.44	10.29	10.39	
100		1	136	10.14	10.15	10.13	10.16	10.23	
100		1	271	10.36	10.30	10.40	10.32	10.33	11.4
100		135	1	10.15	10.12	10.18	10.23	10.29	
100		135	67	10.30	10.33	10.36	10.31	10.21	
100	DFT-s-OFDM 16QAM	1	1	10.03	10.13	10.19	10.13	10.24	11.4
100		1	1	8.37	8.50	8.59	8.50	8.62	9.4
100	DFT-s-OFDM 256QAM	1	1	6.44	6.66	6.71	6.63	6.76	7.4
100	CP-OFDM QPSK	1	1	9.81	9.70	9.01	9.86	9.04	11.4
100	CP-OFDM 16QAM	1	1	9.11	9.23	9.34	9.28	9.40	10.4
100	CP-OFDM 64QAM	1	1	7.57	7.71	7.76	7.76	7.87	8.4
100	CP-OFDM 256QAM	1	1	4.52	4.73	4.79	4.76	4.86	5.4
Channel				649666	652834	656000	659166	662332	11.4
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	10.21	10.30	10.16	10.08	10.35	11.4
Channel				649334	652668	656000	659332	662666	11.4
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	10.13	10.14	10.13	10.17	10.30	11.4
Channel				649000	652500	656000	659500	663000	11.4
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	10.03	10.12	10.15	10.22	10.23	11.4
Channel				648668	652334	656000	659666	663332	11.4
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	9.96	9.92	10.00	10.11	10.16	11.4
Channel				648334	652168	656000	659832	663666	11.4
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	10.06	10.19	10.21	10.26	10.23	11.4
Channel				648000	652000	656000	660000	664000	11.4
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	10.07	10.07	10.05	10.13	10.03	11.4
Channel				647668	651834	656000	660166	664332	11.4
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	10.17	10.18	10.16	10.30	10.12	11.4
Channel				647334	651668	656000	660332	664666	11.4
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	10.08	9.99	9.92	10.01	9.97	11.4
Channel				647168	651584	656000	660416	664832	11.4
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	10.02	10.13	10.01	10.03	10.02	11.4
Channel				647000	651500	656000	660500	665000	11.4
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	9.98	10.10	9.98	10.13	9.95	11.4

n77(3700-3980MHz) (PC3)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	15
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	13.87	13.86	13.95	13.84	14.00	15
100		1	136	13.82	13.83	13.85	13.83	13.90	
100		1	271	13.81	14.00	13.91	13.86	13.90	
100		135	1	13.76	13.76	13.81	13.82	13.92	15
100		135	67	13.76	13.84	13.80	13.70	13.90	
100		135	136	13.81	13.94	13.85	13.91	13.86	
100	DFT-s-OFDM QPSK	270	0	13.79	13.94	13.90	13.93	13.94	15
100		1	1	13.86	13.92	14.04	13.89	13.99	
100		1	136	13.74	13.75	13.73	13.76	13.83	
100		1	271	13.96	13.90	14.00	13.92	13.93	15
100		135	1	13.75	13.72	13.78	13.83	13.89	
100		135	67	13.90	13.93	13.96	13.91	13.81	
100	DFT-s-OFDM 16QAM	135	136	13.76	13.74	13.74	13.76	13.83	15
100		270	0	13.85	13.89	13.86	13.91	13.96	
100	DFT-s-OFDM 64QAM	1	1	13.63	13.73	13.79	13.73	13.84	15
100	DFT-s-OFDM 256QAM	1	1	11.97	12.10	12.19	12.10	12.22	13
100	CP-OFDM QPSK	1	1	10.04	10.26	10.31	10.23	10.36	11
100	CP-OFDM 16QAM	1	1	13.41	13.30	12.61	13.46	12.64	15
100	CP-OFDM 64QAM	1	1	12.71	12.83	12.94	12.88	13.00	14
100	CP-OFDM 256QAM	1	1	11.17	11.31	11.36	11.36	11.47	12
100	CP-OFDM 256QAM	1	1	8.12	8.33	8.39	8.36	8.46	9
Channel				649666	652834	656000	659166	662332	15
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	13.81	13.90	13.76	13.68	13.95	15
Channel				649334	652668	656000	659332	662666	15
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	13.73	13.74	13.73	13.77	13.90	15
Channel				649000	652500	656000	659500	663000	15
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	13.63	13.72	13.75	13.82	13.83	15
Channel				648668	652334	656000	659666	663332	15
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	13.56	13.52	13.60	13.71	13.76	15
Channel				648334	652168	656000	659832	663666	15
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	13.66	13.79	13.81	13.86	13.83	15
Channel				648000	652000	656000	660000	664000	15
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	13.67	13.67	13.65	13.73	13.63	15
Channel				647668	651834	656000	660166	664332	15
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	13.77	13.78	13.76	13.90	13.72	15
Channel				647334	651668	656000	660332	664666	15
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	13.68	13.59	13.52	13.61	13.57	15
Channel				647168	651584	656000	660416	664832	15
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	13.62	13.73	13.61	13.63	13.62	15
Channel				647000	651500	656000	660500	665000	15
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	13.58	13.70	13.58	13.73	13.55	15

n77(3700-3980MHz) (PC3)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	15.3
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	13.98	13.97	14.06	13.95	14.11	15.3
100		1	136	13.93	13.94	13.96	13.94	14.01	
100		1	271	13.92	14.11	14.02	13.97	14.01	
100		135	1	13.87	13.87	13.92	13.93	14.03	15.3
100		135	67	13.87	13.95	13.91	13.81	14.01	
100		135	136	13.92	14.05	13.96	14.02	13.97	
100	DFT-s-OFDM QPSK	270	0	13.90	14.05	14.01	14.04	14.05	15.3
100		1	1	13.97	14.03	14.15	14.00	14.10	
100		1	136	13.85	13.86	13.84	13.87	13.94	
100		1	271	14.07	14.01	14.11	14.03	14.04	15.3
100		135	1	13.86	13.83	13.89	13.94	14.00	
100		135	67	14.01	14.04	14.07	14.02	13.92	
100	DFT-s-OFDM 16QAM	135	136	13.87	13.85	13.85	13.87	13.94	15.3
100		270	0	13.96	14.00	13.97	14.02	14.07	
100	DFT-s-OFDM 64QAM	1	1	13.74	13.84	13.90	13.84	13.95	15.3
100	DFT-s-OFDM 256QAM	1	1	12.08	12.21	12.30	12.21	12.33	13.3
100	CP-OFDM QPSK	1	1	10.15	10.37	10.42	10.34	10.47	11.3
100	CP-OFDM 16QAM	1	1	13.52	13.41	12.72	13.57	12.75	15.3
100	CP-OFDM 64QAM	1	1	12.82	12.94	13.05	12.99	13.11	14.3
100	CP-OFDM 256QAM	1	1	11.28	11.42	11.47	11.47	11.58	12.3
100	CP-OFDM 16QAM	1	1	8.23	8.44	8.50	8.47	8.57	10.3
Channel				649666	652834	656000	659166	662332	15.3
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	13.92	14.01	13.87	13.79	14.06	15.3
Channel				649334	652668	656000	659332	662666	15.3
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	13.84	13.85	13.84	13.88	14.01	15.3
Channel				649000	652500	656000	659500	663000	15.3
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	13.74	13.83	13.86	13.93	13.94	15.3
Channel				648668	652334	656000	659666	663332	15.3
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	13.67	13.63	13.71	13.82	13.87	15.3
Channel				648334	652168	656000	659832	663666	15.3
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	13.77	13.90	13.92	13.97	13.94	15.3
Channel				648000	652000	656000	660000	664000	15.3
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	13.78	13.78	13.76	13.84	13.74	15.3
Channel				647668	651834	656000	660166	664332	15.3
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	13.88	13.89	13.87	14.01	13.83	15.3
Channel				647334	651668	656000	660332	664666	15.3
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	13.79	13.70	13.63	13.72	13.68	15.3
Channel				647168	651584	656000	660416	664832	15.3
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	13.73	13.84	13.72	13.74	13.73	15.3
Channel				647000	651500	656000	660500	665000	15.3
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	13.69	13.81	13.69	13.84	13.66	15.3

n78(3450-3550MHz) (PC2)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			15.68			16.7
100		1	136			15.62			
100		1	271			15.59			
100		135	1			15.57			16.7
100		135	67			15.54			
100		135	136			15.01			
100		270	0			15.58			
100	DFT-s-OFDM QPSK	1	1			15.70			16.7
100		1	136			15.68			
100		1	271			15.48			
100		135	1			15.26			16.7
100		135	67			15.67			
100		135	136			14.73			
100		270	0			15.56			
100	DFT-s-OFDM 16QAM	1	1			15.19			15.7
100	DFT-s-OFDM 64QAM	1	1			13.99			14.7
100	DFT-s-OFDM 256QAM	1	1			11.71			12.7
100	CP-OFDM QPSK	1	1			15.11			16.7
100	CP-OFDM 16QAM	1	1			14.51			15.7
100	CP-OFDM 64QAM	1	1			12.57			14.7
100	CP-OFDM 256QAM	1	1			9.88			10.7
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	15.59	15.56	15.53	15.55	15.58	16.7
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	15.60	15.49	15.57	15.61	15.47	16.7
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	15.56	15.54	15.55	15.44	15.46	16.7
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	15.45	15.39	15.38	15.25	15.22	16.7
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	15.52	15.42	15.38	15.53	15.40	16.7
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	15.49	14.45	15.22	15.26	15.00	16.7
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	15.55	15.46	15.39	15.31	15.23	16.7
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	15.46	15.33	15.34	15.33	15.25	16.7
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	15.48	15.44	15.31	15.31	15.19	16.7
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	15.50	15.49	15.37	15.16	15.40	16.7

n78(3450-3550MHz) (PC2)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			13.3
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			12.30			13.3
100		1	136			12.28			
100		1	271			11.91			
100		135	1			11.92			13.3
100		135	67			12.28			
100		135	136			11.31			
100	DFT-s-OFDM QPSK	270	0			11.81			13.3
100		1	1			12.35			
100		1	136			12.20			
100		1	271			11.89			13.3
100		135	1			11.41			
100		135	67			12.22			
100	DFT-s-OFDM 16QAM	135	136			11.32			13.3
100		270	0			11.30			
100		1	1			11.50			
100	DFT-s-OFDM 64QAM	1	1			9.74			10.6
100	DFT-s-OFDM 256QAM	1	1			7.86			8.6
100	CP-OFDM QPSK	1	1			11.26			12.3
100	CP-OFDM 16QAM	1	1			10.67			11.3
100	CP-OFDM 64QAM	1	1			8.76			9.3
100	CP-OFDM 256QAM	1	1			5.95			6.3
Channel				633000	633166	633334	633500	633666	13.3
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	12.34	12.21	12.28	12.30	12.33	13.3
Channel				632668	633000	633334	633666	634000	13.3
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	12.30	12.24	12.32	12.30	12.22	13.3
Channel				632334	632834	633334	633832	634332	13.3
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	12.31	12.29	12.30	12.19	12.21	13.3
Channel				632000	632666	633334	634000	634666	13.3
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	12.20	12.14	12.13	12.00	11.97	13.3
Channel				631668	632500	633334	634166	635000	13.3
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	12.17	12.17	12.13	12.28	12.15	13.3
Channel				631334	636672	633334	634334	635332	13.3
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	12.24	11.20	11.97	12.01	11.75	13.3
Channel				631000	632166	633334	634500	635666	13.3
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	12.30	12.21	12.14	12.06	11.58	13.3
Channel				630668	632000	633334	634668	636000	13.3
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	12.21	12.08	12.09	11.68	11.60	13.3
Channel				630500	631916	633334	634750	636166	13.3
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	12.23	12.19	12.06	11.66	11.54	13.3
Channel				630334	631834	633334	634834	636332	13.3
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	12.25	12.24	12.12	11.91	11.75	13.3

n78(3450-3550MHz) (PC2)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			15.73			16.9
100		1	136			15.06			
100		1	271			15.19			
100		135	1			14.94			16.9
100		135	67			14.92			
100		135	136			14.99			
100		270	0			15.14			
100	DFT-s-OFDM QPSK	1	1			15.88			16.9
100		1	136			15.06			
100		1	271			15.45			
100		135	1			15.47			16.9
100		135	67			15.84			
100		135	136			14.92			
100		270	0			15.69			
100	DFT-s-OFDM 16QAM	1	1			14.56			15.9
100	DFT-s-OFDM 64QAM	1	1			13.18			13.9
100	DFT-s-OFDM 256QAM	1	1			10.94			11.9
100	CP-OFDM QPSK	1	1			14.31			15.9
100	CP-OFDM 16QAM	1	1			13.68			14.9
100	CP-OFDM 64QAM	1	1			11.74			12.9
100	CP-OFDM 256QAM	1	1			9.06			9.9
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	15.77	15.84	15.71	15.73	15.76	16.9
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	15.78	15.67	15.75	15.79	15.65	16.9
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	15.74	15.72	15.73	15.62	15.64	16.9
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	15.63	15.57	15.56	15.43	15.40	16.9
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	15.80	15.80	15.56	15.71	15.58	16.9
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	15.67	14.63	15.40	15.44	15.18	16.9
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	15.73	15.64	15.57	15.49	15.01	16.9
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	15.64	15.51	15.52	15.11	15.03	16.9
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	15.66	15.62	15.49	15.09	14.97	16.9
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	15.68	15.67	15.55	15.34	15.18	16.9

n78(3450-3550MHz) (PC2)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			13.44			14.5
100		1	136			13.27			
100		1	271			13.34			
100		135	1			13.13			14.5
100		135	67			13.45			
100		135	136			12.66			
100	DFT-s-OFDM QPSK	270	0			13.06			14.5
100		1	1			13.50			
100		1	136			13.20			
100		1	271			13.24			14.5
100		135	1			12.90			
100		135	67			13.45			
100	DFT-s-OFDM 16QAM	135	136			12.68			14.5
100		270	0			13.39			
100		1	1			12.71			13.5
100	DFT-s-OFDM 64QAM	1	1			11.29			12.5
100	DFT-s-OFDM 256QAM	1	1			9.09			9.5
100	CP-OFDM QPSK	1	1			12.44			13.5
100	CP-OFDM 16QAM	1	1			11.83			12.5
100	CP-OFDM 64QAM	1	1			9.93			10.5
100	CP-OFDM 256QAM	1	1			7.21			8.5
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	13.39	13.36	13.43	13.35	13.38	14.5
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	13.40	13.29	13.37	13.41	13.27	14.5
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	13.36	13.34	13.35	13.24	13.26	14.5
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	13.25	13.19	13.18	13.05	13.02	14.5
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	13.32	13.22	13.18	13.33	13.20	14.5
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	13.29	12.25	13.02	13.06	12.80	14.5
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	13.35	13.26	13.19	13.11	13.03	14.5
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	13.26	13.13	13.14	13.13	13.05	14.5
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	13.28	13.24	13.11	13.11	12.99	14.5
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	13.30	13.29	13.17	12.96	13.20	14.5

n78(3450-3550MHz) (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			14.7
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			13.80			14.7
100		1	136			13.73			
100		1	271			13.77			
100		135	1			13.75			14.7
100		135	67			13.86			
100		135	136			9.95			
100	DFT-s-OFDM QPSK	270	0			13.82			14.7
100		1	1			13.88			
100		1	136			13.68			
100		1	271			13.78			14.7
100		135	1			13.72			
100		135	67			13.81			
100	DFT-s-OFDM 16QAM	135	136			13.71			14.7
100		270	0			13.74			
100	DFT-s-OFDM 64QAM	1	1			13.74			14.7
100	DFT-s-OFDM 256QAM	1	1			12.99			13.7
100	CP-OFDM QPSK	1	1			11.08			11.7
100	CP-OFDM 16QAM	1	1			13.84			14.7
100	CP-OFDM 64QAM	1	1			12.68			13.7
100	CP-OFDM 256QAM	1	1			13.72			14.7
100		1	1			9.26			10.7
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	13.70	13.68	13.77	13.82	13.83	14.7
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	13.69	13.66	13.70	13.77	13.76	14.7
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	13.60	13.79	13.75	13.68	13.81	14.7
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	13.60	13.62	13.62	13.59	13.67	14.7
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	13.56	13.62	13.76	13.77	13.74	14.7
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	13.57	13.56	13.61	13.61	13.78	14.7
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	13.61	13.61	13.85	13.77	13.76	14.7
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	13.51	13.62	13.65	13.75	13.68	14.7
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	13.41	13.50	13.68	13.78	13.84	14.7
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	13.40	13.55	13.75	13.80	13.81	14.7

n78(3450-3550MHz) (PC3)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			11.3
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			10.25			11.3
100		1	136			10.18			
100		1	271			10.22			
100		135	1			10.20			11.3
100		135	67			10.31			
100		135	136			6.40			
100	DFT-s-OFDM QPSK	270	0			10.27			11.3
100		1	1			10.33			
100		1	136			10.13			
100		1	271			10.23			11.3
100		135	1			10.17			
100		135	67			10.26			
100	DFT-s-OFDM 16QAM	135	136			10.16			11.3
100		270	0			10.19			
100	DFT-s-OFDM 64QAM	1	1			10.19			11.3
100	DFT-s-OFDM 256QAM	1	1			9.44			10.3
100	CP-OFDM QPSK	1	1			7.53			8.3
100	CP-OFDM 16QAM	1	1			10.29			11.3
100	CP-OFDM 64QAM	1	1			9.13			10.3
100	CP-OFDM 256QAM	1	1			10.17			11.3
100		1	1			5.71			6.3
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	10.15	10.13	10.22	10.27	10.28	11.3
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	10.14	10.11	10.15	10.22	10.21	11.3
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	10.05	10.24	10.20	10.13	10.26	11.3
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	10.05	10.07	10.07	10.04	10.12	11.3
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	10.01	10.07	10.21	10.22	10.19	11.3
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	10.02	10.01	10.06	10.06	10.23	11.3
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	10.06	10.06	10.30	10.22	10.21	11.3
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	9.96	10.07	10.10	10.20	10.13	11.3
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	9.86	9.95	10.13	10.23	10.29	11.3
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	9.85	10.00	10.20	10.25	10.26	11.3

n78(3450-3550MHz) (PC3)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			14.9
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			13.80			14.9
100		1	136			13.73			
100		1	271			13.77			
100		135	1			13.75			14.9
100		135	67			13.86			
100		135	136			9.95			
100	DFT-s-OFDM QPSK	270	0			13.82			14.9
100		1	1			13.88			
100		1	136			13.68			
100		1	271			13.78			14.9
100		135	1			13.72			
100		135	67			13.81			
100	DFT-s-OFDM 16QAM	135	136			13.71			14.9
100		270	0			13.74			
100	DFT-s-OFDM 64QAM	1	1			13.74			14.9
100	DFT-s-OFDM 256QAM	1	1			12.99			13.9
100	CP-OFDM QPSK	1	1			11.08			11.9
100	CP-OFDM 16QAM	1	1			13.84			14.9
100	CP-OFDM 64QAM	1	1			12.68			13.9
100	CP-OFDM 256QAM	1	1			13.72			14.9
100		1	1			9.26			9.9
Channel				633000	633166	633334	633500	633666	14.9
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	13.70	13.68	13.77	13.82	13.83	14.9
Channel				632668	633000	633334	633666	634000	14.9
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	13.69	13.66	13.70	13.77	13.76	14.9
Channel				632334	632834	633334	633832	634332	14.9
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	13.60	13.79	13.75	13.68	13.81	14.9
Channel				632000	632666	633334	634000	634666	14.9
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	13.60	13.62	13.62	13.59	13.67	14.9
Channel				631668	632500	633334	634166	635000	14.9
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	13.56	13.62	13.76	13.77	13.74	14.9
Channel				631334	636672	633334	634334	635332	14.9
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	13.57	13.56	13.61	13.61	13.78	14.9
Channel				631000	632166	633334	634500	635666	14.9
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	13.61	13.61	13.85	13.77	13.76	14.9
Channel				630668	632000	633334	634668	636000	14.9
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	13.51	13.62	13.65	13.75	13.68	14.9
Channel				630500	631916	633334	634750	636166	14.9
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	13.41	13.50	13.68	13.78	13.84	14.9
Channel				630334	631834	633334	634834	636332	14.9
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	13.40	13.55	13.75	13.80	13.81	14.9

n78(3450-3550MHz) (PC3)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			12.5
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			11.42			12.5
100		1	136			11.35			
100		1	271			11.39			
100		135	1			11.37			12.5
100		135	67			11.48			
100		135	136			7.57			
100	DFT-s-OFDM QPSK	270	0			11.44			12.5
100		1	1			11.50			
100		1	136			11.30			
100		1	271			11.40			12.5
100		135	1			11.34			
100		135	67			11.43			
100		135	136			11.33			12.5
100		270	0			11.36			
100	DFT-s-OFDM 16QAM	1	1			11.36			12.5
100	DFT-s-OFDM 64QAM	1	1			10.61			11.5
100	DFT-s-OFDM 256QAM	1	1			8.70			9.5
100	CP-OFDM QPSK	1	1			11.46			12.5
100	CP-OFDM 16QAM	1	1			10.30			11.5
100	CP-OFDM 64QAM	1	1			11.34			11.5
100	CP-OFDM 256QAM	1	1			6.88			8.5
Channel				633000	633166	633334	633500	633666	12.5
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	11.30	11.28	11.37	11.42	11.43	12.5
Channel				632668	633000	633334	633666	634000	12.5
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	11.29	11.26	11.30	11.37	11.36	12.5
Channel				632334	632834	633334	633832	634332	12.5
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	11.20	11.39	11.35	11.28	11.41	12.5
Channel				632000	632666	633334	634000	634666	12.5
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	11.20	11.22	11.22	11.19	11.27	12.5
Channel				631668	632500	633334	634166	635000	12.5
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	11.16	11.22	11.36	11.37	11.34	12.5
Channel				631334	636672	633334	634334	635332	12.5
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	11.17	11.16	11.21	11.21	11.38	12.5
Channel				631000	632166	633334	634500	635666	12.5
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	11.21	11.21	11.45	11.37	11.36	12.5
Channel				630668	632000	633334	634668	636000	12.5
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	11.11	11.22	11.25	11.35	11.28	12.5
Channel				630500	631916	633334	634750	636166	12.5
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	11.01	11.10	11.28	11.38	11.44	12.5
Channel				630334	631834	633334	634834	636332	12.5
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	11.00	11.15	11.35	11.40	11.41	12.5

n78(3700-3800MHz) (PC2)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			15.32			16.7
100		1	136			15.41			
100		1	271			15.48			
100		135	1			15.19			16.7
100		135	67			15.41			
100		135	136			14.86			
100		270	0			15.04			
100	DFT-s-OFDM QPSK	1	1			15.54			16.7
100		1	136			15.35			
100		1	271			15.41			
100		135	1			14.98			16.7
100		135	67			15.45			
100		135	136			14.88			
100		270	0			15.40			
100	DFT-s-OFDM 16QAM	1	1			14.72			15.7
100	DFT-s-OFDM 64QAM	1	1			13.33			14.7
100	DFT-s-OFDM 256QAM	1	1			11.09			11.7
100	CP-OFDM QPSK	1	1			14.46			15.7
100	CP-OFDM 16QAM	1	1			13.91			14.7
100	CP-OFDM 64QAM	1	1			11.87			12.7
100	CP-OFDM 256QAM	1	1			9.11			9.7
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	15.39	15.36	15.43	15.35	15.38	16.7
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	15.40	15.29	15.37	15.41	15.27	16.7
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	15.36	15.34	15.35	15.24	15.26	16.7
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	15.25	15.19	15.18	15.05	15.02	16.7
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	15.32	15.22	15.18	15.33	15.20	16.7
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	15.29	14.25	15.02	15.06	14.80	16.7
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	15.35	15.26	15.19	15.11	15.03	16.7
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	15.26	15.13	15.14	15.13	15.05	16.7
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	15.28	15.24	15.11	15.11	14.99	16.7
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	15.30	15.29	15.17	14.96	15.20	16.7

n78(3700-3800MHz) (PC2)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			13.3
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			12.02			13.3
100		1	136			12.03			
100		1	271			12.09			
100		135	1			11.75			13.3
100		135	67			12.05			
100		135	136			11.43			
100	DFT-s-OFDM QPSK	270	0			11.60			13.3
100		1	1			12.18			
100		1	136			12.06			
100		1	271			12.11			13.3
100		135	1			11.57			
100		135	67			12.02			
100	DFT-s-OFDM 16QAM	135	136			11.41			11.3
100		270	0			11.98			
100	DFT-s-OFDM 64QAM	1	1			10.79			11.3
100	DFT-s-OFDM 256QAM	1	1			9.39			10.3
100	CP-OFDM QPSK	1	1			7.15			8.3
100	CP-OFDM 16QAM	1	1			10.58			11.3
100	CP-OFDM 64QAM	1	1			10.01			10.3
100	CP-OFDM 256QAM	1	1			8.62			9.3
100		1	1			5.23			6.3
Channel				649668	649834	650000	650166	650332	13.3
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	11.91	12.00	11.99	12.05	12.08	13.3
Channel				649334	649666	650000	650334	650666	13.3
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	12.00	11.95	12.07	12.13	12.14	13.3
Channel				649000	649500	650000	650500	651000	13.3
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	11.95	12.06	12.14	12.10	12.11	13.3
Channel				648668	649334	650000	650666	651332	13.3
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	11.78	11.95	11.99	12.05	11.95	13.3
Channel				648334	649166	650000	650834	651666	13.3
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	12.00	12.11	12.18	12.18	12.11	13.3
Channel				648000	649000	650000	651000	652000	13.3
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	11.87	12.13	12.10	11.98	11.97	13.3
Channel				647668	648834	650000	651166	652332	13.3
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	11.90	12.13	12.17	11.98	11.93	13.3
Channel				647334	648666	650000	651334	652666	13.3
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	11.78	12.14	12.03	11.88	11.72	13.3
Channel				647168	648584	650000	651416	652832	13.3
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	11.86	12.14	12.12	11.96	11.82	13.3
Channel				647000	648500	650000	651500	653000	13.3
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	11.89	12.10	12.10	11.95	11.97	13.3

n78(3700-3800MHz) (PC2)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			15.66			16.9
100		1	136			15.25			
100		1	271			15.46			
100		135	1			15.51			16.9
100		135	67			15.36			
100		135	136			15.37			
100		270	0			15.43			
100	DFT-s-OFDM QPSK	1	1			15.81			16.9
100		1	136			15.29			
100		1	271			15.43			
100		135	1			15.01			16.9
100		135	67			15.77			
100		135	136			14.85			
100		270	0			15.64			
100	DFT-s-OFDM 16QAM	1	1			13.58			14.9
100	DFT-s-OFDM 64QAM	1	1			12.22			13.9
100	DFT-s-OFDM 256QAM	1	1			9.87			10.9
100	CP-OFDM QPSK	1	1			13.36			14.9
100	CP-OFDM 16QAM	1	1			12.72			13.9
100	CP-OFDM 64QAM	1	1			10.78			11.9
100	CP-OFDM 256QAM	1	1			8.01			8.9
Channel				649668	649834	650000	650166	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	15.49	15.58	15.57	15.63	15.66	16.9
Channel				649334	649666	650000	650334	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	15.58	15.53	15.65	15.71	15.76	16.9
Channel				649000	649500	650000	650500	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	15.33	15.44	15.52	15.67	15.69	16.9
Channel				648668	649334	650000	650666	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	15.16	15.33	15.37	15.43	15.33	16.9
Channel				648334	649166	650000	650834	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	15.38	15.59	15.66	15.56	15.49	16.9
Channel				648000	649000	650000	651000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	15.25	15.51	15.58	15.56	15.55	16.9
Channel				647668	648834	650000	651166	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	15.28	15.51	15.55	15.56	15.51	16.9
Channel				647334	648666	650000	651334	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	15.16	15.52	15.41	15.46	15.30	16.9
Channel				647168	648584	650000	651416	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	15.24	15.52	15.50	15.54	15.40	16.9
Channel				647000	648500	650000	651500	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	15.27	15.58	15.48	15.53	15.55	16.9

n78(3700-3800MHz) (PC2)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			13.29			14.5
100		1	136			13.29			
100		1	271			13.31			
100		135	1			13.08			14.5
100		135	67			13.30			
100		135	136			12.83			
100	DFT-s-OFDM QPSK	270	0			12.98			14.5
100		1	1			13.35			
100		1	136			13.32			
100		1	271			13.33			14.5
100		135	1			12.57			
100		135	67			13.28			
100		135	136			12.33			14.5
100		270	0			13.23			
100	DFT-s-OFDM 16QAM	1	1			12.67			13.5
100	DFT-s-OFDM 64QAM	1	1			11.63			12.5
100	DFT-s-OFDM 256QAM	1	1			9.34			10.5
100	CP-OFDM QPSK	1	1			12.76			13.5
100	CP-OFDM 16QAM	1	1			11.76			12.5
100	CP-OFDM 64QAM	1	1			9.90			10.5
100	CP-OFDM 256QAM	1	1			7.42			8.5
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	13.19	13.16	13.23	13.15	13.18	14.5
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	13.20	13.09	13.17	13.21	13.07	14.5
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	13.16	13.14	13.15	13.04	13.06	14.5
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	13.05	12.99	12.98	12.85	12.82	14.5
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	13.12	13.02	12.98	13.13	13.00	14.5
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	13.09	12.05	12.82	12.86	12.60	14.5
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	13.15	13.06	12.99	12.91	12.83	14.5
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	13.06	12.93	12.94	12.93	12.85	14.5
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	13.08	13.04	12.91	12.91	12.79	14.5
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	13.10	13.09	12.97	12.76	13.00	14.5

n78(3700-3800MHz) (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			14.7
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			13.70			14.7
100		1	136			13.66			
100		1	271			13.65			
100		135	1			13.71			14.7
100		135	67			13.64			
100		135	136			13.64			
100	DFT-s-OFDM QPSK	270	0			13.67			14.7
100		1	1			13.81			
100		1	136			13.65			
100		1	271			13.67			14.7
100		135	1			13.69			
100		135	67			13.58			
100	DFT-s-OFDM 16QAM	135	136			12.67			14.7
100		270	0			13.67			
100	DFT-s-OFDM 64QAM	1	1			13.51			14.7
100	DFT-s-OFDM 256QAM	1	1			12.82			13.7
100	CP-OFDM QPSK	1	1			10.88			11.7
100	CP-OFDM 16QAM	1	1			12.75			13.7
100	CP-OFDM 64QAM	1	1			13.66			14.7
100	CP-OFDM 256QAM	1	1			12.00			12.7
100						9.27			10.7
Channel				649668	649834	650000	650166	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	13.56	13.62	13.70	13.72	13.75	14.7
Channel				649334	649666	650000	650334	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	13.59	13.78	13.67	13.60	13.68	14.7
Channel				649000	649500	650000	650500	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	13.59	13.80	13.67	13.69	13.68	14.7
Channel				648668	649334	650000	650666	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	13.68	13.51	13.54	13.58	13.69	14.7
Channel				648334	649166	650000	650834	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	13.77	13.73	13.77	13.74	13.77	14.7
Channel				648000	649000	650000	651000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	13.77	13.72	13.74	13.72	13.71	14.7
Channel				647668	648834	650000	651166	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	13.76	13.71	13.75	13.72	13.71	14.7
Channel				647334	648666	650000	651334	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	13.67	13.79	13.80	13.74	13.80	14.7
Channel				647168	648584	650000	651416	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	13.72	13.80	13.75	13.73	13.74	14.7
Channel				647000	648500	650000	651500	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	13.66	13.73	13.70	13.75	13.67	14.7

n78(3700-3800MHz) (PC3)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			11.3
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			10.15			11.3
100		1	136			10.11			
100		1	271			10.10			
100		135	1			10.16			11.3
100		135	67			10.09			
100		135	136			10.09			
100	DFT-s-OFDM QPSK	270	0			10.12			11.3
100		1	1			10.26			
100		1	136			10.10			
100		1	271			10.12			11.3
100		135	1			10.14			
100		135	67			10.03			
100		135	136			9.12			11.3
100		270	0			10.12			
100	DFT-s-OFDM 16QAM	1	1			9.96			11.3
100	DFT-s-OFDM 64QAM	1	1			9.27			10.3
100	DFT-s-OFDM 256QAM	1	1			7.33			8.3
100	CP-OFDM QPSK	1	1			9.20			10.3
100	CP-OFDM 16QAM	1	1			10.11			11.3
100	CP-OFDM 64QAM	1	1			8.45			9.3
100	CP-OFDM 256QAM	1	1			5.52			6.3
Channel				649668	649834	650000	650166	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	10.01	10.07	10.15	10.17	10.20	11.3
Channel				649334	649666	650000	650334	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	10.04	10.23	10.12	10.05	10.13	11.3
Channel				649000	649500	650000	650500	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	10.04	10.25	10.12	10.14	10.13	11.3
Channel				648668	649334	650000	650666	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	10.13	9.96	9.99	10.03	10.14	11.3
Channel				648334	649166	650000	650834	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	10.22	10.18	10.22	10.19	10.22	11.3
Channel				648000	649000	650000	651000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	10.22	10.17	10.19	10.17	10.16	11.3
Channel				647668	648834	650000	651166	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	10.21	10.16	10.20	10.17	10.16	11.3
Channel				647334	648666	650000	651334	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	10.12	10.24	10.25	10.19	10.25	11.3
Channel				647168	648584	650000	651416	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	10.17	10.25	10.20	10.18	10.19	11.3
Channel				647000	648500	650000	651500	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	10.11	10.18	10.15	10.20	10.12	11.3

n78(3700-3800MHz) (PC3)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			14.9
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			13.71			14.9
100		1	136			13.67			
100		1	271			13.66			
100		135	1			13.72			14.9
100		135	67			13.65			
100		135	136			13.65			
100	DFT-s-OFDM QPSK	270	0			13.68			14.9
100		1	1			13.82			
100		1	136			13.66			
100		1	271			13.68			14.9
100		135	1			13.70			
100		135	67			13.59			
100	DFT-s-OFDM 16QAM	135	136			12.68			14.9
100		270	0			13.68			
100	DFT-s-OFDM 64QAM	1	1			13.52			14.9
100	DFT-s-OFDM 256QAM	1	1			12.83			13.9
100	CP-OFDM QPSK	1	1			10.89			11.9
100	CP-OFDM 16QAM	1	1			12.76			14.9
100	CP-OFDM 64QAM	1	1			13.67			13.9
100	CP-OFDM 256QAM	1	1			12.01			14.9
100		1	1			9.08			9.9
Channel				649668	649834	650000	650166	650332	14.9
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	13.57	13.63	13.71	13.73	13.76	14.9
Channel				649334	649666	650000	650334	650666	14.9
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	13.60	13.79	13.68	13.61	13.69	14.9
Channel				649000	649500	650000	650500	651000	14.9
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	13.60	13.81	13.68	13.70	13.69	14.9
Channel				648668	649334	650000	650666	651332	14.9
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	13.69	13.52	13.55	13.59	13.70	14.9
Channel				648334	649166	650000	650834	651666	14.9
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	13.78	13.74	13.78	13.75	13.78	14.9
Channel				648000	649000	650000	651000	652000	14.9
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	13.78	13.73	13.75	13.73	13.72	14.9
Channel				647668	648834	650000	651166	652332	14.9
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	13.77	13.72	13.76	13.73	13.72	14.9
Channel				647334	648666	650000	651334	652666	14.9
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	13.68	13.80	13.81	13.75	13.81	14.9
Channel				647168	648584	650000	651416	652832	14.9
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	13.73	13.81	13.76	13.74	13.75	14.9
Channel				647000	648500	650000	651500	653000	14.9
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	13.67	13.74	13.71	13.76	13.68	14.9

n78(3700-3800MHz) (PC3)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			12.5
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			11.33			12.5
100		1	136			11.29			
100		1	271			11.28			
100		135	1			11.34			12.5
100		135	67			11.27			
100		135	136			11.27			
100	DFT-s-OFDM QPSK	270	0			11.30			12.5
100		1	1			11.44			
100		1	136			11.28			
100		1	271			11.30			12.5
100		135	1			11.32			
100		135	67			11.21			
100	DFT-s-OFDM 16QAM	135	136			10.30			12.5
100		270	0			11.30			
100	DFT-s-OFDM 64QAM	1	1			11.14			12.5
100	DFT-s-OFDM 256QAM	1	1			10.45			11.5
100	CP-OFDM QPSK	1	1			8.51			9.5
100	CP-OFDM 16QAM	1	1			10.38			12.5
100	CP-OFDM 64QAM	1	1			11.29			11.5
100	CP-OFDM 256QAM	1	1			9.63			11.5
100						6.90			8.5
Channel				649668	649834	650000	650166	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	11.19	11.25	11.33	11.35	11.38	12.5
Channel				649334	649666	650000	650334	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	11.22	11.41	11.30	11.23	11.31	12.5
Channel				649000	649500	650000	650500	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	11.22	11.43	11.30	11.32	11.31	12.5
Channel				648668	649334	650000	650666	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	11.31	11.14	11.17	11.21	11.32	12.5
Channel				648334	649166	650000	650834	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	11.40	11.36	11.40	11.37	11.40	12.5
Channel				648000	649000	650000	651000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	11.40	11.35	11.37	11.35	11.34	12.5
Channel				647668	648834	650000	651166	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	11.39	11.34	11.38	11.35	11.34	12.5
Channel				647334	648666	650000	651334	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	11.30	11.42	11.43	11.37	11.43	12.5
Channel				647168	648584	650000	651416	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	11.35	11.43	11.38	11.36	11.37	12.5
Channel				647000	648500	650000	651500	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	11.29	11.36	11.33	11.38	11.30	12.5

ANT 2								
Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
BR / EDR	CH 00	2402	15.84	17.50	12.37	14.00	13.02	15.00
	CH 39	2441	15.04	17.00	11.90	13.50	12.51	14.50
	CH 78	2480	15.14	17.00	11.91	13.50	12.81	14.50
Duty Cycle %			76.75		63.55		77.15	
Power Setting			10		10		10	

Reduced Power Level 2

ANT 5									
GSM1900		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Ch Delta > 0.5
TX Channel		512	661	810		512	661	810	
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot		28.05	28.09	28.04	29.00	19.05	19.09	19.04	20.00
GPRS 1 Tx slot		28.06	28.10	28.06	29.00	19.06	19.10	19.06	20.00
GPRS 2 Tx slots		25.11	25.15	25.14	26.00	19.11	19.15	19.14	20.00
GPRS 3 Tx slots		23.16	23.23	23.18	24.20	18.90	18.97	18.92	19.94
GPRS 4 Tx slots		22.48	22.53	22.51	23.50	19.48	19.53	19.51	20.50
EDGE 1 Tx slot		24.11	24.12	24.14	25.00	15.11	15.12	15.14	16.00
EDGE 2 Tx slots		21.10	21.16	21.15	22.00	15.10	15.16	15.15	16.00
EDGE 3 Tx slots		19.70	19.83	19.75	20.80	15.44	15.57	15.49	16.54
EDGE 4 Tx slots		19.55	19.65	19.59	20.60	16.55	16.65	16.59	17.60
Mode			Max.	28.10			Max.	19.53	
Attenuator		Cable Loss : 0.8							

ANT 5									
Band		WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513	
Rx Channel		9662	9800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	RMC 12.2Kbps	19.58	19.61	19.60	20.30	19.61	19.62	19.58	20.30
3GPP Rel 5	HSDPA Subtest-1	18.62	18.61	18.65	19.30	18.55	18.54	18.58	19.30
3GPP Rel 5	HSDPA Subtest-2	18.65	18.66	18.64	19.30	18.58	18.59	18.57	19.30
3GPP Rel 5	HSDPA Subtest-3	18.08	18.09	18.08	18.80	18.01	18.02	18.01	18.80
3GPP Rel 5	HSDPA Subtest-4	18.06	18.08	18.07	18.80	17.99	18.01	18.00	18.80
3GPP Rel 8	DC-HSDPA Subtest-1	18.65	18.66	18.62	19.30	18.58	18.59	18.55	19.30
3GPP Rel 8	DC-HSDPA Subtest-2	18.64	18.62	18.65	19.30	18.57	18.55	18.58	19.30
3GPP Rel 8	DC-HSDPA Subtest-3	17.98	18.01	17.94	18.80	17.91	17.94	17.87	18.80
3GPP Rel 8	DC-HSDPA Subtest-4	17.97	18.02	17.98	18.80	17.90	17.95	17.91	18.80
3GPP Rel 6	HSUPA Subtest-1	18.65	18.68	18.60	19.30	18.58	18.55	18.53	19.30
3GPP Rel 6	HSUPA Subtest-2	16.62	16.60	16.63	17.30	16.55	16.53	16.56	17.30
3GPP Rel 6	HSUPA Subtest-3	17.58	17.61	17.59	18.30	17.51	17.54	17.52	18.30
3GPP Rel 6	HSUPA Subtest-4	16.59	16.61	16.62	17.30	16.52	16.54	16.55	17.30
3GPP Rel 6	HSUPA Subtest-5	18.62	18.65	18.62	19.30	18.55	18.58	18.55	19.30
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	17.08	17.09	16.98	17.80	17.01	17.02	16.91	17.80
Attenuator			Cable Loss	0.8			Cable Loss	0.8	
Mode			Max.	19.61			Max.	19.62	

ANT 4									
Band		WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513	
Rx Channel		9662	9800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	RMC 12.2Kbps	17.42	17.44	17.43	18.10	18.14	18.15	18.12	18.80
3GPP Rel 5	HSDPA Subtest-1	17.39	17.38	17.42	18.10	18.02	18.01	18.05	18.80
3GPP Rel 5	HSDPA Subtest-2	17.42	17.43	17.41	18.10	18.05	18.06	18.04	18.80
3GPP Rel 5	HSDPA Subtest-3	16.85	16.86	16.85	17.60	17.48	17.49	17.48	18.30
3GPP Rel 5	HSDPA Subtest-4	16.83	16.85	16.84	17.60	17.46	17.48	17.47	18.30
3GPP Rel 8	DC-HSDPA Subtest-1	17.42	17.43	17.39	18.10	18.05	18.06	18.02	18.80
3GPP Rel 8	DC-HSDPA Subtest-2	17.41	17.39	17.42	18.10	18.04	18.02	18.05	18.80
3GPP Rel 8	DC-HSDPA Subtest-3	16.75	16.78	16.71	17.60	17.38	17.41	17.34	18.30
3GPP Rel 8	DC-HSDPA Subtest-4	16.74	16.79	16.75	17.60	17.37	17.42	17.38	18.30
3GPP Rel 6	HSUPA Subtest-1	17.42	17.45	17.37	18.10	18.05	18.02	18.00	18.80
3GPP Rel 6	HSUPA Subtest-2	15.39	15.37	15.40	16.10	16.02	16.00	16.03	16.80
3GPP Rel 6	HSUPA Subtest-3	16.35	16.38	16.36	17.10	16.98	17.01	16.99	17.80
3GPP Rel 6	HSUPA Subtest-4	15.36	15.38	15.39	16.10	15.99	16.01	16.02	16.80
3GPP Rel 6	HSUPA Subtest-5	17.39	17.42	17.39	18.10	18.02	18.05	18.02	18.80
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	15.85	15.86	15.75	16.60	16.48	16.49	16.38	17.30
Attenuator			Cable Loss	0.8			Cable Loss	0.8	
Mode			Max.	17.45			Max.	18.15	

5	16QAM	1	12	18.42	18.46	18.31	18.8
5	16QAM	1	24	18.04	17.97	18.12	
5	16QAM	12	0	17.04	17.06	17.09	
5	16QAM	12	7	17.06	16.97	17.03	17.8
5	16QAM	12	13	17.18	17.05	16.99	
5	16QAM	25	0	17.06	17.06	17.00	
5	64QAM	1	0	17.24	17.18	17.16	
5	64QAM	1	12	17.15	17.19	17.19	17.8
5	64QAM	1	24	17.14	17.10	17.25	
5	64QAM	12	0	16.97	16.98	17.02	
5	64QAM	12	7	17.04	17.05	17.15	
5	64QAM	12	13	17.03	17.01	17.24	
5	64QAM	25	0	16.98	16.97	17.15	
5	256QAM	1	0	13.26	13.20	13.19	
5	256QAM	1	12	13.05	13.09	13.23	14.8
5	256QAM	1	24	13.09	13.12	13.24	
5	256QAM	12	0	13.08	13.02	13.04	
5	256QAM	12	7	13.02	13.03	13.19	
5	256QAM	12	13	13.10	13.06	13.26	14.8
5	256QAM	25	0	13.02	12.99	13.13	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	18.97	19.06	19.00	19.8
3	QPSK	1	8	18.98	18.91	19.00	
3	QPSK	1	14	18.84	18.89	18.92	
3	QPSK	8	0	18.01	18.11	18.00	
3	QPSK	8	4	18.01	18.09	18.09	18.8
3	QPSK	8	7	17.96	18.06	18.04	
3	QPSK	15	0	17.94	18.06	18.02	
3	16QAM	1	0	18.12	18.39	18.01	
3	16QAM	1	8	18.38	18.47	18.32	18.8
3	16QAM	1	14	18.00	18.00	18.14	
3	16QAM	8	0	17.08	17.01	17.09	
3	16QAM	8	4	17.10	17.03	17.05	17.8
3	16QAM	8	7	17.18	17.00	17.02	
3	16QAM	15	0	17.06	17.05	17.06	
3	64QAM	1	0	17.19	17.15	17.13	
3	64QAM	1	8	17.18	17.18	17.18	17.8
3	64QAM	1	14	17.11	17.07	17.19	
3	64QAM	8	0	17.01	16.99	17.01	
3	64QAM	8	4	16.96	16.99	17.16	17.8
3	64QAM	8	7	17.07	17.01	17.20	
3	64QAM	15	0	17.07	17.02	17.06	
3	256QAM	1	0	13.19	13.21	13.19	
3	256QAM	1	8	13.00	13.07	13.24	14.8
3	256QAM	1	14	13.08	13.16	13.21	
3	256QAM	8	0	13.02	12.97	12.99	
3	256QAM	8	4	12.99	13.08	13.21	14.8
3	256QAM	8	7	13.04	13.06	13.25	
3	256QAM	15	0	13.06	13.03	13.18	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	18.99	19.00	19.00	19.8
1.4	QPSK	1	3	18.93	18.90	18.98	
1.4	QPSK	1	5	18.89	18.92	18.87	
1.4	QPSK	3	0	19.06	19.13	18.98	
1.4	QPSK	3	1	19.01	19.06	19.09	19.8
1.4	QPSK	3	3	19.04	19.04	19.04	
1.4	QPSK	6	0	17.92	18.02	17.97	
1.4	16QAM	1	0	18.18	18.38	18.04	
1.4	16QAM	1	3	18.40	18.47	18.35	18.8
1.4	16QAM	1	5	17.98	18.01	18.11	
1.4	16QAM	3	0	18.10	18.08	18.04	
1.4	16QAM	3	1	18.14	17.98	18.03	17.8
1.4	16QAM	3	3	18.11	18.06	18.03	
1.4	16QAM	6	0	17.12	17.07	17.09	
1.4	64QAM	1	0	17.15	17.12	17.15	
1.4	64QAM	1	3	17.04	16.99	17.20	17.8
1.4	64QAM	1	5	17.12	17.06	17.26	
1.4	64QAM	3	0	16.98	16.98	17.04	
1.4	64QAM	3	1	16.96	16.98	17.16	
1.4	64QAM	3	3	17.02	17.05	17.16	17.8
1.4	64QAM	6	0	17.03	17.04	17.14	
1.4	256QAM	1	0	13.26	13.14	13.20	
1.4	256QAM	1	3	13.00	13.01	13.18	14.8
1.4	256QAM	1	5	13.13	13.13	13.22	
1.4	256QAM	3	0	13.02	13.03	13.05	
1.4	256QAM	3	1	13.00	13.10	13.23	
1.4	256QAM	3	3	13.10	13.08	13.21	14.8
1.4	256QAM	6	0	13.09	13.01	13.09	

5	16QAM	1	12	19.84	19.88	19.73	20.3
5	16QAM	1	24	19.46	19.39	19.54	
5	16QAM	12	0	18.46	18.48	18.51	
5	16QAM	12	7	18.48	18.39	18.45	19.3
5	16QAM	12	13	18.60	18.47	18.41	
5	16QAM	25	0	18.48	18.48	18.42	
5	64QAM	1	0	18.66	18.60	18.58	
5	64QAM	1	12	18.57	18.61	18.61	19.3
5	64QAM	1	24	18.56	18.52	18.67	
5	64QAM	12	0	18.39	18.40	18.44	
5	64QAM	12	7	18.46	18.47	18.57	
5	64QAM	12	13	18.45	18.43	18.66	19.3
5	64QAM	25	0	18.40	18.39	18.57	
5	256QAM	1	0	14.68	14.62	14.61	
5	256QAM	1	12	14.47	14.51	14.65	16.3
5	256QAM	1	24	14.51	14.54	14.66	
5	256QAM	12	0	14.50	14.44	14.46	
5	256QAM	12	7	14.44	14.45	14.61	
5	256QAM	12	13	14.52	14.48	14.68	16.3
5	256QAM	25	0	14.44	14.41	14.55	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	20.39	20.48	20.42	21.3
3	QPSK	1	8	20.40	20.33	20.42	
3	QPSK	1	14	20.26	20.31	20.34	
3	QPSK	8	0	19.43	19.53	19.42	
3	QPSK	8	4	19.43	19.51	19.51	20.3
3	QPSK	8	7	19.38	19.48	19.46	
3	QPSK	15	0	19.36	19.48	19.44	
3	16QAM	1	0	19.54	19.81	19.43	
3	16QAM	1	8	19.80	19.89	19.74	20.3
3	16QAM	1	14	19.42	19.42	19.56	
3	16QAM	8	0	18.50	18.43	18.51	
3	16QAM	8	4	18.52	18.45	18.47	19.3
3	16QAM	8	7	18.60	18.42	18.44	
3	16QAM	15	0	18.48	18.47	18.48	
3	64QAM	1	0	18.61	18.57	18.55	
3	64QAM	1	8	18.60	18.60	18.60	19.3
3	64QAM	1	14	18.53	18.49	18.61	
3	64QAM	8	0	18.43	18.41	18.43	
3	64QAM	8	4	18.38	18.41	18.58	19.3
3	64QAM	8	7	18.49	18.43	18.62	
3	64QAM	15	0	18.49	18.44	18.48	
3	256QAM	1	0	14.61	14.63	14.61	
3	256QAM	1	8	14.42	14.49	14.66	16.3
3	256QAM	1	14	14.50	14.58	14.63	
3	256QAM	8	0	14.44	14.39	14.41	
3	256QAM	8	4	14.41	14.50	14.63	16.3
3	256QAM	8	7	14.46	14.48	14.67	
3	256QAM	15	0	14.48	14.45	14.60	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	20.41	20.42	20.42	21.3
1.4	QPSK	1	3	20.35	20.32	20.40	
1.4	QPSK	1	5	20.31	20.34	20.29	
1.4	QPSK	3	0	20.48	20.55	20.40	
1.4	QPSK	3	1	20.43	20.48	20.51	20.3
1.4	QPSK	3	3	20.46	20.46	20.46	
1.4	QPSK	6	0	19.34	19.44	19.39	
1.4	16QAM	1	0	19.60	19.80	19.46	
1.4	16QAM	1	3	19.82	19.89	19.77	20.3
1.4	16QAM	1	5	19.40	19.43	19.53	
1.4	16QAM	3	0	19.52	19.50	19.46	
1.4	16QAM	3	1	19.56	19.40	19.45	19.3
1.4	16QAM	3	3	19.53	19.48	19.45	
1.4	16QAM	6	0	18.54	18.49	18.51	
1.4	64QAM	1	0	18.57	18.54	18.57	
1.4	64QAM	1	3	18.46	18.41	18.62	19.3
1.4	64QAM	1	5	18.54	18.50	18.68	
1.4	64QAM	3	0	18.40	18.40	18.46	
1.4	64QAM	3	1	18.38	18.40	18.58	
1.4	64QAM	3	3	18.44	18.47	18.58	19.3
1.4	64QAM	6	0	18.45	18.46	18.56	
1.4	256QAM	1	0	14.68	14.56	14.62	
1.4	256QAM	1	3	14.42	14.43	14.60	16.3
1.4	256QAM	1	5	14.55	14.55	14.64	
1.4	256QAM	3	0	14.44	14.45	14.47	
1.4	256QAM	3	1	14.42	14.52	14.65	
1.4	256QAM	3	3	14.52	14.50	14.63	16.3
1.4	256QAM	6	0	14.51	14.43	14.51	

5	16QAM	1	12	18.25	18.22	18.13	19
5	16QAM	1	24	18.21	18.32	18.26	
5	16QAM	12	0	17.17	17.24	17.32	
5	16QAM	12	7	17.15	17.24	17.14	18
5	16QAM	12	13	17.14	17.24	17.11	
5	16QAM	25	0	17.12	17.16	17.25	
5	64QAM	1	0	17.16	17.23	17.25	18
5	64QAM	1	12	17.23	17.32	17.00	
5	64QAM	1	24	17.19	17.08	16.92	
5	64QAM	12	0	17.16	17.16	17.22	18
5	64QAM	12	7	17.10	17.27	17.02	
5	64QAM	12	13	17.16	17.27	17.16	
5	64QAM	25	0	17.15	17.19	17.06	15
5	256QAM	1	0	13.25	13.31	13.26	
5	256QAM	1	12	13.27	13.30	13.07	
5	256QAM	1	24	13.23	13.13	12.96	15
5	256QAM	12	0	13.19	13.20	13.26	
5	256QAM	12	7	13.15	13.27	13.09	
5	256QAM	12	13	13.17	13.35	13.23	15
5	256QAM	25	0	13.28	13.24	13.16	

5	16QAM	1	12	18.93	18.90	18.81	19.6
5	16QAM	1	24	18.89	19.00	18.94	
5	16QAM	12	0	17.85	17.92	18.00	
5	16QAM	12	7	17.83	17.92	17.82	18.6
5	16QAM	12	13	17.82	17.92	17.79	
5	16QAM	25	0	17.80	17.84	17.93	
5	64QAM	1	0	17.84	17.91	17.93	18.6
5	64QAM	1	12	17.91	18.00	17.68	
5	64QAM	1	24	17.87	17.76	17.60	
5	64QAM	12	0	17.84	17.84	17.90	18.6
5	64QAM	12	7	17.78	17.95	17.70	
5	64QAM	12	13	17.84	17.95	17.84	
5	64QAM	25	0	17.83	17.87	17.74	15.6
5	256QAM	1	0	13.93	13.99	13.94	
5	256QAM	1	12	13.95	13.98	13.75	
5	256QAM	1	24	13.91	13.81	13.64	15.6
5	256QAM	12	0	13.87	13.88	13.94	
5	256QAM	12	7	13.83	13.95	13.77	
5	256QAM	12	13	13.85	14.03	13.91	15.6
5	256QAM	25	0	13.96	13.92	13.84	

5	16QAM	1	12	19.28	19.25	19.16	19.8
5	16QAM	1	24	19.24	19.35	19.29	
5	16QAM	12	0	18.20	18.27	18.35	
5	16QAM	12	7	18.18	18.27	18.17	18.8
5	16QAM	12	13	18.17	18.27	18.14	
5	16QAM	25	0	18.15	18.19	18.28	
5	64QAM	1	0	18.19	18.26	18.28	18.8
5	64QAM	1	12	18.26	18.35	18.03	
5	64QAM	1	24	18.22	18.11	17.95	
5	64QAM	12	0	18.19	18.19	18.25	18.8
5	64QAM	12	7	18.13	18.30	18.05	
5	64QAM	12	13	18.19	18.30	18.19	
5	64QAM	25	0	18.18	18.22	18.09	15.8
5	256QAM	1	0	14.28	14.34	14.29	
5	256QAM	1	12	14.30	14.33	14.10	
5	256QAM	1	24	14.26	14.16	13.99	15.8
5	256QAM	12	0	14.22	14.23	14.29	
5	256QAM	12	7	14.18	14.30	14.12	
5	256QAM	12	13	14.20	14.38	14.26	15.8
5	256QAM	25	0	14.31	14.27	14.19	

5	16QAM	1	12	18.29	18.26	18.17	18.8
5	16QAM	1	24	18.25	18.36	18.30	
5	16QAM	12	0	17.21	17.28	17.36	
5	16QAM	12	7	17.19	17.28	17.18	17.8
5	16QAM	12	13	17.18	17.28	17.15	
5	16QAM	25	0	17.16	17.20	17.29	
5	64QAM	1	0	17.20	17.27	17.29	17.8
5	64QAM	1	12	17.27	17.36	17.04	
5	64QAM	1	24	17.23	17.12	16.96	
5	64QAM	12	0	17.20	17.20	17.26	17.8
5	64QAM	12	7	17.14	17.31	17.06	
5	64QAM	12	13	17.20	17.31	17.29	
5	64QAM	25	0	17.19	17.23	17.10	14.8
5	256QAM	1	0	13.29	13.35	13.30	
5	256QAM	1	12	13.31	13.34	13.11	
5	256QAM	1	24	13.27	13.17	13.00	14.8
5	256QAM	12	0	13.23	13.24	13.30	
5	256QAM	12	7	13.19	13.31	13.13	
5	256QAM	12	13	13.21	13.39	13.27	14.8
5	256QAM	25	0	13.32	13.28	13.20	

5	16QAM	1	12	18.71	18.73	18.71	19.5
5	16QAM	1	24	18.53	18.60	18.65	
5	16QAM	12	0	17.78	17.54	17.54	
5	16QAM	12	7	17.80	17.64	17.47	18.5
5	16QAM	12	13	17.57	17.53	17.58	
5	16QAM	25	0	17.60	17.63	17.52	
5	64QAM	1	0	17.61	17.66	17.64	
5	64QAM	1	12	17.62	17.59	17.72	18.5
5	64QAM	1	24	17.71	17.61	17.58	
5	64QAM	12	0	17.65	17.57	17.59	
5	64QAM	12	7	17.64	17.63	17.62	23
5	64QAM	12	13	17.58	17.60	17.54	
5	64QAM	25	0	17.69	17.66	17.46	
5	256QAM	1	0	13.71	13.71	13.69	
5	256QAM	1	12	13.66	13.74	13.76	19
5	256QAM	1	24	13.69	13.74	13.72	
5	256QAM	12	0	13.64	13.60	13.68	
5	256QAM	12	7	13.72	13.75	13.61	19
5	256QAM	12	13	13.56	13.70	13.65	
5	256QAM	25	0	13.79	13.73	13.53	
Channel				26055	26365	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1882.5	1913.5	
3	QPSK	1	0	19.63	19.64	19.52	20.5
3	QPSK	1	8	19.53	19.55	19.53	
3	QPSK	1	14	19.57	19.52	19.50	
3	QPSK	8	0	18.75	18.59	18.59	
3	QPSK	8	4	18.66	18.68	18.69	19.5
3	QPSK	8	7	18.68	18.55	18.62	
3	QPSK	15	0	18.68	18.62	18.74	
3	16QAM	1	0	18.64	18.64	18.69	
3	16QAM	1	8	18.75	18.68	18.68	19.5
3	16QAM	1	14	18.51	18.67	18.69	
3	16QAM	8	0	17.69	17.63	17.61	
3	16QAM	8	4	17.64	17.67	17.48	18.5
3	16QAM	8	7	17.53	17.51	17.63	
3	16QAM	15	0	17.55	17.67	17.54	
3	64QAM	1	0	17.60	17.65	17.62	
3	64QAM	1	8	17.65	17.62	17.71	18.5
3	64QAM	1	14	17.71	17.64	17.58	
3	64QAM	8	0	17.64	17.58	17.65	
3	64QAM	8	4	17.66	17.72	17.63	23
3	64QAM	8	7	17.57	17.56	17.56	
3	64QAM	15	0	17.74	17.68	17.50	
3	256QAM	1	0	13.74	13.75	13.61	
3	256QAM	1	8	13.64	13.65	13.70	19
3	256QAM	1	14	13.72	13.68	13.67	
3	256QAM	8	0	13.65	13.70	13.63	
3	256QAM	8	4	13.64	13.76	13.68	19
3	256QAM	8	7	13.64	13.71	13.55	
3	256QAM	15	0	13.72	13.78	13.51	
Channel				26047	26365	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	19.66	19.59	19.55	20.5
1.4	QPSK	1	3	19.55	19.58	19.54	
1.4	QPSK	1	5	19.54	19.44	19.51	
1.4	QPSK	3	0	19.73	19.58	19.68	
1.4	QPSK	3	1	19.69	19.67	19.63	
1.4	QPSK	3	3	19.66	19.57	19.64	
1.4	QPSK	6	0	18.71	18.63	18.64	19.5
1.4	16QAM	1	0	18.56	18.65	18.59	
1.4	16QAM	1	3	18.73	18.68	18.62	
1.4	16QAM	1	5	18.47	18.64	18.71	18.5
1.4	16QAM	3	0	18.68	18.56	18.64	
1.4	16QAM	3	1	18.67	18.68	18.52	
1.4	16QAM	3	3	18.62	18.56	18.57	
1.4	16QAM	6	0	17.52	17.63	17.53	17.5
1.4	64QAM	1	0	17.68	17.65	17.60	
1.4	64QAM	1	3	17.59	17.62	17.70	
1.4	64QAM	1	5	17.70	17.66	17.56	18.5
1.4	64QAM	3	0	17.63	17.61	17.57	
1.4	64QAM	3	1	17.60	17.67	17.59	
1.4	64QAM	3	3	17.53	17.58	17.51	
1.4	64QAM	6	0	17.67	17.69	17.44	23
1.4	256QAM	1	0	13.67	13.74	13.61	
1.4	256QAM	1	3	13.62	13.69	13.76	
1.4	256QAM	1	5	13.75	13.73	13.73	19
1.4	256QAM	3	0	13.75	13.70	13.72	
1.4	256QAM	3	1	13.70	13.80	13.63	
1.4	256QAM	3	3	13.64	13.61	13.62	
1.4	256QAM	6	0	13.74	13.72	13.57	19

Band 25 (1900MHz Band) (dBm)-ANT 0							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26140	26365	26590	21.6
Frequency (MHz)				1860	1882.5	1905	
20	QPSK	1	0	20.92	20.98	20.90	20.6
20	QPSK	1	49	20.79	20.76	20.73	
20	QPSK	1	99	20.77	20.68	20.66	
20	QPSK	50	0	19.94	19.95	19.92	20.6
20	QPSK	50	24	19.91	19.87	19.89	
20	QPSK	50	50	19.90	19.81	19.83	
20	QPSK	100	0	19.89	19.95	19.89	20.6
20	16QAM	1	0	19.82	19.82	19.84	
20	16QAM	1	49	19.91	19.88	19.87	
20	16QAM	1	99	19.73	19.85	19.86	19.6
20	16QAM	50	0	18.94	18.79	18.80	
20	16QAM	50	24	18.84	18.83	18.73	
20	16QAM	50	50	18.79	18.77	18.78	19.6
20	16QAM	100	0	18.78	18.87	18.77	
20	64QAM	1	0	18.85	18.86	18.79	
20	64QAM	1	49	18.80	18.82	18.89	19.6
20	64QAM	1	99	18.87	18.84	18.82	
20	64QAM	50	0	18.83	18.78	18.81	
20	64QAM	50	24	18.83	18.89	18.80	19.6
20	64QAM	50	50	18.74	18.80	18.74	
20	64QAM	100	0	18.89	18.88	18.68	
20	256QAM	1	0	14.92	14.93	14.86	16.6
20	256QAM	1	49	14.87	14.89	14.96	
20	256QAM	1	99	14.94	14.91	14.89	
20	256QAM	50	0	14.90	14.85	14.88	16.6
20	256QAM	50	24	14.90	14.96	14.87	
20	256QAM	50	50	14.81	14.87	14.81	
20	256QAM	100	0	14.96	14.95	14.75	Tune-up limit (dBm)
Channel				26115	26365	26615	
Frequency (MHz)				1857.5	1882.5	1907.5	21.6
15	QPSK	1	0	20.78	20.77	20.75	
15	QPSK	1	37	20.71	20.72	20.69	20.6
15	QPSK	1	74	20.72	20.62	20.56	
15	QPSK	36	0	19.95	19.71	19.82	
15	QPSK	36	20	19.86	19.79	19.87	20.6
15	QPSK	36	39	19.80	19.75	19.82	
15	QPSK	75	0	19.80	19.80	19.85	
15	16QAM	1	0	19.77	19.71	19.72	20.6
15	16QAM	1	37	19.86	19.76	19.80	
15	16QAM	1	74	19.68	19.82	19.75	
15	16QAM	36	0	18.88	18.78	18.73	19.6
15	16QAM	36	20	18.74	18.72	18.72	
15	16QAM	36	39	18.71	18.73	18.74	
15	16QAM	75	0	18.72	18.85	18.75	19.6
15	64QAM	1	0	18.73	18.76	18.72	
15	64QAM	1	37	18.74	18.70	18.66	
15	64QAM	1	74	18.75	18.79	18.77	19.6
15	64QAM	36	0	18.79	18.74	18.73	
15	64QAM	36	20	18.76	18.79	18.79	
15	64QAM	36	39	18.67	18.76	18.70	16.6
15	64QAM	75	0	18.86	18.83	18.58	
15	256QAM	1	0	14.85	14.89	14.82	
15	256QAM	1	37	14.81	14.79	14.93	16.6
15	256QAM	1	74	14.92	14.84	14.79	
15	256QAM	36	0	14.83	14.84	14.83	
15	256QAM	36	20	14.82	14.90	14.79	16.6
15	256QAM	36	39	14.79	14.85	14.70	
15	256QAM	75	0	14.89	14.87	14.74	
Channel				26090	26365	26640	21.6
Frequency (MHz)				1855	1882.5	1910	
10	QPSK	1	0	20.77	20.75	20.75	20.6
10	QPSK	1	25	20.75	20.67	20.64	
10	QPSK	1	49	20.75	20.58	20.63	
10	QPSK	25	0	19.94	19.72	19.73	20.6
10	QPSK	25	12	19.88	19.77	19.81	
10	QPSK	25	25	19.81	19.77	19.78	
10	QPSK	50	0	19.81	19.85	19.87	20.6
10	16QAM	1	0	19.72	19.71	19.83	
10	16QAM	1	25	19.79	19.85	19.76	
10	16QAM	1	49	19.72	19.76	19.76	19.6
10	16QAM	25	0	18.88	18.77	18.74	
10	16QAM	25	12	18.72	18.78	18.65	
10	16QAM	25	25	18.75	18.74	18.66	19.6
10	16QAM	50	0	18.75	18.79	18.68	
10	64QAM	1	0	18.75	18.79	18.70	
10	64QAM	1	25	18.69	18.72	18.78	19.6
10	64QAM	1	49	18.81	18.73	18.77	
10	64QAM	25	0	18.76	18.69	18.69	
10	64QAM	25	12	18.71	18.86	18.74	19.6
10	64QAM	25	25	18.70	18.71	18.68	
10	64QAM	50	0	18.85	18.77	18.66	
10	256QAM	1	0	14.86	14.86	14.74	16.6
10	256QAM	1	25	14.83	14.79	14.91	
10	256QAM	1	49	14.92	14.89	14.88	
10	256QAM	25	0	14.86	14.84	14.76	16.6
10	256QAM	25	12	14.85	14.87	14.81	
10	256QAM	25	25	14.78	14.86	14.69	
10	256QAM	50	0	14.92	14.87	14.68	Tune-up limit (dBm)
Channel				20065	20365	20665	
Frequency (MHz)				1852.5	1882.5	1912.5	21.6
5	QPSK	1	0	20.74	20.77	20.74	
5	QPSK	1	12	20.68	20.64	20.65	20.6
5	QPSK	1	24	20.70	20.59	20.60	
5	QPSK	12	0	19.94	19.70	19.80	20.6
5	QPSK	12	7	19.87	19.81	19.79	
5	QPSK	12	13	19.86	19.71	19.75	
5	QPSK	25	0	19.88	19.76	19.78	20.6
5	16QAM	1	0	19.71	19.74	19.75	

Band 25 (1900MHz Band) (dBm)-ANT 6							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26140	26365	26590	21.7
Frequency (MHz)				1860	1882.5	1905	
20	QPSK	1	0	21.05	21.11	21.03	21.7
20	QPSK	1	49	20.92	20.89	20.86	
20	QPSK	1	99	20.90	20.81	20.79	
20	QPSK	50	0	20.07	20.08	20.05	20.7
20	QPSK	50	24	20.04	20.00	20.02	
20	QPSK	50	50	20.03	19.94	19.96	
20	QPSK	100	0	20.02	20.08	20.02	20.7
20	16QAM	1	0	19.95	19.95	19.97	
20	16QAM	1	49	20.04	20.01	20.00	
20	16QAM	1	99	19.86	19.98	19.99	19.7
20	16QAM	50	0	19.07	18.92	18.93	
20	16QAM	50	24	18.97	18.96	18.86	
20	16QAM	50	50	18.92	18.90	18.91	19.7
20	16QAM	100	0	18.91	19.00	18.90	
20	64QAM	1	0	18.98	18.99	18.92	
20	64QAM	1	49	18.93	18.95	19.02	19.7
20	64QAM	1	99	19.00	18.97	18.95	
20	64QAM	50	0	18.96	18.91	18.94	
20	64QAM	50	24	18.96	19.02	18.93	19.7
20	64QAM	50	50	18.87	18.93	18.87	
20	64QAM	100	0	19.02	19.01	18.81	
20	256QAM	1	0	15.05	15.06	14.99	16.7
20	256QAM	1	49	15.00	15.02	15.09	
20	256QAM	1	99	15.07	15.04	15.02	
20	256QAM	50	0	15.03	14.98	15.01	16.7
20	256QAM	50	24	15.03	15.09	15.00	
20	256QAM	50	50	14.94	15.00	14.94	
20	256QAM	100	0	15.09	15.08	14.88	Tune-up limit (dBm)
Channel				26115	26365	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	Tune-up limit (dBm)
15	QPSK	1	0	20.91	20.90	20.88	21.7
15	QPSK	1	37	20.84	20.85	20.82	
15	QPSK	1	74	20.85	20.75	20.69	
15	QPSK	36	0	20.08	19.84	19.95	20.7
15	QPSK	36	20	20.99	19.92	20.00	
15	QPSK	36	39	19.93	19.88	19.95	
15	QPSK	75	0	19.93	19.93	19.98	20.7
15	16QAM	1	0	19.90	19.84	19.85	
15	16QAM	1	37	19.99	19.89	19.93	
15	16QAM	1	74	19.81	19.95	19.88	19.7
15	16QAM	36	0	19.01	18.91	18.86	
15	16QAM	36	20	18.87	18.85	18.85	
15	16QAM	36	39	18.84	18.86	18.87	19.7
15	16QAM	75	0	18.85	18.98	18.88	
15	64QAM	1	0	18.86	18.89	18.85	
15	64QAM	1	37	18.87	18.83	18.99	19.7
15	64QAM	1	74	18.88	18.92	18.90	
15	64QAM	36	0	18.92	18.87	18.86	
15	64QAM	36	20	18.91	18.92	18.92	19.7
15	64QAM	36	39	18.80	18.89	18.83	
15	64QAM	75	0	18.99	18.96	18.71	
15	256QAM	1	0	14.98	15.02	14.95	16.7
15	256QAM	1	37	14.94	14.92	15.06	
15	256QAM	1	74	15.05	14.97	14.92	
15	256QAM	36	0	14.96	14.97	14.96	16.7
15	256QAM	36	20	14.95	15.03	14.92	
15	256QAM	36	39	14.92	14.98	14.83	
15	256QAM	75	0	15.02	15.00	14.87	Tune-up limit (dBm)
Channel				26090	26365	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	Tune-up limit (dBm)
10	QPSK	1	0	20.90	20.88	20.88	21.7
10	QPSK	1	25	20.88	20.80	20.77	
10	QPSK	1	49	20.88	20.71	20.76	
10	QPSK	25	0	20.07	19.85	19.86	20.7
10	QPSK	25	12	20.01	19.90	19.94	
10	QPSK	25	25	19.94	19.90	19.91	
10	QPSK	50	0	19.94	19.98	20.00	20.7
10	16QAM	1	0	19.85	19.84	19.96	
10	16QAM	1	25	19.92	19.98	19.89	
10	16QAM	1	49	19.85	19.89	19.89	19.7
10	16QAM	25	0	19.01	18.90	18.87	
10	16QAM	25	12	18.85	18.91	18.78	
10	16QAM	25	25	18.88	18.87	18.79	19.7
10	16QAM	50	0	18.88	18.92	18.81	
10	64QAM	1	0	18.88	18.92	18.83	
10	64QAM	1	25	18.82	18.85	18.91	19.7
10	64QAM	1	49	18.94	18.86	18.90	
10	64QAM	25	0	18.89	18.82	18.82	
10	64QAM	25	12	18.84	18.99	18.87	19.7
10	64QAM	25	25	18.83	18.84	18.81	
10	64QAM	50	0	18.98	18.90	18.79	
10	256QAM	1	0	14.99	14.99	14.87	16.7
10	256QAM	1	25	14.96	14.92	15.04	
10	256QAM	1	49	15.05	15.02	15.01	
10	256QAM	25	0	14.99	14.97	14.89	16.7
10	256QAM	25	12	14.98	15.00	14.94	
10	256QAM	25	25	14.91	14.99	14.82	
10	256QAM	50	0	15.05	15.00	14.81	Tune-up limit (dBm)
Channel				26065	26365	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	Tune-up limit (dBm)
5	QPSK	1	0	20.87	20.90	20.87	21.7
5	QPSK	1	12	20.81	20.77	20.78	
5	QPSK	1	24	20.83	20.72	20.73	
5	QPSK	12	0	20.07	19.83	19.93	20.7
5	QPSK	12	7	20.00	19.94	19.92	
5	QPSK	12	13	19.99	19.84	19.88	
5	QPSK	25	0	20.01	19.89	19.91	20.7
5	16QAM	1	0	19.84	19.87	19.88	

5	16QAM	1	12	19.85	19.87	19.85	20.6
5	16QAM	1	24	19.67	19.74	19.79	
5	16QAM	12	0	18.92	18.68	18.68	
5	16QAM	12	7	18.74	18.78	18.61	19.6
5	16QAM	12	13	18.71	18.67	18.72	
5	16QAM	25	0	18.74	18.77	18.66	
5	64QAM	1	0	18.75	18.80	18.78	
5	64QAM	1	12	18.76	18.73	18.86	19.6
5	64QAM	1	24	18.85	18.75	18.72	
5	64QAM	12	0	18.79	18.71	18.73	
5	64QAM	12	7	18.78	18.77	18.76	19.6
5	64QAM	12	13	18.72	18.74	18.68	
5	64QAM	25	0	18.83	18.80	18.60	
5	256QAM	1	0	14.85	14.85	14.83	
5	256QAM	1	12	14.80	14.88	14.90	16.6
5	256QAM	1	24	14.83	14.88	14.86	
5	256QAM	12	0	14.78	14.74	14.82	
5	256QAM	12	7	14.86	14.89	14.75	16.6
5	256QAM	12	13	14.70	14.84	14.79	
5	256QAM	25	0	14.93	14.87	14.67	
Channel				26055	26365	26675	Tune-up limit
Frequency (MHz)				1851.5	1882.5	1913.5	(dBm)
3	QPSK	1	0	20.77	20.78	20.66	
3	QPSK	1	8	20.67	20.69	20.67	21.6
3	QPSK	1	14	20.71	20.66	20.64	
3	QPSK	8	0	19.89	19.73	19.73	
3	QPSK	8	4	19.80	19.82	19.83	20.6
3	QPSK	8	7	19.82	19.69	19.76	
3	QPSK	15	0	19.82	19.76	19.88	
3	16QAM	1	0	19.78	19.78	19.83	
3	16QAM	1	8	19.89	19.82	19.82	20.6
3	16QAM	1	14	19.65	19.81	19.83	
3	16QAM	8	0	18.83	18.77	18.75	
3	16QAM	8	4	18.76	18.81	18.62	19.6
3	16QAM	8	7	18.67	18.65	18.77	
3	16QAM	15	0	18.69	18.81	18.68	
3	64QAM	1	0	18.74	18.79	18.76	
3	64QAM	1	8	18.79	18.76	18.85	19.6
3	64QAM	1	14	18.85	18.78	18.72	
3	64QAM	8	0	18.78	18.72	18.79	
3	64QAM	8	4	18.80	18.86	18.77	19.6
3	64QAM	8	7	18.71	18.70	18.70	
3	64QAM	15	0	18.88	18.82	18.64	
3	256QAM	1	0	14.88	14.89	14.75	
3	256QAM	1	8	14.78	14.79	14.84	16.6
3	256QAM	1	14	14.86	14.82	14.81	
3	256QAM	8	0	14.79	14.84	14.77	
3	256QAM	8	4	14.78	14.90	14.82	16.6
3	256QAM	8	7	14.78	14.85	14.69	
3	256QAM	15	0	14.86	14.92	14.65	
Channel				26047	26365	26683	Tune-up limit
Frequency (MHz)				1850.7	1882.5	1914.3	(dBm)
1.4	QPSK	1	0	20.80	20.73	20.69	
1.4	QPSK	1	3	20.69	20.72	20.68	21.6
1.4	QPSK	1	5	20.68	20.58	20.65	
1.4	QPSK	3	0	20.87	20.72	20.82	
1.4	QPSK	3	1	20.83	20.81	20.77	
1.4	QPSK	3	3	20.80	20.71	20.78	
1.4	QPSK	6	0	19.85	19.77	19.78	20.6
1.4	16QAM	1	0	19.70	19.79	19.73	
1.4	16QAM	1	3	19.87	19.82	19.76	
1.4	16QAM	1	5	19.61	19.78	19.85	22.1
1.4	16QAM	3	0	19.82	19.70	19.78	
1.4	16QAM	3	1	19.81	19.82	19.66	
1.4	16QAM	3	3	19.76	19.70	19.71	
1.4	16QAM	6	0	18.66	18.77	18.67	21.1
1.4	64QAM	1	0	18.82	18.79	18.74	
1.4	64QAM	1	3	18.73	18.76	18.84	
1.4	64QAM	1	5	18.84	18.80	18.70	19.6
1.4	64QAM	3	0	18.77	18.75	18.71	
1.4	64QAM	3	1	18.74	18.81	18.73	
1.4	64QAM	3	3	18.67	18.72	18.65	
1.4	64QAM	6	0	18.81	18.83	18.58	19.6
1.4	256QAM	1	0	14.81	14.88	14.75	
1.4	256QAM	1	3	14.76	14.83	14.90	
1.4	256QAM	1	5	14.89	14.87	14.87	16.16
1.4	256QAM	3	0	14.89	14.84	14.86	
1.4	256QAM	3	1	14.84	14.94	14.77	
1.4	256QAM	3	3	14.78	14.75	14.76	
1.4	256QAM	6	0	14.88	14.86	14.71	16.6

5	16QAM	1	12	19.98	20.00	19.98	20.7
5	16QAM	1	24	19.80	19.87	19.92	
5	16QAM	12	0	19.05	18.81	18.81	
5	16QAM	12	7	18.87	18.91	18.74	19.7
5	16QAM	12	13	18.84	18.80	18.85	
5	16QAM	25	0	18.87	18.90	18.79	
5	64QAM	1	0	18.88	18.93	18.91	
5	64QAM	1	12	18.89	18.86	18.99	19.7
5	64QAM	1	24	18.98	18.88	18.85	
5	64QAM	12	0	18.92	18.84	18.86	
5	64QAM	12	7	18.91	18.90	18.89	19.7
5	64QAM	12	13	18.85	18.87	18.81	
5	64QAM	25	0	18.96	18.93	18.73	
5	256QAM	1	0	14.98	14.98	14.96	
5	256QAM	1	12	14.93	15.01	15.03	16.7
5	256QAM	1	24	14.96	15.01	14.99	
5	256QAM	12	0	14.91	14.87	14.95	
5	256QAM	12	7	14.99	15.02	14.88	16.7
5	256QAM	12	13	14.83	14.97	14.92	
5	256QAM	25	0	15.06	15.00	14.80	
Channel				26055	26365	26675	Tune-up limit
Frequency (MHz)				1851.5	1882.5	1913.5	(dBm)
3	QPSK	1	0	20.90	20.91	20.79	
3	QPSK	1	8	20.80	20.82	20.80	21.7
3	QPSK	1	14	20.84	20.79	20.77	
3	QPSK	8	0	20.02	19.86	19.86	
3	QPSK	8	4	19.93	19.95	19.96	20.7
3	QPSK	8	7	19.95	19.82	19.89	
3	QPSK	15	0	19.95	19.89	20.01	
3	16QAM	1	0	19.91	19.91	19.96	
3	16QAM	1	8	20.02	19.95	19.95	20.7
3	16QAM	1	14	19.78	19.94	19.96	
3	16QAM	8	0	18.96	18.90	18.88	
3	16QAM	8	4	18.91	18.94	18.75	19.7
3	16QAM	8	7	18.80	18.78	18.90	
3	16QAM	15	0	18.82	18.94	18.81	
3	64QAM	1	0	18.87	18.92	18.89	
3	64QAM	1	8	18.92	18.89	18.98	19.7
3	64QAM	1	14	18.98	18.91	18.85	
3	64QAM	8	0	18.91	18.85	18.92	
3	64QAM	8	4	18.93	18.99	18.90	19.7
3	64QAM	8	7	18.84	18.83	18.83	
3	64QAM	15	0	19.01	18.95	18.77	
3	256QAM	1	0	15.01	15.02	14.88	
3	256QAM	1	8	14.91	14.92	14.97	16.7
3	256QAM	1	14	14.99	14.95	14.94	
3	256QAM	8	0	14.92	14.97	14.90	
3	256QAM	8	4	14.91	15.03	14.95	16.7
3	256QAM	8	7	14.91	14.98	14.82	
3	256QAM	15	0	14.99	15.05	14.78	
Channel				26047	26365	26683	Tune-up limit
Frequency (MHz)				1850.7	1882.5	1914.3	(dBm)
1.4	QPSK	1	0	20.93	20.86	20.82	
1.4	QPSK	1	3	20.82	20.85	20.81	21.7
1.4	QPSK	1	5	20.81	20.71	20.78	
1.4	QPSK	3	0	21.00	20.85	20.95	
1.4	QPSK	3	1	20.96	20.94	20.90	
1.4	QPSK	3	3	20.93	20.84	20.91	
1.4	QPSK	6	0	19.98	19.90	19.91	20.7
1.4	16QAM	1	0	19.83	19.92	19.86	
1.4	16QAM	1	3	20.00	19.95	19.89	
1.4	16QAM	1	5	19.74	19.91	19.98	22.8
1.4	16QAM	3	0	19.95	19.83	19.91	
1.4	16QAM	3	1	19.94	19.95	19.79	
1.4	16QAM	3	3	19.89	19.83	19.84	
1.4	16QAM	6	0	18.79	18.90	18.80	21.8
1.4	64QAM	1	0	18.95	18.92	18.87	
1.4	64QAM	1	3	18.86	18.89	18.97	
1.4	64QAM	1	5	18.97	18.93	18.83	19.7
1.4	64QAM	3	0	18.90	18.88	18.84	
1.4	64QAM	3	1	18.87	18.94	18.86	
1.4	64QAM	3	3	18.80	18.85	18.78	
1.4	64QAM	6	0	18.94	18.96	18.71	19.7
1.4	256QAM	1	0	14.94	15.01	14.88	
1.4	256QAM	1	3	14.89	14.96	15.03	
1.4	256QAM	1	5	15.02	15.00	15.00	16.7
1.4	256QAM	3	0	15.02	14.97	14.99	
1.4	256QAM	3	1	14.97	15.07	14.90	
1.4	256QAM	3	3	14.91	14.88	14.89	
1.4	256QAM	6	0	15.01	14.99	14.84	16.7

Band 25 (1900MHz Band) (dBm)-ANT 4							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26140	26365	26590	
Frequency (MHz)				1860	1882.5	1905	
20	QPSK	1	0	18.86	18.92	18.84	
20	QPSK	1	49	18.73	18.70	18.67	
20	QPSK	1	99	18.71	18.62	18.60	
20	QPSK	50	0	17.88	17.89	17.86	
20	QPSK	50	24	17.85	17.81	17.83	18.6
20	QPSK	50	50	17.84	17.75	17.77	
20	QPSK	100	0	17.83	17.89	17.83	
20	16QAM	1	0	17.76	17.76	17.78	
20	16QAM	1	49	17.85	17.82	17.81	18.6
20	16QAM	1	99	17.67	17.79	17.80	
20	16QAM	50	0	16.88	16.73	16.74	
20	16QAM	50	24	16.78	16.77	16.67	
20	16QAM	50	50	16.73	16.71	16.72	17.6
20	16QAM	100	0	16.72	16.81	16.71	
20	64QAM	1	0	16.79	16.80	16.73	
20	64QAM	1	49	16.74	16.76	16.83	
20	64QAM	1	99	16.81	16.78	16.76	17.6
20	64QAM	50	0	16.77	16.72	16.75	
20	64QAM	50	24	16.77	16.83	16.74	
20	64QAM	50	50	16.68	16.74	16.68	
20	64QAM	100	0	16.83	16.82	16.62	14.6
20	256QAM	1	0	12.86	12.87	12.80	
20	256QAM	1	49	12.81	12.83	12.90	
20	256QAM	1	99	12.88	12.85	12.83	
20	256QAM	50	0	12.84	12.79	12.82	14.6
20	256QAM	50	24	12.84	12.90	12.81	
20	256QAM	50	50	12.75	12.81	12.75	
20	256QAM	100	0	12.90	12.89	12.69	
Channel				26115	26365	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	QPSK	1	0	18.72	18.71	18.69	19.6
15	QPSK	1	37	18.65	18.66	18.63	
15	QPSK	1	74	18.66	18.56	18.50	
15	QPSK	36	0	17.89	17.65	17.76	
15	QPSK	36	20	17.80	17.73	17.81	18.6
15	QPSK	36	39	17.74	17.69	17.76	
15	QPSK	75	0	17.74	17.74	17.79	
15	16QAM	1	0	17.71	17.65	17.66	
15	16QAM	1	37	17.80	17.70	17.74	18.6
15	16QAM	1	74	17.62	17.76	17.69	
15	16QAM	36	0	16.82	16.72	16.67	
15	16QAM	36	20	16.68	16.66	16.66	
15	16QAM	36	39	16.65	16.67	16.68	17.6
15	16QAM	75	0	16.66	16.79	16.69	
15	64QAM	1	0	16.67	16.70	16.66	
15	64QAM	1	37	16.68	16.64	16.80	
15	64QAM	1	74	16.69	16.73	16.71	17.6
15	64QAM	36	0	16.73	16.68	16.67	
15	64QAM	36	20	16.72	16.73	16.73	
15	64QAM	36	39	16.61	16.70	16.64	
15	64QAM	75	0	16.80	16.77	16.52	17.6
15	256QAM	1	0	12.79	12.83	12.76	
15	256QAM	1	37	12.75	12.73	12.87	
15	256QAM	1	74	12.86	12.78	12.73	
15	256QAM	36	0	12.77	12.78	12.77	14.6
15	256QAM	36	20	12.76	12.84	12.73	
15	256QAM	36	39	12.73	12.79	12.64	
15	256QAM	75	0	12.83	12.81	12.68	
Channel				26090	26365	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	QPSK	1	0	18.71	18.69	18.69	19.6
10	QPSK	1	25	18.69	18.61	18.58	
10	QPSK	1	49	18.69	18.52	18.57	
10	QPSK	25	0	17.88	17.66	17.67	
10	QPSK	25	12	17.82	17.71	17.75	18.6
10	QPSK	25	25	17.75	17.71	17.72	
10	QPSK	50	0	17.75	17.79	17.81	
10	16QAM	1	0	17.66	17.65	17.77	
10	16QAM	1	25	17.73	17.79	17.70	18.6
10	16QAM	1	49	17.66	17.70	17.70	
10	16QAM	25	0	16.82	16.71	16.68	
10	16QAM	25	12	16.66	16.72	16.59	
10	16QAM	25	25	16.69	16.68	16.60	17.6
10	16QAM	50	0	16.69	16.73	16.62	
10	64QAM	1	0	16.69	16.73	16.64	
10	64QAM	1	25	16.63	16.66	16.72	
10	64QAM	1	49	16.75	16.67	16.71	17.6
10	64QAM	25	0	16.70	16.63	16.63	
10	64QAM	25	12	16.65	16.80	16.68	
10	64QAM	25	25	16.64	16.65	16.62	
10	64QAM	50	0	16.79	16.71	16.60	14.6
10	256QAM	1	0	12.80	12.80	12.68	
10	256QAM	1	25	12.77	12.73	12.85	
10	256QAM	1	49	12.86	12.83	12.82	
10	256QAM	25	0	12.80	12.78	12.70	14.6
10	256QAM	25	12	12.79	12.81	12.75	
10	256QAM	25	25	12.72	12.80	12.63	
10	256QAM	50	0	12.86	12.81	12.62	
Channel				26065	26365	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	QPSK	1	0	18.68	18.71	18.68	19.6
5	QPSK	1	12	18.62	18.58	18.59	
5	QPSK	1	24	18.64	18.53	18.54	
5	QPSK	12	0	17.88	17.64	17.74	
5	QPSK	12	7	17.81	17.75	17.73	18.6
5	QPSK	12	13	17.80	17.65	17.69	
5	QPSK	25	0	17.82	17.70	17.72	
5	16QAM	1	0	17.65	17.68	17.69	

Band 30 (dBm)-ANT 4							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					27710		
Frequency (MHz)					2310		
10	QPSK	1	0		19.08		19.8
10	QPSK	1	25		18.96		
10	QPSK	1	49		18.96		
10	QPSK	25	0		18.09		
10	QPSK	25	12		18.05		18.8
10	QPSK	25	25		18.04		
10	QPSK	50	0		18.06		
10	16QAM	1	0		18.25		
10	16QAM	1	25		18.22		18.8
10	16QAM	1	49		18.29		
10	16QAM	25	0		17.11		
10	16QAM	25	12		17.06		
10	16QAM	25	25		17.07		17.8
10	16QAM	50	0		17.04		
10	64QAM	1	0		17.31		
10	64QAM	1	25		17.05		
10	64QAM	1	49		17.21		17.8
10	64QAM	25	0		17.15		
10	64QAM	25	12		17.10		
10	64QAM	25	25		17.05		
10	64QAM	50	0		17.07		17.8
10	256QAM	1	0		14.00		
10	256QAM	1	25		13.74		
10	256QAM	1	49		13.90		
10	256QAM	25	0		13.83		14.8
10	256QAM	25	12		13.78		
10	256QAM	25	25		13.73		
10	256QAM	50	0		13.75		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	18.97	19.07	18.96	19.8
5	QPSK	1	12	18.88	18.88	18.91	
5	QPSK	1	24	18.92	18.86	18.93	
5	QPSK	12	0	17.98	18.07	17.99	
5	QPSK	12	7	18.04	17.97	17.99	18.8
5	QPSK	12	13	18.02	17.98	18.01	
5	QPSK	25	0	17.90	17.97	18.00	
5	16QAM	1	0	18.23	18.17	18.23	
5	16QAM	1	12	18.18	18.14	18.18	18.8
5	16QAM	1	24	18.21	18.22	18.27	
5	16QAM	12	0	17.03	17.02	17.10	
5	16QAM	12	7	16.99	16.99	17.03	
5	16QAM	12	13	16.98	17.06	16.96	17.8
5	16QAM	25	0	16.96	16.98	16.97	
5	64QAM	1	0	17.25	17.27	17.21	
5	64QAM	1	12	16.99	16.94	17.03	
5	64QAM	1	24	17.20	17.15	17.18	17.8
5	64QAM	12	0	17.13	17.06	17.05	
5	64QAM	12	7	17.09	17.07	17.09	
5	64QAM	12	13	17.02	17.00	16.93	
5	64QAM	25	0	17.03	16.95	16.97	17.8
5	256QAM	1	0	13.91	13.97	13.89	
5	256QAM	1	12	13.72	13.71	13.70	
5	256QAM	1	24	13.87	13.85	13.83	
5	256QAM	12	0	13.71	13.77	13.73	14.8
5	256QAM	12	7	13.71	13.72	13.74	
5	256QAM	12	13	13.61	13.62	13.66	
5	256QAM	25	0	13.65	13.67	13.73	

5	16QAM	1	12	17.79	17.81	17.79	18.6
5	16QAM	1	24	17.61	17.68	17.73	
5	16QAM	12	0	16.86	16.62	16.62	
5	16QAM	12	7	16.68	16.72	16.55	17.6
5	16QAM	12	13	16.65	16.61	16.66	
5	16QAM	25	0	16.68	16.71	16.60	
5	64QAM	1	0	16.69	16.74	16.72	
5	64QAM	1	12	16.70	16.67	16.80	17.6
5	64QAM	1	24	16.79	16.69	16.66	
5	64QAM	12	0	16.73	16.65	16.67	
5	64QAM	12	7	16.72	16.71	16.70	17.6
5	64QAM	12	13	16.66	16.68	16.62	
5	64QAM	25	0	16.77	16.74	16.54	
5	256QAM	1	0	12.79	12.79	12.77	
5	256QAM	1	12	12.74	12.82	12.84	14.6
5	256QAM	1	24	12.77	12.82	12.80	
5	256QAM	12	0	12.72	12.68	12.76	
5	256QAM	12	7	12.80	12.83	12.69	14.6
5	256QAM	12	13	12.64	12.78	12.73	
5	256QAM	25	0	12.87	12.81	12.61	
Channel				26055	26365	26675	Tune-up limit
Frequency (MHz)				1851.5	1882.5	1913.5	(dBm)
3	QPSK	1	0	18.71	18.72	18.60	
3	QPSK	1	8	18.61	18.63	18.61	19.6
3	QPSK	1	14	18.65	18.60	18.58	
3	QPSK	8	0	17.83	17.67	17.67	
3	QPSK	8	4	17.74	17.76	17.77	18.6
3	QPSK	8	7	17.76	17.63	17.70	
3	QPSK	15	0	17.76	17.70	17.82	
3	16QAM	1	0	17.72	17.72	17.77	
3	16QAM	1	8	17.83	17.76	17.76	18.6
3	16QAM	1	14	17.59	17.75	17.77	
3	16QAM	8	0	16.77	16.71	16.69	
3	16QAM	8	4	16.72	16.75	16.56	17.6
3	16QAM	8	7	16.61	16.59	16.71	
3	16QAM	15	0	16.63	16.75	16.62	
3	64QAM	1	0	16.68	16.73	16.70	
3	64QAM	1	8	16.73	16.70	16.79	17.6
3	64QAM	1	14	16.79	16.72	16.66	
3	64QAM	8	0	16.72	16.66	16.73	
3	64QAM	8	4	16.74	16.80	16.71	17.6
3	64QAM	8	7	16.65	16.64	16.64	
3	64QAM	15	0	16.82	16.76	16.58	
3	256QAM	1	0	12.82	12.83	12.69	
3	256QAM	1	8	12.72	12.73	12.78	14.6
3	256QAM	1	14	12.80	12.76	12.75	
3	256QAM	8	0	12.73	12.78	12.71	
3	256QAM	8	4	12.72	12.84	12.76	14.6
3	256QAM	8	7	12.72	12.79	12.63	
3	256QAM	15	0	12.80	12.86	12.59	
Channel				26047	26365	26683	Tune-up limit
Frequency (MHz)				1850.7	1882.5	1914.3	(dBm)
1.4	QPSK	1	0	18.74	18.67	18.63	
1.4	QPSK	1	3	18.63	18.66	18.62	19.6
1.4	QPSK	1	5	18.62	18.52	18.59	
1.4	QPSK	3	0	18.81	18.66	18.76	
1.4	QPSK	3	1	18.77	18.75	18.71	
1.4	QPSK	3	3	18.74	18.65	18.72	
1.4	QPSK	6	0	17.79	17.71	17.72	18.6
1.4	16QAM	1	0	17.64	17.73	17.67	
1.4	16QAM	1	3	17.81	17.76	17.70	
1.4	16QAM	1	5	17.55	17.72	17.79	18.6
1.4	16QAM	3	0	17.76	17.64	17.72	
1.4	16QAM	3	1	17.75	17.76	17.60	
1.4	16QAM	3	3	17.70	17.64	17.65	
1.4	16QAM	6	0	16.60	16.71	16.61	17.6
1.4	64QAM	1	0	16.76	16.73	16.68	
1.4	64QAM	1	3	16.67	16.70	16.78	
1.4	64QAM	1	5	16.78	16.74	16.64	17.6
1.4	64QAM	3	0	16.71	16.69	16.65	
1.4	64QAM	3	1	16.68	16.75	16.67	
1.4	64QAM	3	3	16.61	16.66	16.59	
1.4	64QAM	6	0	16.75	16.77	16.52	17.6
1.4	256QAM	1	0	12.75	12.82	12.69	
1.4	256QAM	1	3	12.70	12.77	12.84	
1.4	256QAM	1	5	12.83	12.81	12.81	14.6
1.4	256QAM	3	0	12.83	12.78	12.80	
1.4	256QAM	3	1	12.78	12.88	12.71	
1.4	256QAM	3	3	12.72	12.69	12.70	
1.4	256QAM	6	0	12.82	12.80	12.65	14.6

Band 30 (dBm)-ANT 6							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					27710		
Frequency (MHz)					2310		
10	QPSK	1	0		19.55		20.3
10	QPSK	1	25		19.53		
10	QPSK	1	49		19.49		
10	QPSK	25	0		18.61		
10	QPSK	25	12		18.50		19.3
10	QPSK	25	25		18.51		
10	QPSK	50	0		18.53		
10	16QAM	1	0		18.72		
10	16QAM	1	25		18.69		19.3
10	16QAM	1	49		18.76		
10	16QAM	25	0		17.58		
10	16QAM	25	12		17.53		
10	16QAM	25	25		17.54		18.3
10	16QAM	50	0		17.51		
10	64QAM	1	0		17.78		
10	64QAM	1	25		17.52		
10	64QAM	1	49		17.68		18.3
10	64QAM	25	0		17.62		
10	64QAM	25	12		17.57		
10	64QAM	25	25		17.52		
10	64QAM	50	0		17.54		15.3
10	256QAM	1	0		14.47		
10	256QAM	1	25		14.21		
10	256QAM	1	49		14.37		
10	256QAM	25	0		14.30		15.3
10	256QAM	25	12		14.25		
10	256QAM	25	25		14.20		
10	256QAM	50	0		14.22		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	19.44	19.54	19.43	20.3
5	QPSK	1	12	19.35	19.35	19.38	
5	QPSK	1	24	19.39	19.33	19.40	
5	QPSK	12	0	18.45	18.54	18.46	
5	QPSK	12	7	18.51	18.44	18.46	19.3
5	QPSK	12	13	18.49	18.45	18.48	
5	QPSK	25	0	18.37	18.44	18.47	
5	16QAM	1	0	18.70	18.64	18.70	
5	16QAM	1	12	18.65	18.61	18.65	19.3
5	16QAM	1	24	18.68	18.69	18.74	
5	16QAM	12	0	17.50	17.49	17.57	
5	16QAM	12	7	17.46	17.46	17.50	
5	16QAM	12	13	17.45	17.53	17.43	18.3
5	16QAM	25	0	17.43	17.45	17.44	
5	64QAM	1	0	17.72	17.74	17.68	
5	64QAM	1	12	17.46	17.41	17.50	
5	64QAM	1	24	17.67	17.62	17.63	18.3
5	64QAM	12	0	17.60	17.53	17.52	
5	64QAM	12	7	17.56	17.54	17.56	
5	64QAM	12	13	17.49	17.47	17.40	
5	64QAM	25	0	17.50	17.42	17.44	15.3
5	256QAM	1	0	14.38	14.44	14.36	
5	256QAM	1	12	14.19	14.18	14.17	
5	256QAM	1	24	14.34	14.32	14.30	
5	256QAM	12	0	14.18	14.24	14.20	15.3
5	256QAM	12	7	14.18	14.19	14.21	
5	256QAM	12	13	14.08	14.09	14.13	
5	256QAM	25	0	14.12	14.14	14.20	

Band 66 (dBm)-ANT 5							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	19.78	19.81	19.72	20.5
20	QPSK	1	49	19.50	19.62	19.47	
20	QPSK	1	99	19.58	19.58	19.55	
20	QPSK	50	0	18.70	18.75	18.73	
20	QPSK	50	24	18.63	18.71	18.70	19.5
20	QPSK	50	50	18.74	18.69	18.71	
20	QPSK	100	0	18.70	18.75	18.72	
20	16QAM	1	0	19.00	18.95	18.97	
20	16QAM	1	49	18.87	18.96	18.73	19.5
20	16QAM	1	99	18.81	18.88	18.96	
20	16QAM	50	0	17.67	17.60	17.59	
20	16QAM	50	24	17.79	17.74	17.62	
20	16QAM	50	50	17.72	17.71	17.68	18.5
20	16QAM	100	0	17.73	17.70	17.60	
20	64QAM	1	0	17.96	17.93	17.94	
20	64QAM	1	49	17.84	17.94	17.68	
20	64QAM	1	99	17.75	17.88	17.89	18.5
20	64QAM	50	0	17.64	17.59	17.59	
20	64QAM	50	24	17.71	17.69	17.61	
20	64QAM	50	50	17.64	17.65	17.65	
20	64QAM	100	0	17.75	17.64	17.53	15.5
20	256QAM	1	0	13.85	13.80	13.87	
20	256QAM	1	49	13.68	13.85	13.58	
20	256QAM	1	99	13.70	13.77	13.85	
20	256QAM	50	0	13.50	13.43	13.44	15.5
20	256QAM	50	24	13.60	13.64	13.45	
20	256QAM	50	50	13.63	13.56	13.54	
20	256QAM	100	0	13.59	13.62	13.45	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	19.40	19.60	19.56	20.5
15	QPSK	1	37	19.48	19.55	19.37	
15	QPSK	1	74	19.52	19.57	19.51	
15	QPSK	36	0	18.48	18.52	18.51	
15	QPSK	36	20	18.54	18.67	18.69	19.5
15	QPSK	36	39	18.65	18.65	18.66	
15	QPSK	75	0	18.50	18.54	18.66	
15	16QAM	1	0	18.98	18.88	18.95	
15	16QAM	1	37	18.82	18.92	18.69	19.5
15	16QAM	1	74	18.76	18.79	18.89	
15	16QAM	36	0	17.65	17.55	17.57	
15	16QAM	36	20	17.68	17.72	17.61	
15	16QAM	36	39	17.66	17.62	17.60	18.5
15	16QAM	75	0	17.66	17.62	17.50	
15	64QAM	1	0	17.91	17.89	17.87	
15	64QAM	1	37	17.75	17.84	17.64	
15	64QAM	1	74	17.64	17.83	17.87	18.5
15	64QAM	36	0	17.52	17.58	17.51	
15	64QAM	36	20	17.61	17.59	17.60	
15	64QAM	36	39	17.55	17.63	17.55	
15	64QAM	75	0	17.73	17.62	17.46	15.5
15	256QAM	1	0	13.82	13.75	13.81	
15	256QAM	1	37	13.62	13.77	13.52	
15	256QAM	1	74	13.59	13.72	13.83	
15	256QAM	36	0	13.54	13.53	13.53	15.5
15	256QAM	36	20	13.61	13.78	13.51	
15	256QAM	36	39	13.63	13.64	13.65	
15	256QAM	75	0	13.59	13.73	13.54	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	19.50	19.60	19.58	20.5
10	QPSK	1	25	19.38	19.59	19.39	
10	QPSK	1	49	19.48	19.52	19.46	
10	QPSK	25	0	18.48	18.56	18.57	
10	QPSK	25	12	18.56	18.64	18.62	19.5
10	QPSK	25	25	18.65	18.64	18.65	
10	QPSK	50	0	18.56	18.45	18.71	
10	16QAM	1	0	18.99	18.89	18.93	
10	16QAM	1	25	18.80	18.92	18.65	19.5
10	16QAM	1	49	18.77	18.83	18.88	
10	16QAM	25	0	17.55	17.57	17.51	
10	16QAM	25	12	17.76	17.68	17.57	
10	16QAM	25	25	17.61	17.68	17.61	18.5
10	16QAM	50	0	17.68	17.61	17.56	
10	64QAM	1	0	17.84	17.91	17.84	
10	64QAM	1	25	17.82	17.88	17.62	
10	64QAM	1	49	17.64	17.85	17.83	18.5
10	64QAM	25	0	17.62	17.58	17.50	
10	64QAM	25	12	17.67	17.66	17.51	
10	64QAM	25	25	17.53	17.63	17.56	
10	64QAM	50	0	17.67	17.54	17.52	15.5
10	256QAM	1	0	13.97	13.88	13.96	
10	256QAM	1	25	13.80	13.99	13.67	
10	256QAM	1	49	13.77	13.91	13.91	
10	256QAM	25	0	13.55	13.52	13.53	
10	256QAM	25	12	13.75	13.79	13.54	15.5
10	256QAM	25	25	13.69	13.66	13.67	
10	256QAM	50	0	13.72	13.70	13.55	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	19.46	19.63	19.57	20.5
5	QPSK	1	12	19.47	19.54	19.41	
5	QPSK	1	24	19.53	19.50	19.50	
5	QPSK	12	0	18.56	18.59	18.57	
5	QPSK	12	7	18.57	18.67	18.61	19.5
5	QPSK	12	13	18.68	18.65	18.64	
5	QPSK	25	0	18.52	18.51	18.71	
5	16QAM	1	0	18.94	18.91	18.94	

5	16QAM	1	12	18.75	18.92	18.67	19.5
5	16QAM	1	24	18.74	18.85	18.86	
5	16QAM	12	0	17.62	17.50	17.53	
5	16QAM	12	7	17.73	17.67	17.52	18.5
5	16QAM	12	13	17.60	17.69	17.64	
5	16QAM	25	0	17.72	17.67	17.55	
5	64QAM	1	0	17.86	17.85	17.91	
5	64QAM	1	12	17.72	17.91	17.65	18.5
5	64QAM	1	24	17.66	17.80	17.87	
5	64QAM	12	0	17.61	17.50	17.53	
5	64QAM	12	7	17.69	17.66	17.53	18.5
5	64QAM	12	13	17.62	17.64	17.61	
5	64QAM	25	0	17.63	17.63	17.48	
5	256QAM	1	0	13.97	13.89	13.95	
5	256QAM	1	12	13.74	13.91	13.67	15.5
5	256QAM	1	24	13.80	13.91	13.94	
5	256QAM	12	0	13.59	13.56	13.50	
5	256QAM	12	7	13.65	13.71	13.60	15.5
5	256QAM	12	13	13.76	13.68	13.66	
5	256QAM	25	0	13.71	13.71	13.53	
Channel				131967	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	19.46	19.56	19.53	20.5
3	QPSK	1	8	19.38	19.56	19.43	
3	QPSK	1	14	19.48	19.49	19.54	
3	QPSK	8	0	18.55	18.53	18.56	
3	QPSK	8	4	18.59	18.62	18.62	19.5
3	QPSK	8	7	18.65	18.65	18.62	
3	QPSK	15	0	18.54	18.45	18.62	
3	16QAM	1	0	18.95	18.92	18.87	
3	16QAM	1	8	18.83	18.88	18.71	19.5
3	16QAM	1	14	18.69	18.85	18.95	
3	16QAM	8	0	17.57	17.57	17.52	
3	16QAM	8	4	17.70	17.67	17.60	
3	16QAM	8	7	17.64	17.63	17.67	18.5
3	16QAM	15	0	17.63	17.61	17.55	
3	64QAM	1	0	17.95	17.86	17.93	
3	64QAM	1	8	17.82	17.89	17.66	
3	64QAM	1	14	17.70	17.82	17.79	18.5
3	64QAM	8	0	17.55	17.57	17.49	
3	64QAM	8	4	17.70	17.59	17.60	
3	64QAM	8	7	17.60	17.55	17.59	
3	64QAM	15	0	17.71	17.58	17.47	15.5
3	256QAM	1	0	13.90	13.88	14.00	
3	256QAM	1	8	13.82	13.94	13.64	
3	256QAM	1	14	13.79	13.85	13.96	
3	256QAM	8	0	13.54	13.56	13.59	15.5
3	256QAM	8	4	13.73	13.73	13.54	
3	256QAM	8	7	13.71	13.63	13.64	
3	256QAM	15	0	13.73	13.69	13.52	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	19.45	19.61	19.57	20.5
1.4	QPSK	1	3	19.48	19.56	19.45	
1.4	QPSK	1	5	19.49	19.57	19.45	
1.4	QPSK	3	0	19.59	19.57	19.71	
1.4	QPSK	3	1	19.62	19.64	19.60	19.5
1.4	QPSK	3	3	19.67	19.64	19.61	
1.4	QPSK	6	0	18.58	18.45	18.69	
1.4	16QAM	1	0	18.92	18.88	18.87	
1.4	16QAM	1	3	18.79	18.91	18.64	19.5
1.4	16QAM	1	5	18.79	18.86	18.90	
1.4	16QAM	3	0	18.56	18.78	18.57	
1.4	16QAM	3	1	18.76	18.73	18.59	
1.4	16QAM	3	3	18.63	18.66	18.65	18.5
1.4	16QAM	6	0	17.66	17.62	17.63	
1.4	64QAM	1	0	17.92	17.85	17.84	
1.4	64QAM	1	3	17.76	17.92	17.65	
1.4	64QAM	1	5	17.73	17.80	17.83	18.5
1.4	64QAM	3	0	17.66	17.61	17.57	
1.4	64QAM	3	1	17.60	17.65	17.59	
1.4	64QAM	3	3	17.60	17.61	17.64	
1.4	64QAM	6	0	17.72	17.59	17.51	18.5
1.4	256QAM	1	0	13.99	13.95	13.99	15.5
1.4	256QAM	1	3	13.74	13.94	13.73	
1.4	256QAM	1	5	13.76	13.87	13.96	
1.4	256QAM	3	0	13.63	13.51	13.54	
1.4	256QAM	3	1	13.75	13.70	13.59	15.5
1.4	256QAM	3	3	13.68	13.70	13.69	
1.4	256QAM	6	0	13.64	13.73	13.54	15.5

Band 66 (dBm)-ANT 0							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	21.31	21.34	21.25	22
20	QPSK	1	49	21.03	21.15	21.00	
20	QPSK	1	99	21.11	21.11	21.08	
20	QPSK	50	0	20.23	20.28	20.26	
20	QPSK	50	24	20.16	20.24	20.23	21
20	QPSK	50	50	20.27	20.22	20.24	
20	QPSK	100	0	20.23	20.28	20.25	
20	16QAM	1	0	20.53	20.48	20.50	
20	16QAM	1	49	20.40	20.49	20.26	21
20	16QAM	1	99	20.34	20.41	20.49	
20	16QAM	50	0	19.20	19.13	19.12	
20	16QAM	50	24	19.32	19.27	19.15	
20	16QAM	50	50	19.25	19.24	19.21	20
20	16QAM	100	0	19.26	19.23	19.13	
20	64QAM	1	0	19.49	19.46	19.47	
20	64QAM	1	49	19.37	19.47	19.21	
20	64QAM	1	99	19.28	19.41	19.42	20
20	64QAM	50	0	19.17	19.12	19.12	
20	64QAM	50	24	19.24	19.22	19.14	
20	64QAM	50	50	19.17	19.18	19.18	
20	64QAM	100	0	19.28	19.17	19.06	16
20	256QAM	1	0	15.38	15.33	15.40	
20	256QAM	1	49	15.21	15.38	15.11	
20	256QAM	1	99	15.23	15.30	15.38	
20	256QAM	50	0	15.03	14.96	14.97	16
20	256QAM	50	24	15.13	15.17	14.98	
20	256QAM	50	50	15.16	15.09	15.07	
20	256QAM	100	0	15.12	15.15	14.98	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	20.93	21.13	21.09	22
15	QPSK	1	37	21.01	21.08	20.90	
15	QPSK	1	74	21.05	21.10	21.04	
15	QPSK	36	0	20.01	20.05	20.04	
15	QPSK	36	20	20.07	20.20	20.22	21
15	QPSK	36	39	20.18	20.18	20.19	
15	QPSK	75	0	20.03	20.07	20.19	
15	16QAM	1	0	20.51	20.41	20.48	
15	16QAM	1	37	20.35	20.45	20.22	21
15	16QAM	1	74	20.29	20.32	20.42	
15	16QAM	36	0	19.18	19.08	19.10	
15	16QAM	36	20	19.21	19.25	19.14	
15	16QAM	36	39	19.19	19.15	19.13	20
15	16QAM	75	0	19.19	19.15	19.03	
15	64QAM	1	0	19.44	19.42	19.40	
15	64QAM	1	37	19.28	19.37	19.17	
15	64QAM	1	74	19.17	19.36	19.40	20
15	64QAM	36	0	19.05	19.11	19.04	
15	64QAM	36	20	19.14	19.12	19.13	
15	64QAM	36	39	19.08	19.16	19.08	
15	64QAM	75	0	19.26	19.15	18.99	16
15	256QAM	1	0	15.35	15.28	15.34	
15	256QAM	1	37	15.15	15.30	15.05	
15	256QAM	1	74	15.12	15.25	15.36	
15	256QAM	36	0	15.07	15.06	15.06	16
15	256QAM	36	20	15.14	15.31	15.04	
15	256QAM	36	39	15.16	15.17	15.18	
15	256QAM	75	0	15.12	15.26	15.07	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	21.03	21.13	21.11	22
10	QPSK	1	25	20.91	21.12	20.92	
10	QPSK	1	49	21.01	21.05	20.99	
10	QPSK	25	0	20.01	20.09	20.10	
10	QPSK	25	12	20.09	20.17	20.15	21
10	QPSK	25	25	20.18	20.17	20.18	
10	QPSK	50	0	20.09	19.98	20.24	
10	16QAM	1	0	20.52	20.42	20.46	
10	16QAM	1	25	20.33	20.45	20.18	21
10	16QAM	1	49	20.30	20.36	20.41	
10	16QAM	25	0	19.08	19.10	19.04	
10	16QAM	25	12	19.29	19.21	19.10	
10	16QAM	25	25	19.14	19.21	19.14	20
10	16QAM	50	0	19.21	19.14	19.09	
10	64QAM	1	0	19.37	19.44	19.37	
10	64QAM	1	25	19.35	19.41	19.15	
10	64QAM	1	49	19.17	19.38	19.36	20
10	64QAM	25	0	19.15	19.11	19.03	
10	64QAM	25	12	19.20	19.19	19.04	
10	64QAM	25	25	19.06	19.16	19.09	
10	64QAM	50	0	19.20	19.07	19.05	16
10	256QAM	1	0	15.50	15.41	15.49	
10	256QAM	1	25	15.33	15.52	15.20	
10	256QAM	1	49	15.30	15.44	15.44	
10	256QAM	25	0	15.08	15.05	15.06	16
10	256QAM	25	12	15.28	15.32	15.07	
10	256QAM	25	25	15.22	15.19	15.20	
10	256QAM	50	0	15.25	15.23	15.08	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	20.99	21.16	21.10	22
5	QPSK	1	12	21.00	21.07	20.94	
5	QPSK	1	24	21.06	21.03	21.03	
5	QPSK	12	0	20.09	20.12	20.10	
5	QPSK	12	7	20.10	20.20	20.14	21
5	QPSK	12	13	20.21	20.18	20.17	
5	QPSK	25	0	20.05	20.04	20.24	
5	16QAM	1	0	20.47	20.44	20.47	

Band 66 (dBm)-ANT 6									
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)		
Channel				132072	132322	132572			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	19.15	19.18	19.09	19.8		
20	QPSK	1	49	18.87	18.99	18.84			
20	QPSK	1	99	18.95	18.95	18.92			
20	QPSK	50	0	18.07	18.12	18.10			
20	QPSK	50	24	18.00	18.08	18.07	18.8		
20	QPSK	50	50	18.11	18.06	18.08			
20	QPSK	100	0	18.07	18.12	18.09			
20	16QAM	1	0	18.37	18.32	18.34			
20	16QAM	1	49	18.24	18.33	18.10	18.8		
20	16QAM	1	99	18.18	18.25	18.33			
20	16QAM	50	0	17.04	16.97	16.96			
20	16QAM	50	24	17.16	17.11	16.99			
20	16QAM	50	50	17.09	17.08	17.05	17.8		
20	16QAM	100	0	17.10	17.07	16.97			
20	64QAM	1	0	17.33	17.30	17.31			
20	64QAM	1	49	17.21	17.31	17.05			
20	64QAM	1	99	17.12	17.25	17.26	17.8		
20	64QAM	50	0	17.01	16.96	16.96			
20	64QAM	50	24	17.08	17.06	16.98			
20	64QAM	50	50	17.01	17.02	17.02			
20	64QAM	100	0	17.12	17.01	16.90	14.8		

5	16QAM	1	12	20.28	20.45	20.20	21
5	16QAM	1	24	20.27	20.38	20.39	
5	16QAM	12	0	19.15	19.03	19.06	
5	16QAM	12	7	19.26	19.20	19.05	20
5	16QAM	12	13	19.13	19.22	19.17	
5	16QAM	25	0	19.25	19.20	19.08	
5	64QAM	1	0	19.39	19.38	19.44	
5	64QAM	1	12	19.25	19.44	19.18	20
5	64QAM	1	24	19.19	19.33	19.40	
5	64QAM	12	0	19.14	19.03	19.06	
5	64QAM	12	7	19.22	19.19	19.06	20
5	64QAM	12	13	19.15	19.17	19.14	
5	64QAM	25	0	19.16	19.16	19.01	
5	256QAM	1	0	15.50	15.42	15.48	
5	256QAM	1	12	15.27	15.44	15.20	16
5	256QAM	1	24	15.33	15.44	15.47	
5	256QAM	12	0	15.12	15.09	15.03	
5	256QAM	12	7	15.18	15.24	15.13	16
5	256QAM	12	13	15.29	15.21	15.19	
5	256QAM	25	0	15.24	15.24	15.06	
Channel				131987	132322	132657	Tune-up limit
Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	20.99	21.09	21.06	
3	QPSK	1	8	20.91	21.09	20.96	22
3	QPSK	1	14	21.01	21.02	21.07	
3	QPSK	8	0	20.08	20.06	20.09	
3	QPSK	8	4	20.12	20.15	20.15	21
3	QPSK	8	7	20.18	20.18	20.15	
3	QPSK	15	0	20.07	19.98	20.15	
3	16QAM	1	0	20.48	20.45	20.40	
3	16QAM	1	8	20.36	20.41	20.24	21
3	16QAM	1	14	20.22	20.38	20.48	
3	16QAM	8	0	19.10	19.10	19.05	
3	16QAM	8	4	19.23	19.20	19.13	20
3	16QAM	8	7	19.17	19.16	19.20	
3	16QAM	15	0	19.16	19.14	19.08	
3	64QAM	1	0	19.48	19.39	19.46	
3	64QAM	1	8	19.35	19.42	19.19	20
3	64QAM	1	14	19.23	19.35	19.32	
3	64QAM	8	0	19.08	19.10	19.02	
3	64QAM	8	4	19.23	19.12	19.13	20
3	64QAM	8	7	19.13	19.08	19.12	
3	64QAM	15	0	19.24	19.11	19.00	
3	256QAM	1	0	15.43	15.41	15.53	
3	256QAM	1	8	15.35	15.47	15.17	16
3	256QAM	1	14	15.32	15.38	15.49	
3	256QAM	8	0	15.07	15.09	15.12	
3	256QAM	8	4	15.26	15.26	15.07	16
3	256QAM	8	7	15.24	15.16	15.17	
3	256QAM	15	0	15.26	15.22	15.05	
Channel				131979	132322	132665	Tune-up limit
Frequency (MHz)				1710.7	1745	1779.3	(dBm)
1.4	QPSK	1	0	20.98	21.14	21.10	
1.4	QPSK	1	3	21.01	21.09	20.98	22
1.4	QPSK	1	5	21.02	21.10	20.98	
1.4	QPSK	3	0	21.12	21.10	21.24	
1.4	QPSK	3	1	21.15	21.17	21.13	
1.4	QPSK	3	3	21.20	21.17	21.14	
1.4	QPSK	6	0	20.11	19.98	20.22	21
1.4	16QAM	1	0	20.45	20.41	20.40	
1.4	16QAM	1	3	20.32	20.44	20.17	
1.4	16QAM	1	5	20.32	20.39	20.43	21
1.4	16QAM	3	0	20.09	20.31	20.10	
1.4	16QAM	3	1	20.29	20.26	20.12	
1.4	16QAM	3	3	20.16	20.19	20.18	
1.4	16QAM	6	0	19.19	19.15	19.16	20
1.4	64QAM	1	0	19.45	19.38	19.37	
1.4	64QAM	1	3	19.29	19.45	19.18	
1.4	64QAM	1	5	19.26	19.33	19.36	20
1.4	64QAM	3	0	19.19	19.14	19.10	
1.4	64QAM	3	1	19.13	19.18	19.12	
1.4	64QAM	3	3	19.13	19.14	19.17	
1.4	64QAM	6	0	19.25	19.12	19.04	20
1.4	256QAM	1	0	15.52	15.48	15.52	
1.4	256QAM	1	3	15.27	15.47	15.26	
1.4	256QAM	1	5	15.29	15.40	15.51	16
1.4	256QAM	3	0	15.16	15.04	15.07	
1.4	256QAM	3	1	15.28	15.23	15.12	
1.4	256QAM	3	3	15.21	15.23	15.22	
1.4	256QAM	6	0	15.17	15.26	15.07	16

5	16QAM	1	12	18.12	18.29	18.04	18.8
5	16QAM	1	24	18.11	18.22	18.23	
5	16QAM	12	0	16.99	16.87	16.90	
5	16QAM	12	7	17.10	17.04	16.89	17.8
5	16QAM	12	13	16.97	17.06	17.01	
5	16QAM	25	0	17.09	17.04	16.92	
5	64QAM	1	0	17.23	17.22	17.28	
5	64QAM	1	12	17.09	17.28	17.02	17.8
5	64QAM	1	24	17.03	17.17	17.24	
5	64QAM	12	0	16.98	16.87	16.90	
5	64QAM	12	7	17.06	17.03	16.90	17.8
5	64QAM	12	13	16.99	17.01	16.98	
5	64QAM	25	0	17.00	17.00	16.85	
5	256QAM	1	0	13.34	13.26	13.32	
5	256QAM	1	12	13.11	13.28	13.04	14.8
5	256QAM	1	24	13.17	13.28	13.31	
5	256QAM	12	0	12.96	12.93	12.87	
5	256QAM	12	7	13.02	13.08	12.97	14.8
5	256QAM	12	13	13.13	13.05	13.03	
5	256QAM	25	0	13.08	13.08	12.90	
Channel				131987	132322	132657	Tune-up limit
Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	18.83	18.93	18.90	
3	QPSK	1	8	18.75	18.93	18.80	19.8
3	QPSK	1	14	18.85	18.86	18.91	
3	QPSK	8	0	17.92	17.90	17.93	
3	QPSK	8	4	17.96	17.99	17.99	18.8
3	QPSK	8	7	18.02	18.02	17.99	
3	QPSK	15	0	17.91	17.82	17.99	
3	16QAM	1	0	18.32	18.29	18.24	
3	16QAM	1	8	18.20	18.25	18.08	18.8
3	16QAM	1	14	18.06	18.22	18.32	
3	16QAM	8	0	16.94	16.94	16.89	
3	16QAM	8	4	17.07	17.04	16.97	17.8
3	16QAM	8	7	17.01	17.00	17.04	
3	16QAM	15	0	17.00	16.98	16.92	
3	64QAM	1	0	17.32	17.23	17.30	
3	64QAM	1	8	17.19	17.26	17.03	17.8
3	64QAM	1	14	17.07	17.19	17.16	
3	64QAM	8	0	16.92	16.94	16.86	
3	64QAM	8	4	17.07	16.96	16.97	17.8
3	64QAM	8	7	16.97	16.92	16.96	
3	64QAM	15	0	17.08	16.95	16.84	
3	256QAM	1	0	13.27	13.25	13.37	
3	256QAM	1	8	13.19	13.31	13.01	14.8
3	256QAM	1	14	13.16	13.22	13.33	
3	256QAM	8	0	12.91	12.93	12.96	
3	256QAM	8	4	13.10	13.10	12.91	14.8
3	256QAM	8	7	13.08	13.00	13.01	
3	256QAM	15	0	13.10	13.06	12.89	
Channel				131979	132322	132665	Tune-up limit
Frequency (MHz)				1710.7	1745	1779.3	(dBm)
1.4	QPSK	1	0	18.82	18.98	18.94	
1.4	QPSK	1	3	18.85	18.93	18.82	19.8
1.4	QPSK	1	5	18.86	18.94	18.82	
1.4	QPSK	3	0	18.96	18.94	19.08	
1.4	QPSK	3	1	18.99	19.01	18.97	
1.4	QPSK	3	3	19.04	19.01	18.98	
1.4	QPSK	6	0	17.95	17.82	18.06	18.8
1.4	16QAM	1	0	18.29	18.25	18.24	
1.4	16QAM	1	3	18.16	18.28	18.01	
1.4	16QAM	1	5	18.16	18.23	18.27	18.8
1.4	16QAM	3	0	17.93	18.15	17.94	
1.4	16QAM	3	1	18.13	18.10	17.96	
1.4	16QAM	3	3	18.00	18.03	18.02	
1.4	16QAM	6	0	17.03	16.99	17.00	17.8
1.4	64QAM	1	0	17.29	17.22	17.21	
1.4	64QAM	1	3	17.13	17.29	17.02	
1.4	64QAM	1	5	17.10	17.17	17.20	17.8
1.4	64QAM	3	0	17.03	16.98	16.94	
1.4	64QAM	3	1	16.97	17.02	16.96	
1.4	64QAM	3	3	16.97	16.98	17.01	
1.4	64QAM	6	0	17.09	16.96	16.88	17.8
1.4	256QAM	1	0	13.36	13.32	13.36	
1.4	256QAM	1	3	13.11	13.31	13.10	
1.4	256QAM	1	5	13.13	13.24	13.35	14.8
1.4	256QAM	3	0	13.00	12.88	12.91	
1.4	256QAM	3	1	13.12	13.07	12.96	
1.4	256QAM	3	3	13.05	13.07	13.06	
1.4	256QAM	6	0	13.01	13.10	12.91	14.8

Band 66 (dBm)-ANT 4							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	20.22	20.25	20.16	20.9
20	QPSK	1	49	19.94	20.06	19.91	
20	QPSK	1	99	20.02	20.02	19.99	
20	QPSK	50	0	19.14	19.19	19.17	
20	QPSK	50	24	19.07	19.15	19.14	19.9
20	QPSK	50	50	19.18	19.13	19.15	
20	QPSK	100	0	19.14	19.19	19.16	
20	16QAM	1	0	19.44	19.39	19.41	
20	16QAM	1	49	19.31	19.40	19.17	19.9
20	16QAM	1	99	19.25	19.32	19.40	
20	16QAM	50	0	18.11	18.04	18.03	
20	16QAM	50	24	18.23	18.18	18.06	
20	16QAM	50	50	18.16	18.15	18.12	18.9
20	16QAM	100	0	18.17	18.14	18.04	
20	64QAM	1	0	18.40	18.37	18.38	
20	64QAM	1	49	18.28	18.38	18.12	
20	64QAM	1	99	18.19	18.32	18.33	18.9
20	64QAM	50	0	18.08	18.03	18.03	
20	64QAM	50	24	18.15	18.13	18.05	
20	64QAM	50	50	18.08	18.09	18.09	
20	64QAM	100	0	18.19	18.08	17.97	15.9
20	256QAM	1	0	14.29	14.24	14.31	
20	256QAM	1	49	14.12	14.29	14.02	
20	256QAM	1	99	14.14	14.21	14.29	
20	256QAM	50	0	13.94	13.87	13.88	15.9
20	256QAM	50	24	14.04	14.08	13.89	
20	256QAM	50	50	14.07	14.00	13.98	
20	256QAM	100	0	14.03	14.06	13.89	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	19.84	20.04	20.00	20.9
15	QPSK	1	37	19.92	19.99	19.81	
15	QPSK	1	74	19.96	20.01	19.95	
15	QPSK	36	0	18.92	18.96	18.95	
15	QPSK	36	20	18.98	19.11	19.13	19.9
15	QPSK	36	39	19.09	19.09	19.10	
15	QPSK	75	0	18.94	18.98	19.10	
15	16QAM	1	0	19.42	19.32	19.39	
15	16QAM	1	37	19.26	19.36	19.13	19.9
15	16QAM	1	74	19.20	19.23	19.33	
15	16QAM	36	0	18.09	17.99	18.01	
15	16QAM	36	20	18.12	18.16	18.05	
15	16QAM	36	39	18.10	18.06	18.04	18.9
15	16QAM	75	0	18.10	18.06	17.94	
15	64QAM	1	0	18.35	18.33	18.31	
15	64QAM	1	37	18.19	18.28	18.08	
15	64QAM	1	74	18.08	18.27	18.31	18.9
15	64QAM	36	0	17.96	18.02	17.95	
15	64QAM	36	20	18.05	18.03	18.04	
15	64QAM	36	39	17.99	18.07	17.99	
15	64QAM	75	0	18.17	18.06	17.90	15.9
15	256QAM	1	0	14.26	14.19	14.25	
15	256QAM	1	37	14.06	14.21	13.96	
15	256QAM	1	74	14.03	14.16	14.27	
15	256QAM	36	0	13.98	13.97	13.97	15.9
15	256QAM	36	20	14.05	14.22	13.95	
15	256QAM	36	39	14.07	14.08	14.09	
15	256QAM	75	0	14.03	14.17	13.98	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	19.94	20.04	20.02	20.9
10	QPSK	1	25	19.82	20.03	19.83	
10	QPSK	1	49	19.92	19.96	19.90	
10	QPSK	25	0	18.92	19.00	19.01	
10	QPSK	25	12	19.00	19.08	19.06	19.9
10	QPSK	25	25	19.09	19.08	19.09	
10	QPSK	50	0	19.00	18.89	19.15	
10	16QAM	1	0	19.43	19.33	19.37	
10	16QAM	1	25	19.24	19.36	19.09	19.9
10	16QAM	1	49	19.21	19.27	19.32	
10	16QAM	25	0	17.99	18.01	17.95	
10	16QAM	25	12	18.20	18.12	18.01	
10	16QAM	25	25	18.05	18.12	18.05	18.9
10	16QAM	50	0	18.12	18.05	18.00	
10	64QAM	1	0	18.28	18.35	18.28	
10	64QAM	1	25	18.26	18.32	18.06	
10	64QAM	1	49	18.08	18.29	18.27	18.9
10	64QAM	25	0	18.06	18.02	17.94	
10	64QAM	25	12	18.11	18.10	17.95	
10	64QAM	25	25	17.97	18.07	18.00	
10	64QAM	50	0	18.11	17.98	17.96	15.9
10	256QAM	1	0	14.41	14.32	14.40	
10	256QAM	1	25	14.24	14.43	14.11	
10	256QAM	1	49	14.21	14.35	14.35	
10	256QAM	25	0	13.99	13.96	13.97	15.9
10	256QAM	25	12	14.19	14.23	13.98	
10	256QAM	25	25	14.13	14.10	14.11	
10	256QAM	50	0	14.16	14.14	13.99	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	19.90	20.07	20.01	20.9
5	QPSK	1	12	19.91	19.98	19.85	
5	QPSK	1	24	19.97	19.94	19.94	
5	QPSK	12	0	19.00	19.03	19.01	
5	QPSK	12	7	19.01	19.11	19.05	19.9
5	QPSK	12	13	19.12	19.09	19.08	
5	QPSK	25	0	18.96	18.95	19.15	
5	16QAM	1	0	19.38	19.35	19.38	

5	16QAM	1	12	19.19	19.36	19.11	19.9
5	16QAM	1	24	19.18	19.29	19.30	
5	16QAM	12	0	18.06	17.94	17.97	
5	16QAM	12	7	18.17	18.11	17.96	18.9
5	16QAM	12	13	18.04	18.13	18.08	
5	16QAM	25	0	18.16	18.11	17.99	
5	64QAM	1	0	18.30	18.29	18.35	
5	64QAM	1	12	18.16	18.35	18.09	18.9
5	64QAM	1	24	18.10	18.24	18.31	
5	64QAM	12	0	18.05	17.94	17.97	
5	64QAM	12	7	18.13	18.10	17.97	18.9
5	64QAM	12	13	18.06	18.08	18.05	
5	64QAM	25	0	18.07	18.07	17.92	
5	256QAM	1	0	14.41	14.33	14.39	
5	256QAM	1	12	14.18	14.35	14.11	15.9
5	256QAM	1	24	14.24	14.35	14.38	
5	256QAM	12	0	14.03	14.00	13.94	
5	256QAM	12	7	14.09	14.15	14.04	15.9
5	256QAM	12	13	14.20	14.12	14.10	
5	256QAM	25	0	14.15	14.15	13.97	
Channel				131987	132322	132657	Tune-up limit
Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	19.90	20.00	19.97	
3	QPSK	1	8	19.82	20.00	19.87	20.9
3	QPSK	1	14	19.92	19.93	19.98	
3	QPSK	8	0	18.99	18.97	19.00	
3	QPSK	8	4	19.03	19.06	19.06	19.9
3	QPSK	8	7	19.09	19.09	19.06	
3	QPSK	15	0	18.98	18.89	19.06	
3	16QAM	1	0	19.39	19.36	19.31	
3	16QAM	1	8	19.27	19.32	19.15	19.9
3	16QAM	1	14	19.13	19.29	19.39	
3	16QAM	8	0	18.01	18.01	17.96	
3	16QAM	8	4	18.14	18.11	18.04	18.9
3	16QAM	8	7	18.08	18.07	18.11	
3	16QAM	15	0	18.07	18.05	17.99	
3	64QAM	1	0	18.39	18.30	18.37	
3	64QAM	1	8	18.26	18.33	18.10	18.9
3	64QAM	1	14	18.14	18.26	18.23	
3	64QAM	8	0	17.99	18.01	17.93	
3	64QAM	8	4	18.14	18.03	18.04	18.9
3	64QAM	8	7	18.04	17.99	18.03	
3	64QAM	15	0	18.15	18.02	17.91	
3	256QAM	1	0	14.34	14.32	14.44	
3	256QAM	1	8	14.26	14.38	14.08	15.9
3	256QAM	1	14	14.23	14.29	14.40	
3	256QAM	8	0	13.98	14.00	14.03	
3	256QAM	8	4	14.17	14.17	13.98	15.9
3	256QAM	8	7	14.15	14.07	14.06	
3	256QAM	15	0	14.17	14.13	13.96	
Channel				131979	132322	132665	Tune-up limit
Frequency (MHz)				1710.7	1745	1779.3	(dBm)
1.4	QPSK	1	0	19.89	20.05	20.01	
1.4	QPSK	1	3	19.92	20.00	19.89	20.9
1.4	QPSK	1	5	19.93	20.01	19.89	
1.4	QPSK	3	0	20.03	20.01	20.15	
1.4	QPSK	3	1	20.06	20.08	20.04	
1.4	QPSK	3	3	20.11	20.08	20.05	
1.4	QPSK	6	0	19.02	18.89	19.13	19.9
1.4	16QAM	1	0	19.36	19.32	19.31	
1.4	16QAM	1	3	19.23	19.35	19.08	
1.4	16QAM	1	5	19.23	19.30	19.34	19.9
1.4	16QAM	3	0	19.00	19.22	19.01	
1.4	16QAM	3	1	19.20	19.17	19.03	
1.4	16QAM	3	3	19.07	19.10	19.09	
1.4	16QAM	6	0	18.10	18.06	18.07	18.9
1.4	64QAM	1	0	18.36	18.29	18.28	
1.4	64QAM	1	3	18.20	18.36	18.09	
1.4	64QAM	1	5	18.17	18.24	18.27	18.9
1.4	64QAM	3	0	18.10	18.05	18.01	
1.4	64QAM	3	1	18.04	18.09	18.03	
1.4	64QAM	3	3	18.04	18.05	18.08	
1.4	64QAM	6	0	18.16	18.03	17.95	18.9
1.4	256QAM	1	0	14.43	14.39	14.43	
1.4	256QAM	1	3	14.18	14.38	14.17	
1.4	256QAM	1	5	14.20	14.31	14.42	15.9
1.4	256QAM	3	0	14.07	13.95	13.98	
1.4	256QAM	3	1	14.19	14.14	14.03	
1.4	256QAM	3	3	14.12	14.14	14.13	
1.4	256QAM	6	0	14.08	14.17	13.98	15.9



5	16QAM	1	12	20.75	20.77	20.78	21.5
5	16QAM	1	24	20.67	20.62	20.59	
5	16QAM	12	0	19.68	19.72	19.57	
5	16QAM	12	7	19.77	19.73	19.74	20.5
5	16QAM	12	13	19.60	19.63	19.58	
5	16QAM	25	0	19.63	19.66	19.62	
5	64QAM	1	0	19.74	19.82	19.71	20.5
5	64QAM	1	12	19.55	19.61	19.65	
5	64QAM	1	24	19.62	19.64	19.68	
5	64QAM	12	0	19.56	19.65	19.64	20.5
5	64QAM	12	7	19.68	19.61	19.60	
5	64QAM	12	13	19.49	19.56	19.44	
5	64QAM	25	0	19.40	19.56	19.44	17.5
5	256QAM	1	0	15.73	15.77	15.72	
5	256QAM	1	12	15.59	15.65	15.72	
5	256QAM	1	24	15.61	15.63	15.63	17.5
5	256QAM	12	0	15.60	15.63	15.60	
5	256QAM	12	7	15.77	15.79	15.71	
5	256QAM	12	13	15.71	15.74	15.58	17.5
5	256QAM	25	0	15.61	15.79	15.66	

5	16QAM	1	12	20.34	20.36	20.37	21.1
5	16QAM	1	24	20.26	20.21	20.18	
5	16QAM	12	0	19.27	19.31	19.16	
5	16QAM	12	7	19.36	19.32	19.33	20.1
5	16QAM	12	13	19.19	19.22	19.17	
5	16QAM	25	0	19.22	19.25	19.21	
5	64QAM	1	0	19.33	19.41	19.30	20.1
5	64QAM	1	12	19.14	19.20	19.24	
5	64QAM	1	24	19.21	19.23	19.27	
5	64QAM	12	0	19.15	19.24	19.23	20.1
5	64QAM	12	7	19.27	19.20	19.19	
5	64QAM	12	13	19.08	19.15	19.03	
5	64QAM	25	0	18.99	19.15	19.03	16.1
5	256QAM	1	0	15.32	15.36	15.31	
5	256QAM	1	12	15.18	15.24	15.31	
5	256QAM	1	24	15.20	15.22	15.22	16.1
5	256QAM	12	0	15.19	15.22	15.19	
5	256QAM	12	7	15.36	15.38	15.30	
5	256QAM	12	13	15.30	15.33	15.17	16.1
5	256QAM	25	0	15.20	15.38	15.25	



5	16QAM	1	12	21.95	21.97	21.98	22.5
5	16QAM	1	24	21.87	21.82	21.79	
5	16QAM	12	0	20.88	20.92	20.77	
5	16QAM	12	7	20.97	20.93	20.94	21.5
5	16QAM	12	13	20.80	20.83	20.78	
5	16QAM	25	0	20.83	20.86	20.82	
5	64QAM	1	0	20.94	21.02	20.91	21.5
5	64QAM	1	12	20.75	20.81	20.85	
5	64QAM	1	24	20.82	20.84	20.88	
5	64QAM	12	0	20.76	20.85	20.84	21.5
5	64QAM	12	7	20.88	20.81	20.80	
5	64QAM	12	13	20.69	20.76	20.64	
5	64QAM	25	0	20.60	20.76	20.64	18.5
5	256QAM	1	0	16.93	16.97	16.92	
5	256QAM	1	12	16.79	16.85	16.92	
5	256QAM	1	24	16.81	16.83	16.83	18.5
5	256QAM	12	0	16.80	16.83	16.80	
5	256QAM	12	7	16.97	16.99	16.91	
5	256QAM	12	13	16.91	16.94	16.78	18.5
5	256QAM	25	0	16.81	16.99	16.86	

5	16QAM	1	12	21.16	21.18	21.19	21.8
5	16QAM	1	24	21.08	21.03	21.00	
5	16QAM	12	0	20.09	20.13	19.98	20.8
5	16QAM	12	7	20.18	20.14	20.15	
5	16QAM	12	13	20.01	20.04	19.99	
5	16QAM	25	0	20.04	20.07	20.03	20.8
5	64QAM	1	0	20.15	20.23	20.12	
5	64QAM	1	12	19.96	20.02	20.06	
5	64QAM	1	24	20.03	20.05	20.09	20.8
5	64QAM	12	0	19.97	20.06	20.05	
5	64QAM	12	7	20.09	20.02	20.01	
5	64QAM	12	13	19.80	19.97	19.85	17.8
5	64QAM	25	0	19.81	19.97	19.85	
5	256QAM	1	0	16.14	16.18	16.13	
5	256QAM	1	12	16.00	16.06	16.13	17.8
5	256QAM	1	24	16.02	16.04	16.04	
5	256QAM	12	0	16.01	16.04	16.01	
5	256QAM	12	7	16.18	16.20	16.12	17.8
5	256QAM	12	13	16.12	16.15	15.99	
5	256QAM	25	0	16.02	16.20	16.07	



CA_7C Ant 5

Combination:20MHz+20MHz(100RB+100RB)

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PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
20850	20850	21048	QPSK	1	0	0	0	1	0	18.06	18.80
21100	21001	21199	QPSK	1	0	0	0	1	0	18.10	18.80
21350	21152	21350	QPSK	1	0	0	0	1	0	18.08	18.80
20850	20850	21048	16QAM	1	0	0	0	1	0	17.16	17.80
21100	21001	21199	16QAM	1	0	0	0	1	0	17.17	17.80
21350	21152	21350	16QAM	1	0	0	0	1	0	17.13	17.80
20850	20850	21048	64QAM	1	0	0	0	1	0	16.19	16.80
21100	21001	21199	64QAM	1	0	0	0	1	0	16.30	16.80
21350	21152	21350	64QAM	1	0	0	0	1	0	16.16	16.80
20850	20850	21048	256QAM	1	0	0	0	1	0	13.11	13.80
21100	21001	21199	256QAM	1	0	0	0	1	0	13.12	13.80
21350	21152	21350	256QAM	1	0	0	0	1	0	13.05	13.80
20850	20850	21048	QPSK	50	0	0	0	1	0	17.10	17.80
21100	21001	21199	QPSK	50	0	0	0	1	0	17.17	17.80
21350	21152	21350	QPSK	50	0	0	0	1	0	17.08	17.80

CA_7C Ant 0

Combination:20MHz+20MHz(100RB+100RB)

PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
20850	20850	21048	QPSK	1	0	0	0	1	0	18.59	19.30
21100	21001	21199	QPSK	1	0	0	0	1	0	18.60	19.30
21350	21152	21350	QPSK	1	0	0	0	1	0	18.50	19.30
20850	20850	21048	16QAM	1	0	0	0	1	0	17.69	18.30
21100	21001	21199	16QAM	1	0	0	0	1	0	17.80	18.30
21350	21152	21350	16QAM	1	0	0	0	1	0	17.73	18.30
20850	20850	21048	64QAM	1	0	0	0	1	0	16.76	17.30
21100	21001	21199	64QAM	1	0	0	0	1	0	16.77	17.30
21350	21152	21350	64QAM	1	0	0	0	1	0	16.72	17.30
20850	20850	21048	256QAM	1	0	0	0	1	0	13.61	14.30
21100	21001	21199	256QAM	1	0	0	0	1	0	13.63	14.30
21350	21152	21350	256QAM	1	0	0	0	1	0	13.62	14.30
20850	20850	21048	QPSK	50	0	0	0	1	0	17.68	18.30
21100	21001	21199	QPSK	50	0	0	0	1	0	17.76	18.30
21350	21152	21350	QPSK	50	0	0	0	1	0	17.67	18.30

CA_12B Ant 1

Combination:5MHz+10MHz(25RB+50RB)

PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
23060	23038	23110	QPSK	1	0	0	0	1	0	23.06	23.80
23095	23048	23120	QPSK	1	0	0	0	1	0	23.13	23.80
23130	23058	23130	QPSK	1	0	0	0	1	0	23.04	23.80
23060	23038	23110	16QAM	1	0	0	0	1	0	22.08	22.80
23095	23048	23120	16QAM	1	0	0	0	1	0	22.10	22.80
23130	23058	23130	16QAM	1	0	0	0	1	0	22.06	22.80
23060	23038	23110	64QAM	1	0	0	0	1	0	21.19	21.80
23095	23048	23120	64QAM	1	0	0	0	1	0	21.23	21.80
23130	23058	23130	64QAM	1	0	0	0	1	0	21.14	21.80
23060	23038	23110	256QAM	1	0	0	0	1	0	18.11	18.80
23095	23048	23120	256QAM	1	0	0	0	1	0	18.15	18.80
23130	23058	23130	256QAM	1	0	0	0	1	0	18.12	18.80
23060	23038	23110	QPSK	25	0	0	0	1	0	22.00	22.80
23095	23048	23120	QPSK	25	0	0	0	1	0	22.09	22.80
23130	23058	23130	QPSK	25	0	0	0	1	0	22.07	22.80

CA_12B Ant 0

Combination:5MHz+10MHz(25RB+50RB)

PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
23060	23038	23110	QPSK	1	0	0	0	1	0	22.32	23.10
23095	23048	23120	QPSK	1	0	0	0	1	0	22.40	23.10
23130	23058	23130	QPSK	1	0	0	0	1	0	22.28	23.10
23060	23038	23110	16QAM	1	0	0	0	1	0	21.37	22.10

2-MORLAB	23048	23120	16QAM	1	0	0	0	1	0	21.43	22.10
23130	23058	23130	16QAM	1	0	0	0	1	0	21.39	22.10
23060	23038	23110	64QAM	1	0	0	0	1	0	20.29	21.10
23095	23048	23120	64QAM	1	0	0	0	1	0	20.37	21.10
23130	23058	23130	64QAM	1	0	0	0	1	0	20.38	21.10
23060	23038	23110	256QAM	1	0	0	0	1	0	17.32	18.10
23095	23048	23120	256QAM	1	0	0	0	1	0	17.29	18.10
23130	23058	23130	256QAM	1	0	0	0	1	0	17.27	18.10
23060	23038	23110	QPSK	25	0	0	0	1	0	21.31	22.10
23095	23048	23120	QPSK	25	0	0	0	1	0	21.34	22.10
23130	23058	23130	QPSK	25	0	0	0	1	0	21.28	22.10

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CA_38C Ant 5											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
37850	37850	38048	QPSK	1	0	0	0	1	0	20.72	21.30
38000	37901	38099	QPSK	1	0	0	0	1	0	20.75	21.30
38150	37952	38150	QPSK	1	0	0	0	1	0	20.73	21.30
37850	37850	38048	16QAM	1	0	0	0	1	0	19.84	20.30
38000	37901	38099	16QAM	1	0	0	0	1	0	19.89	20.30
38150	37952	38150	16QAM	1	0	0	0	1	0	19.88	20.30
37850	37850	38048	64QAM	1	0	0	0	1	0	18.61	19.30
38000	37901	38099	64QAM	1	0	0	0	1	0	18.64	19.30
38150	37952	38150	64QAM	1	0	0	0	1	0	18.62	19.30
37850	37850	38048	256QAM	1	0	0	0	1	0	15.68	16.30
38000	37901	38099	256QAM	1	0	0	0	1	0	15.72	16.30
38150	37952	38150	256QAM	1	0	0	0	1	0	15.70	16.30
37850	37850	38048	QPSK	50	0	0	0	1	0	19.63	20.30
38000	37901	38099	QPSK	50	0	0	0	1	0	19.65	20.30
38150	37952	38150	QPSK	50	0	0	0	1	0	19.64	20.30

CA_38C Ant 0											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
37850	37850	38048	QPSK	1	0	0	0	1	0	20.14	20.80
38000	37901	38099	QPSK	1	0	0	0	1	0	20.23	20.80
38150	37952	38150	QPSK	1	0	0	0	1	0	20.19	20.80
37850	37850	38048	16QAM	1	0	0	0	1	0	19.18	19.80
38000	37901	38099	16QAM	1	0	0	0	1	0	19.21	19.80
38150	37952	38150	16QAM	1	0	0	0	1	0	19.17	19.80
37850	37850	38048	64QAM	1	0	0	0	1	0	18.16	18.80
38000	37901	38099	64QAM	1	0	0	0	1	0	18.24	18.80
38150	37952	38150	64QAM	1	0	0	0	1	0	18.19	18.80
37850	37850	38048	256QAM	1	0	0	0	1	0	15.10	15.80
38000	37901	38099	256QAM	1	0	0	0	1	0	15.16	15.80
38150	37952	38150	256QAM	1	0	0	0	1	0	15.09	15.80
37850	37850	38048	QPSK	50	0	0	0	1	0	19.16	19.80
38000	37901	38099	QPSK	50	0	0	0	1	0	19.17	19.80
38150	37952	38150	QPSK	50	0	0	0	1	0	19.12	19.80

CA_41C Ant 5 (PC3)											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	21.41	22.10
40620	40521	40719	QPSK	1	0	0	0	1	0	21.48	22.10
41490	41292	41490	QPSK	1	0	0	0	1	0	21.43	22.10
39750	39750	39948	16QAM	1	0	0	0	1	0	20.54	21.10
40620	40521	40719	16QAM	1	0	0	0	1	0	20.63	21.10
41490	41292	41490	16QAM	1	0	0	0	1	0	20.61	21.10
39750	39750	39948	64QAM	1	0	0	0	1	0	19.58	20.10
40620	40521	40719	64QAM	1	0	0	0	1	0	19.64	20.10
41490	41292	41490	64QAM	1	0	0	0	1	0	19.56	20.10
39750	39750	39948	256QAM	1	0	0	0	1	0	16.41	17.10
40620	40521	40719	256QAM	1	0	0	0	1	0	16.54	17.10
41490	41292	41490	256QAM	1	0	0	0	1	0	16.45	17.10

3-MORLAB	39750	39948	QPSK	50	0	0	0	1	0	20.56	21.10
40620	40521	40719	QPSK	50	0	0	0	1	0	20.68	21.10
41490	41292	41490	QPSK	50	0	0	0	1	0	20.52	21.10

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CA_41C Ant 0 (PC3)											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	21.64	22.30
40620	40521	40719	QPSK	1	0	0	0	1	0	21.73	22.30
41490	41292	41490	QPSK	1	0	0	0	1	0	21.69	22.30
39750	39750	39948	16QAM	1	0	0	0	1	0	20.82	21.30
40620	40521	40719	16QAM	1	0	0	0	1	0	20.88	21.30
41490	41292	41490	16QAM	1	0	0	0	1	0	20.87	21.30
39750	39750	39948	64QAM	1	0	0	0	1	0	19.75	20.30
40620	40521	40719	64QAM	1	0	0	0	1	0	19.85	20.30
41490	41292	41490	64QAM	1	0	0	0	1	0	19.79	20.30
39750	39750	39948	256QAM	1	0	0	0	1	0	15.83	17.30
40620	40521	40719	256QAM	1	0	0	0	1	0	15.94	17.30
41490	41292	41490	256QAM	1	0	0	0	1	0	15.88	17.30
39750	39750	39948	QPSK	50	0	0	0	1	0	20.79	21.30
40620	40521	40719	QPSK	50	0	0	0	1	0	20.86	21.30
41490	41292	41490	QPSK	50	0	0	0	1	0	20.82	21.30

CA_41C Ant 5 (PC2)											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	22.44	23.10
40620	40521	40719	QPSK	1	0	0	0	1	0	22.51	23.10
41490	41292	41490	QPSK	1	0	0	0	1	0	22.46	23.10
39750	39750	39948	16QAM	1	0	0	0	1	0	21.57	22.10
40620	40521	40719	16QAM	1	0	0	0	1	0	21.66	22.10
41490	41292	41490	16QAM	1	0	0	0	1	0	21.64	22.10
39750	39750	39948	64QAM	1	0	0	0	1	0	20.61	21.10
40620	40521	40719	64QAM	1	0	0	0	1	0	20.67	21.10
41490	41292	41490	64QAM	1	0	0	0	1	0	20.59	21.10
39750	39750	39948	256QAM	1	0	0	0	1	0	17.44	18.10
40620	40521	40719	256QAM	1	0	0	0	1	0	17.57	18.10
41490	41292	41490	256QAM	1	0	0	0	1	0	17.48	18.10
39750	39750	39948	QPSK	50	0	0	0	1	0	21.59	22.10
40620	40521	40719	QPSK	50	0	0	0	1	0	21.71	22.10
41490	41292	41490	QPSK	50	0	0	0	1	0	24.25	24.80

CA_41C Ant 0 (PC2)											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	22.59	23.30
40620	40521	40719	QPSK	1	0	0	0	1	0	22.68	23.30
41490	41292	41490	QPSK	1	0	0	0	1	0	22.64	23.30
39750	39750	39948	16QAM	1	0	0	0	1	0	21.77	22.30
40620	40521	40719	16QAM	1	0	0	0	1	0	21.83	22.30
41490	41292	41490	16QAM	1	0	0	0	1	0	21.82	22.30
39750	39750	39948	64QAM	1	0	0	0	1	0	20.70	21.30
40620	40521	40719	64QAM	1	0	0	0	1	0	20.80	21.30
41490	41292	41490	64QAM	1	0	0	0	1	0	20.74	21.30
39750	39750	39948	256QAM	1	0	0	0	1	0	17.72	18.30
40620	40521	40719	256QAM	1	0	0	0	1	0	17.76	18.30
41490	41292	41490	256QAM	1	0	0	0	1	0	17.67	18.30
39750	39750	39948	QPSK	50	0	0	0	1	0	21.74	22.30
40620	40521	40719	QPSK	50	0	0	0	1	0	21.81	22.30
41490	41292	41490	QPSK	50	0	0	0	1	0	21.77	22.30

CA_48C Ant 8											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
55340	55340	55538	QPSK	1	0	0	0	1	0	17.09	17.80

5-MORLAB	55891	56089	QPSK	1	0	0	0	1	0	17.22	17.80
56640	56442	56640	QPSK	1	0	0	0	1	0	17.18	17.80
55340	55340	55538	16QAM	1	0	0	0	1	0	16.13	16.80
55990	55891	56089	16QAM	1	0	0	0	1	0	16.22	16.80
56640	56442	56640	16QAM	1	0	0	0	1	0	16.19	16.80
55340	55340	55538	64QAM	1	0	0	0	1	0	15.10	15.80
55990	55891	56089	64QAM	1	0	0	0	1	0	15.21	15.80
56640	56442	56640	64QAM	1	0	0	0	1	0	15.16	15.80
55340	55340	55538	256QAM	1	0	0	0	1	0	12.13	12.80
55990	55891	56089	256QAM	1	0	0	0	1	0	12.14	12.80
56640	56442	56640	256QAM	1	0	0	0	1	0	12.12	12.80
55340	55340	55538	QPSK	50	0	0	0	1	0	16.16	16.80
55990	55891	56089	QPSK	50	0	0	0	1	0	16.25	16.80
56640	56442	56640	QPSK	50	0	0	0	1	0	16.17	16.80

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CA_48C Ant 9											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
55340	55340	55538	QPSK	1	0	0	0	1	0	18.85	19.60
55990	55891	56089	QPSK	1	0	0	0	1	0	18.88	19.60
56640	56442	56640	QPSK	1	0	0	0	1	0	18.81	19.60
55340	55340	55538	16QAM	1	0	0	0	1	0	17.90	18.60
55990	55891	56089	16QAM	1	0	0	0	1	0	17.93	18.60
56640	56442	56640	16QAM	1	0	0	0	1	0	17.86	18.60
55340	55340	55538	64QAM	1	0	0	0	1	0	16.86	17.60
55990	55891	56089	64QAM	1	0	0	0	1	0	16.91	17.60
56640	56442	56640	64QAM	1	0	0	0	1	0	16.87	17.60
55340	55340	55538	256QAM	1	0	0	0	1	0	13.74	14.60
55990	55891	56089	256QAM	1	0	0	0	1	0	13.80	14.60
56640	56442	56640	256QAM	1	0	0	0	1	0	13.75	14.60
55340	55340	55538	QPSK	50	0	0	0	1	0	17.80	18.60
55990	55891	56089	QPSK	50	0	0	0	1	0	17.88	18.60
56640	56442	56640	QPSK	50	0	0	0	1	0	17.75	18.60

CA_48C Ant 4											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
55340	55340	55538	QPSK	1	0	0	0	1	0	19.81	20.50
55990	55891	56089	QPSK	1	0	0	0	1	0	19.86	20.50
56640	56442	56640	QPSK	1	0	0	0	1	0	19.76	20.50
55340	55340	55538	16QAM	1	0	0	0	1	0	18.76	19.50
55990	55891	56089	16QAM	1	0	0	0	1	0	18.79	19.50
56640	56442	56640	16QAM	1	0	0	0	1	0	18.73	19.50
55340	55340	55538	64QAM	1	0	0	0	1	0	17.73	18.50
55990	55891	56089	64QAM	1	0	0	0	1	0	17.80	18.50
56640	56442	56640	64QAM	1	0	0	0	1	0	17.68	18.50
55340	55340	55538	256QAM	1	0	0	0	1	0	14.68	15.50
55990	55891	56089	256QAM	1	0	0	0	1	0	14.75	15.50
56640	56442	56640	256QAM	1	0	0	0	1	0	14.69	15.50
55340	55340	55538	QPSK	50	0	0	0	1	0	18.71	19.50
55990	55891	56089	QPSK	50	0	0	0	1	0	18.82	19.50
56640	56442	56640	QPSK	50	0	0	0	1	0	18.68	19.50

CA_48C Ant 11											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
55340	55340	55538	QPSK	1	0	0	0	1	0	19.34	20.10
55990	55891	56089	QPSK	1	0	0	0	1	0	19.39	20.10
56640	56442	56640	QPSK	1	0	0	0	1	0	19.29	20.10
55340	55340	55538	16QAM	1	0	0	0	1	0	18.29	19.10
55990	55891	56089	16QAM	1	0	0	0	1	0	18.32	19.10
56640	56442	56640	16QAM	1	0	0	0	1	0	18.26	19.10
55340	55340	55538	64QAM	1	0	0	0	1	0	17.26	18.10
55990	55891	56089	64QAM	1	0	0	0	1	0	17.33	18.10
56640	56442	56640	64QAM	1	0	0	0	1	0	17.21	18.10
55340	55340	55538	256QAM	1	0	0	0	1	0	14.21	15.10

5-MORLAB	55891	56089	256QAM	1	0	0	0	1	0	14.28	15.10
56640	56442	56640	256QAM	1	0	0	0	1	0	14.28	15.10
55340	55340	55538	QPSK	50	0	0	0	1	0	18.24	19.10
55990	55891	56089	QPSK	50	0	0	0	1	0	18.35	19.10
56640	56442	56640	QPSK	50	0	0	0	1	0	18.21	19.10

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CA_66B Ant 5											
Combination:15MHz+10MHz(75RB+25RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
132070	132047	132140	QPSK	1	0	0	0	1	0	18.72	19.30
132322	132398	132491	QPSK	1	0	0	0	1	0	18.76	19.30
132572	132549	132642	QPSK	1	0	0	0	1	0	18.67	19.30
132070	132047	132140	16QAM	1	0	0	0	1	0	17.60	18.30
132322	132398	132491	16QAM	1	0	0	0	1	0	17.73	18.30
132572	132549	132642	16QAM	1	0	0	0	1	0	17.64	18.30
132070	132047	132140	64QAM	1	0	0	0	1	0	16.72	17.30
132322	132398	132491	64QAM	1	0	0	0	1	0	16.84	17.30
132572	132549	132642	64QAM	1	0	0	0	1	0	16.74	17.30
132070	132047	132140	256QAM	1	0	0	0	1	0	13.64	14.30
132322	132398	132491	256QAM	1	0	0	0	1	0	13.72	14.30
132572	132549	132642	256QAM	1	0	0	0	1	0	13.65	14.30
132070	132047	132140	QPSK	36	0	0	0	1	0	17.60	18.30
132322	132398	132491	QPSK	36	0	0	0	1	0	17.69	18.30
132572	132549	132642	QPSK	36	0	0	0	1	0	17.63	18.30

CA_66B Ant 0											
Combination:15MHz+10MHz(75RB+25RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
132070	132047	132140	QPSK	1	0	0	0	1	0	20.02	20.80
132322	132398	132491	QPSK	1	0	0	0	1	0	20.06	20.80
132572	132549	132642	QPSK	1	0	0	0	1	0	19.97	20.80
132070	132047	132140	16QAM	1	0	0	0	1	0	18.90	19.80
132322	132398	132491	16QAM	1	0	0	0	1	0	19.03	19.80
132572	132549	132642	16QAM	1	0	0	0	1	0	18.94	19.80
132070	132047	132140	64QAM	1	0	0	0	1	0	18.02	18.80
132322	132398	132491	64QAM	1	0	0	0	1	0	18.14	18.80
132572	132549	132642	64QAM	1	0	0	0	1	0	18.04	18.80
132070	132047	132140	256QAM	1	0	0	0	1	0	14.94	15.80
132322	132398	132491	256QAM	1	0	0	0	1	0	15.02	15.80
132572	132549	132642	256QAM	1	0	0	0	1	0	14.95	15.80
132070	132047	132140	QPSK	36	0	0	0	1	0	18.90	19.80
132322	132398	132491	QPSK	36	0	0	0	1	0	18.99	19.80
132572	132549	132642	QPSK	36	0	0	0	1	0	18.93	19.80

CA_66C Ant 5											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
132070	132072	132270	QPSK	1	0	0	0	1	0	18.57	19.30
132322	132323	132521	QPSK	1	0	0	0	1	0	18.61	19.30
132572	132374	132572	QPSK	1	0	0	0	1	0	18.52	19.30
132070	132072	132270	16QAM	1	0	0	0	1	0	17.54	18.30
132322	132323	132521	16QAM	1	0	0	0	1	0	17.67	18.30
132572	132374	132572	16QAM	1	0	0	0	1	0	17.58	18.30
132070	132072	132270	64QAM	1	0	0	0	1	0	16.57	17.30
132322	132323	132521	64QAM	1	0	0	0	1	0	16.69	17.30
132572	132374	132572	64QAM	1	0	0	0	1	0	16.59	17.30
132070	132072	132270	256QAM	1	0	0	0	1	0	13.64	14.30
132322	132323	132521	256QAM	1	0	0	0	1	0	13.69	14.30
132572	132374	132572	256QAM	1	0	0	0	1	0	13.58	14.30
132070	132072	132270	QPSK	50	0	0	0	1	0	17.45	18.00
132322	132323	132521	QPSK	50	0	0	0	1	0	17.54	18.00
132572	132374	132572	QPSK	50	0	0	0	1	0	17.48	18.00

CA_66C Ant 0											
Combination:20MHz+20MHz(100RB+100RB)											

PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MRR Level(dB)	Measured Power(dBm)	Tx power limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
132070	132072	132270	QPSK	1	0	0	0	1	0	20.09	20.80
132322	132323	132521	QPSK	1	0	0	0	1	0	20.13	20.80
132572	132374	132572	QPSK	1	0	0	0	1	0	20.04	20.80
132070	132072	132270	16QAM	1	0	0	0	1	0	18.97	19.80
132322	132323	132521	16QAM	1	0	0	0	1	0	19.10	19.80
132572	132374	132572	16QAM	1	0	0	0	1	0	19.01	19.80
132070	132072	132270	64QAM	1	0	0	0	1	0	18.09	18.80
132322	132323	132521	64QAM	1	0	0	0	1	0	18.21	18.80
132572	132374	132572	64QAM	1	0	0	0	1	0	18.11	18.80
132070	132072	132270	256QAM	1	0	0	0	1	0	15.05	15.80
132322	132323	132521	256QAM	1	0	0	0	1	0	15.11	15.80
132572	132374	132572	256QAM	1	0	0	0	1	0	15.03	15.80
132070	132072	132270	QPSK	50	0	0	0	1	0	18.97	19.80
132322	132323	132521	QPSK	50	0	0	0	1	0	19.06	19.80
132572	132374	132572	QPSK	50	0	0	0	1	0	19.00	19.80

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n2 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	21.17	21.12	20.87	22.2
20		1	53	21.14	21.09	20.98	
20		1	104	21.16	20.95	21.00	
20		50	1	20.57	20.37	20.24	22.2
20	DFT-s-OFDM QPSK	50	25	21.15	20.99	20.90	
20		50	50	20.55	20.35	20.33	
20		100	0	20.66	20.47	20.39	
20		1	1	21.23	21.31	21.25	22.2
20	DFT-s-OFDM 16QAM	1	53	21.17	21.08	20.93	
20		1	104	21.17	20.94	20.67	
20		50	1	20.35	20.31	20.24	22.2
20		50	25	21.20	21.26	21.16	
20	DFT-s-OFDM 64QAM	50	50	20.39	20.38	20.30	
20		100	0	21.00	21.10	21.05	
20	DFT-s-OFDM 256QAM	1	1	20.25	20.31	20.17	21.2
20	CP-OFDM QPSK	1	1	18.16	18.32	18.07	19.2
20	CP-OFDM 16QAM	1	1	16.07	15.97	15.85	17.2
20	CP-OFDM 64QAM	1	1	19.50	19.63	19.55	20.2
20	CP-OFDM 256QAM	1	1	18.96	18.94	18.77	20.2
20		1	1	17.06	16.95	16.79	18.2
20		1	1	14.02	13.97	13.87	15.2
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	21.20	21.12	20.94	22.2
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	20.84	21.05	20.95	22.2
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	20.98	21.13	20.60	22.2

n2 (PC3)(ANT4)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	20
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	19.17	19.11	18.96	20
20		1	53	19.15	19.09	18.95	
20		1	104	19.08	18.98	19.04	
20		50	1	18.53	18.50	18.43	20
20	DFT-s-OFDM QPSK	50	25	19.13	19.09	18.97	
20		50	50	18.56	18.46	18.38	
20		100	0	18.61	18.56	18.45	
20		1	1	19.18	19.20	19.15	20
20	DFT-s-OFDM 16QAM	1	53	19.09	19.07	18.68	
20		1	104	19.18	19.04	19.06	
20		50	1	18.04	18.05	18.09	20
20		50	25	19.16	19.17	19.11	
20	DFT-s-OFDM 64QAM	50	50	18.08	18.02	19.03	
20		100	0	19.04	19.06	18.90	
20	DFT-s-OFDM 256QAM	1	1	17.82	17.93	17.68	19
20	CP-OFDM QPSK	1	1	16.24	16.30	16.14	18
20	CP-OFDM 16QAM	1	1	14.04	13.95	13.84	15
20	CP-OFDM 64QAM	1	1	17.63	17.69	17.51	19
20	CP-OFDM 256QAM	1	1	16.98	17.03	16.80	18
20		1	1	15.09	15.05	14.84	16
20		1	1	12.06	12.07	11.93	13
Channel				371500	376000	380500	20
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	19.07	19.03	18.96	20
Channel				371000	376000	381000	20
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	19.13	19.04	18.89	20
Channel				370500	376000	381500	20
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	19.00	18.86	18.82	20

n2 (PC3)(ANT5)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	19.69	19.69	19.57	20.7
20		1	53	19.70	19.65	19.55	
20		1	104	19.63	19.58	19.62	
20		50	1	19.11	19.10	18.93	20.7
20		50	25	19.67	19.69	19.64	
20		50	50	19.06	18.88	18.98	
20		100	0	19.18	19.06	19.04	
20	DFT-s-OFDM QPSK	1	1	19.70	19.75	19.68	20.7
20		1	53	19.67	19.64	19.56	
20		1	104	19.61	19.53	19.51	
20		50	1	18.81	18.87	18.70	20.7
20		50	25	19.68	19.70	19.66	
20		50	50	18.88	18.93	18.84	
20		100	0	19.51	19.59	19.57	
20	DFT-s-OFDM 16QAM	1	1	18.50	18.51	18.32	15.2
20	DFT-s-OFDM 64QAM	1	1	16.99	17.03	16.84	17.7
20	DFT-s-OFDM 256QAM	1	1	14.72	14.75	14.53	15.7
20	CP-OFDM QPSK	1	1	18.33	18.38	18.16	19.7
20	CP-OFDM 16QAM	1	1	17.65	17.71	17.54	18.7
20	CP-OFDM 64QAM	1	1	15.74	15.69	15.54	16.7
20	CP-OFDM 256QAM	1	1	12.64	12.67	12.55	9.2
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	19.69	19.64	19.55	20.7
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	19.65	19.68	19.51	20.7
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	19.66	19.53	19.36	20.7

n2 (PC3)(ANT6)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	21.44	21.33	21.18	22.2
20		1	53	21.42	21.31	21.20	
20		1	104	21.43	21.21	21.28	
20		50	1	20.90	20.74	20.61	22.2
20	DFT-s-OFDM QPSK	50	25	21.50	21.23	21.17	
20		50	50	20.86	20.73	20.53	
20		100	0	20.98	20.76	20.59	
20		1	1	21.48	21.54	21.40	22.2
20	DFT-s-OFDM 16QAM	1	53	21.39	21.40	21.10	
20		1	104	21.44	21.47	21.35	
20		50	1	20.32	20.39	20.26	22.5
20		50	25	21.42	21.46	21.32	
20	DFT-s-OFDM 64QAM	50	50	20.37	20.35	20.28	
20		100	0	21.33	21.36	21.22	
20	DFT-s-OFDM 256QAM	1	1	20.27	20.22	19.96	21.2
20	CP-OFDM QPSK	1	1	18.64	18.64	18.32	19.2
20	CP-OFDM 16QAM	1	1	16.35	16.28	16.06	17.2
20	CP-OFDM 64QAM	1	1	20.08	19.96	19.82	21.2
20	CP-OFDM 256QAM	1	1	19.31	19.33	19.06	20.2
20		1	1	17.40	17.31	17.05	18.2
20		1	1	14.38	14.28	14.08	15.2
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	21.50	21.36	21.18	24.2
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	21.46	21.32	20.99	24.2
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	21.29	21.18	20.92	24.2

n7 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	DFT-s-OFDM PI/2 BPSK	1	1	19.60	19.78	19.71	21
40		1	108	19.55	19.80	19.67	
40		1	214	19.75	19.71	19.75	
40		108	1	19.01	19.21	19.11	21
40		108	54	19.65	19.89	19.71	
40		108	108	19.12	19.19	19.12	
40		216	0	19.14	19.27	19.23	
40	DFT-s-OFDM QPSK	1	1	19.62	19.77	19.69	21
40		1	108	19.50	19.61	19.52	
40		1	214	19.65	19.66	19.68	
40		108	1	19.03	19.04	19.02	21
40		108	54	19.68	19.71	19.70	
40		108	108	19.05	19.01	19.07	
40		216	0	19.60	19.65	19.66	
40	DFT-s-OFDM 16QAM	1	1	17.62	17.60	17.70	19
40	DFT-s-OFDM 64QAM	1	1	16.70	16.89	16.92	18
40	DFT-s-OFDM 256QAM	1	1	14.61	14.54	14.60	16
40	CP-OFDM QPSK	1	1	17.90	18.09	18.11	19
40	CP-OFDM 16QAM	1	1	16.94	17.05	16.76	18
40	CP-OFDM 64QAM	1	1	15.42	15.51	15.64	17
40	CP-OFDM 256QAM	1	1	12.48	12.83	12.60	14
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	DFT-s-OFDM QPSK	1	1	19.45	19.60	19.69	23.5
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	DFT-s-OFDM QPSK	1	1	19.52	19.66	19.66	23.5
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	DFT-s-OFDM QPSK	1	1	19.40	19.57	19.68	23.5
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	DFT-s-OFDM QPSK	1	1	19.43	19.64	19.58	23.5
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	DFT-s-OFDM QPSK	1	1	19.49	19.65	19.66	23.5
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	DFT-s-OFDM QPSK	1	1	19.35	19.57	19.68	23.5

n7 (PC3) (ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	DFT-s-OFDM PI/2 BPSK	1	1	18.43	18.51	18.65	20.2
40		1	108	18.39	18.48	18.46	
40		1	214	18.66	18.65	18.58	
40		108	1	18.20	18.30	18.39	20.2
40		108	54	18.56	18.66	18.62	
40		108	108	18.27	18.33	18.22	
40		216	0	18.30	18.33	18.42	
40	DFT-s-OFDM QPSK	1	1	19.25	19.32	19.27	20.2
40		1	108	19.22	19.20	19.25	
40		1	214	19.14	19.23	19.10	
40		108	1	18.25	18.31	18.21	20.2
40		108	54	19.12	19.15	18.99	
40		108	108	18.23	18.27	18.17	
40		216	0	18.72	18.74	18.71	
40	DFT-s-OFDM 16QAM	1	1	18.05	17.90	18.43	19.2
40	DFT-s-OFDM 64QAM	1	1	15.70	16.00	15.70	17.2
40	DFT-s-OFDM 256QAM	1	1	14.03	14.12	13.70	16.2
40	CP-OFDM QPSK	1	1	16.70	16.75	16.73	18.2
40	CP-OFDM 16QAM	1	1	15.76	15.85	15.72	17.2
40	CP-OFDM 64QAM	1	1	15.25	15.43	15.48	16.2
40	CP-OFDM 256QAM	1	1	11.75	11.72	12.05	13.2
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	DFT-s-OFDM QPSK	1	1	18.96	19.18	18.89	24.7
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	DFT-s-OFDM QPSK	1	1	18.82	19.21	18.93	24.7
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	DFT-s-OFDM QPSK	1	1	18.92	19.28	18.92	24.7
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	DFT-s-OFDM QPSK	1	1	19.00	19.23	19.21	24.7
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	DFT-s-OFDM QPSK	1	1	19.04	19.30	19.29	24.7
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	DFT-s-OFDM QPSK	1	1	18.95	19.23	19.22	24.7

n7 (PC3)(ANT5)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	DFT-s-OFDM PI/2 BPSK	1	1	19.10	19.12	19.01	20.2
40		1	108	18.85	18.97	18.97	
40		1	214	19.05	19.08	19.05	
40		108	1	18.31	18.47	18.41	20.2
40		108	54	18.95	19.08	19.01	
40		108	108	18.42	18.41	18.42	
40		216	0	18.44	18.54	18.53	
40	DFT-s-OFDM QPSK	1	1	19.02	19.14	19.09	20.2
40		1	108	18.90	19.03	18.92	
40		1	214	19.05	19.04	19.08	
40		108	1	18.23	18.30	18.35	20.2
40		108	54	18.93	19.03	19.00	
40		108	108	18.37	18.46	18.47	
40		216	0	18.90	18.97	18.91	
40	DFT-s-OFDM 16QAM	1	1	17.75	17.82	17.97	19.2
40	DFT-s-OFDM 64QAM	1	1	16.10	16.24	16.32	17.2
40	DFT-s-OFDM 256QAM	1	1	13.79	13.88	14.00	15.2
40	CP-OFDM QPSK	1	1	12.01	12.05	12.12	13.2
40	CP-OFDM 16QAM	1	1	16.77	16.95	16.93	17.2
40	CP-OFDM 64QAM	1	1	14.82	14.95	15.04	16.2
40	CP-OFDM 256QAM	1	1	11.88	11.97	12.00	13.2
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	DFT-s-OFDM QPSK	1	1	18.85	19.00	19.09	20.2
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	DFT-s-OFDM QPSK	1	1	18.92	19.06	19.06	20.2
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	DFT-s-OFDM QPSK	1	1	18.80	13.97	19.08	25.2
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	DFT-s-OFDM QPSK	1	1	18.83	19.04	18.98	25.2
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	DFT-s-OFDM QPSK	1	1	18.89	19.05	19.06	25.2
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	DFT-s-OFDM QPSK	1	1	18.75	18.97	19.08	25.2

n7 (PC3)(ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	DFT-s-OFDM PI/2 BPSK	1	1	19.70	19.80	19.85	21.2
40		1	108	19.73	19.77	19.74	
40		1	214	19.98	19.98	19.88	
40		108	1	19.20	19.29	19.35	21.2
40		108	54	19.85	19.98	19.93	
40		108	108	19.33	19.26	19.30	
40		216	0	19.37	19.38	19.38	
40	DFT-s-OFDM QPSK	1	1	20.45	20.52	20.43	21.2
40		1	108	20.33	20.23	20.13	
40		1	214	19.98	20.32	20.05	
40		108	1	19.27	19.62	19.31	21.2
40		108	54	20.30	20.35	20.33	
40		108	108	19.53	19.24	19.33	
40		216	0	20.22	20.25	20.26	
40	DFT-s-OFDM 16QAM	1	1	18.85	19.08	19.45	20.2
40	DFT-s-OFDM 64QAM	1	1	17.19	17.52	17.84	18.2
40	DFT-s-OFDM 256QAM	1	1	15.29	15.62	15.72	16.2
40	CP-OFDM QPSK	1	1	18.38	18.57	18.53	19.2
40	CP-OFDM 16QAM	1	1	18.05	18.06	18.62	19.2
40	CP-OFDM 64QAM	1	1	16.36	16.49	16.64	17.2
40	CP-OFDM 256QAM	1	1	13.44	13.50	13.68	14.2
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	DFT-s-OFDM QPSK	1	1	20.23	20.40	20.36	21.2
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	DFT-s-OFDM QPSK	1	1	20.32	20.51	20.43	21.2
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	DFT-s-OFDM QPSK	1	1	20.19	20.47	20.31	24.2
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	DFT-s-OFDM QPSK	1	1	20.25	20.50	20.48	24.2
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	DFT-s-OFDM QPSK	1	1	20.10	20.51	20.50	24.2
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	DFT-s-OFDM QPSK	1	1	20.25	20.33	20.28	24.2

n25 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				374000	376500	380000	
Frequency (MHz)				1870	1882.5	1900	
40	DFT-s-OFDM PI/2 BPSK	1	1	21.42	21.39	21.37	22.6
40		1	108	21.28	21.16	21.35	
40		1	214	21.21	21.32	21.42	
40		108	1	20.77	20.78	20.73	22.6
40		108	54	21.30	21.23	21.37	
40		108	108	20.62	20.73	20.78	
40		216	0	20.83	20.73	20.84	
40	DFT-s-OFDM QPSK	1	1	21.46	21.41	21.37	22.6
40		1	108	21.23	21.14	21.36	
40		1	214	21.21	21.17	21.31	
40		108	1	20.68	20.70	20.60	22.6
40		108	54	21.39	21.30	21.31	
40		108	108	20.82	20.77	20.84	
40		216	0	21.33	21.31	21.34	
40	DFT-s-OFDM 16QAM	1	1	20.24	20.25	20.12	21.6
40	DFT-s-OFDM 64QAM	1	1	18.65	18.62	18.64	18.6
40	DFT-s-OFDM 256QAM	1	1	16.35	16.31	16.33	16.6
40	CP-OFDM QPSK	1	1	19.22	19.30	19.55	19.6
40	CP-OFDM 16QAM	1	1	18.55	18.34	18.21	18.6
40	CP-OFDM 64QAM	1	1	17.42	17.33	17.34	18.6
40	CP-OFDM 256QAM	1	1	14.36	14.35	14.35	15.6
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	DFT-s-OFDM QPSK	1	1	21.41	21.30	21.17	22.6
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	DFT-s-OFDM QPSK	1	1	21.41	21.24	21.29	22.6
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM QPSK	1	1	21.38	21.29	21.15	22.6
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	21.43	21.32	21.22	22.6
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	21.44	21.23	21.14	22.6
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	DFT-s-OFDM QPSK	1	1	21.25	21.11	21.06	22.6

n25 (PC3)(ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				374000	376500	380000	
Frequency (MHz)				1870	1882.5	1900	
40	DFT-s-OFDM PI/2 BPSK	1	1	19.10	18.97	18.87	20
40		1	108	19.11	18.78	18.85	
40		1	214	19.04	18.88	18.92	
40		108	1	18.52	18.31	18.23	20
40		108	54	19.12	18.85	18.87	
40		108	108	18.47	18.28	18.28	
40		216	0	18.59	18.32	18.34	
40	DFT-s-OFDM QPSK	1	1	19.17	18.97	18.87	20
40		1	108	19.14	18.74	18.86	
40		1	214	19.02	18.84	18.81	
40		108	1	18.02	18.04	18.02	20
40		108	54	19.09	18.89	18.81	
40		108	108	18.03	18.10	18.04	
40		216	0	18.96	18.98	18.99	
40	DFT-s-OFDM 16QAM	1	1	17.91	17.64	17.62	19
40	DFT-s-OFDM 64QAM	1	1	16.40	16.07	16.14	17
40	DFT-s-OFDM 256QAM	1	1	14.13	13.95	13.83	15
40	CP-OFDM QPSK	1	1	17.74	17.48	17.46	19
40	CP-OFDM 16QAM	1	1	17.06	16.85	16.84	18
40	CP-OFDM 64QAM	1	1	15.15	15.01	14.84	16
40	CP-OFDM 256QAM	1	1	12.05	11.92	11.85	13
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	DFT-s-OFDM QPSK	1	1	18.96	18.85	18.72	20
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	DFT-s-OFDM QPSK	1	1	18.96	19.00	18.84	20
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM QPSK	1	1	18.93	18.84	18.70	20
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	18.98	18.87	18.77	20
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	18.99	18.78	18.69	20
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	DFT-s-OFDM QPSK	1	1	18.80	18.66	18.61	20

n25 (PC3)(ANT5)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				374000	376500	379000	19.7
Frequency (MHz)				1870	1882.5	1895	
40	DFT-s-OFDM PI/2 BPSK	1	1	18.72	18.71	18.69	19.7
40		1	108	18.58	18.45	18.42	
40		1	214	18.51	18.54	18.72	
40		108	1	18.07	17.98	17.95	19.7
40		108	54	18.60	18.49	18.48	
40		108	108	17.92	17.86	17.91	
40		216	0	18.13	18.02	18.03	
40	DFT-s-OFDM QPSK	1	1	18.76	18.71	18.66	19.7
40		1	108	18.53	18.40	18.35	
40		1	214	18.51	18.54	18.18	
40		108	1	17.88	17.80	17.71	19.7
40		108	54	18.69	18.61	18.63	
40		108	108	17.85	17.83	17.75	
40		216	0	18.67	18.53	18.57	
40	DFT-s-OFDM 16QAM	1	1	17.54	17.54	17.46	13.2
40	DFT-s-OFDM 64QAM	1	1	15.95	15.88	15.83	11.2
40	DFT-s-OFDM 256QAM	1	1	13.65	13.64	13.59	14.7
40	CP-OFDM QPSK	1	1	17.33	17.34	17.29	18.7
40	CP-OFDM 16QAM	1	1	16.65	16.66	16.60	17.7
40	CP-OFDM 64QAM	1	1	14.72	14.69	14.64	15.7
40	CP-OFDM 256QAM	1	1	11.66	11.68	11.64	12.7
Channel				373000	376500	380000	19.7
Frequency (MHz)				1865	1882.5	1900	
30	DFT-s-OFDM QPSK	1	1	18.71	18.60	18.47	19.7
Channel				372500	376500	380500	19.7
Frequency (MHz)				1862.5	1882.5	1902.5	
25	DFT-s-OFDM QPSK	1	1	18.71	18.75	18.59	19.7
Channel				372000	376500	381000	19.7
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM QPSK	1	1	18.68	18.59	18.45	19.7
Channel				371500	376500	381500	19.7
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	18.73	18.62	18.52	19.7
Channel				371000	376500	382000	19.7
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	18.74	18.53	18.44	19.7
Channel				370500	376500	382500	19.7
Frequency (MHz)				1852.5	1882.5	1912.5	
5	DFT-s-OFDM QPSK	1	1	18.55	18.41	18.36	19.7

n25 (PC3) (ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	DFT-s-OFDM PI/2 BPSK	1	1	21.37	21.41	21.34	22.4
40		1	108	21.38	21.19	21.32	
40		1	214	21.31	21.27	21.39	
40		108	1	20.79	20.77	20.70	22.4
40		108	54	21.39	21.40	21.34	
40		108	108	20.74	20.70	20.75	
40		216	0	20.86	20.76	20.81	
40	DFT-s-OFDM QPSK	1	1	21.44	21.32	21.34	22.4
40		1	108	21.41	21.19	21.33	
40		1	214	21.29	21.27	21.28	
40		108	1	20.49	20.59	20.47	22.4
40		108	54	21.36	21.30	21.28	
40		108	108	20.46	20.53	20.41	
40		216	0	21.22	21.31	21.30	
40	DFT-s-OFDM 16QAM	1	1	20.18	20.18	20.09	21.4
40	DFT-s-OFDM 64QAM	1	1	18.67	18.62	18.61	19.4
40	DFT-s-OFDM 256QAM	1	1	16.40	16.48	16.30	17.4
40	CP-OFDM QPSK	1	1	20.01	20.01	19.93	21.4
40	CP-OFDM 16QAM	1	1	19.33	19.40	19.31	20.4
40	CP-OFDM 64QAM	1	1	17.42	17.53	17.31	18.4
40	CP-OFDM 256QAM	1	1	14.32	14.38	14.32	15.4
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	DFT-s-OFDM QPSK	1	1	21.32	21.21	21.08	22.4
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	DFT-s-OFDM QPSK	1	1	21.32	21.36	21.20	22.4
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM QPSK	1	1	21.29	21.20	21.06	22.4
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	21.34	21.23	21.13	22.4
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	21.35	21.14	21.05	22.4
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	DFT-s-OFDM QPSK	1	1	21.16	21.02	20.97	22.4

n30 (PC3)(ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					462000		20.2
Frequency (MHz)					2310		
10	DFT-s-OFDM PI/2 BPSK	1	1		18.85		20.2
10		1	26		19.00		
10		1	50		18.96		
10		25	1		18.34		20.2
10		25	12		19.01		
10		25	25		18.44		
10		50	0		18.74		
10	DFT-s-OFDM QPSK	1	1		18.74		20.2
10		1	26		19.03		
10		1	50		18.65		
10		25	1		18.22		20.2
10		25	12		18.99		
10		25	25		18.40		
10		50	0		18.83		
10	DFT-s-OFDM 16QAM	1	1		17.76		19.2
10	DFT-s-OFDM 64QAM	1	1		16.12		13.2
10	DFT-s-OFDM 256QAM	1	1		13.97		11.2
10	CP-OFDM QPSK	1	1		17.38		18.2
10	CP-OFDM 16QAM	1	1		16.77		17.2
10	CP-OFDM 64QAM	1	1		14.92		15.2
10	CP-OFDM 256QAM	1	1		11.93		12.2
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	DFT-s-OFDM QPSK	1	1	18.61	18.89	18.90	20.2

n30 (PC3)(ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	DFT-s-OFDM PI/2 BPSK	1	1		19.13		20.4
10		1	26		19.20		
10		1	50		19.18		
10		25	1		18.51		20.4
10		25	12		19.19		
10		25	25		18.66		
10		50	0		18.53		
10	DFT-s-OFDM QPSK	1	1		19.02		20.4
10		1	26		19.23		
10		1	50		19.14		
10		25	1		18.48		20.4
10		25	12		19.15		
10		25	25		18.42		
10		50	0		19.11		
10	DFT-s-OFDM 16QAM	1	1		17.88		19.4
10	DFT-s-OFDM 64QAM	1	1		16.26		17.4
10	DFT-s-OFDM 256QAM	1	1		14.15		15.4
10	CP-OFDM QPSK	1	1		17.54		19.4
10	CP-OFDM 16QAM	1	1		16.96		18.4
10	CP-OFDM 64QAM	1	1		15.10		16.4
10	CP-OFDM 256QAM	1	1		12.13		13.4
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	DFT-s-OFDM QPSK	1	1	19.01	19.13	19.17	20.4

n38 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	19.24	19.33	19.36	20.5
40		1	53	19.09	18.99	19.05	
40		1	104	19.05	18.93	19.07	
40		50	1	18.73	18.70	18.71	20.5
40		50	25	19.29	19.16	19.26	
40		50	50	18.57	18.47	18.56	
40		100	0	18.81	18.74	18.73	
40	DFT-s-OFDM QPSK	1	1	19.35	19.39	19.42	20.5
40		1	53	19.06	18.98	19.02	
40		1	104	19.06	18.83	19.05	
40		50	1	18.56	18.52	18.53	20.5
40		50	25	19.28	19.30	19.31	
40		50	50	18.52	18.54	18.50	
40		100	0	19.30	19.30	19.25	
40	DFT-s-OFDM 16QAM	1	1	17.95	18.34	18.20	16.7
40	DFT-s-OFDM 64QAM	1	1	16.56	16.67	16.69	17.5
40	DFT-s-OFDM 256QAM	1	1	14.39	14.55	14.51	15.5
40	CP-OFDM QPSK	1	1	17.86	17.91	17.92	18.5
40	CP-OFDM 16QAM	1	1	17.24	17.25	17.33	14.7
40	CP-OFDM 64QAM	1	1	15.22	15.54	15.39	16.5
40	CP-OFDM 256QAM	1	1	12.38	12.57	12.23	13.5
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	DFT-s-OFDM QPSK	1	1	19.30	19.40	19.35	20.5
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	DFT-s-OFDM QPSK	1	1	19.19	19.31	19.25	20.5
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	DFT-s-OFDM QPSK	1	1	19.21	19.21	19.18	20.5
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	DFT-s-OFDM QPSK	1	1	19.24	19.24	19.19	20.5

n38 (PC3)(ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	19.60	19.71	19.72	20.7
40		1	53	19.45	19.48	19.41	
40		1	104	19.41	19.47	19.43	
40		50	1	19.09	19.21	19.07	20.7
40	DFT-s-OFDM QPSK	50	25	19.65	19.66	19.62	
40		50	50	18.93	19.01	18.92	
40		100	0	19.17	19.18	19.09	
40		1	1	19.71	19.74	19.78	20.7
40	DFT-s-OFDM 16QAM	1	53	19.42	19.58	19.38	
40		1	104	19.42	19.44	19.41	
40		50	1	18.82	18.79	18.79	20.7
40		50	25	19.64	19.64	19.67	
40	DFT-s-OFDM 64QAM	50	50	18.78	18.71	18.76	
40		100	0	19.55	19.56	19.49	
40	DFT-s-OFDM 256QAM	1	1	18.01	18.36	18.26	19.7
40	DFT-s-OFDM 64QAM	1	1	16.62	16.94	16.75	17.7
40	DFT-s-OFDM 256QAM	1	1	14.45	14.51	14.57	15.7
40	CP-OFDM QPSK	1	1	17.92	18.00	17.98	19.7
40	CP-OFDM 16QAM	1	1	17.30	16.43	17.39	18.7
40	CP-OFDM 64QAM	1	1	15.28	15.46	15.45	16.7
40	CP-OFDM 256QAM	1	1	12.44	12.52	12.33	13.7
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	DFT-s-OFDM QPSK	1	1	19.18	19.28	19.23	20.7
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	DFT-s-OFDM QPSK	1	1	19.37	19.49	19.52	20.7
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	DFT-s-OFDM QPSK	1	1	19.39	19.39	19.36	20.7
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	DFT-s-OFDM QPSK	1	1	19.42	19.42	19.37	20.7

n38 (PC3)(ANT5)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	Tune-up limit (dBm)
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	19.04	19.16	19.16	20.2
40		1	53	18.89	18.86	18.85	
40		1	104	18.85	18.86	18.87	
40		50	1	18.53	18.53	18.51	20.2
40		50	25	19.09	19.02	19.06	
40		50	50	18.37	18.36	18.36	
40		100	0	18.61	18.59	18.53	
40	DFT-s-OFDM QPSK	1	1	19.15	19.19	19.22	20.2
40		1	53	18.86	18.86	18.82	
40		1	104	18.86	18.84	18.85	
40		50	1	18.36	18.31	18.33	20.2
40		50	25	19.08	19.04	19.11	
40		50	50	18.42	18.38	18.40	
40		100	0	18.93	18.90	18.97	
40	DFT-s-OFDM 16QAM	1	1	17.75	17.86	18.00	19.2
40	DFT-s-OFDM 64QAM	1	1	16.36	16.39	16.49	17.2
40	DFT-s-OFDM 256QAM	1	1	14.19	14.19	14.31	15.2
40	CP-OFDM QPSK	1	1	17.66	17.73	17.72	19.2
40	CP-OFDM 16QAM	1	1	17.04	17.14	17.13	18.2
40	CP-OFDM 64QAM	1	1	15.02	15.15	15.19	16.2
40	CP-OFDM 256QAM	1	1	12.18	12.23	12.07	13.2
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	DFT-s-OFDM QPSK	1	1	19.10	19.20	19.15	20.2
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	DFT-s-OFDM QPSK	1	1	18.99	19.11	19.05	20.2
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	DFT-s-OFDM QPSK	1	1	19.01	19.01	18.98	20.2
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	DFT-s-OFDM QPSK	1	1	19.04	19.04	18.99	20.2

n38 (PC3)(ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	20.46	20.59	20.58	21.3
40		1	53	20.31	20.50	20.27	
40		1	104	20.27	20.61	20.29	
40		50	1	19.95	20.30	19.93	21.3
40		50	25	20.51	20.61	20.48	
40		50	50	19.79	20.10	19.78	
40		100	0	20.03	20.31	19.95	
40	DFT-s-OFDM QPSK	1	1	20.57	20.61	20.64	21.3
40		1	53	20.28	20.57	20.24	
40		1	104	20.28	20.56	20.27	
40		50	1	19.48	19.75	19.45	21.3
40		50	25	20.50	20.52	20.53	
40		50	50	19.54	19.67	19.52	
40		100	0	20.16	20.29	20.26	
40	DFT-s-OFDM 16QAM	1	1	19.17	19.71	19.42	20.3
40	DFT-s-OFDM 64QAM	1	1	17.78	18.34	17.91	19.3
40	DFT-s-OFDM 256QAM	1	1	15.61	16.02	15.73	17.3
40	CP-OFDM QPSK	1	1	19.08	19.21	19.14	20.3
40	CP-OFDM 16QAM	1	1	18.46	18.47	18.55	19.3
40	CP-OFDM 64QAM	1	1	16.44	16.94	16.61	18.3
40	CP-OFDM 256QAM	1	1	13.20	13.12	13.15	14.3
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	DFT-s-OFDM QPSK	1	1	20.52	20.62	20.57	21.3
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	DFT-s-OFDM QPSK	1	1	20.41	20.53	20.47	21.3
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	DFT-s-OFDM QPSK	1	1	20.43	20.43	20.40	21.3
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	DFT-s-OFDM QPSK	1	1	20.46	20.46	20.41	21.3

n41 (PC2)(ANT0)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	21.5
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	19.91	20.34	20.28	20.30	20.24	21.5
100		1	136	20.07	20.23	20.06	19.84	20.15	
100		1	271	20.31	19.95	19.74	19.59	20.08	
100		135	1	19.53	19.59	19.59	19.59	19.55	21.5
100		135	67	20.09	20.30	20.14	19.89	20.15	
100		135	136	19.59	19.68	19.68	19.53	19.55	
100		270	0	19.57	19.53	19.58	19.55	19.50	
100	DFT-s-OFDM QPSK	1	1	20.18	20.26	20.15	20.06	20.27	21.5
100		1	136	20.20	20.35	20.36	20.34	20.27	
100		1	271	20.30	19.89	19.74	19.73	19.54	
100		135	1	19.53	19.65	19.60	19.58	19.66	21.5
100		135	67	20.16	20.31	20.33	20.15	20.26	
100		135	136	19.59	19.69	19.50	19.51	19.59	
100		270	0	20.26	20.24	20.28	20.21	20.18	
100	DFT-s-OFDM 16QAM	1	1	18.67	18.80	18.80	18.78	18.40	19.5
100	DFT-s-OFDM 64QAM	1	1	17.51	17.97	17.89	17.63	17.49	18.5
100	DFT-s-OFDM 256QAM	1	1	16.38	16.65	16.63	16.71	16.29	17.5
100	CP-OFDM QPSK	1	1	18.37	18.69	18.66	18.75	18.60	19.5
100	CP-OFDM 16QAM	1	1	17.88	18.06	18.18	17.98	18.16	18.5
100	CP-OFDM 64QAM	1	1	16.59	16.97	16.93	16.97	16.61	17.5
100	CP-OFDM 256QAM	1	1	12.55	12.50	12.52	12.40	12.50	13.5
Channel				508200	513402	518598	523800	528996	21.5
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	19.74	20.03	20.14	20.26	20.23	21.5
Channel				507204	512904	518598	524298	529998	21.5
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	19.79	20.06	20.17	20.29	20.34	21.5
Channel				506202	512400	518598	524796	531000	21.5
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	19.71	19.95	20.18	20.22	20.19	21.5
Channel				505200	511902	518598	525798	531996	21.5
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	19.63	20.08	20.12	20.23	20.16	21.5
Channel				504204	511404	518598	525798	532998	21.5
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	19.98	20.17	20.30	20.31	20.31	21.5
Channel				503202	510900	518598	526296	534000	21.5
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	19.81	20.00	20.16	20.16	19.96	21.5
Channel				502200	510402	518598	526800	534996	21.5
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	19.95	20.09	20.33	20.23	19.98	21.5
Channel				501204	509904	518598	527298	535998	21.5
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	19.79	19.99	20.07	20.09	19.80	21.5

n41 (PC2) (ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	19.9
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	18.88	19.07	19.07	19.09	19.10	19.9
100		1	136	18.99	18.97	19.03	19.05	18.84	
100		1	271	19.16	19.13	18.92	18.60	18.47	
100		135	1	17.98	17.99	18.02	17.98	17.98	19.9
100		135	67	19.05	19.09	19.18	19.09	19.08	
100		135	136	17.91	17.93	18.02	17.97	18.02	
100		270	0	17.98	17.94	18.02	17.94	18.03	
100	DFT-s-OFDM QPSK	1	1	18.97	18.95	19.11	19.17	19.12	19.9
100		1	136	19.21	19.17	19.22	19.16	19.18	
100		1	271	19.14	18.99	18.97	18.65	18.52	
100		135	1	17.96	18.04	18.08	18.12	18.09	19.9
100		135	67	19.05	19.06	19.15	19.05	19.08	
100		135	136	18.05	18.15	18.01	17.90	18.03	
100		270	0	18.79	18.64	18.86	18.79	18.74	
100	DFT-s-OFDM 16QAM	1	1	18.00	17.96	18.05	18.11	18.10	18.9
100	DFT-s-OFDM 64QAM	1	1	17.00	17.02	17.16	17.18	17.06	17.9
100	DFT-s-OFDM 256QAM	1	1	15.81	15.83	15.95	15.92	15.92	16.9
100	CP-OFDM QPSK	1	1	18.13	18.17	18.18	18.27	18.31	18.9
100	CP-OFDM 16QAM	1	1	16.53	16.51	16.52	16.71	16.60	17.9
100	CP-OFDM 64QAM	1	1	16.59	16.64	16.72	16.73	16.77	17.9
100	CP-OFDM 256QAM	1	1	13.31	13.35	13.32	13.45	13.49	14.9
Channel				508200	513402	518598	523800	528996	19.9
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	19.06	19.07	19.08	19.17	19.16	19.9
Channel				507204	512904	518598	524298	529998	19.9
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	19.03	19.16	19.19	19.18	19.15	19.9
Channel				506202	512400	518598	524796	531000	19.9
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	18.92	19.01	19.10	19.17	19.02	19.9
Channel				505200	511902	518598	525798	531996	19.9
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	18.88	19.09	19.15	19.16	18.90	19.9
Channel				504204	511404	518598	525798	532998	19.9
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	19.02	19.20	19.18	19.18	18.92	19.9
Channel				503202	510900	518598	526296	534000	19.9
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	18.84	19.03	19.18	18.93	18.64	19.9
Channel				502200	510402	518598	526800	534996	19.9
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	18.98	19.13	19.15	19.09	18.50	19.9
Channel				501204	509904	518598	527298	535998	19.9
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	18.90	19.12	19.02	18.93	18.38	19.9

n41 (PC2)(ANT5)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	22
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	20.66	20.78	20.84	20.96	20.99	22
100		1	136	20.82	20.86	20.97	20.89	20.90	
100		1	271	21.06	21.00	21.03	20.75	20.83	
100		135	1	20.08	20.18	20.12	20.28	20.20	22
100		135	67	20.84	20.93	21.08	21.02	20.90	
100		135	136	20.14	20.15	20.20	20.12	20.10	
100		270	0	20.02	20.18	20.24	20.29	20.15	
100	DFT-s-OFDM QPSK	1	1	20.65	20.69	20.76	20.47	21.02	22
100		1	136	20.93	21.02	21.09	21.00	21.02	
100		1	271	21.05	21.00	21.02	20.71	20.19	
100		135	1	20.08	20.09	20.14	20.27	20.21	22
100		135	67	20.71	20.88	20.92	20.90	20.81	
100		135	136	20.14	20.23	20.18	20.09	20.04	
100		270	0	20.61	20.79	20.82	20.88	20.77	
100	DFT-s-OFDM 16QAM	1	1	19.38	19.61	19.67	19.82	19.91	21
100	DFT-s-OFDM 64QAM	1	1	18.22	18.69	18.79	18.89	19.00	20
100	DFT-s-OFDM 256QAM	1	1	16.49	17.55	17.66	17.68	17.80	19
100	CP-OFDM QPSK	1	1	19.08	19.83	20.01	20.06	20.11	21
100	CP-OFDM 16QAM	1	1	18.59	19.34	19.41	19.58	19.67	20
100	CP-OFDM 64QAM	1	1	17.75	18.36	18.44	18.58	18.57	19
100	CP-OFDM 256QAM	1	1	15.00	15.09	14.99	15.27	15.13	16
Channel				508200	513402	518598	523800	528996	22
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	20.49	20.78	20.89	21.01	20.98	22
Channel				507204	512904	518598	524298	529998	22
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	20.54	20.81	20.92	21.04	20.99	22
Channel				506202	512400	518598	524796	531000	22
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	20.46	20.70	20.93	20.97	20.94	22
Channel				505200	511902	518598	525798	531996	22
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	20.38	20.83	20.87	20.98	20.91	22
Channel				504204	511404	518598	525798	532998	22
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	20.73	20.92	21.05	21.06	20.96	22
Channel				503202	510900	518598	526296	534000	22
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	20.56	20.75	20.81	20.91	20.71	22
Channel				502200	510402	518598	526800	534996	22
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	20.70	20.84	20.95	20.98	20.73	22
Channel				501204	509904	518598	527298	535998	22
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	20.54	20.74	20.82	20.84	20.55	22

n41 (PC2)(ANT6)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	21.1
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	19.93	20.26	20.18	20.21	20.26	21.1
100		1	136	20.09	20.19	20.25	20.27	20.17	
100		1	271	20.33	20.13	20.30	20.04	20.10	
100		135	1	19.15	19.15	19.14	19.21	19.27	21.1
100		135	67	20.11	20.27	20.35	20.32	20.17	
100		135	136	19.21	19.19	19.23	19.16	19.07	
100		270	0	19.19	19.22	19.27	19.26	19.12	
100	DFT-s-OFDM QPSK	1	1	19.92	20.26	20.13	20.19	20.29	21.1
100		1	136	20.20	20.28	20.36	20.31	20.29	
100		1	271	20.32	20.12	20.35	20.10	19.46	
100		135	1	19.25	19.18	19.08	19.27	19.38	21.1
100		135	67	20.18	20.29	20.34	20.29	20.18	
100		135	136	19.31	19.24	19.15	19.23	19.21	
100		270	0	20.22	20.04	20.28	19.91	19.91	
100	DFT-s-OFDM 16QAM	1	1	18.58	18.62	18.95	19.00	19.11	20.1
100	DFT-s-OFDM 64QAM	1	1	17.42	17.59	17.50	17.49	18.20	18.1
100	DFT-s-OFDM 256QAM	1	1	15.69	16.60	16.45	16.52	17.00	17.1
100	CP-OFDM QPSK	1	1	18.28	18.77	18.66	18.28	19.31	19.1
100	CP-OFDM 16QAM	1	1	17.79	17.32	17.14	17.06	18.87	18.1
100	CP-OFDM 64QAM	1	1	16.95	17.58	17.46	17.59	17.77	18.1
100	CP-OFDM 256QAM	1	1	14.20	13.99	13.86	13.87	14.33	15.1
Channel				508200	513402	518598	523800	528996	21.1
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	19.76	20.05	20.16	20.28	20.25	21.1
Channel				507204	512904	518598	524298	529998	21.1
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	19.81	20.08	20.19	20.31	19.81	21.1
Channel				506202	512400	518598	524796	531000	21.1
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	19.73	19.97	20.20	20.24	20.21	21.1
Channel				505200	511902	518598	525798	531996	21.1
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	19.65	20.10	20.14	20.25	20.18	21.1
Channel				504204	511404	518598	525798	532998	21.1
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	20.00	20.19	20.32	20.33	20.33	21.1
Channel				503202	510900	518598	526296	534000	21.1
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	19.83	20.02	20.18	20.18	19.98	21.1
Channel				502200	510402	518598	526800	534996	21.1
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	19.97	20.11	19.90	20.25	20.00	21.1
Channel				501204	509904	518598	527298	535998	21.1
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	19.81	20.01	20.09	20.11	19.82	21.1

n41 (PC3)(ANT0)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	19.5
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	18.09	18.42	18.34	18.37	18.42	19.5
100		1	136	18.25	18.35	18.41	18.43	18.33	
100		1	271	18.49	18.29	18.46	18.20	18.26	
100		135	1	17.71	17.81	17.80	17.87	17.83	19.5
100		135	67	18.27	18.43	18.51	18.48	18.33	
100		135	136	17.77	17.85	17.89	17.82	17.73	
100		270	0	17.65	17.88	17.93	17.92	17.78	
100	DFT-s-OFDM QPSK	1	1	18.08	18.42	18.29	18.35	18.45	19.5
100		1	136	18.36	18.44	18.52	18.47	18.45	
100		1	271	18.48	18.28	18.51	18.26	17.62	
100		135	1	17.71	17.64	17.54	17.73	17.84	19.5
100		135	67	18.34	18.45	18.50	18.45	18.34	
100		135	136	17.77	17.70	17.61	17.69	17.67	
100		270	0	18.38	18.20	18.44	18.40	18.40	
100	DFT-s-OFDM 16QAM	1	1	16.74	16.78	17.11	17.16	17.27	18.5
100	DFT-s-OFDM 64QAM	1	1	15.58	15.75	15.66	15.65	16.36	17.5
100	DFT-s-OFDM 256QAM	1	1	13.85	14.76	14.61	14.68	15.16	16.5
100	CP-OFDM QPSK	1	1	16.44	16.93	16.82	16.44	17.47	18.5
100	CP-OFDM 16QAM	1	1	15.95	15.48	15.30	15.22	15.40	16.5
100	CP-OFDM 64QAM	1	1	15.11	15.74	15.62	15.75	15.93	16.5
100	CP-OFDM 256QAM	1	1	12.36	12.15	12.02	12.03	12.49	13.5
Channel				508200	513402	518598	523800	528996	19.5
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	17.92	18.21	18.32	18.44	18.41	19.5
Channel				507204	512904	518598	524298	529998	19.5
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	17.97	18.24	18.35	18.47	18.41	19.5
Channel				506202	512400	518598	524796	531000	19.5
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	17.89	18.13	18.36	18.40	18.37	19.5
Channel				505200	511902	518598	525798	531996	19.5
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	17.81	18.26	18.30	18.41	18.34	19.5
Channel				504204	511404	518598	525798	532998	19.5
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	18.16	18.35	18.48	18.49	18.49	19.5
Channel				503202	510900	518598	526296	534000	19.5
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	17.99	18.18	18.34	18.34	18.14	19.5
Channel				502200	510402	518598	526800	534996	19.5
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	18.13	18.27	18.42	18.41	18.16	19.5
Channel				501204	509904	518598	527298	535998	19.5
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	17.97	18.17	18.25	18.27	17.98	19.5

n41 (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	18.4
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	16.95	17.28	17.20	17.23	17.28	18.4
100		1	136	17.11	17.21	17.27	17.29	17.19	
100		1	271	17.35	17.15	17.32	17.06	17.12	
100		135	1	16.67	16.67	16.66	16.73	16.79	18.4
100		135	67	17.13	17.29	17.37	17.34	17.19	
100		135	136	16.73	16.71	16.75	16.68	16.69	
100		270	0	16.61	16.74	16.79	16.78	16.74	
100	DFT-s-OFDM QPSK	1	1	16.94	17.28	17.15	17.21	17.31	18.4
100		1	136	17.22	17.30	17.38	17.33	17.31	
100		1	271	17.34	17.14	17.37	17.12	16.48	
100		135	1	16.67	16.60	16.50	16.69	16.80	18.4
100		135	67	17.20	17.31	17.36	17.31	17.20	
100		135	136	16.73	16.66	16.57	16.65	16.63	
100		270	0	17.24	17.06	17.30	16.93	16.93	
100	DFT-s-OFDM 16QAM	1	1	15.60	15.64	15.97	16.02	16.13	17.4
100	DFT-s-OFDM 64QAM	1	1	14.44	14.61	14.52	14.51	15.22	16.4
100	DFT-s-OFDM 256QAM	1	1	12.71	13.62	13.47	13.54	14.02	15.4
100	CP-OFDM QPSK	1	1	15.30	15.79	15.68	15.30	15.60	16.4
100	CP-OFDM 16QAM	1	1	14.81	14.34	14.16	14.08	14.26	15.4
100	CP-OFDM 64QAM	1	1	13.97	14.60	14.48	14.61	14.79	15.4
100	CP-OFDM 256QAM	1	1	10.42	11.01	10.88	10.89	10.75	12.4
Channel				508200	513402	518598	523800	528996	18.4
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	16.78	17.07	17.18	17.30	17.27	18.4
Channel				507204	512904	518598	524298	529998	18.4
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	16.83	17.10	17.21	17.33	17.32	18.4
Channel				506202	512400	518598	524796	531000	18.4
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	16.75	16.99	17.22	17.26	17.23	18.4
Channel				505200	511902	518598	525798	531996	18.4
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	16.67	17.12	17.16	17.27	17.20	18.4
Channel				504204	511404	518598	525798	532998	18.4
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	17.02	17.21	17.34	17.35	17.35	18.4
Channel				503202	510900	518598	526296	534000	18.4
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	16.85	17.04	17.20	17.20	17.00	18.4
Channel				502200	510402	518598	526800	534996	18.4
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	16.99	17.13	17.30	17.27	17.02	18.4
Channel				501204	509904	518598	527298	535998	18.4
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	16.83	17.03	17.11	17.13	16.84	18.4

n41 (PC3)(ANT5)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	20
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	18.40	18.48	18.54	18.73	18.73	20
100		1	136	18.47	18.63	18.64	18.62	18.54	
100		1	271	18.71	18.65	18.55	18.32	18.44	
100		135	1	18.45	18.56	18.60	18.67	18.62	20
100		135	67	18.56	18.72	18.73	18.58	18.55	
100		135	136	18.67	18.69	18.63	18.48	18.36	
100		270	0	18.53	18.67	18.70	18.66	18.63	
100	DFT-s-OFDM QPSK	1	1	18.38	18.39	18.51	18.71	18.70	20
100		1	136	18.62	18.65	18.77	18.65	18.58	
100		1	271	18.68	18.68	18.58	18.55	18.56	
100		135	1	18.36	18.46	18.61	18.68	18.63	20
100		135	67	18.65	18.70	18.75	18.74	18.66	
100		135	136	18.72	18.70	18.57	18.59	18.54	
100		270	0	18.47	18.68	18.69	18.67	18.62	
100	DFT-s-OFDM 16QAM	1	1	18.34	18.35	18.42	18.65	18.68	20
100	DFT-s-OFDM 64QAM	1	1	18.38	18.44	18.53	18.68	18.70	20
100	DFT-s-OFDM 256QAM	1	1	16.83	17.24	17.35	17.51	17.54	19
100	CP-OFDM QPSK	1	1	18.48	18.53	18.69	18.67	18.70	20
100	CP-OFDM 16QAM	1	1	18.48	18.53	18.66	18.63	18.70	20
100	CP-OFDM 64QAM	1	1	17.88	18.02	18.16	18.32	18.33	19
100	CP-OFDM 256QAM	1	1	14.74	14.79	14.85	15.06	15.05	16
Channel				508200	513402	518598	523800	528996	20
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	18.44	18.49	18.44	18.57	18.65	20
Channel				507204	512904	518598	524298	529998	20
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	18.49	18.51	18.60	18.66	18.67	20
Channel				506202	512400	518598	524796	531000	20
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	18.44	18.53	18.59	18.64	18.52	20
Channel				505200	511902	518598	525798	531996	20
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	18.36	18.53	18.64	18.66	18.57	20
Channel				504204	511404	518598	525798	532998	20
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	18.53	18.68	18.70	18.73	18.60	20
Channel				503202	510900	518598	526296	534000	20
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	18.32	18.47	18.46	18.51	18.30	20
Channel				502200	510402	518598	526800	534996	20
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	18.42	18.52	18.73	18.57	18.35	20
Channel				501204	509904	518598	527298	535998	20
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	18.25	18.48	18.42	18.41	18.32	20

n41 (PC3)(ANT6)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	19.4
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	17.87	18.20	18.12	18.15	18.20	19.4
100		1	136	18.03	18.13	18.19	18.21	18.11	
100		1	271	18.27	18.07	18.24	17.98	18.04	
100		135	1	17.59	17.49	17.48	17.55	17.61	19.4
100		135	67	18.05	18.21	18.29	18.26	18.11	
100		135	136	17.65	17.53	17.57	17.50	17.51	
100		270	0	17.53	17.56	17.61	17.60	17.56	
100	DFT-s-OFDM QPSK	1	1	17.86	18.20	18.07	18.13	18.23	19.4
100		1	136	18.14	18.22	18.30	18.25	18.23	
100		1	271	18.26	18.06	18.29	18.04	17.40	
100		135	1	17.49	17.42	17.52	17.51	17.62	19.4
100		135	67	18.12	18.23	18.28	18.23	18.12	
100		135	136	17.55	17.48	17.49	17.47	17.45	
100		270	0	18.16	17.98	18.22	17.85	17.85	
100	DFT-s-OFDM 16QAM	1	1	16.52	16.56	16.89	16.94	17.05	18.4
100	DFT-s-OFDM 64QAM	1	1	15.36	15.53	15.44	15.43	15.25	16.4
100	DFT-s-OFDM 256QAM	1	1	14.25	14.54	14.39	14.46	14.25	16.4
100	CP-OFDM QPSK	1	1	16.22	16.71	16.60	16.22	16.52	17.4
100	CP-OFDM 16QAM	1	1	15.73	15.26	15.08	15.00	15.18	16.4
100	CP-OFDM 64QAM	1	1	14.89	15.52	15.40	15.53	15.71	16.4
100	CP-OFDM 256QAM	1	1	11.34	11.93	11.80	11.81	11.67	13.4
Channel				508200	513402	518598	523800	528996	19.4
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	17.70	17.99	18.10	18.22	18.19	19.4
Channel				507204	512904	518598	524298	529998	19.4
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	17.75	18.02	18.13	18.25	18.24	19.4
Channel				506202	512400	518598	524796	531000	19.4
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	17.67	17.91	18.14	18.18	18.15	19.4
Channel				505200	511902	518598	525798	531996	19.4
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	17.59	18.04	18.08	18.19	18.12	19.4
Channel				504204	511404	518598	525798	532998	19.4
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	17.94	18.13	18.26	18.27	18.27	19.4
Channel				503202	510900	518598	526296	534000	19.4
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	17.77	17.96	18.12	18.12	17.92	19.4
Channel				502200	510402	518598	526800	534996	19.4
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	17.91	18.05	18.22	18.19	17.94	19.4
Channel				501204	509904	518598	527298	535998	19.4
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	17.75	17.95	18.03	18.05	17.76	19.4

n48 (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				638000	639834	641666	643500	645332	19.5
Frequency (MHz)				3570	3597.51	3624.99	3652.5	3679.98	
40	DFT-s-OFDM PI/2 BPSK	1	1	17.94	17.99	18.29	18.39	18.29	19.5
40		1	53	18.02	18.40	18.22	18.37	18.33	
40		1	104	18.20	18.32	18.41	18.35	18.43	
40		50	1	17.57	17.69	17.78	17.90	17.85	19.5
40		50	25	18.10	18.51	18.30	18.54	18.46	
40		50	50	17.59	17.90	17.86	17.87	17.81	
40		100	0	17.53	17.90	17.72	17.93	17.89	
40	DFT-s-OFDM QPSK	1	1	18.28	18.37	18.47	18.42	18.46	19.5
40		1	53	18.09	18.40	18.32	18.41	18.45	
40		1	104	18.39	18.40	18.37	18.32	18.40	
40		50	1	17.80	17.76	17.87	17.80	17.74	19.5
40		50	25	18.22	18.23	18.33	18.31	18.33	
40		50	50	17.70	17.87	17.87	17.82	17.75	
40		100	0	18.24	18.23	18.32	18.31	18.31	
40	DFT-s-OFDM 16QAM	1	1	16.73	16.77	17.08	17.07	17.08	18.5
40	DFT-s-OFDM 64QAM	1	1	15.29	15.20	15.79	15.65	15.64	16.5
40	DFT-s-OFDM 256QAM	1	1	13.08	13.09	13.53	13.61	13.45	14.5
40	CP-OFDM QPSK	1	1	16.41	16.43	16.79	16.74	16.78	17.5
40	CP-OFDM 16QAM	1	1	15.81	15.89	16.18	16.13	16.17	17.5
40	CP-OFDM 64QAM	1	1	13.92	13.96	14.31	14.26	14.29	15.5
40	CP-OFDM 256QAM	1	1	11.14	11.16	11.54	11.45	11.50	12.5
Channel				637668	639668	641666	643666	645666	19.5
Frequency (MHz)				3565.02	3595.02	3624.99	3654.99	3684.99	
30	DFT-s-OFDM QPSK	1	1	17.97	18.05	18.41	18.36	18.35	19.5
Channel				637334	639500	641666	643832	646000	19.5
Frequency (MHz)				3560.01	3592.5	3624.99	3657.48	3690	
20	DFT-s-OFDM QPSK	1	1	17.42	17.97	18.30	18.25	18.29	19.5
Channel				637168	639418	641666	643916	646166	19.5
Frequency (MHz)				3557.52	3591.27	3624.99	3658.74	3692.49	
15	DFT-s-OFDM QPSK	1	1	17.47	18.05	18.43	18.38	18.23	19.5
Channel				637000	639334	641666	644000	646332	19.5
Frequency (MHz)				3555	3590.01	3624.99	3660	3694.98	
10	DFT-s-OFDM QPSK	1	1	17.40	17.90	18.44	18.39	18.30	19.5

n48 (PC3)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				638000	639834	641666	643500	645332	20.7
Frequency (MHz)				3570	3597.51	3624.99	3652.5	3679.98	
40	DFT-s-OFDM PI/2 BPSK	1	1	19.11	19.16	19.46	19.56	19.46	20.7
40		1	53	19.19	19.57	19.39	19.54	19.50	
40		1	104	19.37	19.49	19.58	19.52	19.60	
40		50	1	18.75	18.77	18.86	18.78	18.73	20.7
40		50	25	18.58	18.99	18.78	18.92	18.94	
40		50	50	18.77	18.78	18.74	18.75	18.79	
40		100	0	18.71	18.78	18.70	18.81	18.77	
40	DFT-s-OFDM QPSK	1	1	19.66	19.65	19.72	19.69	19.70	20.7
40		1	53	19.06	19.47	19.29	19.48	19.42	
40		1	104	19.36	19.37	19.54	19.49	19.57	
40		50	1	18.81	18.74	18.75	18.88	18.82	20.7
40		50	25	19.58	19.60	19.65	19.60	19.62	
40		50	50	18.78	18.85	18.85	18.80	18.78	
40		100	0	19.46	19.49	19.55	19.53	19.51	
40	DFT-s-OFDM 16QAM	1	1	17.90	17.94	18.25	18.24	18.25	18.7
40	DFT-s-OFDM 64QAM	1	1	16.46	17.00	16.96	16.82	16.81	17.7
40	DFT-s-OFDM 256QAM	1	1	14.25	14.26	14.70	14.78	14.62	15.7
40	CP-OFDM QPSK	1	1	17.58	17.60	17.96	17.91	17.95	18.7
40	CP-OFDM 16QAM	1	1	16.98	17.06	17.35	17.30	17.34	17.7
40	CP-OFDM 64QAM	1	1	15.09	15.13	15.48	15.43	15.46	16.7
40	CP-OFDM 256QAM	1	1	12.31	12.33	12.71	12.62	12.67	13.7
Channel				637668	639668	641666	643666	645666	20.7
Frequency (MHz)				3565.02	3595.02	3624.99	3654.99	3684.99	
30	DFT-s-OFDM QPSK	1	1	19.14	19.22	19.59	19.58	19.52	20.7
Channel				637334	639500	641666	643832	646000	20.7
Frequency (MHz)				3560.01	3592.5	3624.99	3657.48	3690	
20	DFT-s-OFDM QPSK	1	1	19.38	19.14	19.21	19.47	19.46	20.7
Channel				637168	639418	641666	643916	646166	20.7
Frequency (MHz)				3557.52	3591.27	3624.99	3658.74	3692.49	
15	DFT-s-OFDM QPSK	1	1	19.34	19.22	19.61	19.60	19.40	20.7
Channel				637000	639334	641666	644000	646332	20.7
Frequency (MHz)				3555	3590.01	3624.99	3660	3694.98	
10	DFT-s-OFDM QPSK	1	1	19.46	19.07	19.14	19.61	19.47	20.7

n48 (PC3)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				638000	639834	641666	643500	645332	18.8
Frequency (MHz)				3570	3597.51	3624.99	3652.5	3679.98	
40	DFT-s-OFDM PI/2 BPSK	1	1	16.14	16.65	17.29	17.49	17.58	18.8
40		1	53	16.58	17.25	17.28	17.59	17.69	
40		1	104	16.96	17.26	17.54	17.63	17.55	
40		50	1	16.86	16.84	16.98	17.03	17.16	18.8
40		50	25	16.95	17.37	17.41	17.51	17.41	
40		50	50	16.89	16.94	16.99	17.16	17.37	
40		100	0	16.85	16.89	16.98	17.11	17.25	
40	DFT-s-OFDM QPSK	1	1	17.53	17.61	17.73	17.57	17.55	18.8
40		1	53	17.04	17.14	17.16	17.50	17.62	
40		1	104	17.16	17.24	17.48	17.59	17.41	
40		50	1	17.07	17.06	17.11	17.11	17.04	18.8
40		50	25	17.41	17.41	17.47	17.45	17.42	
40		50	50	17.02	17.01	17.17	17.14	17.03	
40		100	0	17.42	17.32	17.40	17.31	17.44	
40	DFT-s-OFDM 16QAM	1	1	15.87	16.07	16.15	15.91	16.06	17.8
40	DFT-s-OFDM 64QAM	1	1	14.54	14.41	14.66	14.52	14.61	15.8
40	DFT-s-OFDM 256QAM	1	1	11.38	11.84	12.53	12.31	12.41	13.8
40	CP-OFDM QPSK	1	1	14.63	15.09	15.73	15.59	15.66	16.8
40	CP-OFDM 16QAM	1	1	14.62	14.85	15.18	15.12	15.22	16.8
40	CP-OFDM 64QAM	1	1	12.13	12.62	13.25	13.14	13.15	13.8
40	CP-OFDM 256QAM	1	1	10.03	11.10	10.48	10.34	10.45	11.8
Channel				637668	639668	641666	643666	645666	18.8
Frequency (MHz)				3565.02	3595.02	3624.99	3654.99	3684.99	
30	DFT-s-OFDM QPSK	1	1	17.35	16.77	17.33	17.56	17.68	18.8
Channel				637334	639500	641666	643832	646000	18.8
Frequency (MHz)				3560.01	3592.5	3624.99	3657.48	3690	
20	DFT-s-OFDM QPSK	1	1	17.31	16.70	17.35	17.48	17.66	18.8
Channel				637168	639418	641666	643916	646166	18.8
Frequency (MHz)				3557.52	3591.27	3624.99	3658.74	3692.49	
15	DFT-s-OFDM QPSK	1	1	17.32	17.30	17.40	17.30	17.40	18.8
Channel				637000	639334	641666	644000	646332	18.8
Frequency (MHz)				3555	3590.01	3624.99	3660	3694.98	
10	DFT-s-OFDM QPSK	1	1	17.42	17.40	17.42	17.45	17.30	18.8

n48 (PC3)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				638000	639834	641666	643500	645332	18.1
Frequency (MHz)				3570	3597.51	3624.99	3652.5	3679.98	
40	DFT-s-OFDM PI/2 BPSK	1	1	16.46	16.47	16.63	16.45	16.41	18.1
40		1	53	16.50	16.76	16.45	16.57	16.48	
40		1	104	16.63	16.50	16.61	16.55	16.59	
40		50	1	16.15	16.22	16.18	16.29	16.17	18.1
40		50	25	16.56	16.20	16.57	16.68	16.64	
40		50	50	16.20	16.21	16.22	16.16	16.18	
40		100	0	16.15	16.28	16.17	16.19	16.13	
40	DFT-s-OFDM QPSK	1	1	16.78	16.82	16.98	16.88	16.82	18.1
40		1	53	16.42	16.70	16.39	16.47	16.39	
40		1	104	16.60	16.44	16.56	16.48	16.53	
40		50	1	16.10	16.19	16.16	16.18	16.18	18.1
40		50	25	16.63	16.78	16.89	16.79	16.81	
40		50	50	16.17	16.12	16.19	16.16	16.14	
40		100	0	16.55	16.69	16.78	16.55	16.52	
40	DFT-s-OFDM 16QAM	1	1	15.28	15.19	15.43	15.27	15.20	16.1
40	DFT-s-OFDM 64QAM	1	1	13.83	13.82	14.04	13.82	13.79	15.1
40	DFT-s-OFDM 256QAM	1	1	11.68	11.64	11.86	11.77	11.69	12.1
40	CP-OFDM QPSK	1	1	14.94	14.90	15.11	14.92	14.94	16.1
40	CP-OFDM 16QAM	1	1	14.35	14.44	14.58	14.38	14.35	15.1
40	CP-OFDM 64QAM	1	1	13.22	13.10	13.20	13.20	13.10	14.1
40	CP-OFDM 256QAM	1	1	10.98	10.95	11.16	11.09	11.00	12.1
Channel				637668	639668	641666	643666	645666	18.1
Frequency (MHz)				3565.02	3595.02	3624.99	3654.99	3684.99	
30	DFT-s-OFDM QPSK	1	1	16.02	16.03	16.13	16.11	16.05	18.1
Channel				637334	639500	641666	643832	646000	18.1
Frequency (MHz)				3560.01	3592.5	3624.99	3657.48	3690	
20	DFT-s-OFDM QPSK	1	1	15.98	15.95	15.93	16.15	15.82	18.1
Channel				637168	639418	641666	643916	646166	18.1
Frequency (MHz)				3557.52	3591.27	3624.99	3658.74	3692.49	
15	DFT-s-OFDM QPSK	1	1	15.72	16.05	16.07	16.21	15.94	18.1
Channel				637000	639334	641666	644000	646332	18.1
Frequency (MHz)				3555	3590.01	3624.99	3660	3694.98	
10	DFT-s-OFDM QPSK	1	1	15.94	15.54	15.94	15.96	16.14	18.1

n66 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	21.7
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	20.79	20.89	20.85	21.7
40		1	108	20.73	20.72	20.54	
40		1	214	20.72	20.73	20.64	
40		108	1	20.25	20.25	20.15	21.7
40		108	54	20.83	20.77	20.65	
40		108	108	20.24	20.16	20.12	
40		216	0	20.23	20.28	20.18	
40	DFT-s-OFDM QPSK	1	1	20.90	20.85	20.88	21.7
40		1	108	20.70	20.66	20.44	
40		1	214	20.81	20.75	20.58	
40		108	1	19.95	19.78	19.92	21.7
40		108	54	20.83	20.81	20.82	
40		108	108	19.96	19.73	19.87	
40		216	0	20.80	20.72	20.69	
40	DFT-s-OFDM 16QAM	1	1	19.71	19.78	19.71	20.7
40	DFT-s-OFDM 64QAM	1	1	18.06	18.14	18.07	18.7
40	DFT-s-OFDM 256QAM	1	1	15.67	15.76	15.81	16.7
40	CP-OFDM QPSK	1	1	19.48	19.31	19.33	20.7
40	CP-OFDM 16QAM	1	1	18.74	18.77	18.64	19.7
40	CP-OFDM 64QAM	1	1	16.72	16.73	16.72	17.7
40	CP-OFDM 256QAM	1	1	13.84	13.81	13.72	14.7
Channel				345000	349000	353000	21.7
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	20.79	20.81	20.72	21.7
Channel				344000	349000	354000	21.7
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	20.73	20.68	20.64	21.7
Channel				343500	349000	354500	21.7
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	20.87	20.82	20.71	21.7
Channel				343000	349000	355000	21.7
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	20.82	20.86	20.65	21.7
Channel				342500	349000	355500	21.7
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	20.68	20.73	20.57	21.7

n66 (PC3)(ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	21.4
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	20.06	20.15	20.12	21.4
40		1	108	20.00	19.95	19.81	
40		1	214	19.99	20.11	19.91	
40		108	1	19.52	19.53	19.42	21.4
40		108	54	20.10	20.05	19.92	
40		108	108	19.51	19.51	19.39	
40		216	0	19.50	19.54	19.45	
40	DFT-s-OFDM QPSK	1	1	20.19	20.18	20.15	21.4
40		1	108	19.97	19.93	19.71	
40		1	214	20.08	20.06	19.85	
40		108	1	19.42	19.39	19.39	21.4
40		108	54	20.12	20.11	20.09	
40		108	108	19.43	19.37	19.34	
40		216	0	20.07	20.02	19.98	
40	DFT-s-OFDM 16QAM	1	1	18.98	19.08	18.98	20.3
40	DFT-s-OFDM 64QAM	1	1	17.33	17.46	17.34	18.3
40	DFT-s-OFDM 256QAM	1	1	14.94	15.10	15.08	16.3
40	CP-OFDM QPSK	1	1	18.75	18.67	18.60	19.3
40	CP-OFDM 16QAM	1	1	18.01	18.09	17.91	19.3
40	CP-OFDM 64QAM	1	1	15.99	16.10	15.99	17.3
40	CP-OFDM 256QAM	1	1	13.11	13.15	12.99	14.3
Channel				345000	349000	353000	21.4
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	20.06	20.08	19.99	21.4
Channel				344000	349000	354000	21.4
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	20.00	19.95	19.91	21.4
Channel				343500	349000	354500	21.4
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	20.14	20.09	19.98	21.4
Channel				343000	349000	355000	21.4
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	20.09	20.13	19.92	21.4
Channel				342500	349000	355500	21.4
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	19.95	20.00	19.84	21.4

n66 (PC3)(ANT5)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	20.1
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	18.86	18.95	18.92	20.1
40		1	108	18.80	18.72	18.61	
40		1	214	18.79	18.75	18.71	
40		108	1	18.32	18.30	18.22	20.1
40		108	54	18.90	18.86	18.72	
40		108	108	18.31	18.21	18.19	
40		216	0	18.30	18.36	18.25	
40	DFT-s-OFDM QPSK	1	1	18.97	18.92	18.95	20.1
40		1	108	18.77	18.73	18.51	
40		1	214	18.88	18.69	18.65	
40		108	1	18.22	18.21	18.19	20.1
40		108	54	18.90	18.84	18.89	
40		108	108	18.23	18.23	18.14	
40		216	0	18.82	18.78	18.77	
40	DFT-s-OFDM 16QAM	1	1	17.88	17.81	17.88	19.1
40	DFT-s-OFDM 64QAM	1	1	16.13	16.08	16.14	17.1
40	DFT-s-OFDM 256QAM	1	1	13.74	13.83	13.88	15.1
40	CP-OFDM QPSK	1	1	17.55	17.55	17.40	18.1
40	CP-OFDM 16QAM	1	1	16.81	16.71	16.71	17.1
40	CP-OFDM 64QAM	1	1	14.79	14.80	14.79	16.1
40	CP-OFDM 256QAM	1	1	11.91	11.91	11.79	13.1
Channel				345000	349000	353000	20.1
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	18.86	18.88	18.79	20.1
Channel				344000	349000	354000	20.1
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	18.80	18.75	18.71	20.1
Channel				343500	349000	354500	20.1
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	18.94	18.89	18.78	20.1
Channel				343000	349000	355000	20.1
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	18.89	18.93	18.72	20.1
Channel				342500	349000	355500	20.1
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	18.75	18.80	18.64	20.1

n66 (PC3)(ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	20
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	19.06	19.12	19.12	20
40		1	108	19.00	18.99	18.81	
40		1	214	18.99	19.14	18.91	
40		108	1	18.52	18.57	18.42	20
40		108	54	19.10	19.11	18.92	
40		108	108	18.51	18.56	18.39	
40		216	0	18.50	18.58	18.45	
40	DFT-s-OFDM QPSK	1	1	19.15	19.12	19.10	20
40		1	108	18.97	18.97	18.71	
40		1	214	19.08	19.09	18.85	
40		108	1	18.22	18.15	18.19	24
40		108	54	19.12	19.11	19.09	
40		108	108	18.23	18.01	18.14	
40		216	0	19.09	19.05	19.02	
40	DFT-s-OFDM 16QAM	1	1	17.98	18.10	17.98	19
40	DFT-s-OFDM 64QAM	1	1	16.33	16.49	16.34	21
40	DFT-s-OFDM 256QAM	1	1	13.94	14.13	14.08	19
40	CP-OFDM QPSK	1	1	17.75	17.81	17.60	19
40	CP-OFDM 16QAM	1	1	17.01	17.24	16.91	18
40	CP-OFDM 64QAM	1	1	14.99	15.15	14.99	16
40	CP-OFDM 256QAM	1	1	12.21	12.28	11.99	13
Channel				345000	349000	353000	20
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	19.06	19.08	18.99	20
Channel				344000	349000	354000	20
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	19.00	18.95	18.91	20
Channel				343500	349000	354500	20
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	19.14	19.09	18.98	20
Channel				343000	349000	355000	20
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	19.09	19.13	18.92	20
Channel				342500	349000	355500	20
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	18.95	19.00	18.84	20

n77(3450-3550MHz) (PC2)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			19.39			20.4
100		1	136			19.45			
100		1	271			19.20			
100		135	1			19.20			20.4
100		135	67			19.46			
100		135	136			18.59			
100	DFT-s-OFDM QPSK	270	0			19.16			20.4
100		1	1			19.48			
100		1	136			19.39			
100		1	271			19.17			20.4
100		135	1			18.86			
100		135	67			19.38			
100		135	136			18.49			20.4
100		270	0			19.33			
100	DFT-s-OFDM 16QAM	1	1			18.92			19.4
100	DFT-s-OFDM 64QAM	1	1			17.48			18.4
100	DFT-s-OFDM 256QAM	1	1			15.31			16.4
100	CP-OFDM QPSK	1	1			18.67			20.4
100	CP-OFDM 16QAM	1	1			18.10			19.4
100	CP-OFDM 64QAM	1	1			16.13			17.4
100	CP-OFDM 256QAM	1	1			13.28			14.4
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	19.30	19.29	19.27	19.22	19.29	20.4
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	19.32	19.26	19.26	19.17	19.20	20.4
Channel				632334	632634	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	19.31	19.23	19.28	19.18	19.11	20.4
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	19.13	19.10	18.99	19.00	18.97	20.4
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	19.35	19.33	19.26	19.19	19.13	20.4
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	19.26	19.24	19.03	18.95	18.72	20.4
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	19.25	19.24	19.14	19.00	18.74	20.4
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	19.10	19.00	18.95	18.91	18.71	20.4
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	19.04	19.07	19.01	18.59	18.68	20.4
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	19.01	19.04	19.06	18.53	18.69	20.4

n77(3450-3550MHz) (PC2)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			20.7
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			19.66			20.7
100		1	136			19.60			
100		1	271			19.26			
100		135	1			19.29			20.7
100		135	67			19.65			
100		135	136			18.89			
100	DFT-s-OFDM QPSK	270	0			19.14			20.7
100		1	1			19.69			
100		1	136			19.56			
100		1	271			19.23			20.7
100		135	1			18.94			
100		135	67			19.60			
100	DFT-s-OFDM 16QAM	135	136			18.99			20.7
100		270	0			19.51			
100	DFT-s-OFDM 64QAM	1	1			18.46			25.2
100	DFT-s-OFDM 256QAM	1	1			17.59			24.2
100	CP-OFDM QPSK	1	1			15.59			16.7
100	CP-OFDM 16QAM	1	1			18.62			19.7
100	CP-OFDM 64QAM	1	1			17.98			18.7
100	CP-OFDM 256QAM	1	1			16.01			16.7
100		1	1			13.25			13.7
Channel				633000	633168	633334	633500	633666	20.7
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	19.61	19.60	19.58	19.53	19.60	20.7
Channel				632668	633000	633334	633666	634000	20.7
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	19.63	19.57	19.57	19.48	19.51	20.7
Channel				632334	632834	633334	633832	634332	20.7
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	19.62	19.54	19.59	19.49	19.42	20.7
Channel				632000	632668	633334	634000	634666	20.7
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	19.44	19.41	19.30	19.31	19.28	20.7
Channel				631668	632500	633334	634166	635000	20.7
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	19.66	19.64	19.57	19.50	19.44	20.7
Channel				631334	632334	633334	634332	635332	20.7
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	19.57	19.55	19.34	19.26	19.23	20.7
Channel				631000	632168	633334	634500	635666	20.7
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	19.56	19.55	19.45	19.31	19.25	20.7
Channel				630668	632000	633334	634666	636000	20.7
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	19.41	19.31	19.26	19.22	19.22	20.7
Channel				630500	631916	633334	634750	636166	20.7
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	19.35	19.38	19.32	19.20	19.29	20.7
Channel				630334	631834	633334	634834	636332	20.7
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	19.62	19.65	19.67	19.14	19.30	20.7

n77(3450-3550MHz) (PC2)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			17.86			19
100		1	136			17.25			
100		1	271			17.35			
100		135	1			17.30			19
100	DFT-s-OFDM QPSK	135	67			17.55			
100		135	136			17.26			
100		270	0			17.52			
100		1	1			17.91			19
100	DFT-s-OFDM 16QAM	1	136			17.10			
100		1	271			17.30			
100		135	1			17.30			19
100		135	67			17.86			
100		135	136			17.08			
100	DFT-s-OFDM 64QAM	270	0			17.62			19
100		1	1			16.71			
100		1	1			15.27			
100		1	1			13.05			14
100	CP-OFDM QPSK	1	1			16.44			18
100	CP-OFDM 16QAM	1	1			15.92			10
100	CP-OFDM 64QAM	1	1			13.88			9
100	CP-OFDM 256QAM	1	1			11.08			-2
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	17.71	17.70	17.78	17.63	17.70	19
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	17.73	17.67	17.67	17.58	17.61	19
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	17.72	17.64	17.69	17.59	17.52	19
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	17.54	17.51	17.40	17.41	17.38	19
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	17.76	17.74	17.67	17.60	17.54	19
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	17.67	17.65	17.44	17.36	17.33	19
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	17.66	17.65	17.55	17.41	17.35	19
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	17.51	17.41	17.36	17.32	17.32	19
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	17.45	17.48	17.42	17.20	17.29	19
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	17.42	17.45	17.47	17.14	17.10	19

n77(3450-3550MHz) (PC2)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			18.80			19.8
100		1	136			18.57			
100		1	271			18.37			
100		135	1			18.11			19.8
100	DFT-s-OFDM QPSK	135	67			18.57			
100		135	136			18.09			
100		270	0			18.08			
100		1	1			18.81			19.8
100	DFT-s-OFDM 16QAM	1	136			18.51			
100		1	271			18.37			
100		135	1			17.99			19.8
100		135	67			18.77			
100	DFT-s-OFDM 64QAM	135	136			18.15			
100		270	0			18.69			
100	DFT-s-OFDM 256QAM	1	1			17.69			18.8
100	CP-OFDM QPSK	1	1			16.27			17.8
100	CP-OFDM 16QAM	1	1			14.05			14.8
100	CP-OFDM 64QAM	1	1			17.44			18.8
100	CP-OFDM 256QAM	1	1			16.76			17.8
100		1	1			14.82			16.8
100		1	1			12.04			12.8
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	18.64	18.63	18.61	18.56	18.63	19.8
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	16.66	18.60	18.60	18.51	18.54	19.8
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	18.65	18.57	18.62	18.52	18.45	19.8
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	18.47	18.44	18.33	18.34	18.31	19.8
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	18.69	18.67	18.75	18.53	18.47	19.8
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	18.60	18.58	18.37	18.29	18.06	19.8
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	18.59	18.58	18.48	18.34	18.08	19.8
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	18.44	18.34	18.29	18.25	18.05	19.8
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	18.38	18.41	18.35	18.08	18.02	19.8
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	18.35	18.38	18.40	18.02	18.03	19.8

n77(3450-3550MHz) (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			19.4
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			18.12			19.4
100		1	136			18.11			
100		1	271			18.17			
100		135	1			18.17			19.4
100		135	67			18.09			
100		135	136			18.19			
100	DFT-s-OFDM QPSK	270	0			18.20			19.4
100		1	1			18.22			
100		1	136			18.11			
100		1	271			18.16			20.9
100		135	1			18.05			
100		135	67			18.16			
100	DFT-s-OFDM 16QAM	135	136			18.04			19.4
100		270	0			18.14			
100		1	1			18.03			
100	DFT-s-OFDM 64QAM	1	1			16.28			17.4
100	DFT-s-OFDM 256QAM	1	1			14.46			15.4
100	CP-OFDM QPSK	1	1			17.70			19.4
100	CP-OFDM 16QAM	1	1			17.16			18.4
100	CP-OFDM 64QAM	1	1			15.44			16.4
100	CP-OFDM 256QAM	1	1			12.56			13.4
Channel				633000	633168	633334	633500	633666	19.4
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	18.00	18.04	18.06	18.01	18.14	19.4
Channel				632668	633000	633334	633666	634000	19.4
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	18.20	18.13	18.16	18.18	18.07	19.4
Channel				632334	632834	633334	633832	634332	19.4
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	18.12	18.09	18.15	18.16	18.14	19.4
Channel				632000	632668	633334	634000	634666	19.4
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	18.05	18.11	18.11	18.11	18.16	19.4
Channel				631668	632500	633334	634166	635000	19.4
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	18.19	18.19	18.11	18.18	18.11	19.4
Channel				631334	632334	633334	634332	635332	19.4
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	18.12	18.13	18.16	18.12	18.16	19.4
Channel				631000	632168	633334	634500	635666	19.4
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	18.13	16.59	18.15	18.12	18.16	19.4
Channel				630668	632000	633334	634666	636000	19.4
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	18.00	18.09	18.13	18.14	18.18	19.4
Channel				630500	631916	633334	634750	636166	19.4
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	17.98	18.09	18.15	18.18	18.17	19.4
Channel				630334	631834	633334	634834	636332	19.4
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	17.96	18.06	18.07	18.16	18.14	19.4

n77(3450-3550MHz) (PC3)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			19.7
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			18.62			19.7
100		1	136			18.61			
100		1	271			18.67			
100		135	1			18.67			19.7
100		135	67			18.59			
100		135	136			18.69			
100	DFT-s-OFDM QPSK	270	0			18.70			19.7
100		1	1			18.72			
100		1	136			18.61			
100		1	271			18.66			19.7
100		135	1			18.55			
100		135	67			18.66			
100	DFT-s-OFDM 16QAM	135	136			18.54			19.7
100		270	0			18.64			
100		1	1			18.53			
100	DFT-s-OFDM 64QAM	1	1			16.78			17.7
100	DFT-s-OFDM 256QAM	1	1			14.96			15.7
100	CP-OFDM QPSK	1	1			18.20			19.7
100	CP-OFDM 16QAM	1	1			17.66			18.7
100	CP-OFDM 64QAM	1	1			15.94			16.7
100	CP-OFDM 256QAM	1	1			13.06			13.7
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	18.50	18.54	18.56	18.51	18.64	19.7
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	18.70	18.63	18.66	18.68	18.57	19.7
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	18.62	18.59	18.65	18.66	18.64	19.7
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	18.55	18.61	18.61	18.61	18.66	19.7
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	18.69	18.69	18.61	18.68	18.61	19.7
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	18.62	18.63	18.66	18.62	18.66	19.7
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	18.63	18.59	18.65	18.62	18.66	19.7
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	18.50	18.59	18.63	18.64	18.68	19.7
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	18.48	18.59	18.65	18.68	18.67	19.7
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	18.46	18.56	18.57	18.66	18.64	19.7

n77(3450-3550MHz) (PC3)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			18
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			16.97			18
100		1	136			16.96			
100		1	271			17.02			
100		135	1			17.02			18
100		135	67			16.94			
100		135	136			17.04			
100	DFT-s-OFDM QPSK	270	0			17.05			18
100		1	1			17.07			
100		1	136			16.96			
100		1	271			17.01			18
100		135	1			16.90			
100		135	67			17.01			
100		135	136			16.89			18
100		270	0			16.99			
100	DFT-s-OFDM 16QAM	1	1			16.88			18
100	DFT-s-OFDM 64QAM	1	1			15.13			16
100	DFT-s-OFDM 256QAM	1	1			13.31			14
100	CP-OFDM QPSK	1	1			16.55			18
100	CP-OFDM 16QAM	1	1			16.01			17
100	CP-OFDM 64QAM	1	1			14.29			15
100	CP-OFDM 256QAM	1	1			11.41			12
Channel				633000	633168	633334	633500	633666	18
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	16.85	16.89	16.91	16.86	16.99	18
Channel				632668	633000	633334	633666	634000	18
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	17.05	16.98	17.01	17.03	16.92	18
Channel				632334	632834	633334	633832	634332	18
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	16.97	16.94	17.00	17.01	16.99	18
Channel				632000	632668	633334	634000	634666	18
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	16.90	16.96	16.96	16.96	17.01	18
Channel				631668	632500	633334	634166	635000	18
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	17.04	17.04	16.96	17.03	16.96	18
Channel				631334	632334	633334	634332	635332	18
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	16.97	16.98	17.01	16.97	17.01	18
Channel				631000	632168	633334	634500	635666	18
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	16.98	16.94	17.00	16.97	17.01	18
Channel				630668	632000	633334	634666	636000	18
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	16.85	16.94	16.98	16.99	17.03	18
Channel				630500	631916	633334	634750	636166	18
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3535.49	
15	DFT-s-OFDM QPSK	1	1	16.83	16.94	17.00	17.03	17.02	18
Channel				630334	631834	633334	634834	636332	18
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	16.81	16.91	16.92	17.01	16.99	18

n77(3450-3550MHz) (PC3)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			18.8
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			17.51			18.8
100		1	136			17.50			
100		1	271			17.56			
100		135	1			17.56			18.8
100		135	67			17.48			
100		135	136			17.58			
100	DFT-s-OFDM QPSK	270	0			17.59			18.8
100		1	1			17.61			
100		1	136			17.50			
100		1	271			17.55			18.8
100		135	1			17.44			
100		135	67			17.55			
100		135	136			17.43			18.8
100		270	0			17.53			
100	DFT-s-OFDM 16QAM	1	1			17.42			18.8
100	DFT-s-OFDM 64QAM	1	1			15.67			16.8
100	DFT-s-OFDM 256QAM	1	1			13.85			14.8
100	CP-OFDM QPSK	1	1			17.09			18.8
100	CP-OFDM 16QAM	1	1			16.55			17.8
100	CP-OFDM 64QAM	1	1			14.83			15.8
100	CP-OFDM 256QAM	1	1			11.95			13.8
Channel				633000	633168	633334	633500	633666	18.8
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	17.39	17.43	17.45	17.40	17.53	18.8
Channel				632668	633000	633334	633666	634000	18.8
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	17.59	17.52	17.55	17.57	17.46	18.8
Channel				632334	632834	633334	633832	634332	18.8
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	17.51	17.48	17.54	17.55	17.53	18.8
Channel				632000	632668	633334	634000	634666	18.8
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	17.44	17.50	17.50	17.50	17.55	18.8
Channel				631668	632500	633334	634166	635000	18.8
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	17.58	17.58	17.50	17.57	17.50	18.8
Channel				631334	632334	633334	634332	635332	18.8
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	17.51	17.52	17.55	17.51	17.55	18.8
Channel				631000	632168	633334	634500	635666	18.8
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	17.52	17.48	17.54	17.51	17.55	18.8
Channel				630668	632000	633334	634666	636000	18.8
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	17.39	17.48	17.52	17.53	17.57	18.8
Channel				630500	631916	633334	634750	636166	18.8
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	17.37	17.48	17.54	17.57	17.56	18.8
Channel				630334	631834	633334	634834	636332	18.8
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	17.35	17.45	17.46	17.55	17.53	18.8

n77(3700-3980MHz) (PC2)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	20.4
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	19.15	19.53	19.56	19.57	19.21	20.4
100		1	136	19.31	19.47	19.58	19.58	18.83	
100		1	271	19.34	19.53	19.50	19.36	19.45	
100		135	1	19.03	18.86	18.92	18.82	18.43	20.4
100		135	67	19.31	19.43	19.57	19.57	18.88	
100		135	136	18.69	18.93	18.85	18.84	18.63	
100		270	0	18.85	18.94	19.22	19.14	18.52	
100	DFT-s-OFDM QPSK	1	1	19.45	19.54	19.62	19.57	19.44	20.4
100		1	136	19.32	19.41	19.54	19.50	19.47	
100		1	271	19.34	19.55	19.55	19.23	19.46	
100		135	1	18.46	18.47	18.52	18.41	18.49	20.4
100		135	67	19.41	19.47	19.56	19.50	19.49	
100		135	136	18.55	18.66	18.53	18.51	18.44	
100		270	0	19.26	19.38	19.54	19.53	19.50	
100	DFT-s-OFDM 16QAM	1	1	18.16	18.33	18.37	18.49	18.20	19.4
100	DFT-s-OFDM 64QAM	1	1	16.67	17.05	17.06	17.16	16.91	18.4
100	DFT-s-OFDM 256QAM	1	1	14.56	14.77	14.93	14.91	14.72	15.4
100	CP-OFDM QPSK	1	1	17.92	18.10	18.11	18.23	17.84	19.4
100	CP-OFDM 16QAM	1	1	17.11	17.59	17.63	17.75	17.37	18.4
100	CP-OFDM 64QAM	1	1	15.15	15.62	15.65	15.82	15.37	17.4
100	CP-OFDM 256QAM	1	1	12.50	12.84	12.84	12.99	12.74	13.4
Channel				633000	633168	633334	633500	633666	20.4
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	19.45	19.44	19.42	19.37	19.44	20.4
Channel				632668	633000	633334	633666	634000	20.4
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	19.47	19.41	19.41	19.32	19.35	20.4
Channel				632334	632834	633334	633832	634332	20.4
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	19.46	19.38	19.43	19.33	19.26	20.4
Channel				632000	632668	633334	634000	634666	20.4
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	19.28	19.25	19.14	19.15	19.12	20.4
Channel				631668	632500	633334	634166	635000	20.4
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	19.50	19.48	19.56	19.34	19.28	20.4
Channel				631334	632334	633334	634332	635332	20.4
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	19.41	19.39	19.18	19.10	18.87	20.4
Channel				631000	632168	633334	634500	635666	20.4
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	19.40	19.39	19.29	19.15	18.89	20.4
Channel				630668	632000	633334	634666	636000	20.4
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	19.25	19.15	19.10	19.06	18.86	20.4
Channel				630500	631916	633334	634750	636166	20.4
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	19.19	19.22	19.16	18.89	18.83	20.4
Channel				630334	631834	633334	634834	636332	20.4
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	19.16	19.19	19.21	18.83	18.84	21.9

n77(3700-3980MHz) (PC2)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	20.7
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	19.15	19.33	19.39	19.49	19.21	20.7
100		1	136	19.31	19.29	19.43	19.14	18.83	
100		1	271	19.34	19.47	19.23	18.96	19.45	
100		135	1	19.03	18.78	18.86	18.75	18.73	20.7
100		135	67	19.31	19.27	19.42	19.16	18.88	
100		135	136	18.89	18.93	18.80	18.77	18.83	
100	DFT-s-OFDM QPSK	270	0	18.85	18.79	18.95	18.74	18.72	20.7
100		1	1	19.35	19.38	19.56	19.50	19.44	
100		1	136	19.32	19.34	19.37	19.18	18.97	
100		1	271	19.34	19.46	19.20	19.06	19.46	20.7
100		135	1	18.76	18.85	18.95	18.75	18.89	
100		135	67	19.41	19.36	19.43	19.37	19.39	
100	DFT-s-OFDM 16QAM	1	1	18.16	18.23	18.33	18.49	18.20	19.7
100		1	1	16.67	16.89	16.97	17.10	16.91	17.7
100	DFT-s-OFDM 256QAM	1	1	14.46	14.66	14.75	14.87	14.62	15.7
100	CP-OFDM QPSK	1	1	18.02	18.08	18.12	18.18	17.94	18.7
100	CP-OFDM 16QAM	1	1	17.21	17.51	17.57	17.71	17.47	18.7
100	CP-OFDM 64QAM	1	1	15.25	15.50	15.57	15.72	15.47	16.7
100	CP-OFDM 256QAM	1	1	12.50	12.71	12.81	12.92	12.84	13.7
Channel				649666	652834	656000	659166	662332	20.7
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	19.19	19.27	19.35	19.47	19.17	20.7
Channel				649334	652668	656000	659332	662666	20.7
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	19.26	19.28	19.45	19.32	19.08	20.7
Channel				649000	652500	656000	659500	663000	20.7
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	19.22	19.26	19.43	19.25	19.00	20.7
Channel				648668	652334	656000	659666	663332	20.7
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	19.06	19.20	19.22	19.00	18.74	20.7
Channel				648334	652168	656000	659832	663666	20.7
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	19.30	19.33	19.43	19.36	18.65	20.7
Channel				648000	652000	656000	660000	664000	20.7
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	19.18	19.14	19.23	19.18	18.76	20.7
Channel				647668	651834	656000	660166	664332	20.7
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	19.24	19.23	19.38	19.20	18.91	20.7
Channel				647334	651668	656000	660332	664666	20.7
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	19.12	19.10	19.23	18.91	19.06	20.7
Channel				647168	651584	656000	660416	664832	20.7
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	19.16	19.15	19.31	18.91	19.12	20.7
Channel				647000	651500	656000	660500	665000	20.7
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	19.18	19.17	19.33	18.96	19.33	20.7

n77(3700-3980MHz) (PC2)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	19
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	17.55	17.58	17.74	17.88	17.61	19
100		1	136	17.71	17.66	17.79	17.72	17.23	
100		1	271	17.74	17.81	17.82	17.51	17.85	
100		135	1	17.43	17.15	17.20	17.13	17.03	19
100		135	67	17.71	17.64	17.76	17.75	17.48	
100		135	136	17.09	17.18	17.01	17.01	17.23	
100		270	0	17.25	17.11	17.37	17.20	17.12	
100	DFT-s-OFDM QPSK	1	1	17.76	17.75	17.89	17.88	17.74	19
100		1	136	17.72	17.60	17.73	17.67	17.37	
100		1	271	17.74	17.87	17.78	17.51	17.86	
100		135	1	17.37	17.24	17.32	17.19	17.30	19
100		135	67	17.72	17.69	17.79	17.75	17.70	
100		135	136	17.26	17.34	17.19	17.21	17.15	
100		270	0	17.59	17.49	17.71	17.66	17.51	
100	DFT-s-OFDM 16QAM	1	1	16.46	16.47	16.56	16.69	16.50	18
100	DFT-s-OFDM 64QAM	1	1	14.97	15.09	15.25	15.30	15.21	16
100	DFT-s-OFDM 256QAM	1	1	12.76	12.94	12.98	13.15	12.92	14
100	CP-OFDM QPSK	1	1	16.32	16.20	16.29	16.42	16.24	17
100	CP-OFDM 16QAM	1	1	15.51	15.61	15.82	15.94	15.77	17
100	CP-OFDM 64QAM	1	1	13.55	13.67	13.82	13.97	13.77	15
100	CP-OFDM 256QAM	1	1	10.80	10.94	11.02	11.10	11.14	12
Channel				633000	633168	633334	633500	633666	19
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	17.66	17.65	17.73	17.58	17.65	19
Channel				632668	633000	633334	633666	634000	19
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	17.68	17.62	17.62	17.53	17.56	19
Channel				632334	632834	633334	633832	634332	19
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	17.67	17.59	17.64	17.54	17.47	19
Channel				632000	632668	633334	634000	634666	19
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	17.49	17.46	17.35	17.36	17.33	19
Channel				631668	632500	633334	634166	635000	19
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	17.71	17.69	17.62	17.55	17.49	19
Channel				631334	632334	633334	634332	635332	19
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	17.62	17.60	17.39	17.31	17.28	19
Channel				631000	632168	633334	634500	635666	19
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	17.61	17.60	17.50	17.36	17.30	19
Channel				630668	632000	633334	634666	636000	19
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	17.46	17.36	17.31	17.27	17.27	19
Channel				630500	631916	633334	634750	636166	19
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	17.40	17.43	17.37	17.15	17.24	19
Channel				630334	631834	633334	634834	636332	19
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	17.37	17.40	17.42	17.09	17.05	19

n77(3700-3980MHz) (PC2)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	19.8
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	18.35	18.59	18.67	18.72	18.41	19.8
100		1	136	18.51	18.56	18.64	18.64	18.13	
100		1	271	18.54	18.72	18.71	18.44	18.65	
100		135	1	18.23	18.13	18.20	18.07	18.03	19.8
100		135	67	18.51	18.72	18.74	18.75	18.48	
100		135	136	17.89	18.26	18.12	18.12	18.03	
100		270	0	18.05	18.26	18.50	18.43	17.92	
100	DFT-s-OFDM QPSK	1	1	18.75	18.78	18.83	18.75	18.74	19.8
100		1	136	18.52	18.67	18.81	18.76	18.67	
100		1	271	18.54	18.73	18.73	18.68	18.66	
100		135	1	17.86	17.85	17.88	17.81	17.89	19.8
100		135	67	18.61	18.64	18.76	18.75	18.69	
100		135	136	17.95	17.92	17.99	17.81	17.84	
100		270	0	18.60	18.64	18.66	18.61	18.57	
100	DFT-s-OFDM 16QAM	1	1	17.56	17.60	17.62	17.78	17.60	18.8
100	DFT-s-OFDM 64QAM	1	1	16.07	16.31	16.30	16.43	16.31	17.8
100	DFT-s-OFDM 256QAM	1	1	13.96	14.15	14.16	14.24	14.12	14.8
100	CP-OFDM QPSK	1	1	17.32	17.37	17.43	17.49	17.24	18.8
100	CP-OFDM 16QAM	1	1	16.51	16.85	16.79	17.03	16.77	17.8
100	CP-OFDM 64QAM	1	1	14.55	14.83	14.86	15.08	14.77	16.8
100	CP-OFDM 256QAM	1	1	11.90	12.11	12.13	12.23	12.14	12.8
Channel				633000	633168	633334	633500	633666	19.8
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	18.95	18.94	18.92	18.87	18.94	19.8
Channel				632668	633000	633334	633666	634000	19.8
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	18.97	18.91	18.91	18.82	18.85	19.8
Channel				632334	632834	633334	633832	634332	19.8
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	18.96	18.88	18.93	18.83	18.76	19.8
Channel				632000	632668	633334	634000	634666	19.8
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	18.78	18.75	18.64	18.65	18.62	19.8
Channel				631668	632500	633334	634166	635000	19.8
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	19.00	18.98	19.06	18.84	18.78	19.8
Channel				631334	632334	633334	634332	635332	19.8
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	18.91	18.89	18.68	18.60	18.37	19.8
Channel				631000	632168	633334	634500	635666	19.8
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	18.90	18.89	18.79	18.65	18.39	19.8
Channel				630668	632000	633334	634666	636000	19.8
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	18.75	18.65	18.60	18.56	18.36	19.8
Channel				630500	631916	633334	634750	636166	19.8
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	18.69	18.72	18.66	18.39	18.33	19.8
Channel				630334	631834	633334	634834	636332	19.8
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	18.66	18.69	18.71	18.33	18.34	19.8

n77(3700-3980MHz) (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	19.4
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	18.07	18.06	18.15	18.04	18.20	19.4
100		1	136	18.02	18.03	18.05	18.03	18.10	
100		1	271	18.01	18.20	18.11	18.06	18.10	
100		135	1	17.96	17.96	18.01	18.02	18.12	19.4
100		135	67	17.96	18.04	18.00	17.90	18.10	
100		135	136	18.01	18.14	18.05	18.11	18.06	
100	DFT-s-OFDM QPSK	270	0	17.99	18.14	18.10	18.13	18.14	19.4
100		1	1	18.06	18.12	18.24	18.09	18.19	
100		1	136	17.94	17.95	17.93	17.96	18.03	
100		1	271	18.16	18.10	18.20	18.12	18.13	19.4
100		135	1	17.95	17.92	17.98	18.03	18.09	
100		135	67	18.10	18.13	18.16	18.11	18.01	
100	DFT-s-OFDM 16QAM	135	136	17.96	17.94	17.94	17.96	18.03	19.4
100		270	0	18.05	18.09	18.06	18.11	18.16	
100	DFT-s-OFDM 64QAM	1	1	17.83	17.93	17.99	17.93	18.04	19.4
100	DFT-s-OFDM 256QAM	1	1	16.17	16.30	16.39	16.30	16.42	17.4
100	CP-OFDM QPSK	1	1	14.24	14.46	14.51	14.43	14.56	15.4
100	CP-OFDM 16QAM	1	1	17.61	17.50	16.81	17.66	16.84	19.4
100	CP-OFDM 64QAM	1	1	16.91	17.03	17.14	17.08	17.20	18.4
100	CP-OFDM 256QAM	1	1	15.37	15.51	15.56	15.56	15.67	16.4
100	CP-OFDM 256QAM	1	1	12.32	12.53	12.59	12.56	12.66	14.4
Channel				649666	652834	656000	659166	662332	19.4
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	18.01	18.10	17.96	17.88	18.15	19.4
Channel				649334	652668	656000	659332	662666	19.4
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	17.93	17.94	17.93	17.97	18.10	19.4
Channel				649000	652500	656000	659500	663000	19.4
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	17.83	17.92	17.95	18.02	18.03	19.4
Channel				648668	652334	656000	659666	663332	19.4
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	17.76	17.72	17.80	17.91	17.96	19.4
Channel				648334	652168	656000	659832	663666	19.4
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	17.86	17.99	18.01	18.06	18.03	19.4
Channel				648000	652000	656000	660000	664000	19.4
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	17.87	17.87	17.85	17.93	17.83	19.4
Channel				647668	651834	656000	660166	664332	19.4
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	17.97	17.98	17.96	18.10	17.92	19.4
Channel				647334	651668	656000	660332	664666	19.4
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	17.88	17.79	17.72	17.81	17.77	19.4
Channel				647168	651584	656000	660416	664832	19.4
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	17.82	17.93	17.81	17.83	17.82	19.4
Channel				647000	651500	656000	660500	665000	19.4
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	17.78	17.90	17.78	17.93	17.75	19.4

n77(3700-3980MHz) (PC3)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	19.7
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	18.57	18.56	18.65	18.54	18.70	19.7
100		1	136	18.52	18.53	18.55	18.53	18.60	
100		1	271	18.51	18.70	18.61	18.56	18.60	
100		135	1	18.46	18.46	18.51	18.52	18.62	19.7
100		135	67	18.46	18.54	18.50	18.40	18.60	
100		135	136	18.51	18.64	18.55	18.61	18.56	
100	DFT-s-OFDM QPSK	270	0	18.49	18.64	18.60	18.63	18.64	19.7
100		1	1	18.56	18.62	18.74	18.59	18.69	
100		1	136	18.44	18.45	18.43	18.46	18.53	
100		1	271	18.66	18.60	18.70	18.62	18.63	19.7
100		135	1	18.45	18.42	18.48	18.53	18.59	
100		135	67	18.60	18.63	18.66	18.61	18.51	
100	DFT-s-OFDM 16QAM	1	1	18.33	18.43	18.49	18.43	18.54	19.5
100		1	1	16.67	16.80	16.89	16.80	16.92	17.5
100	DFT-s-OFDM 256QAM	1	1	14.74	14.96	15.01	14.93	15.06	16
100	CP-OFDM QPSK	1	1	18.11	18.00	17.31	18.16	17.34	19
100	CP-OFDM 16QAM	1	1	17.41	17.53	17.64	17.58	17.70	18.5
100	CP-OFDM 64QAM	1	1	15.87	16.01	16.06	16.06	16.17	17
100	CP-OFDM 256QAM	1	1	12.82	13.03	13.09	13.06	13.16	14
Channel				649666	652834	656000	659166	662332	19.7
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	18.51	18.60	18.46	18.38	18.65	19.7
Channel				649334	652668	656000	659332	662666	19.7
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	18.43	18.44	18.43	18.47	18.60	19.7
Channel				649000	652500	656000	659500	663000	19.7
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	18.33	18.42	18.45	18.52	18.53	19.7
Channel				648668	652334	656000	659666	663332	19.7
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	18.26	18.22	18.30	18.41	18.46	19.7
Channel				648334	652168	656000	659832	663666	19.7
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	18.36	18.49	18.51	18.56	18.53	19.7
Channel				648000	652000	656000	660000	664000	19.7
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	18.37	18.37	18.35	18.43	18.33	19.7
Channel				647668	651834	656000	660166	664332	19.7
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	18.47	18.48	18.46	18.60	18.42	19.7
Channel				647334	651668	656000	660332	664666	19.7
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	18.38	18.29	18.22	18.31	18.27	19.7
Channel				647168	651584	656000	660416	664832	19.7
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	18.32	18.43	18.31	18.33	18.32	19.7
Channel				647000	651500	656000	660500	665000	19.7
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	18.28	18.40	18.28	18.43	18.25	19.7

n77(3700-3980MHz) (PC3)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	18
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	16.87	16.86	16.95	16.84	17.00	18
100		1	136	16.82	16.83	16.85	16.83	16.90	
100		1	271	16.81	17.00	16.91	16.86	16.90	
100		135	1	16.76	16.76	16.81	16.82	16.92	18
100		135	67	16.76	16.84	16.80	16.70	16.90	
100		135	136	16.81	16.94	16.85	16.91	16.86	
100	DFT-s-OFDM QPSK	270	0	16.79	16.94	16.90	16.93	16.94	18
100		1	1	16.86	16.92	17.04	16.89	16.99	
100		1	136	16.74	16.75	16.73	16.76	16.83	
100		1	271	16.96	16.90	17.00	16.92	16.93	18
100		135	1	16.75	16.72	16.78	16.83	16.89	
100		135	67	16.90	16.93	16.96	16.91	16.81	
100	DFT-s-OFDM 16QAM	1	1	16.63	16.73	16.79	16.73	16.84	18
100		1	1	14.97	15.10	15.19	15.10	15.22	16
100	DFT-s-OFDM 256QAM	1	1	13.04	13.26	13.31	13.23	13.36	14
100	CP-OFDM QPSK	1	1	16.41	16.30	15.61	16.46	15.64	18
100	CP-OFDM 16QAM	1	1	15.71	15.83	15.94	15.88	16.00	17
100	CP-OFDM 64QAM	1	1	14.17	14.31	14.36	14.36	14.47	15
100	CP-OFDM 256QAM	1	1	11.12	11.33	11.39	11.36	11.46	12
Channel				649666	652834	656000	659166	662332	18
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	16.81	16.90	16.76	16.68	16.95	18
Channel				649334	652668	656000	659332	662666	18
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	16.73	16.74	16.73	16.77	16.90	18
Channel				649000	652500	656000	659500	663000	18
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	16.63	16.72	16.75	16.82	16.83	18
Channel				648668	652334	656000	659666	663332	18
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	16.56	16.52	16.60	16.71	16.76	18
Channel				648334	652168	656000	659832	663666	18
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	16.66	16.79	16.81	16.86	16.83	18
Channel				648000	652000	656000	660000	664000	18
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	16.67	16.67	16.65	16.73	16.63	18
Channel				647668	651834	656000	660166	664332	18
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	16.77	16.78	16.76	16.90	16.72	18
Channel				647334	651668	656000	660332	664666	18
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	16.68	16.59	16.52	16.61	16.57	18
Channel				647168	651584	656000	660416	664832	18
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	16.62	16.73	16.61	16.63	16.62	18
Channel				647000	651500	656000	660500	665000	18
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	16.58	16.70	16.58	16.73	16.55	18

n77(3700-3980MHz) (PC3)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	18.8
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	17.48	17.47	17.56	17.45	17.61	18.8
100		1	136	17.43	17.44	17.46	17.44	17.51	
100		1	271	17.42	17.61	17.52	17.47	17.51	
100		135	1	17.37	17.37	17.42	17.43	17.53	18.8
100		135	67	17.37	17.45	17.41	17.31	17.51	
100		135	136	17.42	17.55	17.46	17.52	17.47	
100	DFT-s-OFDM QPSK	270	0	17.40	17.55	17.51	17.54	17.55	18.8
100		1	1	17.47	17.53	17.65	17.50	17.60	
100		1	136	17.35	17.36	17.34	17.37	17.44	
100		1	271	17.57	17.51	17.61	17.53	17.54	18.8
100		135	1	17.36	17.33	17.39	17.44	17.50	
100		135	67	17.51	17.54	17.57	17.52	17.42	
100	DFT-s-OFDM 16QAM	1	1	17.24	17.34	17.40	17.34	17.45	18.8
100		1	1	15.58	15.71	15.80	15.71	15.83	16.8
100	DFT-s-OFDM 256QAM	1	1	13.65	13.87	13.92	13.84	13.97	14.8
100	CP-OFDM QPSK	1	1	17.02	16.91	16.22	17.07	16.25	18.8
100	CP-OFDM 16QAM	1	1	16.32	16.44	16.55	16.49	16.61	17.8
100	CP-OFDM 64QAM	1	1	14.78	14.92	14.97	14.97	15.08	15.8
100	CP-OFDM 256QAM	1	1	11.73	11.94	12.00	11.97	12.07	13.8
Channel				649666	652834	656000	659166	662332	18.8
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	17.42	17.51	17.37	17.29	17.56	18.8
Channel				649334	652668	656000	659332	662666	18.8
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	17.34	17.35	17.34	17.38	17.51	18.8
Channel				649000	652500	656000	659500	663000	18.8
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	17.24	17.33	17.36	17.43	17.44	18.8
Channel				648668	652334	656000	659666	663332	18.8
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	17.17	17.13	17.21	17.32	17.37	18.8
Channel				648334	652168	656000	659832	663666	18.8
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	17.27	17.40	17.42	17.47	17.44	18.8
Channel				648000	652000	656000	660000	664000	18.8
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	17.28	17.28	17.26	17.34	17.24	18.8
Channel				647668	651834	656000	660166	664332	18.8
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	17.38	17.39	17.37	17.51	17.33	18.8
Channel				647334	651668	656000	660332	664666	18.8
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	17.29	17.20	17.13	17.22	17.18	18.8
Channel				647168	651584	656000	660416	664832	18.8
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	17.23	17.34	17.22	17.24	17.23	18.8
Channel				647000	651500	656000	660500	665000	18.8
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	17.19	17.31	17.19	17.34	17.16	18.8

n78(3450-3550MHz) (PC2)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			18.38			19.4
100		1	136			18.32			
100		1	271			18.29			
100		135	1			18.27			19.4
100		135	67			18.24			
100		135	136			17.71			
100		270	0			18.28			
100	DFT-s-OFDM QPSK	1	1			18.40			19.4
100		1	136			18.38			
100		1	271			18.18			
100		135	1			17.96			19.4
100		135	67			18.37			
100		135	136			17.43			
100		270	0			18.26			
100	DFT-s-OFDM 16QAM	1	1			17.89			18.4
100	DFT-s-OFDM 64QAM	1	1			16.69			17.4
100	DFT-s-OFDM 256QAM	1	1			14.41			15.4
100	CP-OFDM QPSK	1	1			17.81			19.4
100	CP-OFDM 16QAM	1	1			17.21			18.4
100	CP-OFDM 64QAM	1	1			15.27			17.4
100	CP-OFDM 256QAM	1	1			12.58			13.4
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	18.29	18.26	18.23	18.25	18.28	19.4
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	18.30	18.19	18.27	18.31	18.17	19.4
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	18.26	18.24	18.25	18.14	18.16	19.4
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	18.15	18.09	18.08	17.95	17.92	19.4
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	18.22	18.12	18.08	18.23	18.10	19.4
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	18.19	17.15	17.92	17.96	17.70	19.4
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	18.25	18.16	18.09	18.01	17.93	19.4
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	18.16	18.03	18.04	18.03	17.95	19.4
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	18.18	18.14	18.01	18.01	17.89	19.4
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	18.20	18.19	18.07	17.86	18.10	19.4

n78(3450-3550MHz) (PC2)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			19.9
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			18.90			19.9
100		1	136			18.88			
100		1	271			18.51			
100		135	1			18.52			19.9
100		135	67			18.88			
100		135	136			17.91			
100	DFT-s-OFDM QPSK	270	0			18.41			19.9
100		1	1			18.95			
100		1	136			18.80			
100		1	271			18.49			19.9
100		135	1			18.01			
100		135	67			18.82			
100	DFT-s-OFDM 16QAM	135	136			17.92			19.9
100		270	0			17.90			
100	DFT-s-OFDM 64QAM	1	1			18.10			18.9
100	DFT-s-OFDM 256QAM	1	1			16.34			17.2
100	CP-OFDM QPSK	1	1			14.46			15.2
100	CP-OFDM 16QAM	1	1			17.86			18.9
100	CP-OFDM 64QAM	1	1			17.27			17.9
100	CP-OFDM 256QAM	1	1			15.36			15.9
100		1	1			12.55			12.9
Channel				633000	633166	633334	633500	633666	19.9
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	18.94	18.81	18.88	18.90	18.93	19.9
Channel				632668	633000	633334	633666	634000	19.9
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	18.90	18.84	18.92	18.90	18.82	19.9
Channel				632334	632834	633334	633832	634332	19.9
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	18.91	18.89	18.90	18.79	18.81	19.9
Channel				632000	632666	633334	634000	634666	19.9
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	18.80	18.74	18.73	18.60	18.57	19.9
Channel				631668	632500	633334	634166	635000	19.9
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	18.77	18.77	18.73	18.88	18.75	19.9
Channel				631334	636672	633334	634334	635332	19.9
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	18.84	17.80	18.57	18.61	18.35	19.9
Channel				631000	632166	633334	634500	635666	19.9
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	18.90	18.81	18.74	18.66	18.18	19.9
Channel				630668	632000	633334	634668	636000	19.9
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	18.81	18.68	18.69	18.28	18.20	19.9
Channel				630500	631916	633334	634750	636166	19.9
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	18.83	18.79	18.66	18.26	18.14	19.9
Channel				630334	631834	633334	634834	636332	19.9
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	18.85	18.84	18.72	18.51	18.35	19.9

n78(3450-3550MHz) (PC2)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			17.33			18.5
100		1	136			16.66			
100		1	271			16.79			
100		135	1			16.54			18.5
100		135	67			16.52			
100		135	136			16.59			
100		270	0			16.74			
100	DFT-s-OFDM QPSK	1	1			17.48			18.5
100		1	136			16.66			
100		1	271			17.05			
100		135	1			17.07			18.5
100		135	67			17.44			
100		135	136			16.52			
100		270	0			17.29			
100	DFT-s-OFDM 16QAM	1	1			16.16			17.5
100	DFT-s-OFDM 64QAM	1	1			14.78			15.5
100	DFT-s-OFDM 256QAM	1	1			12.54			13.5
100	CP-OFDM QPSK	1	1			15.91			17.5
100	CP-OFDM 16QAM	1	1			15.28			16.5
100	CP-OFDM 64QAM	1	1			13.34			14.5
100	CP-OFDM 256QAM	1	1			10.66			11.5
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	17.37	17.44	17.31	17.33	17.36	18.5
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	17.38	17.27	17.35	17.39	17.25	18.5
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	17.34	17.32	17.33	17.22	17.24	18.5
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	17.23	17.17	17.16	17.03	17.00	18.5
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	17.40	17.40	17.16	17.31	17.18	18.5
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	17.27	16.23	17.00	17.04	16.78	18.5
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	17.33	17.24	17.17	17.09	16.61	18.5
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	17.24	17.11	17.12	16.71	16.63	18.5
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	17.26	17.22	17.09	16.69	16.57	18.5
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	17.28	17.27	17.15	16.94	16.78	18.5

n78(3450-3550MHz) (PC2)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			17.24			18.3
100		1	136			17.07			
100		1	271			17.14			
100		135	1			16.93			18.3
100		135	67			17.25			
100		135	136			16.46			
100		270	0			16.86			
100	DFT-s-OFDM QPSK	1	1			17.30			18.3
100		1	136			17.00			
100		1	271			17.04			
100		135	1			16.70			18.3
100		135	67			17.25			
100		135	136			16.48			
100		270	0			17.19			
100	DFT-s-OFDM 16QAM	1	1			16.51			17.3
100	DFT-s-OFDM 64QAM	1	1			15.09			16.3
100	DFT-s-OFDM 256QAM	1	1			12.89			13.3
100	CP-OFDM QPSK	1	1			16.24			17.3
100	CP-OFDM 16QAM	1	1			15.63			16.3
100	CP-OFDM 64QAM	1	1			13.73			14.3
100	CP-OFDM 256QAM	1	1			11.01			12.3
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	17.19	17.16	17.23	17.15	17.18	18.3
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	17.20	17.09	17.17	17.21	17.07	18.3
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	17.16	17.14	17.15	17.04	17.06	18.3
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	17.05	16.99	16.98	16.85	16.82	18.3
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	17.12	17.02	16.98	17.13	17.00	18.3
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	17.09	16.05	16.82	16.86	16.60	18.3
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	17.15	17.06	16.99	16.91	16.83	18.3
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	17.06	16.93	16.94	16.93	16.85	18.3
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	17.08	17.04	16.91	16.91	16.79	18.3
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	17.10	17.09	16.97	16.76	17.00	18.3

n78(3450-3550MHz) (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			17.4
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			16.50			17.4
100		1	136			16.43			
100		1	271			16.47			
100		135	1			16.45			17.4
100		135	67			16.56			
100		135	136			12.65			
100	DFT-s-OFDM QPSK	270	0			16.52			17.4
100		1	1			16.58			
100		1	136			16.38			
100		1	271			16.48			17.4
100		135	1			16.42			
100		135	67			16.51			
100	DFT-s-OFDM 16QAM	135	136			16.41			17.4
100		270	0			16.44			
100	DFT-s-OFDM 64QAM	1	1			16.44			17.4
100	DFT-s-OFDM 256QAM	1	1			15.69			16.4
100	CP-OFDM QPSK	1	1			13.78			14.4
100	CP-OFDM 16QAM	1	1			16.54			17.4
100	CP-OFDM 64QAM	1	1			15.38			16.4
100	CP-OFDM 256QAM	1	1			16.42			17.4
100		1	1			11.96			13.4
Channel				633000	633166	633334	633500	633666	17.4
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	16.40	16.38	16.47	16.52	16.53	17.4
Channel				632668	633000	633334	633666	634000	17.4
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	16.39	16.36	16.40	16.47	16.46	17.4
Channel				632334	632834	633334	633832	634332	17.4
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	16.30	16.49	16.45	16.38	16.51	17.4
Channel				632000	632666	633334	634000	634666	17.4
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	16.30	16.32	16.32	16.29	16.37	17.4
Channel				631668	632500	633334	634166	635000	17.4
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	16.26	16.32	16.46	16.47	16.44	17.4
Channel				631334	636672	633334	634334	635332	17.4
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	16.27	16.26	16.31	16.31	16.48	17.4
Channel				631000	632166	633334	634500	635666	17.4
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	16.31	16.31	16.55	16.47	16.46	17.4
Channel				630668	632000	633334	634668	636000	17.4
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	16.21	16.32	16.35	16.45	16.38	17.4
Channel				630500	631916	633334	634750	636166	17.4
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	16.11	16.20	16.38	16.48	16.54	17.4
Channel				630334	631834	633334	634834	636332	17.4
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	16.10	16.25	16.45	16.50	16.51	17.4

n78(3450-3550MHz) (PC3)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			16.5
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			15.40			16.5
100		1	136			15.33			
100		1	271			15.37			
100		135	1			15.35			16.5
100		135	67			15.46			
100		135	136			11.55			
100	DFT-s-OFDM QPSK	270	0			15.42			16.5
100		1	1			15.48			
100		1	136			15.28			
100		1	271			15.38			16.5
100		135	1			15.32			
100		135	67			15.41			
100	DFT-s-OFDM 16QAM	135	136			15.31			16.5
100		270	0			15.34			
100	DFT-s-OFDM 64QAM	1	1			15.34			16.5
100	DFT-s-OFDM 256QAM	1	1			14.59			15.5
100	CP-OFDM QPSK	1	1			12.68			13.5
100	CP-OFDM 16QAM	1	1			15.44			16.5
100	CP-OFDM 64QAM	1	1			14.28			15.5
100	CP-OFDM 256QAM	1	1			15.32			16.5
100		1	1			10.86			11.5
Channel				633000	633166	633334	633500	633666	16.5
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	15.30	15.28	15.37	15.42	15.43	16.5
Channel				632668	633000	633334	633666	634000	16.5
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	15.29	15.26	15.30	15.37	15.36	16.5
Channel				632334	632834	633334	633832	634332	16.5
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	15.20	15.39	15.35	15.28	15.41	16.5
Channel				632000	632666	633334	634000	634666	16.5
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	15.20	15.22	15.22	15.19	15.27	16.5
Channel				631668	632500	633334	634166	635000	16.5
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	15.16	15.22	15.36	15.37	15.34	16.5
Channel				631334	636672	633334	634334	635332	16.5
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	15.17	15.16	15.21	15.21	15.38	16.5
Channel				631000	632166	633334	634500	635666	16.5
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	15.21	15.21	15.45	15.37	15.36	16.5
Channel				630668	632000	633334	634668	636000	16.5
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	15.11	15.22	15.25	15.35	15.28	16.5
Channel				630500	631916	633334	634750	636166	16.5
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	15.01	15.10	15.28	15.38	15.44	16.5
Channel				630334	631834	633334	634834	636332	16.5
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	15.00	15.15	15.35	15.40	15.41	16.5

n78(3450-3550MHz) (PC3)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			17.9
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			16.85			17.9
100		1	136			16.78			
100		1	271			16.82			
100		135	1			16.80			17.9
100		135	67			16.91			
100		135	136			13.00			
100	DFT-s-OFDM QPSK	270	0			16.87			17.9
100		1	1			16.93			
100		1	136			16.73			
100		1	271			16.83			17.9
100		135	1			16.77			
100		135	67			16.86			
100		135	136			16.76			17.9
100		270	0			16.79			
100	DFT-s-OFDM 16QAM	1	1			16.79			17.9
100	DFT-s-OFDM 64QAM	1	1			16.04			16.9
100	DFT-s-OFDM 256QAM	1	1			14.13			14.9
100	CP-OFDM QPSK	1	1			16.89			17.9
100	CP-OFDM 16QAM	1	1			15.73			16.9
100	CP-OFDM 64QAM	1	1			16.77			17.9
100	CP-OFDM 256QAM	1	1			12.31			12.9
Channel				633000	633166	633334	633500	633666	17.9
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	16.75	16.73	16.82	16.87	16.88	17.9
Channel				632668	633000	633334	633666	634000	17.9
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	16.74	16.71	16.75	16.82	16.81	17.9
Channel				632334	632834	633334	633832	634332	17.9
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	16.65	16.84	16.80	16.73	16.86	17.9
Channel				632000	632666	633334	634000	634666	17.9
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	16.65	16.67	16.67	16.64	16.72	17.9
Channel				631668	632500	633334	634166	635000	17.9
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	16.61	16.67	16.81	16.82	16.79	17.9
Channel				631334	636672	633334	634334	635332	17.9
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	16.62	16.61	16.66	16.66	16.83	17.9
Channel				631000	632166	633334	634500	635666	17.9
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	16.66	16.66	16.90	16.82	16.81	17.9
Channel				630668	632000	633334	634668	636000	17.9
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	16.56	16.67	16.70	16.80	16.73	17.9
Channel				630500	631916	633334	634750	636166	17.9
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	16.46	16.55	16.73	16.83	16.89	17.9
Channel				630334	631834	633334	634834	636332	17.9
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	16.45	16.60	16.80	16.85	16.86	17.9

n78(3450-3550MHz) (PC3)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			16.3
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			15.22			16.3
100		1	136			15.15			
100		1	271			15.19			
100		135	1			15.17			16.3
100		135	67			15.28			
100		135	136			11.37			
100	DFT-s-OFDM QPSK	270	0			15.24			16.3
100		1	1			15.30			
100		1	136			15.10			
100		1	271			15.20			16.3
100		135	1			15.14			
100		135	67			15.23			
100	DFT-s-OFDM 16QAM	135	136			15.13			16.3
100		270	0			15.16			
100	DFT-s-OFDM 64QAM	1	1			15.16			16.3
100	DFT-s-OFDM 256QAM	1	1			14.41			15.3
100	CP-OFDM QPSK	1	1			12.50			13.3
100	CP-OFDM 16QAM	1	1			15.26			16.3
100	CP-OFDM 64QAM	1	1			14.10			15.3
100	CP-OFDM 256QAM	1	1			15.14			15.3
100						10.68			12.3
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	15.10	15.08	15.17	15.22	15.23	16.3
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	15.09	15.06	15.10	15.17	15.16	16.3
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	15.00	15.19	15.15	15.08	15.21	16.3
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	15.00	15.02	15.02	14.99	15.07	16.3
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	14.96	15.02	15.16	15.17	15.14	16.3
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	14.97	14.96	15.01	15.01	15.18	16.3
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	15.01	15.01	15.25	15.17	15.16	16.3
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	14.91	15.02	15.05	15.15	15.08	16.3
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	14.81	14.90	15.08	15.18	15.24	16.3
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	14.80	14.95	15.15	15.20	15.21	16.3

n78(3700-3800MHz) (PC2)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			18.02			19.4
100		1	136			18.11			
100		1	271			18.18			
100		135	1			17.89			19.4
100		135	67			18.11			
100		135	136			17.56			
100		270	0			17.74			
100	DFT-s-OFDM QPSK	1	1			18.24			19.4
100		1	136			18.05			
100		1	271			18.11			
100		135	1			17.68			19.4
100		135	67			18.15			
100		135	136			17.58			
100		270	0			18.10			
100	DFT-s-OFDM 16QAM	1	1			17.42			18.4
100	DFT-s-OFDM 64QAM	1	1			16.03			17.4
100	DFT-s-OFDM 256QAM	1	1			13.79			14.4
100	CP-OFDM QPSK	1	1			17.16			18.4
100	CP-OFDM 16QAM	1	1			16.61			17.4
100	CP-OFDM 64QAM	1	1			14.57			15.4
100	CP-OFDM 256QAM	1	1			11.81			12.4
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	18.09	18.06	18.13	18.05	18.08	19.4
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	18.10	17.99	18.07	18.11	17.97	19.4
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	18.06	18.04	18.05	17.94	17.96	19.4
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	17.95	17.89	17.88	17.75	17.72	19.4
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	18.02	17.92	17.88	18.03	17.90	19.4
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	17.99	16.95	17.72	17.76	17.50	19.4
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	18.05	17.96	17.89	17.81	17.73	19.4
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	17.96	17.83	17.84	17.83	17.75	19.4
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	17.98	17.94	17.81	17.81	17.69	19.4
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	18.00	17.99	17.87	17.66	17.90	19.4

n78(3700-3800MHz) (PC2)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			19.9
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			18.62			19.9
100		1	136			18.63			
100		1	271			18.69			
100		135	1			18.35			19.9
100		135	67			18.65			
100		135	136			18.03			
100	DFT-s-OFDM QPSK	270	0			18.20			19.9
100		1	1			18.78			
100		1	136			18.66			
100		1	271			18.71			19.9
100		135	1			18.17			
100		135	67			18.62			
100		135	136			18.01			19.9
100		270	0			18.58			
100	DFT-s-OFDM 16QAM	1	1			17.39			17.9
100	DFT-s-OFDM 64QAM	1	1			15.99			16.9
100	DFT-s-OFDM 256QAM	1	1			13.75			14.9
100	CP-OFDM QPSK	1	1			17.18			17.9
100	CP-OFDM 16QAM	1	1			16.61			16.9
100	CP-OFDM 64QAM	1	1			15.22			15.9
100	CP-OFDM 256QAM	1	1			11.83			12.9
Channel				649668	649834	650000	650166	650332	19.9
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	18.51	18.60	18.59	18.65	18.68	19.9
Channel				649334	649666	650000	650334	650666	19.9
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	18.60	18.55	18.67	18.73	18.74	19.9
Channel				649000	649500	650000	650500	651000	19.9
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	18.55	18.66	18.74	18.70	18.71	19.9
Channel				648668	649334	650000	650666	651332	19.9
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	18.38	18.55	18.59	18.65	18.55	19.9
Channel				648334	649166	650000	650834	651666	19.9
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	18.60	18.71	18.78	18.78	18.71	19.9
Channel				648000	649000	650000	651000	652000	19.9
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	18.47	18.73	18.70	18.58	18.57	19.9
Channel				647668	648834	650000	651166	652332	19.9
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	18.50	18.73	18.77	18.58	18.53	19.9
Channel				647334	648666	650000	651334	652666	19.9
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	18.38	18.74	18.63	18.48	18.32	19.9
Channel				647168	648584	650000	651416	652832	19.9
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	18.46	18.74	18.72	18.56	18.42	19.9
Channel				647000	648500	650000	651500	653000	19.9
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	18.49	18.70	18.70	18.55	18.57	19.9

n78(3700-3800MHz) (PC2)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			17.26			18.5
100		1	136			16.85			
100		1	271			17.06			
100		135	1			17.11			18.5
100		135	67			16.96			
100		135	136			16.97			
100		270	0			17.03			
100	DFT-s-OFDM QPSK	1	1			17.41			18.5
100		1	136			16.89			
100		1	271			17.03			
100		135	1			16.61			18.5
100		135	67			17.37			
100		135	136			16.45			
100		270	0			17.24			
100	DFT-s-OFDM 16QAM	1	1			15.18			16.5
100	DFT-s-OFDM 64QAM	1	1			13.82			15.5
100	DFT-s-OFDM 256QAM	1	1			11.47			12.5
100	CP-OFDM QPSK	1	1			14.96			16.5
100	CP-OFDM 16QAM	1	1			14.32			15.5
100	CP-OFDM 64QAM	1	1			12.38			13.5
100	CP-OFDM 256QAM	1	1			9.61			10.5
Channel				649668	649834	650000	650166	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	17.09	17.18	17.17	17.23	17.26	18.5
Channel				649334	649666	650000	650334	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	17.18	17.13	17.25	17.31	17.36	18.5
Channel				649000	649500	650000	650500	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	16.93	17.04	17.12	17.27	17.29	18.5
Channel				648668	649334	650000	650666	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	16.76	16.93	16.97	17.03	16.93	18.5
Channel				648334	649166	650000	650834	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	16.98	17.19	17.26	17.16	17.09	18.5
Channel				648000	649000	650000	651000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	16.85	17.11	17.18	17.16	17.15	18.5
Channel				647668	648834	650000	651166	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	16.88	17.11	17.15	17.16	17.11	18.5
Channel				647334	648666	650000	651334	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	16.76	17.12	17.01	17.06	16.90	18.5
Channel				647168	648584	650000	651416	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	16.84	17.12	17.10	17.14	17.00	18.5
Channel				647000	648500	650000	651500	652991.7	Tune-up limit (dBm)
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	16.87	17.18	17.08	17.13	17.15	18.5

n78(3700-3800MHz) (PC2)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			17.09			18.3
100		1	136			17.09			
100		1	271			17.11			
100		135	1			16.88			18.3
100		135	67			17.10			
100		135	136			16.63			
100		270	0			16.78			
100	DFT-s-OFDM QPSK	1	1			17.15			18.3
100		1	136			17.12			
100		1	271			17.13			
100		135	1			16.37			18.3
100		135	67			17.08			
100		135	136			16.13			
100		270	0			17.03			
100	DFT-s-OFDM 16QAM	1	1			16.47			17.3
100	DFT-s-OFDM 64QAM	1	1			15.43			16.3
100	DFT-s-OFDM 256QAM	1	1			13.14			14.3
100	CP-OFDM QPSK	1	1			16.56			17.3
100	CP-OFDM 16QAM	1	1			15.56			16.3
100	CP-OFDM 64QAM	1	1			13.70			14.3
100	CP-OFDM 256QAM	1	1			11.22			12.3
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	16.99	16.96	17.03	16.95	16.98	18.3
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	17.00	16.89	16.97	17.01	16.87	18.3
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	16.96	16.94	16.95	16.84	16.86	18.3
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	16.85	16.79	16.78	16.65	16.62	18.3
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	16.92	16.82	16.78	16.93	16.80	18.3
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	16.89	15.85	16.62	16.66	16.40	18.3
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	16.95	16.86	16.79	16.71	16.63	18.3
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	16.86	16.73	16.74	16.73	16.65	18.3
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	16.88	16.84	16.71	16.71	16.59	18.3
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	16.90	16.89	16.77	16.56	16.80	18.3

n78(3700-3800MHz) (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			17.4
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			16.40			17.4
100		1	136			16.36			
100		1	271			16.35			
100		135	1			16.41			17.4
100		135	67			16.34			
100		135	136			16.34			
100	DFT-s-OFDM QPSK	270	0			16.37			17.4
100		1	1			16.51			
100		1	136			16.35			
100		1	271			16.37			17.4
100		135	1			16.39			
100		135	67			16.28			
100	DFT-s-OFDM 16QAM	135	136			15.37			17.4
100		270	0			16.37			
100		1	1			16.21			
100	DFT-s-OFDM 64QAM	1	1			15.52			16.4
100	DFT-s-OFDM 256QAM	1	1			13.58			14.4
100	CP-OFDM QPSK	1	1			15.45			16.4
100	CP-OFDM 16QAM	1	1			16.36			17.4
100	CP-OFDM 64QAM	1	1			14.70			15.4
100	CP-OFDM 256QAM	1	1			11.97			13.4
Channel				649668	649834	650000	650166	650332	17.4
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	16.26	16.32	16.40	16.42	16.45	17.4
Channel				649334	649666	650000	650334	650666	17.4
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	16.29	16.48	16.37	16.30	16.38	17.4
Channel				649000	649500	650000	650500	651000	17.4
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	16.29	16.50	16.37	16.39	16.38	17.4
Channel				648668	649334	650000	650666	651332	17.4
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	16.38	16.21	16.24	16.28	16.39	17.4
Channel				648334	649166	650000	650834	651666	17.4
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	16.47	16.43	16.47	16.44	16.47	17.4
Channel				648000	649000	650000	651000	652000	17.4
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	16.47	16.42	16.44	16.42	16.41	17.4
Channel				647668	648834	650000	651166	652332	17.4
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	16.46	16.41	16.45	16.42	16.41	17.4
Channel				647334	648666	650000	651334	652666	17.4
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	16.37	16.49	16.50	16.44	16.50	17.4
Channel				647168	648584	650000	651416	652832	17.4
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	16.42	16.50	16.45	16.43	16.44	17.4
Channel				647000	648500	650000	651500	653000	17.4
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	16.36	16.43	16.40	16.45	16.37	17.4

n78(3700-3800MHz) (PC3)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			17.9
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			16.75			17.9
100		1	136			16.71			
100		1	271			16.70			
100		135	1			16.76			17.9
100		135	67			16.69			
100		135	136			16.69			
100	DFT-s-OFDM QPSK	270	0			16.72			17.9
100		1	1			16.86			
100		1	136			16.70			
100		1	271			16.72			17.9
100		135	1			16.74			
100		135	67			16.63			
100		135	136			15.72			17.9
100		270	0			16.72			
100	DFT-s-OFDM 16QAM	1	1			16.56			17.9
100	DFT-s-OFDM 64QAM	1	1			15.87			16.9
100	DFT-s-OFDM 256QAM	1	1			13.93			14.9
100	CP-OFDM QPSK	1	1			15.80			16.9
100	CP-OFDM 16QAM	1	1			16.71			17.9
100	CP-OFDM 64QAM	1	1			15.05			15.9
100	CP-OFDM 256QAM	1	1			12.12			12.9
Channel				649668	649834	650000	650166	650332	17.9
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	16.61	16.67	16.75	16.77	16.80	17.9
Channel				649334	649666	650000	650334	650666	17.9
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	16.64	16.83	16.72	16.65	16.73	17.9
Channel				649000	649500	650000	650500	651000	17.9
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	16.64	16.85	16.72	16.74	16.73	17.9
Channel				648668	649334	650000	650666	651332	17.9
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	16.73	16.56	16.59	16.63	16.74	17.9
Channel				648334	649166	650000	650834	651666	17.9
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	16.82	16.78	16.82	16.79	16.82	17.9
Channel				648000	649000	650000	651000	652000	17.9
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	16.82	16.77	16.79	16.77	16.76	17.9
Channel				647668	648834	650000	651166	652332	17.9
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	16.81	16.76	16.80	16.77	16.76	17.9
Channel				647334	648666	650000	651334	652666	17.9
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	16.72	16.84	16.85	16.79	16.85	17.9
Channel				647168	648584	650000	651416	652832	17.9
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	16.77	16.85	16.80	16.78	16.79	17.9
Channel				647000	648500	650000	651500	653000	17.9
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	16.71	16.78	16.75	16.80	16.72	17.9

n78(3700-3800MHz) (PC3)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			16.5
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			15.31			16.5
100		1	136			15.27			
100		1	271			15.26			
100		135	1			15.32			16.5
100		135	67			15.25			
100		135	136			15.25			
100	DFT-s-OFDM QPSK	270	0			15.28			16.5
100		1	1			15.42			
100		1	136			15.26			
100		1	271			15.28			16.5
100		135	1			15.30			
100		135	67			15.19			
100	DFT-s-OFDM 16QAM	135	136			14.28			16.5
100		270	0			15.28			
100		1	1			15.12			
100	DFT-s-OFDM 64QAM	1	1			14.43			15.5
100	DFT-s-OFDM 256QAM	1	1			12.49			13.5
100	CP-OFDM QPSK	1	1			14.36			16.5
100	CP-OFDM 16QAM	1	1			15.27			15.5
100	CP-OFDM 64QAM	1	1			13.61			16.5
100	CP-OFDM 256QAM	1	1			10.68			11.5
Channel				649668	649834	650000	650166	650332	16.5
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	15.17	15.23	15.31	15.33	15.36	16.5
Channel				649334	649666	650000	650334	650666	16.5
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	15.20	15.39	15.28	15.21	15.29	16.5
Channel				649000	649500	650000	650500	651000	16.5
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	15.20	15.41	15.28	15.30	15.29	16.5
Channel				648668	649334	650000	650666	651332	16.5
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	15.29	15.12	15.15	15.19	15.30	16.5
Channel				648334	649166	650000	650834	651666	16.5
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	15.38	15.34	15.38	15.35	15.38	16.5
Channel				648000	649000	650000	651000	652000	16.5
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	15.38	15.33	15.35	15.33	15.32	16.5
Channel				647668	648834	650000	651166	652332	16.5
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	15.37	15.32	15.36	15.33	15.32	16.5
Channel				647334	648666	650000	651334	652666	16.5
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	15.28	15.40	15.41	15.35	15.41	16.5
Channel				647168	648584	650000	651416	652832	16.5
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	15.33	15.41	15.36	15.34	15.35	16.5
Channel				647000	648500	650000	651500	653000	16.5
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	15.27	15.34	15.31	15.36	15.28	16.5

n78(3700-3800MHz) (PC3)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			16.3
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			15.13			16.3
100		1	136			15.09			
100		1	271			15.08			
100		135	1			15.14			16.3
100		135	67			15.07			
100		135	136			15.07			
100	DFT-s-OFDM QPSK	270	0			15.10			16.3
100		1	1			15.24			
100		1	136			15.08			
100		1	271			15.10			16.3
100		135	1			15.12			
100		135	67			15.01			
100	DFT-s-OFDM 16QAM	135	136			14.10			16.3
100		270	0			15.10			
100		1	1			14.94			
100	DFT-s-OFDM 64QAM	1	1			14.25			15.3
100	DFT-s-OFDM 256QAM	1	1			12.31			13.3
100	CP-OFDM QPSK	1	1			14.18			16.3
100	CP-OFDM 16QAM	1	1			15.09			15.3
100	CP-OFDM 64QAM	1	1			13.43			15.3
100	CP-OFDM 256QAM	1	1			10.70			12.3
Channel				649668	649834	650000	650166	650332	16.3
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	14.99	15.05	15.13	15.15	15.18	16.3
Channel				649334	649666	650000	650334	650666	16.3
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	15.02	15.21	15.10	15.03	15.11	16.3
Channel				649000	649500	650000	650500	651000	16.3
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	15.02	15.23	15.10	15.12	15.11	16.3
Channel				648668	649334	650000	650666	651332	16.3
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	15.11	14.94	14.97	15.01	15.12	16.3
Channel				648334	649166	650000	650834	651666	16.3
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	15.20	15.16	15.20	15.17	15.20	16.3
Channel				648000	649000	650000	651000	652000	16.3
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	15.20	15.15	15.17	15.15	15.14	16.3
Channel				647668	648834	650000	651166	652332	16.3
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	15.19	15.14	15.18	15.15	15.14	16.3
Channel				647334	648666	650000	651334	652666	16.3
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	15.10	15.22	15.23	15.17	15.23	16.3
Channel				647168	648584	650000	651416	652832	16.3
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	15.15	15.23	15.18	15.16	15.17	16.3
Channel				647000	648500	650000	651500	653000	16.3
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	15.09	15.16	15.13	15.18	15.10	16.3

Reduced Power Level 3

ANT 6									
GSM1900		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Ch Delta > 0.5
TX Channel		512	661	810		512	661	810	
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot		23.23	23.27	23.22	24.10	14.23	14.27	14.22	15.10
GPRS 1 Tx slot		23.24	23.28	23.24	24.10	14.24	14.28	14.24	15.10
GPRS 2 Tx slots		20.29	20.33	20.32	21.10	14.29	14.33	14.32	15.10
GPRS 3 Tx slots		18.34	18.41	18.36	19.30	14.08	14.15	14.10	15.04
GPRS 4 Tx slots		17.66	17.71	17.69	18.60	14.66	14.71	14.69	15.60
EDGE 1 Tx slot		19.29	19.30	19.32	20.10	10.29	10.30	10.32	11.10
EDGE 2 Tx slots		16.28	16.34	16.33	17.10	10.28	10.34	10.33	11.10
EDGE 3 Tx slots		14.88	15.01	14.93	15.90	10.62	10.75	10.67	11.64
EDGE 4 Tx slots		14.73	14.83	14.77	15.70	11.73	11.83	11.77	12.70
Mode			Max.	23.28			Max.	14.71	
Attenuator		Cable Loss : 0.8							

ANT 4					ANT 4					ANT 0				
Band		WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)	WCDMA Band V (dBm)			Tune-up Limit (dBm)	
TX Channel		9262	9400	9538		1312 1413 1513				4132 4182 4233				
Rx Channel		9662	9800	9938		1537 1638 1738				4357 4407 4458				
Frequency (MHz)		1852.4	1880	1907.6		1712.4 1732.6 1752.6				826.4 836.4 846.6				
3GPP Rel 99	RMC 12.2Kbps	14.42	14.44	14.43	15.10	14.64	14.65	14.62	15.30	19.05	19.06	19.05	19.80	
3GPP Rel 5	HSDPA Subtest-1	14.39	14.38	14.42	15.10	14.52	14.51	14.55	15.30	18.17	18.20	18.21	18.80	
3GPP Rel 5	HSDPA Subtest-2	14.42	14.43	14.41	15.10	14.55	14.56	14.54	15.30	18.19	18.23	18.22	18.80	
3GPP Rel 5	HSDPA Subtest-3	13.85	13.86	13.85	14.60	13.98	13.99	13.98	14.80	17.70	17.66	17.68	18.30	
3GPP Rel 5	HSDPA Subtest-4	13.83	13.85	13.84	14.60	13.96	13.98	13.97	14.80	17.66	17.70	17.67	18.30	
3GPP Rel 8	DC-HSDPA Subtest-1	14.42	14.43	14.39	15.10	14.55	14.56	14.52	15.30	18.19	18.19	18.21	18.80	
3GPP Rel 8	DC-HSDPA Subtest-2	14.41	14.39	14.42	15.10	14.54	14.52	14.55	15.30	18.18	18.20	18.16	18.80	
3GPP Rel 8	DC-HSDPA Subtest-3	13.75	13.78	13.71	14.60	13.88	13.91	13.84	14.80	17.74	17.69	17.66	18.30	
3GPP Rel 8	DC-HSDPA Subtest-4	13.74	13.79	13.75	14.60	13.87	13.92	13.88	14.80	17.75	17.76	17.73	18.30	
3GPP Rel 6	HSUPA Subtest-1	14.42	14.45	14.37	15.10	14.55	14.52	14.50	15.30	18.19	18.20	18.16	18.80	
3GPP Rel 6	HSUPA Subtest-2	12.39	12.37	12.40	13.10	12.52	12.50	12.53	13.30	16.21	16.24	16.21	16.80	
3GPP Rel 6	HSUPA Subtest-3	13.35	13.38	13.36	14.10	13.48	13.51	13.49	14.30	17.20	17.22	17.18	17.80	
3GPP Rel 6	HSUPA Subtest-4	12.36	12.38	12.39	13.10	12.49	12.51	12.52	13.30	16.21	16.20	16.22	16.80	
3GPP Rel 6	HSUPA Subtest-5	14.39	14.42	14.39	15.10	14.52	14.55	14.52	15.30	18.17	18.22	18.21	18.80	
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	12.85	12.86	12.75	13.60	12.98	12.99	12.88	13.80	16.50	16.51	16.46	17.10	
Attenuator		Cable Loss			0.8	Cable Loss			0.8	Cable Loss			0.6	
Mode		Max.			14.45	Max.			14.65	Max.			19.06	

1.4	16QAM	1	3	18.25	18.43	18.21	19
1.4	16QAM	1	5	18.23	18.20	18.12	
1.4	16QAM	3	0	18.28	18.21	18.23	
1.4	16QAM	3	1	18.27	18.22	18.16	
1.4	16QAM	3	3	18.28	18.28	18.26	18
1.4	16QAM	6	0	17.39	17.25	17.22	
1.4	64QAM	1	0	17.42	17.44	17.30	18
1.4	64QAM	1	3	17.23	17.20	17.25	
1.4	64QAM	1	5	17.39	17.15	17.39	
1.4	64QAM	3	0	17.33	17.32	17.25	
1.4	64QAM	3	1	17.40	17.21	17.24	
1.4	64QAM	3	3	17.23	17.23	17.20	
1.4	64QAM	6	0	17.31	17.28	17.28	18
1.4	256QAM	1	0	13.39	13.53	13.41	14
1.4	256QAM	1	3	13.29	13.27	13.28	
1.4	256QAM	1	5	13.43	13.19	13.40	
1.4	256QAM	3	0	13.35	13.28	13.28	
1.4	256QAM	3	1	13.51	13.31	13.32	
1.4	256QAM	3	3	13.32	13.29	13.23	
1.4	256QAM	6	0	13.27	13.24	13.26	14

5	16QAM	1	12	13.43	13.40	13.31	14.1
5	16QAM	1	24	13.39	13.50	13.44	13.1
5	16QAM	12	0	12.35	12.42	12.50	
5	16QAM	12	7	12.33	12.42	12.32	
5	16QAM	12	13	12.32	12.42	12.29	
5	16QAM	25	0	12.30	12.34	12.43	13.1
5	64QAM	1	0	12.34	12.41	12.43	
5	64QAM	1	12	12.41	12.50	12.18	13.1
5	64QAM	1	24	12.37	12.26	12.10	
5	64QAM	12	0	12.34	12.34	12.40	
5	64QAM	12	7	12.28	12.45	12.20	
5	64QAM	12	13	12.34	12.45	12.34	
5	64QAM	25	0	12.33	12.37	12.24	
5	256QAM	1	0	8.43	8.49	8.44	9.1
5	256QAM	1	12	8.45	8.48	8.25	
5	256QAM	1	24	8.41	8.31	8.14	
5	256QAM	12	0	8.37	8.38	8.44	
5	256QAM	12	7	8.33	8.45	8.27	9.1
5	256QAM	12	13	8.35	8.53	8.41	
5	256QAM	25	0	8.46	8.42	8.34	

5	16QAM	1	12	12.28	12.25	12.16	12.8
5	16QAM	1	24	12.24	12.35	12.29	
5	16QAM	12	0	11.20	11.27	11.35	
5	16QAM	12	7	11.18	11.27	11.17	11.8
5	16QAM	12	13	11.17	11.27	11.14	
5	16QAM	25	0	11.15	11.19	11.28	
5	64QAM	1	0	11.19	11.26	11.28	11.8
5	64QAM	1	12	11.26	11.35	11.03	
5	64QAM	1	24	11.22	11.11	10.95	
5	64QAM	12	0	11.19	11.19	11.25	11.8
5	64QAM	12	7	11.13	11.30	11.05	
5	64QAM	12	13	11.19	11.30	11.19	
5	64QAM	25	0	11.18	11.22	11.09	8.8
5	256QAM	1	0	7.28	7.34	7.29	
5	256QAM	1	12	7.30	7.33	7.10	
5	256QAM	1	24	7.26	7.16	6.99	8.8
5	256QAM	12	0	7.22	7.23	7.29	
5	256QAM	12	7	7.18	7.30	7.12	
5	256QAM	12	13	7.20	7.38	7.26	8.8
5	256QAM	25	0	7.31	7.27	7.19	

5	16QAM	1	12	13.39	13.36	13.27	13.9
5	16QAM	1	24	13.35	13.46	13.40	
5	16QAM	12	0	12.31	12.38	12.46	
5	16QAM	12	7	12.29	12.38	12.28	12.9
5	16QAM	12	13	12.28	12.38	12.25	
5	16QAM	25	0	12.26	12.30	12.39	
5	64QAM	1	0	12.30	12.37	12.39	12.9
5	64QAM	1	12	12.37	12.46	12.14	
5	64QAM	1	24	12.33	12.22	12.06	
5	64QAM	12	0	12.30	12.30	12.36	12.9
5	64QAM	12	7	12.24	12.41	12.16	
5	64QAM	12	13	12.30	12.41	12.30	
5	64QAM	25	0	12.29	12.33	12.20	9.9
5	256QAM	1	0	8.39	8.45	8.40	
5	256QAM	1	12	8.41	8.44	8.21	
5	256QAM	1	24	8.37	8.27	8.10	9.9
5	256QAM	12	0	8.33	8.34	8.40	
5	256QAM	12	7	8.29	8.41	8.23	
5	256QAM	12	13	8.31	8.49	8.37	9.9
5	256QAM	25	0	8.42	8.38	8.30	

1.4	16QAM	1	3	18.65	18.70	18.72	19.6
1.4	16QAM	1	5	18.76	18.62	18.80	
1.4	16QAM	3	0	18.66	18.76	18.80	
1.4	16QAM	3	1	18.67	18.69	18.66	
1.4	16QAM	3	3	18.82	18.77	18.80	
1.4	16QAM	6	0	17.83	17.74	17.76	18.6
1.4	64QAM	1	0	17.87	17.76	17.66	18.6
1.4	64QAM	1	3	17.87	17.82	17.84	
1.4	64QAM	1	5	18.00	17.98	17.91	
1.4	64QAM	3	0	17.71	17.86	17.76	
1.4	64QAM	3	1	17.71	17.79	17.87	
1.4	64QAM	3	3	17.70	17.78	17.66	18.6
1.4	64QAM	6	0	17.77	17.67	17.79	
1.4	256QAM	1	0	13.65	13.62	13.53	
1.4	256QAM	1	3	13.75	13.67	13.68	
1.4	256QAM	1	5	13.81	13.79	13.73	
1.4	256QAM	3	0	13.52	13.73	13.54	14.6
1.4	256QAM	3	1	13.60	13.66	13.69	
1.4	256QAM	3	3	13.50	13.64	13.57	
1.4	256QAM	6	0	13.58	13.54	13.63	
1.4	256QAM	6	0	13.58	13.54	13.63	14.6

5	16QAM	1	12	14.85	14.87	14.85	15.6
5	16QAM	1	24	14.67	14.74	14.79	
5	16QAM	12	0	13.92	13.68	13.68	
5	16QAM	12	7	13.74	13.78	13.61	14.6
5	16QAM	12	13	13.71	13.67	13.72	
5	16QAM	25	0	13.74	13.77	13.66	
5	64QAM	1	0	13.75	13.80	13.78	
5	64QAM	1	12	13.76	13.73	13.86	14.6
5	64QAM	1	24	13.85	13.75	13.72	
5	64QAM	12	0	13.79	13.71	13.73	
5	64QAM	12	7	13.78	13.77	13.76	14.6
5	64QAM	12	13	13.72	13.74	13.68	
5	64QAM	25	0	13.83	13.80	13.60	
5	256QAM	1	0	9.85	9.85	9.83	
5	256QAM	1	12	9.80	9.88	9.90	10.6
5	256QAM	1	24	9.83	9.88	9.86	
5	256QAM	12	0	9.78	9.74	9.82	
5	256QAM	12	7	9.86	9.89	9.75	10.6
5	256QAM	12	13	9.70	9.84	9.79	
5	256QAM	25	0	9.93	9.87	9.67	
Channel				26055	26365	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1882.5	1913.5	
3	QPSK	1	0	15.77	15.78	15.66	16.6
3	QPSK	1	8	15.67	15.69	15.67	
3	QPSK	1	14	15.71	15.66	15.64	
3	QPSK	8	0	14.89	14.73	14.73	
3	QPSK	8	4	14.80	14.82	14.83	15.6
3	QPSK	8	7	14.82	14.69	14.76	
3	QPSK	15	0	14.82	14.76	14.88	
3	16QAM	1	0	14.78	14.78	14.83	
3	16QAM	1	8	14.89	14.82	14.82	15.6
3	16QAM	1	14	14.65	14.81	14.83	
3	16QAM	8	0	13.83	13.77	13.75	
3	16QAM	8	4	13.78	13.81	13.62	14.6
3	16QAM	8	7	13.67	13.65	13.77	
3	16QAM	15	0	13.69	13.81	13.68	
3	64QAM	1	0	13.74	13.79	13.76	
3	64QAM	1	8	13.79	13.76	13.85	14.6
3	64QAM	1	14	13.85	13.78	13.72	
3	64QAM	8	0	13.78	13.72	13.79	
3	64QAM	8	4	13.80	13.86	13.77	14.6
3	64QAM	8	7	13.71	13.70	13.70	
3	64QAM	15	0	13.88	13.82	13.64	
3	256QAM	1	0	9.88	9.89	9.75	
3	256QAM	1	8	9.78	9.79	9.84	10.6
3	256QAM	1	14	9.86	9.82	9.81	
3	256QAM	8	0	9.79	9.84	9.77	
3	256QAM	8	4	9.78	9.90	9.82	10.6
3	256QAM	8	7	9.78	9.85	9.69	
3	256QAM	15	0	9.86	9.92	9.65	
Channel				26047	26365	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	15.80	15.73	15.69	16.6
1.4	QPSK	1	3	15.69	15.72	15.68	
1.4	QPSK	1	5	15.68	15.58	15.65	
1.4	QPSK	3	0	15.87	15.72	15.82	
1.4	QPSK	3	1	15.83	15.81	15.77	
1.4	QPSK	3	3	15.80	15.71	15.78	
1.4	QPSK	6	0	14.85	14.77	14.78	15.6
1.4	16QAM	1	0	14.70	14.79	14.73	
1.4	16QAM	1	3	14.87	14.82	14.76	
1.4	16QAM	1	5	14.61	14.78	14.85	15.6
1.4	16QAM	3	0	14.82	14.70	14.78	
1.4	16QAM	3	1	14.81	14.82	14.66	
1.4	16QAM	3	3	14.76	14.70	14.71	
1.4	16QAM	6	0	13.66	13.77	13.67	14.6
1.4	64QAM	1	0	13.82	13.79	13.74	
1.4	64QAM	1	3	13.73	13.76	13.84	
1.4	64QAM	1	5	13.84	13.80	13.70	14.6
1.4	64QAM	3	0	13.77	13.75	13.71	
1.4	64QAM	3	1	13.74	13.81	13.73	
1.4	64QAM	3	3	13.67	13.72	13.65	
1.4	64QAM	6	0	13.81	13.83	13.58	14.6
1.4	256QAM	1	0	9.81	9.88	9.75	
1.4	256QAM	1	3	9.76	9.83	9.90	
1.4	256QAM	1	5	9.89	9.87	9.87	10.6
1.4	256QAM	3	0	9.89	9.84	9.86	
1.4	256QAM	3	1	9.84	9.94	9.77	
1.4	256QAM	3	3	9.78	9.75	9.76	
1.4	256QAM	6	0	9.88	9.86	9.71	10.6

3	16QAM	1	8	18.57	18.56	18.51	19.4
3	16QAM	1	14	18.38	18.45	18.49	
3	16QAM	8	0	17.66	17.69	17.57	
3	16QAM	8	4	17.41	17.56	17.62	18.4
3	16QAM	8	7	17.63	17.68	17.68	
3	16QAM	15	0	17.68	17.71	17.59	
3	64QAM	1	0	17.57	17.68	17.73	
3	64QAM	1	8	17.72	17.66	17.67	18.4
3	64QAM	1	14	17.51	17.48	17.62	
3	64QAM	8	0	17.70	17.61	17.63	
3	64QAM	8	4	17.55	17.59	17.49	18.4
3	64QAM	8	7	17.66	17.65	17.64	
3	64QAM	15	0	17.63	17.69	17.53	
3	256QAM	1	0	13.45	13.56	13.52	
3	256QAM	1	8	13.64	13.59	13.57	14.4
3	256QAM	1	14	13.44	13.42	13.29	
3	256QAM	8	0	13.62	13.48	13.55	
3	256QAM	8	4	13.50	13.46	13.43	14.4
3	256QAM	8	7	13.52	13.49	13.53	
3	256QAM	15	0	13.54	13.57	13.45	
Channel				26697	26865	27033	Tune-up limit
Frequency (MHz)				814.7	831.5	848.3	(dBm)
1.4	QPSK	1	0	19.57	19.61	19.58	
1.4	QPSK	1	3	19.57	19.56	19.55	20.4
1.4	QPSK	1	5	19.59	19.55	19.51	
1.4	QPSK	3	0	19.65	19.50	19.46	
1.4	QPSK	3	1	19.52	19.53	19.45	
1.4	QPSK	3	3	19.50	19.49	19.46	
1.4	QPSK	6	0	18.66	18.60	18.60	19.4
1.4	16QAM	1	0	18.73	18.48	18.70	
1.4	16QAM	1	3	18.50	18.53	18.54	19.4
1.4	16QAM	1	5	18.41	18.54	18.40	
1.4	16QAM	3	0	18.69	18.62	18.55	
1.4	16QAM	3	1	18.50	18.55	18.58	
1.4	16QAM	3	3	18.68	18.64	18.68	
1.4	16QAM	6	0	17.72	17.65	17.67	18.4
1.4	64QAM	1	0	17.56	17.72	17.65	
1.4	64QAM	1	3	17.76	17.67	17.68	18.4
1.4	64QAM	1	5	17.59	17.53	17.39	
1.4	64QAM	3	0	17.64	17.58	17.62	
1.4	64QAM	3	1	17.62	17.64	17.55	
1.4	64QAM	3	3	17.61	17.66	17.60	
1.4	64QAM	6	0	17.56	17.68	17.58	18.4
1.4	256QAM	1	0	13.47	13.51	13.52	
1.4	256QAM	1	3	13.58	13.51	13.53	14.4
1.4	256QAM	1	5	13.45	13.45	13.28	
1.4	256QAM	3	0	13.63	13.44	13.51	
1.4	256QAM	3	1	13.48	13.47	13.38	
1.4	256QAM	3	3	13.51	13.50	13.52	
1.4	256QAM	6	0	13.50	13.62	13.38	14.4

5	16QAM	1	12	16.58	16.75	16.50	17.3
5	16QAM	1	24	16.57	16.68	16.69	
5	16QAM	12	0	15.45	15.33	15.36	16.3
5	16QAM	12	7	15.56	15.50	15.35	
5	16QAM	12	13	15.43	15.52	15.47	
5	16QAM	25	0	15.55	15.50	15.38	
5	64QAM	1	0	15.69	15.68	15.74	16.3
5	64QAM	1	12	15.55	15.74	15.48	
5	64QAM	1	24	15.49	15.63	15.70	
5	64QAM	12	0	15.44	15.33	15.36	16.3
5	64QAM	12	7	15.52	15.49	15.36	
5	64QAM	12	13	15.45	15.47	15.44	
5	64QAM	25	0	15.46	15.46	15.31	
5	256QAM	1	0	11.80	11.72	11.78	12.3
5	256QAM	1	12	11.57	11.74	11.50	
5	256QAM	1	24	11.63	11.74	11.77	
5	256QAM	12	0	11.42	11.39	11.33	12.3
5	256QAM	12	7	11.48	11.54	11.43	
5	256QAM	12	13	11.59	11.51	11.49	
5	256QAM	25	0	11.54	11.54	11.36	
Channel				131967	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	17.29	17.39	17.36	18.3
3	QPSK	1	8	17.21	17.39	17.26	
3	QPSK	1	14	17.31	17.32	17.37	
3	QPSK	8	0	16.38	16.36	16.39	17.3
3	QPSK	8	4	16.42	16.45	16.45	
3	QPSK	8	7	16.48	16.48	16.45	
3	QPSK	15	0	16.37	16.28	16.45	
3	16QAM	1	0	16.78	16.75	16.70	17.3
3	16QAM	1	8	16.66	16.71	16.54	
3	16QAM	1	14	16.52	16.68	16.78	
3	16QAM	8	0	15.40	15.40	15.35	16.3
3	16QAM	8	4	15.53	15.50	15.43	
3	16QAM	8	7	15.47	15.46	15.50	
3	16QAM	15	0	15.46	15.44	15.38	
3	64QAM	1	0	15.78	15.69	15.76	16.3
3	64QAM	1	8	15.65	15.72	15.49	
3	64QAM	1	14	15.53	15.65	15.62	
3	64QAM	8	0	15.38	15.40	15.32	16.3
3	64QAM	8	4	15.53	15.42	15.43	
3	64QAM	8	7	15.43	15.38	15.42	
3	64QAM	15	0	15.54	15.41	15.30	
3	256QAM	1	0	11.73	11.71	11.83	12.3
3	256QAM	1	8	11.65	11.77	11.47	
3	256QAM	1	14	11.62	11.68	11.79	
3	256QAM	8	0	11.37	11.39	11.42	12.3
3	256QAM	8	4	11.56	11.56	11.37	
3	256QAM	8	7	11.54	11.46	11.47	
3	256QAM	15	0	11.56	11.52	11.35	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	17.28	17.44	17.40	18.3
1.4	QPSK	1	3	17.31	17.39	17.28	
1.4	QPSK	1	5	17.32	17.40	17.28	
1.4	QPSK	3	0	17.42	17.40	17.54	
1.4	QPSK	3	1	17.45	17.47	17.43	
1.4	QPSK	3	3	17.50	17.47	17.44	
1.4	QPSK	6	0	16.41	16.28	16.52	17.3
1.4	16QAM	1	0	16.75	16.71	16.70	
1.4	16QAM	1	3	16.62	16.74	16.47	
1.4	16QAM	1	5	16.62	16.69	16.73	17.3
1.4	16QAM	3	0	16.39	16.61	16.40	
1.4	16QAM	3	1	16.59	16.56	16.42	
1.4	16QAM	3	3	16.46	16.49	16.48	
1.4	16QAM	6	0	15.49	15.45	15.46	16.3
1.4	64QAM	1	0	15.75	15.68	15.67	
1.4	64QAM	1	3	15.59	15.75	15.48	
1.4	64QAM	1	5	15.56	15.63	15.66	16.3
1.4	64QAM	3	0	15.49	15.44	15.40	
1.4	64QAM	3	1	15.43	15.48	15.42	
1.4	64QAM	3	3	15.43	15.44	15.47	
1.4	64QAM	6	0	15.55	15.42	15.34	16.3
1.4	256QAM	1	0	11.82	11.78	11.82	
1.4	256QAM	1	3	11.57	11.77	11.56	
1.4	256QAM	1	5	11.59	11.70	11.81	12.3
1.4	256QAM	3	0	11.46	11.34	11.37	
1.4	256QAM	3	1	11.58	11.53	11.42	
1.4	256QAM	3	3	11.51	11.53	11.52	
1.4	256QAM	6	0	11.47	11.56	11.37	12.3

Band 71 (dBm)-ANT 0							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				133222	133322	133372	
Frequency (MHz)				673	683	688	
20	QPSK	1	0	20.37	20.50	20.43	21.3
20	QPSK	1	49	20.34	20.40	20.33	
20	QPSK	1	99	20.45	20.42	20.46	
20	QPSK	50	0	19.48	19.56	19.52	20.3
20	QPSK	50	24	19.41	19.44	19.48	
20	QPSK	50	50	19.52	19.55	19.53	
20	QPSK	100	0	19.47	19.57	19.49	20.3
20	16QAM	1	0	19.68	19.72	19.72	
20	16QAM	1	49	19.70	19.79	19.77	
20	16QAM	1	99	19.73	19.80	19.78	19.3
20	16QAM	50	0	18.40	18.44	18.49	
20	16QAM	50	24	18.55	18.57	18.54	
20	16QAM	50	50	18.54	18.59	18.56	19.3
20	16QAM	100	0	18.53	18.45	18.59	
20	64QAM	1	0	18.62	18.76	18.67	
20	64QAM	1	49	18.64	18.79	18.71	19.3
20	64QAM	1	99	18.74	18.85	18.75	
20	64QAM	50	0	18.34	18.38	18.48	
20	64QAM	50	24	18.55	18.55	18.54	19.3
20	64QAM	50	50	18.58	18.58	18.58	
20	64QAM	100	0	18.55	18.42	18.63	
20	256QAM	1	0	14.52	14.66	14.57	15.3
20	256QAM	1	49	14.54	14.69	14.61	
20	256QAM	1	99	14.64	14.75	14.65	
20	256QAM	50	0	14.25	14.29	14.39	15.3
20	256QAM	50	24	14.46	14.46	14.45	
20	256QAM	50	50	14.49	14.49	14.49	
20	256QAM	100	0	14.46	14.33	14.54	
Channel				133197	133297	133397	
Frequency (MHz)				670.5	680.5	690.5	Tune-up limit (dBm)
15	QPSK	1	0	20.31	20.46	20.35	21.3
15	QPSK	1	37	20.26	20.30	20.21	
15	QPSK	1	74	20.33	20.37	20.40	
15	QPSK	36	0	19.21	19.50	19.44	20.3
15	QPSK	36	20	19.31	19.32	19.45	
15	QPSK	36	39	19.51	19.48	19.51	
15	QPSK	75	0	19.35	19.43	19.37	20.3
15	16QAM	1	0	19.62	19.71	19.71	
15	16QAM	1	37	19.65	19.75	19.69	
15	16QAM	1	74	19.69	19.79	19.77	19.3
15	16QAM	36	0	18.30	18.41	18.42	
15	16QAM	36	20	18.44	18.45	18.43	
15	16QAM	36	39	18.52	18.58	18.54	19.3
15	16QAM	75	0	18.42	18.42	18.54	
15	64QAM	1	0	18.58	18.66	18.57	
15	64QAM	1	37	18.61	18.76	18.60	19.3
15	64QAM	1	74	18.65	18.73	18.72	
15	64QAM	36	0	18.28	18.33	18.46	
15	64QAM	36	20	18.43	18.50	18.43	19.3
15	64QAM	36	39	18.56	18.50	18.52	
15	64QAM	75	0	18.45	18.41	18.52	
15	256QAM	1	0	14.43	14.65	14.52	15.3
15	256QAM	1	37	14.53	14.64	14.54	
15	256QAM	1	74	14.54	14.69	14.59	
15	256QAM	36	0	14.22	14.23	14.33	15.3
15	256QAM	36	20	14.35	14.37	14.41	
15	256QAM	36	39	14.43	14.37	14.42	
15	256QAM	75	0	14.35	14.29	14.51	
Channel				133172	133272	133422	
Frequency (MHz)				668	678	693	Tune-up limit (dBm)
10	QPSK	1	0	20.28	20.46	20.40	21.3
10	QPSK	1	25	20.32	20.34	20.23	
10	QPSK	1	49	20.40	20.38	20.45	
10	QPSK	25	0	19.27	19.53	19.43	20.3
10	QPSK	25	12	19.39	19.38	19.38	
10	QPSK	25	25	19.48	19.52	19.44	
10	QPSK	50	0	19.40	19.36	19.43	20.3
10	16QAM	1	0	19.63	19.66	19.65	
10	16QAM	1	25	19.69	19.75	19.73	
10	16QAM	1	49	19.65	19.74	19.67	19.3
10	16QAM	25	0	18.37	18.34	18.37	
10	16QAM	25	12	18.46	18.45	18.45	
10	16QAM	25	25	18.48	18.55	18.55	19.3
10	16QAM	50	0	18.50	18.43	18.56	
10	64QAM	1	0	18.59	18.70	18.63	
10	64QAM	1	25	18.59	18.78	18.61	19.3
10	64QAM	1	49	18.65	18.83	18.73	
10	64QAM	25	0	18.22	18.34	18.46	
10	64QAM	25	12	18.45	18.43	18.44	19.3
10	64QAM	25	25	18.48	18.48	18.56	
10	64QAM	50	0	18.45	18.37	18.62	
10	256QAM	1	0	14.51	14.65	14.54	15.3
10	256QAM	1	25	14.43	14.65	14.57	
10	256QAM	1	49	14.53	14.66	14.55	
10	256QAM	25	0	14.18	14.18	14.32	15.3
10	256QAM	25	12	14.42	14.34	14.33	
10	256QAM	25	25	14.42	14.45	14.40	
10	256QAM	50	0	14.44	14.27	14.42	
Channel				133147	133247	133447	
Frequency (MHz)				665.5	675.5	695.5	Tune-up limit (dBm)
5	QPSK	1	0	20.27	20.45	20.32	21.3
5	QPSK	1	12	20.24	20.32	20.29	
5	QPSK	1	24	20.39	20.39	20.44	
5	QPSK	12	0	19.24	19.51	19.49	20.3
5	QPSK	12	7	19.29	19.33	19.47	
5	QPSK	12	13	19.42	19.45	19.46	
5	QPSK	25	0	19.44	19.44	19.46	
5	16QAM	1	0	19.58	19.65	19.66	



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5	16QAM	1	12	19.63	19.78	19.67	20.3
5	16QAM	1	24	19.66	19.72	19.70	
5	16QAM	12	0	18.35	18.38	18.40	
5	16QAM	12	7	18.49	18.49	18.51	19.3
5	16QAM	12	13	18.53	18.53	18.54	
5	16QAM	25	0	18.48	18.41	18.57	
5	64QAM	1	0	18.55	18.67	18.60	19.3
5	64QAM	1	12	18.57	18.76	18.62	
5	64QAM	1	24	18.62	18.77	18.74	
5	64QAM	12	0	18.25	18.27	18.37	19.3
5	64QAM	12	7	18.51	18.47	18.47	
5	64QAM	12	13	18.48	18.53	18.53	
5	64QAM	25	0	18.45	18.37	18.58	15.3
5	256QAM	1	0	14.49	14.59	14.52	
5	256QAM	1	12	14.46	14.57	14.49	
5	256QAM	1	24	14.63	14.66	14.57	15.3
5	256QAM	12	0	14.18	14.28	14.28	
5	256QAM	12	7	14.35	14.42	14.42	
5	256QAM	12	13	14.39	14.47	14.39	15.3
5	256QAM	25	0	14.34	14.25	14.48	



5	16QAM	1	12	17.34	17.36	17.37	18.1
5	16QAM	1	24	17.26	17.21	17.18	
5	16QAM	12	0	16.27	16.31	16.16	
5	16QAM	12	7	16.36	16.32	16.33	17.1
5	16QAM	12	13	16.19	16.22	16.17	
5	16QAM	25	0	16.22	16.25	16.21	
5	64QAM	1	0	16.33	16.41	16.30	17.1
5	64QAM	1	12	16.14	16.20	16.24	
5	64QAM	1	24	16.21	16.23	16.27	
5	64QAM	12	0	16.15	16.24	16.23	17.1
5	64QAM	12	7	16.27	16.20	16.19	
5	64QAM	12	13	16.08	16.15	16.03	
5	64QAM	25	0	15.99	16.15	16.03	13.1
5	256QAM	1	0	12.32	12.36	12.31	
5	256QAM	1	12	12.18	12.24	12.31	
5	256QAM	1	24	12.20	12.22	12.22	13.1
5	256QAM	12	0	12.19	12.22	12.19	
5	256QAM	12	7	12.36	12.38	12.30	
5	256QAM	12	13	12.30	12.33	12.17	13.1
5	256QAM	25	0	12.20	12.38	12.25	

5	16QAM	1	12	18.05	18.07	18.08	18.6
5	16QAM	1	24	17.97	17.92	17.89	
5	16QAM	12	0	16.98	17.02	16.87	
5	16QAM	12	7	17.07	17.03	17.04	17.6
5	16QAM	12	13	16.90	16.93	16.88	
5	16QAM	25	0	16.93	16.96	16.92	
5	64QAM	1	0	17.04	17.12	17.01	17.6
5	64QAM	1	12	16.85	16.91	16.95	
5	64QAM	1	24	16.92	16.94	16.98	
5	64QAM	12	0	16.86	16.95	16.94	17.6
5	64QAM	12	7	16.98	16.91	16.90	
5	64QAM	12	13	16.79	16.86	16.74	
5	64QAM	25	0	16.70	16.86	16.74	13.6
5	256QAM	1	0	13.03	13.07	13.02	
5	256QAM	1	12	12.89	12.95	13.02	
5	256QAM	1	24	12.91	12.93	12.93	13.6
5	256QAM	12	0	12.90	12.93	12.90	
5	256QAM	12	7	13.07	13.09	13.01	
5	256QAM	12	13	13.01	13.04	12.88	13.6
5	256QAM	25	0	12.91	13.09	12.96	



5	16QAM	1	12	17.06	17.08	17.09	17.7
5	16QAM	1	24	16.98	16.93	16.90	
5	16QAM	12	0	15.99	16.03	15.88	
5	16QAM	12	7	16.08	16.04	16.05	16.7
5	16QAM	12	13	15.91	15.94	15.89	
5	16QAM	25	0	15.94	15.97	15.93	
5	64QAM	1	0	16.05	16.13	16.02	16.7
5	64QAM	1	12	15.86	15.92	15.96	
5	64QAM	1	24	15.93	15.95	15.99	
5	64QAM	12	0	15.87	15.96	15.95	16.7
5	64QAM	12	7	15.99	15.92	15.91	
5	64QAM	12	13	15.80	15.87	15.75	
5	64QAM	25	0	15.71	15.87	15.75	13.7
5	256QAM	1	0	12.04	12.08	12.03	
5	256QAM	1	12	11.90	11.96	12.03	
5	256QAM	1	24	11.92	11.94	11.94	13.7
5	256QAM	12	0	11.91	11.94	11.91	
5	256QAM	12	7	12.08	12.10	12.02	
5	256QAM	12	13	12.02	12.05	11.89	13.7
5	256QAM	25	0	11.92	12.10	11.97	



CA_7C Ant 0

Combination:20MHz+20MHz(100RB+100RB)

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PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
20850	20850	21048	QPSK	1	0	0	0	1	0	13.09	13.80
21100	21001	21199	QPSK	1	0	0	0	1	0	13.10	13.80
21350	21152	21350	QPSK	1	0	0	0	1	0	13.00	13.80
20850	20850	21048	16QAM	1	0	0	0	1	0	12.19	12.80
21100	21001	21199	16QAM	1	0	0	0	1	0	12.30	12.80
21350	21152	21350	16QAM	1	0	0	0	1	0	12.23	12.80
20850	20850	21048	64QAM	1	0	0	0	1	0	11.26	11.80
21100	21001	21199	64QAM	1	0	0	0	1	0	11.27	11.80
21350	21152	21350	64QAM	1	0	0	0	1	0	11.22	11.80
20850	20850	21048	256QAM	1	0	0	0	1	0	8.11	8.80
21100	21001	21199	256QAM	1	0	0	0	1	0	8.13	8.80
21350	21152	21350	256QAM	1	0	0	0	1	0	8.12	8.80
20850	20850	21048	QPSK	50	0	0	0	1	0	12.18	12.80
21100	21001	21199	QPSK	50	0	0	0	1	0	12.26	12.80
21350	21152	21350	QPSK	50	0	0	0	1	0	12.17	12.80

CA_12B Ant 0

Combination:5MHz+10MHz(25RB+50RB)

PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
23060	23038	23110	QPSK	1	0	0	0	1	0	18.62	19.40
23095	23048	23120	QPSK	1	0	0	0	1	0	18.70	19.40
23130	23058	23130	QPSK	1	0	0	0	1	0	18.58	19.40
23060	23038	23110	16QAM	1	0	0	0	1	0	17.67	18.40
23095	23048	23120	16QAM	1	0	0	0	1	0	17.73	18.40
23130	23058	23130	16QAM	1	0	0	0	1	0	17.69	18.40
23060	23038	23110	64QAM	1	0	0	0	1	0	16.59	17.40
23095	23048	23120	64QAM	1	0	0	0	1	0	16.67	17.40
23130	23058	23130	64QAM	1	0	0	0	1	0	16.68	17.40
23060	23038	23110	256QAM	1	0	0	0	1	0	13.62	14.40
23095	23048	23120	256QAM	1	0	0	0	1	0	13.59	14.40
23130	23058	23130	256QAM	1	0	0	0	1	0	13.57	14.40
23060	23038	23110	QPSK	25	0	0	0	1	0	17.61	18.40
23095	23048	23120	QPSK	25	0	0	0	1	0	17.64	18.40
23130	23058	23130	QPSK	25	0	0	0	1	0	17.58	18.40

CA_38C Ant 0

Combination:20MHz+20MHz(100RB+100RB)

PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
37850	37850	38048	QPSK	1	0	0	0	1	0	16.74	17.40
38000	37901	38099	QPSK	1	0	0	0	1	0	16.83	17.40
38150	37952	38150	QPSK	1	0	0	0	1	0	16.79	17.40
37850	37850	38048	16QAM	1	0	0	0	1	0	15.78	16.40
38000	37901	38099	16QAM	1	0	0	0	1	0	15.81	16.40
38150	37952	38150	16QAM	1	0	0	0	1	0	15.77	16.40
37850	37850	38048	64QAM	1	0	0	0	1	0	14.76	15.40
38000	37901	38099	64QAM	1	0	0	0	1	0	14.84	15.40
38150	37952	38150	64QAM	1	0	0	0	1	0	14.79	15.40
37850	37850	38048	256QAM	1	0	0	0	1	0	11.70	12.40
38000	37901	38099	256QAM	1	0	0	0	1	0	11.76	12.40
38150	37952	38150	256QAM	1	0	0	0	1	0	11.69	12.40
37850	37850	38048	QPSK	50	0	0	0	1	0	15.76	16.40
38000	37901	38099	QPSK	50	0	0	0	1	0	15.77	16.40
38150	37952	38150	QPSK	50	0	0	0	1	0	15.72	16.40

CA_41C Ant 0 (PC3)

Combination:20MHz+20MHz(100RB+100RB)

PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	17.24	17.90
40620	40521	40719	QPSK	1	0	0	0	1	0	17.33	17.90
41490	41292	41490	QPSK	1	0	0	0	1	0	17.29	17.90
39750	39750	39948	16QAM	1	0	0	0	1	0	16.42	16.90

41490	41292	41490	16QAM	1	0	0	0	1	0	16.48	16.90
39750	39750	39948	64QAM	1	0	0	0	1	0	15.35	15.90
40620	40521	40719	64QAM	1	0	0	0	1	0	15.45	15.90
41490	41292	41490	64QAM	1	0	0	0	1	0	15.39	15.90
39750	39750	39948	256QAM	1	0	0	0	1	0	11.43	12.90
40620	40521	40719	256QAM	1	0	0	0	1	0	11.54	12.90
41490	41292	41490	256QAM	1	0	0	0	1	0	11.48	12.90
39750	39750	39948	QPSK	50	0	0	0	1	0	16.39	16.90
40620	40521	40719	QPSK	50	0	0	0	1	0	16.46	16.90
41490	41292	41490	QPSK	50	0	0	0	1	0	16.42	16.90

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CA_41C Ant 0 (PC2)											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	18.19	18.90
40620	40521	40719	QPSK	1	0	0	0	1	0	18.28	18.90
41490	41292	41490	QPSK	1	0	0	0	1	0	18.24	18.90
39750	39750	39948	16QAM	1	0	0	0	1	0	17.37	17.90
40620	40521	40719	16QAM	1	0	0	0	1	0	17.43	17.90
41490	41292	41490	16QAM	1	0	0	0	1	0	17.42	17.90
39750	39750	39948	64QAM	1	0	0	0	1	0	16.30	16.90
40620	40521	40719	64QAM	1	0	0	0	1	0	16.40	16.90
41490	41292	41490	64QAM	1	0	0	0	1	0	16.34	16.90
39750	39750	39948	256QAM	1	0	0	0	1	0	13.32	13.90
40620	40521	40719	256QAM	1	0	0	0	1	0	13.36	13.90
41490	41292	41490	256QAM	1	0	0	0	1	0	13.27	13.90
39750	39750	39948	QPSK	50	0	0	0	1	0	17.34	17.90
40620	40521	40719	QPSK	50	0	0	0	1	0	17.41	17.90
41490	41292	41490	QPSK	50	0	0	0	1	0	17.37	17.90

CA_48C Ant 8											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
55340	55340	55538	QPSK	1	0	0	0	1	0	13.59	14.30
55990	55891	56089	QPSK	1	0	0	0	1	0	13.72	14.30
56640	56442	56640	QPSK	1	0	0	0	1	0	13.68	14.30
55340	55340	55538	16QAM	1	0	0	0	1	0	12.63	13.30
55990	55891	56089	16QAM	1	0	0	0	1	0	12.72	13.30
56640	56442	56640	16QAM	1	0	0	0	1	0	12.69	13.30
55340	55340	55538	64QAM	1	0	0	0	1	0	11.60	12.30
55990	55891	56089	64QAM	1	0	0	0	1	0	11.71	12.30
56640	56442	56640	64QAM	1	0	0	0	1	0	11.66	12.30
55340	55340	55538	256QAM	1	0	0	0	1	0	8.63	9.30
55990	55891	56089	256QAM	1	0	0	0	1	0	8.64	9.30
56640	56442	56640	256QAM	1	0	0	0	1	0	8.62	9.30
55340	55340	55538	QPSK	50	0	0	0	1	0	12.66	13.30
55990	55891	56089	QPSK	50	0	0	0	1	0	12.75	13.30
56640	56442	56640	QPSK	50	0	0	0	1	0	12.67	13.30

CA_48C Ant 9											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
55340	55340	55538	QPSK	1	0	0	0	1	0	14.15	14.90
55990	55891	56089	QPSK	1	0	0	0	1	0	14.18	14.90
56640	56442	56640	QPSK	1	0	0	0	1	0	14.11	14.90
55340	55340	55538	16QAM	1	0	0	0	1	0	13.20	13.90
55990	55891	56089	16QAM	1	0	0	0	1	0	13.23	13.90
56640	56442	56640	16QAM	1	0	0	0	1	0	13.16	13.90
55340	55340	55538	64QAM	1	0	0	0	1	0	12.16	12.90
55990	55891	56089	64QAM	1	0	0	0	1	0	12.21	12.90
56640	56442	56640	64QAM	1	0	0	0	1	0	12.17	12.90
55340	55340	55538	256QAM	1	0	0	0	1	0	9.04	9.90
55990	55891	56089	256QAM	1	0	0	0	1	0	9.10	9.90
56640	56442	56640	256QAM	1	0	0	0	1	0	9.05	9.90
55340	55340	55538	QPSK	50	0	0	0	1	0	13.10	13.90

5-MORLAB	55891	56089	QPSK	50	0	0	0	1	0	13.18	13.90
56640	56442	56640	QPSK	50	0	0	0	1	0	13.05	13.90

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CA_48C Ant 4											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
55340	55340	55538	QPSK	1	0	0	0	1	0	16.81	17.50
55990	55891	56089	QPSK	1	0	0	0	1	0	16.86	17.50
56640	56442	56640	QPSK	1	0	0	0	1	0	16.76	17.50
55340	55340	55538	16QAM	1	0	0	0	1	0	15.76	16.50
55990	55891	56089	16QAM	1	0	0	0	1	0	15.79	16.50
56640	56442	56640	16QAM	1	0	0	0	1	0	15.73	16.50
55340	55340	55538	64QAM	1	0	0	0	1	0	14.73	15.50
55990	55891	56089	64QAM	1	0	0	0	1	0	14.80	15.50
56640	56442	56640	64QAM	1	0	0	0	1	0	14.68	15.50
55340	55340	55538	256QAM	1	0	0	0	1	0	11.68	12.50
55990	55891	56089	256QAM	1	0	0	0	1	0	11.75	12.50
56640	56442	56640	256QAM	1	0	0	0	1	0	11.69	12.50
55340	55340	55538	QPSK	50	0	0	0	1	0	15.71	16.50
55990	55891	56089	QPSK	50	0	0	0	1	0	15.82	16.50
56640	56442	56640	QPSK	50	0	0	0	1	0	15.68	16.50

CA_48C Ant 11											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
55340	55340	55538	QPSK	1	0	0	0	1	0	13.84	14.60
55990	55891	56089	QPSK	1	0	0	0	1	0	13.89	14.60
56640	56442	56640	QPSK	1	0	0	0	1	0	13.79	14.60
55340	55340	55538	16QAM	1	0	0	0	1	0	12.79	13.60
55990	55891	56089	16QAM	1	0	0	0	1	0	12.82	13.60
56640	56442	56640	16QAM	1	0	0	0	1	0	12.76	13.60
55340	55340	55538	64QAM	1	0	0	0	1	0	11.76	12.60
55990	55891	56089	64QAM	1	0	0	0	1	0	11.83	12.60
56640	56442	56640	64QAM	1	0	0	0	1	0	11.71	12.60
55340	55340	55538	256QAM	1	0	0	0	1	0	8.71	9.60
55990	55891	56089	256QAM	1	0	0	0	1	0	8.78	9.60
56640	56442	56640	256QAM	1	0	0	0	1	0	8.72	9.60
55340	55340	55538	QPSK	50	0	0	0	1	0	12.74	13.60
55990	55891	56089	QPSK	50	0	0	0	1	0	12.85	13.60
56640	56442	56640	QPSK	50	0	0	0	1	0	12.71	13.60

CA_66B Ant 0											
Combination:15MHz+10MHz(75RB+25RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
132070	132047	132140	QPSK	1	0	0	0	1	0	16.32	17.10
132322	132398	132491	QPSK	1	0	0	0	1	0	16.36	17.10
132572	132549	132642	QPSK	1	0	0	0	1	0	16.27	17.10
132070	132047	132140	16QAM	1	0	0	0	1	0	15.20	16.10
132322	132398	132491	16QAM	1	0	0	0	1	0	15.33	16.10
132572	132549	132642	16QAM	1	0	0	0	1	0	15.24	16.10
132070	132047	132140	64QAM	1	0	0	0	1	0	14.32	15.10
132322	132398	132491	64QAM	1	0	0	0	1	0	14.44	15.10
132572	132549	132642	64QAM	1	0	0	0	1	0	14.34	15.10
132070	132047	132140	256QAM	1	0	0	0	1	0	11.24	12.10
132322	132398	132491	256QAM	1	0	0	0	1	0	11.32	12.10
132572	132549	132642	256QAM	1	0	0	0	1	0	11.25	12.10
132070	132047	132140	QPSK	36	0	0	0	1	0	15.20	16.10
132322	132398	132491	QPSK	36	0	0	0	1	0	15.29	16.10
132572	132549	132642	QPSK	36	0	0	0	1	0	15.23	16.10

CA_66C Ant 0											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
132070	132072	132270	QPSK	1	0	0	0	1	0	16.39	17.10

132070	132323	132521	QPSK	1	0	0	0	1	0	16.43	17.10
132572	132374	132572	QPSK	1	0	0	0	1	0	15.27	16.10
132070	132072	132270	16QAM	1	0	0	0	1	0	15.40	16.10
132322	132323	132521	16QAM	1	0	0	0	1	0	15.31	16.10
132572	132374	132572	16QAM	1	0	0	0	1	0	14.39	15.10
132070	132072	132270	64QAM	1	0	0	0	1	0	14.51	15.10
132322	132323	132521	64QAM	1	0	0	0	1	0	14.41	15.10
132572	132374	132572	64QAM	1	0	0	0	1	0	11.35	12.10
132070	132072	132270	256QAM	1	0	0	0	1	0	11.41	12.10
132322	132323	132521	256QAM	1	0	0	0	1	0	11.33	12.10
132572	132374	132572	256QAM	1	0	0	0	1	0	15.27	16.10
132070	132072	132270	QPSK	50	0	0	0	1	0	15.36	16.10
132322	132323	132521	QPSK	50	0	0	0	1	0	15.30	16.10
132572	132374	132572	QPSK	50	0	0	0	1	0		

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n2 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	14.27	14.22	13.97	15.3
20		1	53	14.24	14.19	14.08	
20		1	104	14.26	14.05	14.10	
20		50	1	13.67	13.47	13.34	15.3
20	DFT-s-OFDM QPSK	50	25	14.25	14.09	14.00	
20		50	50	13.65	13.45	13.43	
20		100	0	13.76	13.57	13.49	
20		1	1	14.33	14.41	14.35	15.3
20	DFT-s-OFDM 16QAM	1	53	14.27	14.18	14.03	
20		1	104	14.27	14.04	13.77	
20		50	1	13.45	13.41	13.34	15.3
20		50	25	14.30	14.36	14.26	
20	DFT-s-OFDM 64QAM	50	50	13.49	13.48	13.40	
20		100	0	14.10	14.20	14.15	
20	DFT-s-OFDM 256QAM	1	1	13.35	13.41	13.27	14.3
20	CP-OFDM QPSK	1	1	11.26	11.42	11.17	12.3
20	CP-OFDM 16QAM	1	1	9.17	9.07	8.95	10.3
20	CP-OFDM 64QAM	1	1	12.60	12.73	12.65	13.3
20	CP-OFDM 256QAM	1	1	12.06	12.04	11.87	13.3
20		1	1	10.16	10.05	9.89	11.3
20		1	1	7.12	7.07	6.97	8.3
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	14.30	14.22	14.04	15.3
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	13.94	14.15	14.05	15.3
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	14.08	14.23	13.70	15.3

n2 (PC3)(ANT4)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	13.87	13.81	13.66	14.7
20		1	53	13.85	13.79	13.65	
20		1	104	13.78	13.68	13.74	
20		50	1	13.23	13.20	13.13	14.7
20		50	25	13.83	13.79	13.67	
20		50	50	13.26	13.16	13.08	
20		100	0	13.31	13.26	13.15	
20	DFT-s-OFDM QPSK	1	1	13.88	13.90	13.85	14.7
20		1	53	13.79	13.77	13.38	
20		1	104	13.88	13.74	13.76	
20		50	1	12.74	12.75	12.79	14.7
20		50	25	13.86	13.87	13.81	
20		50	50	12.78	12.72	13.73	
20		100	0	13.74	13.76	13.60	
20	DFT-s-OFDM 16QAM	1	1	12.52	12.63	12.38	13.7
20	DFT-s-OFDM 64QAM	1	1	10.94	11.00	10.84	12.7
20	DFT-s-OFDM 256QAM	1	1	8.74	8.65	8.54	9.7
20	CP-OFDM QPSK	1	1	12.33	12.39	12.21	13.7
20	CP-OFDM 16QAM	1	1	11.68	11.73	11.50	12.7
20	CP-OFDM 64QAM	1	1	9.79	9.75	9.54	10.7
20	CP-OFDM 256QAM	1	1	6.76	6.77	6.63	7.7
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	13.77	13.73	13.66	14.7
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	13.83	13.74	13.59	14.7
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	13.70	13.56	13.52	14.7

n2 (PC3)(ANT6)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	14.44	14.33	14.18	15.2
20		1	53	14.42	14.31	14.20	
20		1	104	14.43	14.21	14.28	
20		50	1	13.90	13.74	13.61	15.2
20	DFT-s-OFDM QPSK	50	25	14.50	14.23	14.17	
20		50	50	13.86	13.73	13.53	
20		100	0	13.98	13.76	13.59	
20		1	1	14.48	14.54	14.40	15.2
20	DFT-s-OFDM 16QAM	1	53	14.39	14.40	14.10	
20		1	104	14.44	14.47	14.35	
20		50	1	13.32	13.39	13.26	15.2
20		50	25	14.42	14.46	14.32	
20	DFT-s-OFDM 64QAM	50	50	13.37	13.35	13.28	
20		100	0	14.33	14.36	14.22	
20	DFT-s-OFDM 256QAM	1	1	13.27	13.22	12.96	14.2
20	CP-OFDM QPSK	1	1	11.64	11.64	11.32	12.2
20	CP-OFDM 16QAM	1	1	9.35	9.28	9.06	10.2
20	CP-OFDM 64QAM	1	1	13.08	12.96	12.82	14.2
20	CP-OFDM 256QAM	1	1	12.31	12.33	12.06	13.2
20		1	1	10.40	10.31	10.05	11.2
20		1	1	7.38	7.28	7.08	8.2
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	14.50	14.36	14.18	24.2
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	14.46	14.32	13.99	24.2
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	14.29	14.18	13.92	24.2

n5 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	18.5
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	17.43	17.38	17.36	18.5
20		1	53	17.27	17.31	17.29	
20		1	104	17.31	17.30	17.24	
20		50	1	16.60	16.56	16.61	18.5
20	DFT-s-OFDM QPSK	50	25	17.24	17.15	17.11	
20		50	50	16.60	16.56	16.54	
20		100	0	16.73	16.78	16.75	
20		1	1	17.38	17.46	17.40	18.5
20	DFT-s-OFDM 16QAM	1	53	17.22	17.24	17.24	
20		1	104	17.20	17.30	17.31	
20		50	1	16.78	16.76	16.75	18.5
20		50	25	17.31	17.34	17.23	
20	DFT-s-OFDM 64QAM	50	50	16.75	16.71	16.70	
20		100	0	17.31	17.28	17.26	16.5
20	DFT-s-OFDM 256QAM	1	1	15.81	15.85	15.85	
20	CP-OFDM QPSK	1	1	14.44	14.50	14.46	15.5
20	CP-OFDM 16QAM	1	1	11.98	11.90	11.95	12.5
20	CP-OFDM 64QAM	1	1	15.54	15.48	15.51	16.5
20	CP-OFDM 256QAM	1	1	14.92	14.91	14.93	15.5
20		1	1	13.03	12.99	12.95	13.5
20		1	1	9.91	9.95	9.94	10.5
Channel				166300	167300	168300	18.5
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	17.40	17.37	17.30	18.5
Channel				165800	167300	168800	18.5
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	17.34	17.26	17.28	18.5
Channel				165300	167300	169300	18.5
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	17.27	17.17	17.12	18.5

n7 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	DFT-s-OFDM PI/2 BPSK	1	1	13.60	13.78	13.71	15
40		1	108	13.55	13.80	13.67	
40		1	214	13.75	13.71	13.75	
40		108	1	13.01	13.21	13.11	15
40		108	54	13.65	13.89	13.71	
40		108	108	13.12	13.19	13.12	
40		216	0	13.14	13.27	13.23	
40	DFT-s-OFDM QPSK	1	1	13.62	13.77	13.69	15
40		1	108	13.50	13.61	13.52	
40		1	214	13.65	13.66	13.68	
40		108	1	13.03	13.04	13.02	15
40		108	54	13.68	13.71	13.70	
40		108	108	13.05	13.01	13.07	
40		216	0	13.60	13.65	13.66	
40	DFT-s-OFDM 16QAM	1	1	11.62	11.60	11.70	13
40	DFT-s-OFDM 64QAM	1	1	10.70	10.89	10.92	12
40	DFT-s-OFDM 256QAM	1	1	8.61	8.54	8.60	10
40	CP-OFDM QPSK	1	1	11.90	12.09	12.11	13
40	CP-OFDM 16QAM	1	1	10.94	11.05	10.76	12
40	CP-OFDM 64QAM	1	1	9.42	9.51	9.64	11
40	CP-OFDM 256QAM	1	1	6.48	6.83	6.60	8
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	DFT-s-OFDM QPSK	1	1	13.45	13.60	13.69	15
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	DFT-s-OFDM QPSK	1	1	13.52	13.66	13.66	15
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	DFT-s-OFDM QPSK	1	1	13.40	13.57	13.68	15
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	DFT-s-OFDM QPSK	1	1	13.43	13.64	13.58	15
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	DFT-s-OFDM QPSK	1	1	13.49	13.65	13.66	15
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	DFT-s-OFDM QPSK	1	1	13.35	13.57	13.68	15

n7 (PC3) (ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	DFT-s-OFDM PI/2 BPSK	1	1	11.93	12.01	12.15	13.7
40		1	108	11.89	11.98	11.96	
40		1	214	12.16	12.15	12.08	
40		108	1	11.70	11.80	11.89	13.7
40		108	54	12.06	12.16	12.12	
40		108	108	11.77	11.83	11.72	
40		216	0	11.80	11.83	11.92	
40	DFT-s-OFDM QPSK	1	1	12.75	12.82	12.77	13.7
40		1	108	12.72	12.70	12.75	
40		1	214	12.64	12.73	12.60	
40		108	1	11.75	11.81	11.71	13.7
40		108	54	12.62	12.65	12.49	
40		108	108	11.73	11.77	11.67	
40		216	0	12.22	12.24	12.21	
40	DFT-s-OFDM 16QAM	1	1	11.55	11.40	11.93	12.7
40	DFT-s-OFDM 64QAM	1	1	9.20	9.50	9.20	10.7
40	DFT-s-OFDM 256QAM	1	1	7.53	7.62	7.20	9.7
40	CP-OFDM QPSK	1	1	10.20	10.25	10.23	11.7
40	CP-OFDM 16QAM	1	1	9.26	9.35	9.22	10.7
40	CP-OFDM 64QAM	1	1	8.75	8.93	8.98	9.7
40	CP-OFDM 256QAM	1	1	5.25	5.22	5.55	6.7
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	DFT-s-OFDM QPSK	1	1	12.46	12.68	12.39	13.7
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	DFT-s-OFDM QPSK	1	1	12.32	12.71	12.43	13.7
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	DFT-s-OFDM QPSK	1	1	12.42	12.78	12.42	13.7
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	DFT-s-OFDM QPSK	1	1	12.50	12.73	12.71	13.7
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	DFT-s-OFDM QPSK	1	1	12.54	12.80	12.79	13.7
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	DFT-s-OFDM QPSK	1	1	12.45	12.73	12.72	13.7

n7 (PC3)(ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	DFT-s-OFDM PI/2 BPSK	1	1	14.20	14.30	14.35	15.7
40		1	108	14.23	14.27	14.24	
40		1	214	14.48	14.48	14.38	
40		108	1	13.70	13.79	13.85	15.7
40		108	54	14.35	14.48	14.43	
40		108	108	13.83	13.76	13.80	
40		216	0	13.87	13.88	13.88	
40	DFT-s-OFDM QPSK	1	1	14.95	15.02	14.93	15.7
40		1	108	14.83	14.73	14.63	
40		1	214	14.48	14.82	14.55	
40		108	1	13.77	14.12	13.81	15.7
40		108	54	14.80	14.85	14.83	
40		108	108	14.03	13.74	13.83	
40		216	0	14.72	14.75	14.76	
40	DFT-s-OFDM 16QAM	1	1	13.35	13.58	13.95	14.7
40	DFT-s-OFDM 64QAM	1	1	11.69	12.02	12.34	12.7
40	DFT-s-OFDM 256QAM	1	1	9.79	10.12	10.22	10.7
40	CP-OFDM QPSK	1	1	12.88	13.07	13.03	13.7
40	CP-OFDM 16QAM	1	1	12.55	12.56	13.12	13.7
40	CP-OFDM 64QAM	1	1	10.86	10.99	11.14	11.7
40	CP-OFDM 256QAM	1	1	7.94	8.00	8.18	8.7
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	DFT-s-OFDM QPSK	1	1	14.73	14.90	14.86	15.7
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	DFT-s-OFDM QPSK	1	1	14.82	15.01	14.93	15.7
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	DFT-s-OFDM QPSK	1	1	14.69	14.97	14.81	15.7
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	DFT-s-OFDM QPSK	1	1	14.75	15.00	14.98	15.7
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	DFT-s-OFDM QPSK	1	1	14.60	15.01	15.00	15.7
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	DFT-s-OFDM QPSK	1	1	14.75	14.83	14.78	15.7

n12 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	DFT-s-OFDM PI/2 BPSK	1	1	18.31	18.21	18.21	19.5
15		1	39	18.28	18.28	18.21	
15		1	77	18.22	18.18	18.22	
15		36	1	17.70	17.74	17.67	19.5
15		36	18	18.34	18.37	18.31	
15		36	37	17.70	17.73	17.66	
15		75	0	17.66	17.70	17.66	
15	DFT-s-OFDM QPSK	1	1	17.86	18.12	18.16	19.5
15		1	39	18.28	18.40	18.39	
15		1	77	18.29	18.24	18.24	
15		36	1	17.61	17.53	17.63	19.5
15		36	18	18.26	18.39	18.34	
15		36	37	17.61	17.64	17.57	
15		75	0	18.12	18.16	18.12	
15	DFT-s-OFDM 16QAM	1	1	16.56	16.69	16.60	18.5
15	DFT-s-OFDM 64QAM	1	1	15.00	14.96	14.93	16.5
15	DFT-s-OFDM 256QAM	1	1	12.88	12.86	12.81	14.5
15	CP-OFDM QPSK	1	1	16.12	16.19	16.16	17.5
15	CP-OFDM 16QAM	1	1	15.55	15.53	15.49	16.5
15	CP-OFDM 64QAM	1	1	13.72	13.71	13.68	14.5
15	CP-OFDM 256QAM	1	1	10.82	10.79	10.79	11.5
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	DFT-s-OFDM QPSK	1	1	18.31	18.25	18.26	19.5
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	DFT-s-OFDM QPSK	1	1	18.26	18.25	18.14	19.5

n25 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				374000	376500	380000	
Frequency (MHz)				1870	1882.5	1900	
40	DFT-s-OFDM PI/2 BPSK	1	1	14.92	14.89	14.87	16.1
40		1	108	14.78	14.66	14.85	
40		1	214	14.71	14.82	14.92	
40		108	1	14.27	14.28	14.23	16.1
40		108	54	14.80	14.73	14.87	
40		108	108	14.12	14.23	14.28	
40		216	0	14.33	14.23	14.34	
40	DFT-s-OFDM QPSK	1	1	14.96	14.91	14.87	16.1
40		1	108	14.73	14.64	14.86	
40		1	214	14.71	14.67	14.81	
40		108	1	14.18	14.20	14.10	16.1
40		108	54	14.89	14.80	14.81	
40		108	108	14.32	14.27	14.34	
40		216	0	14.83	14.81	14.84	
40	DFT-s-OFDM 16QAM	1	1	13.74	13.75	13.62	15.1
40	DFT-s-OFDM 64QAM	1	1	12.15	12.12	12.14	13.1
40	DFT-s-OFDM 256QAM	1	1	9.85	9.81	9.83	11.1
40	CP-OFDM QPSK	1	1	12.72	12.80	13.05	14.1
40	CP-OFDM 16QAM	1	1	12.05	11.84	11.71	13.1
40	CP-OFDM 64QAM	1	1	10.92	10.83	10.84	12.1
40	CP-OFDM 256QAM	1	1	7.86	7.85	7.85	9.1
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	DFT-s-OFDM QPSK	1	1	14.91	14.80	14.67	16.1
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	DFT-s-OFDM QPSK	1	1	14.91	14.74	14.79	16.1
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM QPSK	1	1	14.88	14.79	14.65	16.1
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	14.93	14.82	14.72	16.1
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	14.94	14.73	14.64	16.1
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	DFT-s-OFDM QPSK	1	1	14.75	14.61	14.56	16.1

n25 (PC3)(ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				374000	376500	380000	
Frequency (MHz)				1870	1882.5	1900	
40	DFT-s-OFDM PI/2 BPSK	1	1	14.20	14.07	13.97	15.1
40		1	108	14.21	13.88	13.95	
40		1	214	14.14	13.98	14.02	
40		108	1	13.62	13.41	13.33	15.1
40		108	54	14.22	13.95	13.97	
40		108	108	13.57	13.38	13.38	
40		216	0	13.69	13.42	13.44	
40	DFT-s-OFDM QPSK	1	1	14.27	14.07	13.97	15.1
40		1	108	14.24	13.84	13.96	
40		1	214	14.12	13.94	13.91	
40		108	1	13.12	13.14	13.12	15.1
40		108	54	14.19	13.99	13.91	
40		108	108	13.13	13.20	13.14	
40		216	0	14.06	14.08	14.09	
40	DFT-s-OFDM 16QAM	1	1	13.01	12.74	12.72	14.1
40	DFT-s-OFDM 64QAM	1	1	11.50	11.17	11.24	12.1
40	DFT-s-OFDM 256QAM	1	1	9.23	9.05	8.93	10.1
40	CP-OFDM QPSK	1	1	12.84	12.58	12.56	14.1
40	CP-OFDM 16QAM	1	1	12.16	11.95	11.94	13.1
40	CP-OFDM 64QAM	1	1	10.25	10.11	9.94	11.1
40	CP-OFDM 256QAM	1	1	7.15	7.02	6.95	8.1
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	DFT-s-OFDM QPSK	1	1	14.06	13.95	13.82	15.1
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	DFT-s-OFDM QPSK	1	1	14.06	14.10	13.94	15.1
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM QPSK	1	1	14.03	13.94	13.80	15.1
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	14.08	13.97	13.87	15.1
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	14.09	13.88	13.79	15.1
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	DFT-s-OFDM QPSK	1	1	13.90	13.76	13.71	15.1

n25 (PC3)(ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	DFT-s-OFDM PI/2 BPSK	1	1	14.47	14.51	14.44	15.5
40		1	108	14.48	14.29	14.42	
40		1	214	14.41	14.37	14.49	
40		108	1	13.89	13.87	13.80	15.5
40		108	54	14.49	14.50	14.44	
40		108	108	13.84	13.80	13.85	
40		216	0	13.96	13.86	13.91	
40	DFT-s-OFDM QPSK	1	1	14.54	14.42	14.44	15.5
40		1	108	14.51	14.29	14.43	
40		1	214	14.39	14.37	14.38	
40		108	1	13.59	13.69	13.57	15.5
40		108	54	14.46	14.40	14.38	
40		108	108	13.56	13.63	13.51	
40		216	0	14.32	14.41	14.40	
40	DFT-s-OFDM 16QAM	1	1	13.28	13.28	13.19	14.5
40	DFT-s-OFDM 64QAM	1	1	11.77	11.72	11.71	12.5
40	DFT-s-OFDM 256QAM	1	1	9.50	9.58	9.40	10.5
40	CP-OFDM QPSK	1	1	13.11	13.11	13.03	14.5
40	CP-OFDM 16QAM	1	1	12.43	12.50	12.41	13.5
40	CP-OFDM 64QAM	1	1	10.52	10.63	10.41	11.5
40	CP-OFDM 256QAM	1	1	7.42	7.48	7.42	8.5
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	DFT-s-OFDM QPSK	1	1	14.42	14.31	14.18	15.5
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	DFT-s-OFDM QPSK	1	1	14.42	14.46	14.30	15.5
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM QPSK	1	1	14.39	14.30	14.16	15.5
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	14.44	14.33	14.23	15.5
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	14.45	14.24	14.15	15.5
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	DFT-s-OFDM QPSK	1	1	14.26	14.12	14.07	15.5

n26(814-824MHz) (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					163800		19
Frequency (MHz)					819		
10	DFT-s-OFDM PI/2 BPSK	1	1		17.87		19
10		1	26		17.81		
10		1	50		17.79		
10		25	1		17.21		19
10		25	12		17.86		
10		25	25		17.22		
10		50	0		17.26		
10	DFT-s-OFDM QPSK	1	1		17.90		19
10		1	26		17.89		
10		1	50		17.87		
10		25	1		17.09		19
10		25	12		17.87		
10		25	25		17.04		
10		50	0		17.68		
10	DFT-s-OFDM 16QAM	1	1		16.60		17
10	DFT-s-OFDM 64QAM	1	1		15.22		17
10	DFT-s-OFDM 256QAM	1	1		12.79		14
10	CP-OFDM QPSK	1	1		16.10		17
10	CP-OFDM 16QAM	1	1		14.88		16
10	CP-OFDM 64QAM	1	1		13.81		15
10	CP-OFDM 256QAM	1	1		10.83		12
Channel				163300	163800	164300	19
Frequency (MHz)				816.5	819	821.5	
5	DFT-s-OFDM QPSK	1	1	17.66	17.80	17.70	19

n26(824-849MHz) (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	17.68	17.84	17.72	19
20		1	53	17.67	17.75	17.64	
20		1	104	17.68	17.69	17.62	
20		50	1	17.09	17.11	17.11	19
20	DFT-s-OFDM QPSK	50	25	17.73	17.73	17.67	
20		50	50	17.03	17.06	17.12	
20		100	0	17.24	17.25	17.16	
20		1	1	17.87	17.84	17.82	19
20	DFT-s-OFDM 16QAM	1	53	17.75	17.82	17.79	
20		1	104	17.77	17.77	17.69	
20		50	1	17.19	17.00	17.03	19
20		50	25	17.78	17.76	17.67	
20	DFT-s-OFDM 64QAM	50	50	17.16	17.19	17.19	
20		100	0	17.55	17.66	17.61	
20	DFT-s-OFDM 256QAM	1	1	16.39	16.20	16.17	17
20	DFT-s-OFDM 64QAM	1	1	14.65	14.65	14.59	16
20	DFT-s-OFDM 256QAM	1	1	12.23	12.29	12.35	14
20	CP-OFDM QPSK	1	1	15.94	15.89	15.91	16
20	CP-OFDM 16QAM	1	1	15.25	15.30	15.19	16
20	CP-OFDM 64QAM	1	1	13.35	13.37	13.29	14
20	CP-OFDM 256QAM	1	1	10.28	10.40	10.24	11
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	17.82	17.81	17.77	19
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	17.73	17.55	17.56	19
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	17.79	17.62	17.62	19

n30 (PC3)(ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	DFT-s-OFDM PI/2 BPSK	1	1		14.35		15.7
10		1	26		14.50		
10		1	50		14.46		
10		25	1		13.84		15.7
10		25	12		14.51		
10		25	25		13.94		
10		50	0		14.24		
10	DFT-s-OFDM QPSK	1	1		14.24		15.7
10		1	26		14.53		
10		1	50		14.15		
10		25	1		13.72		15.7
10		25	12		14.49		
10		25	25		13.90		
10		50	0		14.33		
10	DFT-s-OFDM 16QAM	1	1		13.26		14.7
10	DFT-s-OFDM 64QAM	1	1		11.62		8.2
10	DFT-s-OFDM 256QAM	1	1		9.47		6.2
10	CP-OFDM QPSK	1	1		12.88		13.7
10	CP-OFDM 16QAM	1	1		12.27		12.7
10	CP-OFDM 64QAM	1	1		10.42		10.7
10	CP-OFDM 256QAM	1	1		7.43		7.7
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	DFT-s-OFDM QPSK	1	1	14.11	14.39	14.40	15.7

n30 (PC3)(ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	DFT-s-OFDM PI/2 BPSK	1	1		14.63		15.9
10		1	26		14.70		
10		1	50		14.68		
10		25	1		14.01		15.9
10		25	12		14.69		
10		25	25		14.16		
10		50	0		14.03		
10	DFT-s-OFDM QPSK	1	1		14.52		15.9
10		1	26		14.73		
10		1	50		14.64		
10		25	1		13.98		15.9
10		25	12		14.65		
10		25	25		13.92		
10		50	0		14.61		
10	DFT-s-OFDM 16QAM	1	1		13.38		14.9
10	DFT-s-OFDM 64QAM	1	1		11.76		12.9
10	DFT-s-OFDM 256QAM	1	1		9.65		10.9
10	CP-OFDM QPSK	1	1		13.04		14.9
10	CP-OFDM 16QAM	1	1		12.46		13.9
10	CP-OFDM 64QAM	1	1		10.60		11.9
10	CP-OFDM 256QAM	1	1		7.63		8.9
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	DFT-s-OFDM QPSK	1	1	14.51	14.63	14.67	15.9

n38 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	14.44	14.53	14.56	15.7
40		1	53	14.29	14.19	14.25	
40		1	104	14.25	14.13	14.27	
40		50	1	13.93	13.90	13.91	15.7
40		50	25	14.49	14.36	14.46	
40		50	50	13.77	13.67	13.76	
40		100	0	14.01	13.94	13.93	
40	DFT-s-OFDM QPSK	1	1	14.55	14.59	14.62	15.7
40		1	53	14.26	14.18	14.22	
40		1	104	14.26	14.03	14.25	
40		50	1	13.76	13.72	13.73	15.7
40		50	25	14.48	14.50	14.51	
40		50	50	13.72	13.74	13.70	
40		100	0	14.50	14.50	14.45	
40	DFT-s-OFDM 16QAM	1	1	13.15	13.54	13.40	14.7
40	DFT-s-OFDM 64QAM	1	1	11.76	11.87	11.89	12.7
40	DFT-s-OFDM 256QAM	1	1	9.59	9.75	9.71	10.7
40	CP-OFDM QPSK	1	1	13.06	13.11	13.12	13.7
40	CP-OFDM 16QAM	1	1	12.44	12.45	12.53	10.2
40	CP-OFDM 64QAM	1	1	10.42	10.74	10.59	11.7
40	CP-OFDM 256QAM	1	1	7.58	7.77	7.43	8.7
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	DFT-s-OFDM QPSK	1	1	14.50	14.60	14.55	15.7
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	DFT-s-OFDM QPSK	1	1	14.39	14.51	14.45	15.7
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	DFT-s-OFDM QPSK	1	1	14.41	14.41	14.38	15.7
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	DFT-s-OFDM QPSK	1	1	14.44	14.44	14.39	15.7

n38 (PC3)(ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	12.00	12.11	12.12	13.1
40		1	53	11.85	11.88	11.81	
40		1	104	11.81	11.87	11.83	
40		50	1	11.49	11.61	11.47	13.1
40	DFT-s-OFDM QPSK	50	25	12.05	12.06	12.02	
40		50	50	11.33	11.41	11.32	
40		100	0	11.57	11.58	11.49	
40		1	1	12.11	12.14	12.18	13.1
40	DFT-s-OFDM 16QAM	1	53	11.82	11.98	11.78	
40		1	104	11.82	11.84	11.81	
40		50	1	11.22	11.19	11.19	13.1
40		50	25	12.04	12.04	12.07	
40	DFT-s-OFDM 64QAM	50	50	11.18	11.11	11.16	
40		100	0	11.95	11.96	11.89	
40	DFT-s-OFDM 256QAM	1	1	10.41	10.76	10.66	12.1
40	CP-OFDM QPSK	1	1	9.02	9.34	9.15	11.1
40	CP-OFDM 16QAM	1	1	6.85	6.91	6.97	8.1
40	CP-OFDM 64QAM	1	1	10.32	10.40	10.38	12.1
40	CP-OFDM 256QAM	1	1	9.70	8.83	9.79	10.1
40		1	1	7.68	7.86	7.85	9.1
40		1	1	4.84	4.92	4.73	6.1
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	DFT-s-OFDM QPSK	1	1	11.58	11.68	11.63	13.1
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	DFT-s-OFDM QPSK	1	1	11.77	11.89	11.92	13.1
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	DFT-s-OFDM QPSK	1	1	11.79	11.79	11.76	13.1
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	DFT-s-OFDM QPSK	1	1	11.82	11.82	11.77	13.1

n38 (PC3)(ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	16.96	17.09	17.08	17.8
40		1	53	16.81	17.00	16.77	
40		1	104	16.77	17.11	16.79	
40		50	1	16.45	16.80	16.43	17.8
40	DFT-s-OFDM QPSK	50	25	17.01	17.11	16.98	
40		50	50	16.29	16.60	16.28	
40		100	0	16.53	16.81	16.45	
40	DFT-s-OFDM 16QAM	1	1	17.07	17.11	17.14	17.8
40		1	53	16.78	17.07	16.74	
40		1	104	16.78	17.06	16.77	
40		50	1	15.98	16.25	15.95	17.8
40	DFT-s-OFDM 64QAM	50	25	17.00	17.02	17.03	
40		50	50	16.04	16.17	16.02	
40		100	0	16.66	16.79	16.76	
40	DFT-s-OFDM 256QAM	1	1	15.67	16.21	15.92	16.8
40	CP-OFDM QPSK	1	1	14.28	14.84	14.41	15.8
40	CP-OFDM 16QAM	1	1	12.11	12.52	12.23	12.8
40	CP-OFDM 64QAM	1	1	15.58	15.71	15.64	16.8
40	CP-OFDM 256QAM	1	1	14.96	14.97	15.05	15.8
40		1	1	12.94	13.44	13.11	14.8
40		1	1	9.70	9.62	9.65	10.8
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	DFT-s-OFDM QPSK	1	1	17.02	17.12	17.07	17.8
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	DFT-s-OFDM QPSK	1	1	16.91	17.03	16.97	17.8
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	DFT-s-OFDM QPSK	1	1	16.93	16.93	16.90	17.8
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	DFT-s-OFDM QPSK	1	1	16.96	16.96	16.91	17.8

n41 (PC2)(ANT0)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	16.2
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	14.61	15.04	14.98	15.00	14.94	16.2
100		1	136	14.77	14.93	14.76	14.54	14.85	
100		1	271	15.01	14.65	14.44	14.29	14.78	
100		135	1	14.23	14.29	14.29	14.29	14.25	16.2
100		135	67	14.79	15.00	14.84	14.59	14.85	
100		135	136	14.29	14.38	14.38	14.23	14.25	
100		270	0	14.27	14.23	14.28	14.25	14.20	
100	DFT-s-OFDM QPSK	1	1	14.88	14.96	14.85	14.76	14.97	16.2
100		1	136	14.90	15.05	15.06	15.04	14.97	
100		1	271	15.00	14.59	14.44	14.43	14.24	
100		135	1	14.23	14.35	14.30	14.28	14.36	16.2
100		135	67	14.86	15.01	15.03	14.85	14.96	
100		135	136	14.29	14.39	14.20	14.21	14.29	
100		270	0	14.96	14.94	14.98	14.91	14.88	
100	DFT-s-OFDM 16QAM	1	1	13.37	13.50	13.50	13.48	13.10	14.2
100	DFT-s-OFDM 64QAM	1	1	12.21	12.67	12.59	12.33	12.19	13.2
100	DFT-s-OFDM 256QAM	1	1	11.08	11.35	11.33	11.41	10.99	12.2
100	CP-OFDM QPSK	1	1	13.07	13.39	13.36	13.45	13.30	14.2
100	CP-OFDM 16QAM	1	1	12.58	12.76	12.88	12.68	12.86	13.2
100	CP-OFDM 64QAM	1	1	11.29	11.67	11.63	11.67	11.31	12.2
100	CP-OFDM 256QAM	1	1	7.25	7.20	7.22	7.10	7.20	8.2
Channel				508200	513402	518598	523800	528996	16.2
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	14.44	14.73	14.84	14.96	14.93	16.2
Channel				507204	512904	518598	524298	529998	16.2
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	14.49	14.76	14.87	14.99	15.04	16.2
Channel				506202	512400	518598	524796	531000	16.2
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	14.41	14.65	14.88	14.92	14.89	16.2
Channel				505200	511902	518598	525798	531996	16.2
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	14.33	14.78	14.82	14.93	14.86	16.2
Channel				504204	511404	518598	525798	532998	16.2
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	14.68	14.87	15.00	15.01	15.01	16.2
Channel				503202	510900	518598	526296	534000	16.2
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	14.51	14.70	14.86	14.86	14.66	16.2
Channel				502200	510402	518598	526800	534996	16.2
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	14.65	14.79	15.03	14.93	14.68	16.2
Channel				501204	509904	518598	527298	535998	16.2
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	14.49	14.69	14.77	14.79	14.50	16.2

n41 (PC2) (ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	13.6
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	12.58	12.77	12.77	12.79	12.80	13.6
100		1	136	12.69	12.67	12.73	12.75	12.54	
100		1	271	12.86	12.83	12.62	12.30	12.17	
100		135	1	11.68	11.69	11.72	11.68	11.68	13.6
100		135	67	12.75	12.79	12.88	12.79	12.78	
100		135	136	11.61	11.63	11.72	11.67	11.72	
100		270	0	11.68	11.64	11.72	11.64	11.73	
100	DFT-s-OFDM QPSK	1	1	12.67	12.65	12.81	12.87	12.82	13.6
100		1	136	12.91	12.87	12.92	12.86	12.88	
100		1	271	12.84	12.69	12.67	12.35	12.22	
100		135	1	11.66	11.74	11.78	11.82	11.79	13.6
100		135	67	12.75	12.76	12.85	12.75	12.78	
100		135	136	11.75	11.85	11.71	11.60	11.73	
100		270	0	12.49	12.34	12.56	12.49	12.44	
100	DFT-s-OFDM 16QAM	1	1	11.70	11.66	11.75	11.81	11.80	12.6
100	DFT-s-OFDM 64QAM	1	1	10.70	10.72	10.86	10.88	10.76	11.6
100	DFT-s-OFDM 256QAM	1	1	9.51	9.53	9.65	9.62	9.62	10.6
100	CP-OFDM QPSK	1	1	11.83	11.87	11.88	11.97	12.01	12.6
100	CP-OFDM 16QAM	1	1	10.23	10.21	10.22	10.41	10.30	11.6
100	CP-OFDM 64QAM	1	1	10.29	10.34	10.42	10.43	10.47	11.6
100	CP-OFDM 256QAM	1	1	7.01	7.05	7.02	7.15	7.19	8.6
Channel				508200	513402	518598	523800	528996	13.6
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	12.76	12.77	12.78	12.87	12.86	13.6
Channel				507204	512904	518598	524298	529998	13.6
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	12.73	12.86	12.89	12.88	12.85	13.6
Channel				506202	512400	518598	524796	531000	13.6
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	12.62	12.71	12.80	12.87	12.72	13.6
Channel				505200	511902	518598	525798	531996	13.6
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	12.58	12.79	12.85	12.86	12.60	13.6
Channel				504204	511404	518598	525798	532998	13.6
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	12.72	12.90	12.88	12.88	12.62	13.6
Channel				503202	510900	518598	526296	534000	13.6
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	12.54	12.73	12.88	12.63	12.34	13.6
Channel				502200	510402	518598	526800	534996	13.6
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	12.68	12.83	12.85	12.79	12.20	13.6
Channel				501204	509904	518598	527298	535998	13.6
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	12.60	12.82	12.72	12.63	12.08	13.6

n41 (PC2)(ANT6)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	17.1
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	15.93	16.26	16.18	16.21	16.26	17.1
100		1	136	16.09	16.19	16.25	16.27	16.17	
100		1	271	16.33	16.13	16.30	16.04	16.10	
100		135	1	15.15	15.15	15.14	15.21	15.27	17.1
100		135	67	16.11	16.27	16.35	16.32	16.17	
100		135	136	15.21	15.19	15.23	15.16	15.07	
100		270	0	15.19	15.22	15.27	15.26	15.12	
100	DFT-s-OFDM QPSK	1	1	15.92	16.26	16.13	16.19	16.29	17.1
100		1	136	16.20	16.28	16.36	16.31	16.29	
100		1	271	16.32	16.12	16.35	16.10	15.46	
100		135	1	15.25	15.18	15.08	15.27	15.38	17.1
100		135	67	16.18	16.29	16.34	16.29	16.18	
100		135	136	15.31	15.24	15.15	15.23	15.21	
100		270	0	16.22	16.04	16.28	15.91	15.91	
100	DFT-s-OFDM 16QAM	1	1	14.58	14.62	14.95	15.00	15.11	16.1
100	DFT-s-OFDM 64QAM	1	1	13.42	13.59	13.50	13.49	14.20	14.1
100	DFT-s-OFDM 256QAM	1	1	11.69	12.60	12.45	12.52	13.00	13.1
100	CP-OFDM QPSK	1	1	14.28	14.77	14.66	14.28	15.31	15.1
100	CP-OFDM 16QAM	1	1	13.79	13.32	13.14	13.06	14.87	14.1
100	CP-OFDM 64QAM	1	1	12.95	13.58	13.46	13.59	13.77	14.1
100	CP-OFDM 256QAM	1	1	10.20	9.99	9.86	9.87	10.33	11.1
Channel				508200	513402	518598	523800	528996	17.1
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	15.76	16.05	16.16	16.28	16.25	17.1
Channel				507204	512904	518598	524298	529998	17.1
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	15.81	16.08	16.19	16.31	15.81	17.1
Channel				506202	512400	518598	524796	531000	17.1
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	15.73	15.97	16.20	16.24	16.21	17.1
Channel				505200	511902	518598	525798	531996	17.1
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	15.65	16.10	16.14	16.25	16.18	17.1
Channel				504204	511404	518598	525798	532998	17.1
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	16.00	16.19	16.32	16.33	16.33	17.1
Channel				503202	510900	518598	526296	534000	17.1
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	15.83	16.02	16.18	16.18	15.98	17.1
Channel				502200	510402	518598	526800	534996	17.1
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	15.97	16.11	15.90	16.25	16.00	17.1
Channel				501204	509904	518598	527298	535998	17.1
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	15.81	16.01	16.09	16.11	15.82	17.1

n41 (PC3)(ANT0)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	14.2
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	12.79	13.12	13.04	13.07	13.12	14.2
100		1	136	12.95	13.05	13.11	13.13	13.03	
100		1	271	13.19	12.99	13.16	12.90	12.96	
100		135	1	12.41	12.51	12.50	12.57	12.53	14.2
100		135	67	12.97	13.13	13.21	13.18	13.03	
100		135	136	12.47	12.55	12.59	12.52	12.43	
100		270	0	12.35	12.58	12.63	12.62	12.48	
100	DFT-s-OFDM QPSK	1	1	12.78	13.12	12.99	13.05	13.15	14.2
100		1	136	13.06	13.14	13.22	13.17	13.15	
100		1	271	13.18	12.98	13.21	12.96	12.32	
100		135	1	12.41	12.34	12.24	12.43	12.54	14.2
100		135	67	13.04	13.15	13.20	13.15	13.04	
100		135	136	12.47	12.40	12.31	12.39	12.37	
100		270	0	13.08	12.90	13.14	13.10	13.10	
100	DFT-s-OFDM 16QAM	1	1	11.44	11.48	11.81	11.86	11.97	12.2
100	DFT-s-OFDM 64QAM	1	1	10.28	10.45	10.36	10.35	11.06	11.2
100	DFT-s-OFDM 256QAM	1	1	8.55	9.46	9.31	9.38	9.86	10.2
100	CP-OFDM QPSK	1	1	11.14	11.63	11.52	11.14	12.17	12.2
100	CP-OFDM 16QAM	1	1	10.65	10.18	10.00	9.92	10.10	11.2
100	CP-OFDM 64QAM	1	1	9.81	10.44	10.32	10.45	10.63	11.2
100	CP-OFDM 256QAM	1	1	7.06	6.85	6.72	6.73	7.19	8.2
Channel				508200	513402	518598	523800	528996	14.2
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	12.62	12.91	13.02	13.14	13.11	14.2
Channel				507204	512904	518598	524298	529998	14.2
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	12.67	12.94	13.05	13.17	13.11	14.2
Channel				506202	512400	518598	524796	531000	14.2
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	12.59	12.83	13.06	13.10	13.07	14.2
Channel				505200	511902	518598	525798	531996	14.2
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	12.51	12.96	13.00	13.11	13.04	14.2
Channel				504204	511404	518598	525798	532998	14.2
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	12.86	13.05	13.18	13.19	13.19	14.2
Channel				503202	510900	518598	526296	534000	14.2
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	12.69	12.88	13.04	13.04	12.84	14.2
Channel				502200	510402	518598	526800	534996	14.2
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	12.83	12.97	13.12	13.11	12.86	14.2
Channel				501204	509904	518598	527298	535998	14.2
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	12.67	12.87	12.95	12.97	12.68	14.2

n41 (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	12.1
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	10.65	10.98	10.90	10.93	10.98	12.1
100		1	136	10.81	10.91	10.97	10.99	10.89	
100		1	271	11.05	10.85	11.02	10.76	10.82	
100		135	1	10.37	10.37	10.36	10.43	10.49	12.1
100		135	67	10.83	10.99	11.07	11.04	10.89	
100		135	136	10.43	10.41	10.45	10.38	10.39	
100		270	0	10.31	10.44	10.49	10.48	10.44	
100	DFT-s-OFDM QPSK	1	1	10.64	10.98	10.85	10.91	11.01	12.1
100		1	136	10.92	11.00	11.08	11.03	11.01	
100		1	271	11.04	10.84	11.07	10.82	10.18	
100		135	1	10.37	10.30	10.20	10.39	10.50	12.1
100		135	67	10.90	11.01	11.06	11.01	10.90	
100		135	136	10.43	10.36	10.27	10.35	10.33	
100		270	0	10.94	10.76	11.00	10.63	10.63	
100	DFT-s-OFDM 16QAM	1	1	9.30	9.34	9.67	9.72	9.83	10.1
100	DFT-s-OFDM 64QAM	1	1	8.14	8.31	8.22	8.21	8.92	9.1
100	DFT-s-OFDM 256QAM	1	1	6.41	7.32	7.17	7.24	7.72	8.1
100	CP-OFDM QPSK	1	1	9.00	9.49	9.38	9.00	9.30	10.1
100	CP-OFDM 16QAM	1	1	8.51	8.04	7.86	7.78	7.96	9.1
100	CP-OFDM 64QAM	1	1	7.67	8.30	8.18	8.31	8.49	9.1
100	CP-OFDM 256QAM	1	1	4.12	4.71	4.58	4.59	4.45	6.1
Channel				508200	513402	518598	523800	528996	12.1
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	10.48	10.77	10.88	11.00	10.97	12.1
Channel				507204	512904	518598	524298	529998	12.1
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	10.53	10.80	10.91	11.03	11.02	12.1
Channel				506202	512400	518598	524796	531000	12.1
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	10.45	10.69	10.92	10.96	10.93	12.1
Channel				505200	511902	518598	525798	531996	12.1
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	10.37	10.82	10.86	10.97	10.90	12.1
Channel				504204	511404	518598	525798	532998	12.1
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	10.72	10.91	11.04	11.05	11.05	12.1
Channel				503202	510900	518598	526296	534000	12.1
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	10.55	10.74	10.90	10.90	10.70	12.1
Channel				502200	510402	518598	526800	534996	12.1
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	10.69	10.83	11.00	10.97	10.72	12.1
Channel				501204	509904	518598	527298	535998	12.1
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	10.53	10.73	10.81	10.83	10.54	12.1

n41 (PC3)(ANT6)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	14.4
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	12.87	13.20	13.12	13.15	13.20	14.4
100		1	136	13.03	13.13	13.19	13.21	13.11	
100		1	271	13.27	13.07	13.24	12.98	13.04	
100		135	1	12.59	12.49	12.48	12.55	12.61	14.4
100		135	67	13.05	13.21	13.29	13.26	13.11	
100		135	136	12.65	12.53	12.57	12.50	12.51	
100		270	0	12.53	12.56	12.61	12.60	12.56	
100	DFT-s-OFDM QPSK	1	1	12.86	13.20	13.07	13.13	13.23	14.4
100		1	136	13.14	13.22	13.30	13.25	13.23	
100		1	271	13.26	13.06	13.29	13.04	12.40	
100		135	1	12.49	12.42	12.52	12.51	12.62	14.4
100		135	67	13.12	13.23	13.28	13.23	13.12	
100		135	136	12.55	12.48	12.49	12.47	12.45	
100		270	0	13.16	12.98	13.22	12.85	12.85	
100	DFT-s-OFDM 16QAM	1	1	11.52	11.56	11.89	11.94	12.05	13.4
100	DFT-s-OFDM 64QAM	1	1	10.36	10.53	10.44	10.43	10.25	11.4
100	DFT-s-OFDM 256QAM	1	1	9.25	9.54	9.39	9.46	9.25	11.4
100	CP-OFDM QPSK	1	1	11.22	11.71	11.60	11.22	11.52	12.4
100	CP-OFDM 16QAM	1	1	10.73	10.26	10.08	10.00	10.18	11.4
100	CP-OFDM 64QAM	1	1	9.89	10.52	10.40	10.53	10.71	11.4
100	CP-OFDM 256QAM	1	1	6.34	6.93	6.80	6.81	6.67	8.4
Channel				508200	513402	518598	523800	528996	14.4
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	12.70	12.99	7.80	13.22	13.19	14.4
Channel				507204	512904	518598	524298	529998	14.4
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	12.75	13.02	13.13	13.25	13.24	14.4
Channel				506202	512400	518598	524796	531000	14.4
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	12.67	12.91	13.14	13.18	13.15	14.4
Channel				505200	511902	518598	525798	531996	14.4
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	12.59	13.04	13.08	13.19	13.12	14.4
Channel				504204	511404	518598	525798	532998	14.4
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	12.94	13.13	13.26	13.27	13.27	14.4
Channel				503202	510900	518598	526296	534000	14.4
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	12.77	12.96	13.12	13.12	12.92	14.4
Channel				502200	510402	518598	526800	534996	14.4
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	12.91	13.05	13.22	13.19	12.94	14.4
Channel				501204	509904	518598	527298	535998	14.4
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	12.75	12.95	13.03	13.05	12.76	14.4

n48 (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				638000	639834	641666	643500	645332	13.4
Frequency (MHz)				3570	3597.51	3624.99	3652.5	3679.98	
40	DFT-s-OFDM PI/2 BPSK	1	1	11.84	11.89	12.19	12.29	12.19	13.4
40		1	53	11.92	12.30	12.12	12.27	12.23	
40		1	104	12.10	12.22	12.31	12.25	12.33	
40		50	1	11.47	11.59	11.68	11.80	11.75	13.4
40		50	25	12.00	12.41	12.20	12.44	12.36	
40		50	50	11.49	11.80	11.76	11.77	11.71	
40		100	0	11.43	11.80	11.62	11.83	11.79	
40	DFT-s-OFDM QPSK	1	1	12.18	12.27	12.37	12.32	12.36	13.4
40		1	53	11.99	12.30	12.22	12.31	12.35	
40		1	104	12.29	12.30	12.27	12.22	12.30	
40		50	1	11.70	11.66	11.77	11.70	11.64	13.4
40		50	25	12.12	12.13	12.23	12.21	12.23	
40		50	50	11.60	11.77	11.77	11.72	11.65	
40		100	0	12.14	12.13	12.22	12.21	12.21	
40	DFT-s-OFDM 16QAM	1	1	10.63	10.67	10.98	10.97	10.98	12.4
40	DFT-s-OFDM 64QAM	1	1	9.19	9.10	9.69	9.55	9.54	10.4
40	DFT-s-OFDM 256QAM	1	1	6.98	6.99	7.43	7.51	7.35	8.4
40	CP-OFDM QPSK	1	1	10.31	10.33	10.69	10.64	10.68	11.4
40	CP-OFDM 16QAM	1	1	9.71	9.79	10.08	10.03	10.07	11.4
40	CP-OFDM 64QAM	1	1	7.82	7.86	8.21	8.16	8.19	9.4
40	CP-OFDM 256QAM	1	1	5.04	5.06	5.44	5.35	5.40	6.4
Channel				637668	639668	641666	643666	645666	13.4
Frequency (MHz)				3565.02	3595.02	3624.99	3654.99	3684.99	
30	DFT-s-OFDM QPSK	1	1	11.87	11.95	12.31	12.26	12.25	13.4
Channel				637334	639500	641666	643832	646000	13.4
Frequency (MHz)				3560.01	3592.5	3624.99	3657.48	3690	
20	DFT-s-OFDM QPSK	1	1	11.32	11.87	12.20	12.15	12.19	13.4
Channel				637168	639418	641666	643916	646166	13.4
Frequency (MHz)				3557.52	3591.27	3624.99	3658.74	3692.49	
15	DFT-s-OFDM QPSK	1	1	11.37	11.95	12.33	12.28	12.13	13.4
Channel				637000	639334	641666	644000	646332	13.4
Frequency (MHz)				3555	3590.01	3624.99	3660	3694.98	
10	DFT-s-OFDM QPSK	1	1	11.30	11.80	12.34	12.29	12.20	13.4

n48 (PC3)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				638000	639834	641666	643500	645332	12.7
Frequency (MHz)				3570	3597.51	3624.99	3652.5	3679.98	
40	DFT-s-OFDM PI/2 BPSK	1	1	11.11	11.16	11.46	11.56	11.46	12.7
40		1	53	11.19	11.57	11.39	11.54	11.50	
40		1	104	11.37	11.49	11.58	11.52	11.60	
40		50	1	10.75	10.77	10.86	10.78	10.73	12.7
40		50	25	10.58	10.99	10.78	10.92	10.94	
40		50	50	10.77	10.78	10.74	10.75	10.79	
40		100	0	10.71	10.78	10.70	10.81	10.77	
40	DFT-s-OFDM QPSK	1	1	11.66	11.65	11.72	11.69	11.70	12.7
40		1	53	11.06	11.47	11.29	11.48	11.42	
40		1	104	11.36	11.37	11.54	11.49	11.57	
40		50	1	10.81	10.74	10.75	10.88	10.82	12.7
40		50	25	11.58	11.60	11.65	11.60	11.62	
40		50	50	10.78	10.85	10.85	10.80	10.78	
40		100	0	11.46	11.49	11.55	11.53	11.51	
40	DFT-s-OFDM 16QAM	1	1	9.90	9.94	10.25	10.24	10.25	10.7
40	DFT-s-OFDM 64QAM	1	1	8.46	9.00	8.96	8.82	8.81	9.7
40	DFT-s-OFDM 256QAM	1	1	6.25	6.26	6.70	6.78	6.62	7.7
40	CP-OFDM QPSK	1	1	9.58	9.60	9.96	9.91	9.95	10.7
40	CP-OFDM 16QAM	1	1	8.98	9.06	9.35	9.30	9.34	9.7
40	CP-OFDM 64QAM	1	1	7.09	7.13	7.48	7.43	7.46	8.7
40	CP-OFDM 256QAM	1	1	4.31	4.33	4.71	4.62	4.67	5.7
Channel				637668	639668	641666	643666	645666	12.7
Frequency (MHz)				3565.02	3595.02	3624.99	3654.99	3684.99	
30	DFT-s-OFDM QPSK	1	1	11.14	11.22	11.59	11.58	11.52	12.7
Channel				637334	639500	641666	643832	646000	12.7
Frequency (MHz)				3560.01	3592.5	3624.99	3657.48	3690	
20	DFT-s-OFDM QPSK	1	1	11.38	11.14	11.21	11.47	11.46	12.7
Channel				637168	639418	641666	643916	646166	12.7
Frequency (MHz)				3557.52	3591.27	3624.99	3658.74	3692.49	
15	DFT-s-OFDM QPSK	1	1	11.34	11.22	11.61	11.60	11.40	12.7
Channel				637000	639334	641666	644000	646332	12.7
Frequency (MHz)				3555	3590.01	3624.99	3660	3694.98	
10	DFT-s-OFDM QPSK	1	1	11.46	11.07	11.14	11.61	11.47	12.7

n48 (PC3)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				638000	639834	641666	643500	645332	14.2
Frequency (MHz)				3570	3597.51	3624.99	3652.5	3679.98	
40	DFT-s-OFDM PI/2 BPSK	1	1	11.54	12.05	12.69	12.89	12.98	14.2
40		1	53	11.98	12.65	12.68	12.99	13.09	
40		1	104	12.36	12.66	12.94	13.03	12.95	
40		50	1	12.26	12.24	12.38	12.43	12.56	14.2
40		50	25	12.35	12.77	12.81	12.91	12.81	
40		50	50	12.29	12.34	12.39	12.56	12.77	
40		100	0	12.25	12.29	12.38	12.51	12.65	
40	DFT-s-OFDM QPSK	1	1	12.93	13.01	13.13	12.97	12.95	14.2
40		1	53	12.44	12.54	12.56	12.90	13.02	
40		1	104	12.56	12.64	12.88	12.99	12.81	
40		50	1	12.47	12.46	12.51	12.51	12.44	14.2
40		50	25	12.81	12.81	12.87	12.85	12.82	
40		50	50	12.42	12.41	12.57	12.54	12.43	
40		100	0	12.82	12.72	12.80	12.71	12.84	
40	DFT-s-OFDM 16QAM	1	1	11.27	11.47	11.55	11.31	11.46	13.2
40	DFT-s-OFDM 64QAM	1	1	9.94	9.81	10.06	9.92	10.01	11.2
40	DFT-s-OFDM 256QAM	1	1	6.78	7.24	7.93	7.71	7.81	9.2
40	CP-OFDM QPSK	1	1	10.03	10.49	11.13	10.99	11.06	12.2
40	CP-OFDM 16QAM	1	1	10.02	10.25	10.58	10.52	10.62	12.2
40	CP-OFDM 64QAM	1	1	7.53	8.02	8.65	8.54	8.55	9.2
40	CP-OFDM 256QAM	1	1	5.43	6.50	5.88	5.74	5.85	7.2
Channel				637668	639668	641666	643666	645666	14.2
Frequency (MHz)				3565.02	3595.02	3624.99	3654.99	3684.99	
30	DFT-s-OFDM QPSK	1	1	12.75	12.17	12.73	12.96	13.08	14.2
Channel				637334	639500	641666	643832	646000	14.2
Frequency (MHz)				3560.01	3592.5	3624.99	3657.48	3690	
20	DFT-s-OFDM QPSK	1	1	12.71	12.10	12.75	12.88	13.06	14.2
Channel				637168	639418	641666	643916	646166	14.2
Frequency (MHz)				3557.52	3591.27	3624.99	3658.74	3692.49	
15	DFT-s-OFDM QPSK	1	1	12.72	12.70	12.80	12.70	12.80	14.2
Channel				637000	639334	641666	644000	646332	14.2
Frequency (MHz)				3555	3590.01	3624.99	3660	3694.98	
10	DFT-s-OFDM QPSK	1	1	12.82	12.80	12.82	12.85	12.70	14.2

n66 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	17.2
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	16.29	16.39	16.35	17.2
40		1	108	16.23	16.22	16.04	
40		1	214	16.22	16.23	16.14	
40		108	1	15.75	15.75	15.65	17.2
40		108	54	16.33	16.27	16.15	
40		108	108	15.74	15.66	15.62	
40		216	0	15.73	15.78	15.68	
40	DFT-s-OFDM QPSK	1	1	16.40	16.35	16.38	17.2
40		1	108	16.20	16.16	15.94	
40		1	214	16.31	16.25	16.08	
40		108	1	15.45	15.28	15.42	17.2
40		108	54	16.33	16.31	16.32	
40		108	108	15.46	15.23	15.37	
40		216	0	16.30	16.22	16.19	
40	DFT-s-OFDM 16QAM	1	1	15.21	15.28	15.21	16.2
40	DFT-s-OFDM 64QAM	1	1	13.56	13.64	13.57	15.2
40	DFT-s-OFDM 256QAM	1	1	11.17	11.26	11.31	12.2
40	CP-OFDM QPSK	1	1	14.98	14.81	14.83	15.7
40	CP-OFDM 16QAM	1	1	14.24	14.27	14.14	15.2
40	CP-OFDM 64QAM	1	1	12.22	12.23	12.22	13.2
40	CP-OFDM 256QAM	1	1	9.34	9.31	9.22	4.2
Channel				345000	349000	353000	17.2
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	16.29	16.31	16.22	17.2
Channel				344000	349000	354000	17.2
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	16.23	16.18	16.14	17.2
Channel				343500	349000	354500	17.2
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	16.37	16.32	16.21	17.2
Channel				343000	349000	355000	17.2
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	16.32	16.36	16.15	17.2
Channel				342500	349000	355500	17.2
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	16.18	16.23	16.07	17.2

n66 (PC3)(ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	14.7
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	13.46	13.55	13.52	14.7
40		1	108	13.40	13.35	13.21	
40		1	214	13.39	13.51	13.31	
40		108	1	12.92	12.93	12.82	14.7
40		108	54	13.50	13.45	13.32	
40		108	108	12.91	12.91	12.79	
40		216	0	12.90	12.94	12.85	
40	DFT-s-OFDM QPSK	1	1	13.59	13.58	13.55	14.7
40		1	108	13.37	13.33	13.11	
40		1	214	13.48	13.46	13.25	
40		108	1	12.82	12.79	12.79	14.7
40		108	54	13.52	13.51	13.49	
40		108	108	12.83	12.77	12.74	
40		216	0	13.47	13.42	13.38	
40	DFT-s-OFDM 16QAM	1	1	12.38	12.48	12.38	13.7
40	DFT-s-OFDM 64QAM	1	1	10.73	10.86	10.74	11.7
40	DFT-s-OFDM 256QAM	1	1	8.34	8.50	8.48	9.7
40	CP-OFDM QPSK	1	1	12.15	12.07	12.00	12.7
40	CP-OFDM 16QAM	1	1	11.41	11.49	11.31	7.7
40	CP-OFDM 64QAM	1	1	9.39	9.50	9.39	6.7
40	CP-OFDM 256QAM	1	1	6.51	6.55	6.39	7.7
Channel				345000	349000	353000	14.7
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	13.46	13.48	13.39	14.7
Channel				344000	349000	354000	14.7
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	13.40	13.35	13.31	14.7
Channel				343500	349000	354500	14.7
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	13.54	13.49	13.38	14.7
Channel				343000	349000	355000	14.7
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	13.49	13.53	13.32	14.7
Channel				342500	349000	355500	14.7
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	13.35	13.40	13.24	14.7

n66 (PC3)(ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	15
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	14.06	14.12	14.12	15
40		1	108	14.00	13.99	13.81	
40		1	214	13.99	14.14	13.91	
40		108	1	13.52	13.57	13.42	15
40		108	54	14.10	14.11	13.92	
40		108	108	13.51	13.56	13.39	
40		216	0	13.50	13.58	13.45	
40	DFT-s-OFDM QPSK	1	1	14.15	14.12	14.10	15
40		1	108	13.97	13.97	13.71	
40		1	214	14.08	14.09	13.85	
40		108	1	13.22	13.15	13.19	15
40		108	54	14.12	14.11	14.09	
40		108	108	13.23	13.01	13.14	
40		216	0	14.09	14.05	14.02	
40	DFT-s-OFDM 16QAM	1	1	12.98	13.10	12.98	14
40	DFT-s-OFDM 64QAM	1	1	11.33	11.49	11.34	12
40	DFT-s-OFDM 256QAM	1	1	8.94	9.13	9.08	10
40	CP-OFDM QPSK	1	1	12.75	12.81	12.60	14
40	CP-OFDM 16QAM	1	1	12.01	12.24	11.91	13
40	CP-OFDM 64QAM	1	1	9.99	10.15	9.99	11
40	CP-OFDM 256QAM	1	1	7.21	7.28	6.99	8
Channel				345000	349000	353000	15
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	14.06	14.08	13.99	15
Channel				344000	349000	354000	15
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	14.00	13.95	13.91	15
Channel				343500	349000	354500	15
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	14.14	14.09	13.98	15
Channel				343000	349000	355000	15
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	14.09	14.13	13.92	15
Channel				342500	349000	355500	15
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	13.95	14.00	13.84	15

n71 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				134600	136100	137600	20.4
Frequency (MHz)				673	680.5	688	
20	DFT-s-OFDM PI/2 BPSK	1	1	18.82	18.73	18.87	20.4
20		1	53	18.92	18.81	18.76	
20		1	104	18.87	18.72	18.72	
20		50	1	18.48	18.60	18.61	20.4
20		50	25	19.09	19.18	19.15	
20		50	50	18.60	18.60	18.48	
20		100	0	18.64	18.71	18.67	
20	DFT-s-OFDM QPSK	1	1	18.99	19.07	19.16	20.4
20		1	53	19.18	19.22	19.20	
20		1	104	19.13	19.08	19.07	
20		50	1	18.66	18.71	18.75	20.4
20		50	25	19.17	19.19	19.12	
20		50	50	18.67	18.74	18.63	
20		100	0	19.00	19.07	18.99	
20	DFT-s-OFDM 16QAM	1	1	17.91	17.96	18.06	19.4
20	DFT-s-OFDM 64QAM	1	1	16.31	16.34	16.43	17.4
20	DFT-s-OFDM 256QAM	1	1	13.94	14.07	14.24	15.4
20	CP-OFDM QPSK	1	1	17.59	17.60	17.71	18.4
20	CP-OFDM 16QAM	1	1	17.01	17.03	17.12	17.4
20	CP-OFDM 64QAM	1	1	14.90	15.08	15.16	16.4
20	CP-OFDM 256QAM	1	1	12.05	12.08	12.20	13.4
Channel				134100	136100	138100	20.4
Frequency (MHz)				670.5	680.5	690.5	
15	DFT-s-OFDM QPSK	1	1	18.04	19.01	18.97	20.4
Channel				133600	136100	138600	20.4
Frequency (MHz)				668	680.5	693	
10	DFT-s-OFDM QPSK	1	1	18.21	18.93	18.91	20.4
Channel				133100	136100	139100	20.4
Frequency (MHz)				665.5	680.5	695.5	
5	DFT-s-OFDM QPSK	1	1	18.82	18.93	18.89	20.4

n77(3450-3550MHz) (PC2)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			14.49			15.5
100		1	136			14.55			
100		1	271			14.30			
100		135	1			14.30			15.5
100		135	67			14.56			
100		135	136			13.69			
100	DFT-s-OFDM QPSK	270	0			14.26			15.5
100		1	1			14.58			
100		1	136			14.49			
100		1	271			14.27			15.5
100		135	1			13.96			
100		135	67			14.48			
100		135	136			13.59			15.5
100		270	0			14.43			
100	DFT-s-OFDM 16QAM	1	1			14.02			14.5
100	DFT-s-OFDM 64QAM	1	1			12.58			13.5
100	DFT-s-OFDM 256QAM	1	1			10.41			11.5
100	CP-OFDM QPSK	1	1			13.77			15.5
100	CP-OFDM 16QAM	1	1			13.20			14.5
100	CP-OFDM 64QAM	1	1			11.23			12.5
100	CP-OFDM 256QAM	1	1			8.38			9.5
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	14.40	14.39	14.37	14.32	14.39	15.5
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	14.42	14.36	14.36	14.27	14.30	15.5
Channel				632334	632634	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	14.41	14.33	14.38	14.28	14.21	15.5
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	14.23	14.20	14.09	14.10	14.07	15.5
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	14.45	14.43	14.36	14.29	14.23	15.5
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	14.36	14.34	14.13	14.05	13.82	15.5
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	14.35	14.34	14.24	14.10	13.84	15.5
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	14.20	14.10	14.05	14.01	13.81	15.5
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	14.14	14.17	14.11	13.69	13.78	15.5
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	14.11	14.14	14.16	13.63	13.79	15.5

n77(3450-3550MHz) (PC2)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			9.4
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			8.36			9.4
100		1	136			8.30			
100		1	271			7.96			
100		135	1			7.99			9.4
100		135	67			8.35			
100		135	136			7.59			
100	DFT-s-OFDM QPSK	270	0			7.84			9.4
100		1	1			8.39			
100		1	136			8.26			
100		1	271			7.93			12.4
100		135	1			7.64			
100		135	67			8.30			
100		135	136			7.69			5.4
100		270	0			8.21			
100	DFT-s-OFDM 16QAM	1	1			7.16			8.4
100	DFT-s-OFDM 64QAM	1	1			6.29			7.4
100	DFT-s-OFDM 256QAM	1	1			4.29			5.4
100	CP-OFDM QPSK	1	1			7.32			8.4
100	CP-OFDM 16QAM	1	1			6.68			7.4
100	CP-OFDM 64QAM	1	1			4.71			5.4
100	CP-OFDM 256QAM	1	1			1.95			2.4
Channel				633000	633168	633334	633500	633666	9.4
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	8.31	8.30	8.28	8.23	8.30	9.4
Channel				632668	633000	633334	633666	634000	9.4
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	8.33	8.27	8.27	8.18	8.21	9.4
Channel				632334	632834	633334	633832	634332	9.4
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	8.32	8.24	8.29	8.19	8.12	9.4
Channel				632000	632668	633334	634000	634666	9.4
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	8.14	8.11	8.00	8.01	7.98	9.4
Channel				631668	632500	633334	634166	635000	9.4
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	8.36	8.34	8.27	8.20	8.14	9.4
Channel				631334	632334	633334	634332	635332	9.4
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	8.27	8.25	8.04	7.96	7.93	9.4
Channel				631000	632168	633334	634500	635666	9.4
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	8.26	8.25	8.15	8.01	7.95	9.4
Channel				630668	632000	633334	634666	636000	9.4
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	8.11	8.01	7.96	7.92	7.92	9.4
Channel				630500	631916	633334	634750	636166	9.4
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	8.05	8.08	8.02	7.90	7.99	9.4
Channel				630334	631834	633334	634834	636332	9.4
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	8.32	8.35	8.37	7.84	8.00	9.4

n77(3450-3550MHz) (PC2)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			11.36			12.5
100		1	136			10.75			
100		1	271			10.85			
100		135	1			10.80			12.5
100		135	67			11.05			
100		135	136			10.76			
100		270	0			11.02			
100	DFT-s-OFDM QPSK	1	1			11.41			12.5
100		1	136			10.60			
100		1	271			10.80			
100		135	1			10.80			12.5
100		135	67			11.36			
100		135	136			10.58			
100		270	0			11.12			
100	DFT-s-OFDM 16QAM	1	1			10.21			11.5
100	DFT-s-OFDM 64QAM	1	1			8.77			9.5
100	DFT-s-OFDM 256QAM	1	1			6.55			7.5
100	CP-OFDM QPSK	1	1			9.94			11.5
100	CP-OFDM 16QAM	1	1			9.42			10.5
100	CP-OFDM 64QAM	1	1			7.38			9.5
100	CP-OFDM 256QAM	1	1			4.58			5.5
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	11.21	11.20	11.28	11.13	11.20	12.5
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	11.23	11.17	11.17	11.08	11.11	12.5
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	11.22	11.14	11.19	11.09	11.02	12.5
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	11.04	11.01	10.90	10.91	10.88	12.5
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	11.26	11.24	11.17	11.10	11.04	12.5
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	11.17	11.15	10.94	10.86	10.83	12.5
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	11.16	11.15	11.05	10.91	10.85	12.5
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	11.01	10.91	10.86	10.82	10.82	12.5
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	10.95	10.98	10.92	10.70	10.79	12.5
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	10.92	10.95	10.97	10.64	10.60	12.5

n77(3450-3550MHz) (PC2)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			14.30			15.3
100		1	136			14.07			
100		1	271			13.87			
100		135	1			13.61			15.3
100		135	67			14.07			
100		135	136			13.59			
100		270	0			13.58			
100	DFT-s-OFDM QPSK	1	1			14.31			15.3
100		1	136			14.01			
100		1	271			13.87			
100		135	1			13.49			15.3
100		135	67			14.27			
100		135	136			13.65			
100		270	0			14.19			
100	DFT-s-OFDM 16QAM	1	1			13.19			14.3
100	DFT-s-OFDM 64QAM	1	1			11.77			13.3
100	DFT-s-OFDM 256QAM	1	1			9.55			10.3
100	CP-OFDM QPSK	1	1			12.94			18.5
100	CP-OFDM 16QAM	1	1			12.26			17.5
100	CP-OFDM 64QAM	1	1			10.32			16.5
100	CP-OFDM 256QAM	1	1			7.54			12.5
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	14.14	14.13	14.11	14.06	14.13	15.3
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	14.16	14.10	14.10	14.01	14.04	15.3
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	14.15	14.07	14.12	14.02	13.95	15.3
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	13.97	13.94	13.83	13.84	13.81	15.3
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	14.19	14.17	14.25	14.03	13.97	15.3
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	14.10	14.08	13.87	13.79	13.56	15.3
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	14.09	14.08	13.98	13.84	13.58	15.3
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	13.94	13.84	13.79	13.75	13.55	15.3
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	13.88	13.91	13.85	13.58	13.52	15.3
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	13.85	13.88	13.90	13.52	13.53	15.3

n77(3450-3550MHz) (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			14.5
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			13.22			14.5
100		1	136			13.21			
100		1	271			13.27			
100		135	1			13.27			14.5
100		135	67			13.19			
100		135	136			13.29			
100	DFT-s-OFDM QPSK	270	0			13.30			14.5
100		1	1			13.32			
100		1	136			13.21			
100		1	271			13.26			14.5
100		135	1			13.15			
100		135	67			13.26			
100	DFT-s-OFDM 16QAM	135	136			13.14			14.5
100		270	0			13.24			
100		1	1			13.13			
100		1	1			11.38			
100	DFT-s-OFDM 64QAM	1	1			9.56			10.5
100	DFT-s-OFDM 256QAM	1	1			12.80			14.5
100	CP-OFDM QPSK	1	1			12.26			13.5
100	CP-OFDM 16QAM	1	1			10.54			11.5
100	CP-OFDM 64QAM	1	1			7.66			9.5
Channel				633000	633168	633334	633500	633666	14.5
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	13.10	13.14	13.16	13.11	13.24	14.5
Channel				632668	633000	633334	633666	634000	14.5
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	13.30	13.23	13.26	13.28	13.17	14.5
Channel				632334	632834	633334	633832	634332	14.5
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	13.22	13.19	13.25	13.26	13.24	14.5
Channel				632000	632668	633334	634000	634666	14.5
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	13.15	13.21	13.21	13.21	13.26	14.5
Channel				631668	632500	633334	634166	635000	14.5
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	13.29	13.29	13.21	13.28	13.21	14.5
Channel				631334	632334	633334	634332	635332	14.5
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	13.22	13.23	13.26	13.22	13.26	14.5
Channel				631000	632168	633334	634500	635666	14.5
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	13.23	13.19	13.25	13.22	13.26	14.5
Channel				630668	632000	633334	634666	636000	14.5
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	13.10	13.19	13.23	13.24	13.28	14.5
Channel				630500	631916	633334	634750	636166	14.5
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	13.08	13.19	13.25	13.28	13.27	14.5
Channel				630334	631834	633334	634834	636332	14.5
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	13.06	13.16	13.17	13.26	13.24	14.5

n77(3450-3550MHz) (PC3)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			8.4
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			7.32			8.4
100		1	136			7.31			
100		1	271			7.37			
100		135	1			7.37			8.4
100		135	67			7.29			
100		135	136			7.39			
100	DFT-s-OFDM QPSK	270	0			7.40			8.4
100		1	1			7.42			
100		1	136			7.31			
100		1	271			7.36			8.4
100		135	1			7.25			
100		135	67			7.36			
100	DFT-s-OFDM 16QAM	135	136			7.24			8.4
100		270	0			7.34			
100		1	1			7.23			
100	DFT-s-OFDM 64QAM	1	1			5.48			6.4
100	DFT-s-OFDM 256QAM	1	1			3.66			4.4
100	CP-OFDM QPSK	1	1			6.90			8.4
100	CP-OFDM 16QAM	1	1			6.36			7.4
100	CP-OFDM 64QAM	1	1			4.64			5.4
100	CP-OFDM 256QAM	1	1			1.76			2.4
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	8.4
90	DFT-s-OFDM QPSK	1	1	7.20	7.24	7.26	7.21	7.34	8.4
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	8.4
80	DFT-s-OFDM QPSK	1	1	7.40	7.33	7.36	7.38	7.27	8.4
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	8.4
70	DFT-s-OFDM QPSK	1	1	7.32	7.29	7.35	7.36	7.34	8.4
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	8.4
60	DFT-s-OFDM QPSK	1	1	7.25	7.31	7.31	7.31	7.36	8.4
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	8.4
50	DFT-s-OFDM QPSK	1	1	7.39	7.39	7.31	7.38	7.31	8.4
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	8.4
40	DFT-s-OFDM QPSK	1	1	7.32	7.33	7.36	7.32	7.36	8.4
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	8.4
30	DFT-s-OFDM QPSK	1	1	7.33	7.29	7.35	7.32	7.36	8.4
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	8.4
20	DFT-s-OFDM QPSK	1	1	7.20	7.29	7.33	7.34	7.38	8.4
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	8.4
15	DFT-s-OFDM QPSK	1	1	7.18	7.29	7.35	7.38	7.37	8.4
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	8.4
10	DFT-s-OFDM QPSK	1	1	7.16	7.26	7.27	7.36	7.34	8.4

n77(3450-3550MHz) (PC3)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			11.5
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			10.47			11.5
100		1	136			10.46			
100		1	271			10.52			
100		135	1			10.52			11.5
100		135	67			10.44			
100		135	136			10.54			
100	DFT-s-OFDM QPSK	270	0			10.55			11.5
100		1	1			10.57			
100		1	136			10.46			
100		1	271			10.51			11.5
100		135	1			10.40			
100		135	67			10.51			
100		135	136			10.39			11.5
100		270	0			10.49			
100	DFT-s-OFDM 16QAM	1	1			10.38			11.5
100	DFT-s-OFDM 64QAM	1	1			8.63			9.5
100	DFT-s-OFDM 256QAM	1	1			6.81			7.5
100	CP-OFDM QPSK	1	1			10.05			11.5
100	CP-OFDM 16QAM	1	1			9.51			10.5
100	CP-OFDM 64QAM	1	1			7.79			8.5
100	CP-OFDM 256QAM	1	1			4.91			5.5
Channel				633000	633168	633334	633500	633666	11.5
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	10.35	10.39	10.41	10.36	10.49	11.5
Channel				632668	633000	633334	633666	634000	11.5
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	10.55	10.48	10.51	10.53	10.42	11.5
Channel				632334	632834	633334	633832	634332	11.5
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	10.47	10.44	10.50	10.51	10.49	11.5
Channel				632000	632668	633334	634000	634666	11.5
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	10.40	10.46	10.46	10.46	10.51	11.5
Channel				631668	632500	633334	634166	635000	11.5
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	10.54	10.54	10.46	10.53	10.46	11.5
Channel				631334	632334	633334	634332	635332	11.5
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	10.47	10.48	10.51	10.47	10.51	11.5
Channel				631000	632168	633334	634500	635666	11.5
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	10.48	10.44	10.50	10.47	10.51	11.5
Channel				630668	632000	633334	634666	636000	11.5
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	10.35	10.44	10.48	10.49	10.53	11.5
Channel				630500	631916	633334	634750	636166	11.5
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	10.33	10.44	10.50	10.53	10.52	11.5
Channel				630334	631834	633334	634834	636332	11.5
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	10.31	10.41	10.42	10.51	10.49	11.5

n77(3450-3550MHz) (PC3)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			14.3
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			13.01			14.3
100		1	136			13.00			
100		1	271			13.06			
100		135	1			13.06			14.3
100		135	67			12.98			
100		135	136			13.08			
100	DFT-s-OFDM QPSK	270	0			13.09			14.3
100		1	1			13.11			
100		1	136			13.00			
100		1	271			13.05			14.3
100		135	1			12.94			
100		135	67			13.05			
100	DFT-s-OFDM 16QAM	135	136			12.93			14.3
100		270	0			13.03			
100		1	1			12.92			
100	DFT-s-OFDM 64QAM	1	1			11.17			12.3
100	DFT-s-OFDM 256QAM	1	1			9.35			10.3
100	CP-OFDM QPSK	1	1			12.59			14.3
100	CP-OFDM 16QAM	1	1			12.05			13.3
100	CP-OFDM 64QAM	1	1			10.33			11.3
100	CP-OFDM 256QAM	1	1			7.45			9.3
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	12.89	12.93	12.95	12.90	13.03	14.3
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	13.09	13.02	13.05	13.07	12.96	14.3
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	13.01	12.98	13.04	13.05	13.03	14.3
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	12.94	13.00	13.00	13.00	13.05	14.3
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	13.08	13.08	13.00	13.07	13.00	14.3
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	13.01	13.02	13.05	13.01	13.05	14.3
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	13.02	12.98	13.04	13.01	13.05	14.3
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	12.89	12.98	13.02	13.03	13.07	14.3
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	12.87	12.98	13.04	13.07	13.06	14.3
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	12.85	12.95	12.96	13.05	13.03	14.3

n77(3700-3980MHz) (PC2)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	15.5
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	14.25	14.63	14.66	14.67	14.31	15.5
100		1	136	14.41	14.57	14.68	14.68	13.93	
100		1	271	14.44	14.63	14.60	14.46	14.55	
100		135	1	14.13	13.96	14.02	13.92	13.53	15.5
100		135	67	14.41	14.53	14.67	14.67	13.98	
100		135	136	13.79	14.03	13.95	13.94	13.73	
100		270	0	13.95	14.04	14.32	14.24	13.62	
100	DFT-s-OFDM QPSK	1	1	14.55	14.64	14.72	14.67	14.54	15.5
100		1	136	14.42	14.51	14.64	14.60	14.57	
100		1	271	14.44	14.65	14.65	14.33	14.56	
100		135	1	13.56	13.57	13.62	13.51	13.59	15.5
100		135	67	14.51	14.57	14.66	14.60	14.59	
100		135	136	13.65	13.76	13.63	13.61	13.54	
100		270	0	14.36	14.48	14.64	14.63	14.60	
100	DFT-s-OFDM 16QAM	1	1	13.26	13.43	13.47	13.59	13.30	14.5
100	DFT-s-OFDM 64QAM	1	1	11.77	12.15	12.16	12.26	12.01	13.5
100	DFT-s-OFDM 256QAM	1	1	9.66	9.87	10.03	10.01	9.82	11.5
100	CP-OFDM QPSK	1	1	13.02	13.20	13.21	13.33	12.94	15.5
100	CP-OFDM 16QAM	1	1	12.21	12.69	12.73	12.85	12.47	13.5
100	CP-OFDM 64QAM	1	1	10.25	10.72	10.75	10.92	10.47	11.5
100	CP-OFDM 256QAM	1	1	7.60	7.94	7.94	8.09	7.84	9.5
Channel				633000	633168	633334	633500	633666	15.5
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	14.55	14.54	14.52	14.47	14.54	15.5
Channel				632668	633000	633334	633666	634000	15.5
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	14.57	14.51	14.51	14.42	14.45	15.5
Channel				632334	632834	633334	633832	634332	15.5
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	14.56	14.48	14.53	14.43	14.36	15.5
Channel				632000	632668	633334	634000	634666	15.5
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	14.38	14.35	14.24	14.25	14.22	15.5
Channel				631668	632500	633334	634166	635000	15.5
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	14.60	14.58	14.66	14.44	14.38	15.5
Channel				631334	632334	633334	634332	635332	15.5
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	14.51	14.49	14.28	14.20	13.97	15.5
Channel				631000	632168	633334	634500	635666	15.5
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	14.50	14.49	14.39	14.25	13.99	15.5
Channel				630668	632000	633334	634666	636000	15.5
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	14.35	14.25	14.20	14.16	13.96	15.5
Channel				630500	631916	633334	634750	636166	15.5
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	14.29	14.32	14.26	13.99	13.93	15.5
Channel				630334	631834	633334	634834	636332	15.5
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	14.26	14.29	14.31	13.93	13.94	15.5

n77(3700-3980MHz) (PC2)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	9.4
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	7.85	8.03	8.09	8.19	7.91	9.4
100		1	136	8.01	7.99	8.13	7.84	7.53	
100		1	271	8.04	8.17	7.93	7.66	8.15	
100		135	1	7.73	7.48	7.56	7.45	7.43	9.4
100		135	67	8.01	7.97	8.12	7.86	7.58	
100		135	136	7.59	7.63	7.50	7.47	7.53	
100	DFT-s-OFDM QPSK	270	0	7.55	7.49	7.65	7.44	7.42	9.4
100		1	1	8.05	8.08	8.26	8.20	8.14	
100		1	136	8.02	8.04	8.07	7.88	7.67	
100		1	271	8.04	8.16	7.90	7.76	8.16	9.4
100		135	1	7.46	7.55	7.65	7.45	7.59	
100		135	67	8.11	8.06	8.13	8.07	8.09	
100	DFT-s-OFDM 16QAM	1	1	6.86	6.93	7.03	7.19	6.90	8.4
100		1	1	5.37	5.59	5.67	5.80	5.61	6.4
100	DFT-s-OFDM 64QAM	1	1	3.16	3.36	3.45	3.57	3.32	4.4
100	CP-OFDM QPSK	1	1	6.72	6.78	6.82	6.88	6.64	7.4
100	CP-OFDM 16QAM	1	1	5.91	6.21	6.27	6.41	6.17	7.4
100	CP-OFDM 64QAM	1	1	3.95	4.20	4.27	4.42	4.17	5.4
100	CP-OFDM 256QAM	1	1	1.20	1.41	1.51	1.62	1.54	2.4
Channel				649666	652834	656000	659166	662332	9.4
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	7.89	7.97	8.05	8.17	7.87	9.4
Channel				649334	652668	656000	659332	662666	9.4
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	7.96	7.98	8.15	8.02	7.78	9.4
Channel				649000	652500	656000	659500	663000	9.4
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	7.92	7.96	8.13	7.95	7.70	9.4
Channel				648668	652334	656000	659666	663332	9.4
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	7.76	7.90	7.92	7.70	7.44	9.4
Channel				648334	652168	656000	659832	663666	9.4
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	8.00	8.03	8.13	8.06	7.35	9.4
Channel				648000	652000	656000	660000	664000	9.4
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	7.88	7.84	7.93	7.88	7.46	9.4
Channel				647668	651834	656000	660166	664332	9.4
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	7.94	7.93	8.08	7.90	7.61	9.4
Channel				647334	651668	656000	660332	664666	9.4
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	7.82	7.80	7.93	7.61	7.76	9.4
Channel				647168	651584	656000	660416	664832	9.4
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	7.86	7.85	8.01	7.61	7.82	9.4
Channel				647000	651500	656000	660500	665000	9.4
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	7.88	7.87	8.03	7.66	8.03	9.4

n77(3700-3980MHz) (PC2)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	12.5
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	11.05	11.08	11.24	11.38	11.11	12.5
100		1	136	11.21	11.16	11.29	11.22	10.73	
100		1	271	11.24	11.31	11.32	11.01	11.35	
100		135	1	10.93	10.65	10.70	10.63	10.53	12.5
100		135	67	11.21	11.14	11.26	11.25	10.98	
100		135	136	10.59	10.68	10.51	10.51	10.73	
100		270	0	10.75	10.61	10.87	10.70	10.62	
100	DFT-s-OFDM QPSK	1	1	11.26	11.25	11.39	11.38	11.24	12.5
100		1	136	11.22	11.10	11.23	11.17	10.87	
100		1	271	11.24	11.37	11.28	11.01	11.36	
100		135	1	10.87	10.74	10.82	10.69	10.80	12.5
100		135	67	11.22	11.19	11.29	11.25	11.20	
100		135	136	10.76	10.84	10.69	10.71	10.65	
100		270	0	11.09	10.99	11.21	11.16	11.01	
100	DFT-s-OFDM 16QAM	1	1	9.96	9.97	10.06	10.19	10.00	11.5
100	DFT-s-OFDM 64QAM	1	1	8.47	8.59	8.75	8.80	8.71	9.5
100	DFT-s-OFDM 256QAM	1	1	6.26	6.44	6.48	6.65	6.42	7.5
100	CP-OFDM QPSK	1	1	9.82	9.70	9.79	9.92	9.74	10.5
100	CP-OFDM 16QAM	1	1	9.01	9.11	9.32	9.44	9.27	10.5
100	CP-OFDM 64QAM	1	1	7.05	7.17	7.32	7.47	7.27	8.5
100	CP-OFDM 256QAM	1	1	4.30	4.44	4.52	4.60	4.64	5.5
Channel				633000	633168	633334	633500	633666	12.5
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	11.16	11.15	11.23	11.08	11.15	12.5
Channel				632668	633000	633334	633666	634000	12.5
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	11.18	11.12	11.12	11.03	11.06	12.5
Channel				632334	632834	633334	633832	634332	12.5
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	11.17	11.09	11.14	11.04	10.97	12.5
Channel				632000	632668	633334	634000	634666	12.5
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	10.99	10.96	10.85	10.86	10.83	12.5
Channel				631668	632500	633334	634166	635000	12.5
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	11.21	11.19	11.12	11.05	10.99	12.5
Channel				631334	632334	633334	634332	635332	12.5
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	11.12	11.10	10.89	10.81	10.78	12.5
Channel				631000	632168	633334	634500	635666	12.5
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	11.11	11.10	11.00	10.86	10.80	12.5
Channel				630668	632000	633334	634666	636000	12.5
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	10.96	10.86	10.81	10.77	10.77	12.5
Channel				630500	631916	633334	634750	636166	12.5
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	10.90	10.93	10.87	10.65	10.74	12.5
Channel				630334	631834	633334	634834	636332	12.5
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	10.87	10.90	10.92	10.59	10.55	12.5

n77(3700-3980MHz) (PC2)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	15.3
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	13.85	14.09	14.17	14.22	13.91	15.3
100		1	136	14.01	14.06	14.14	14.14	13.63	
100		1	271	14.04	14.22	14.21	13.94	14.15	
100		135	1	13.73	13.63	13.70	13.57	13.53	
100		135	67	14.01	14.22	14.24	14.25	13.98	15.3
100		135	136	13.39	13.76	13.62	13.62	13.53	
100		270	0	13.55	13.76	14.00	13.93	13.42	
100	DFT-s-OFDM QPSK	1	1	14.25	14.28	14.33	14.25	14.24	15.3
100		1	136	14.02	14.17	14.31	14.26	14.17	
100		1	271	14.04	14.23	14.23	14.18	14.16	
100		135	1	13.36	13.35	13.38	13.31	13.39	
100		135	67	14.11	14.14	14.26	14.25	14.19	15.3
100		135	136	13.45	13.42	13.49	13.31	13.34	
100		270	0	14.10	14.14	14.16	14.11	14.07	
100	DFT-s-OFDM 16QAM	1	1	13.06	13.10	13.12	13.28	13.10	14.3
100	DFT-s-OFDM 64QAM	1	1	11.57	11.81	11.80	11.93	11.81	13.3
100	DFT-s-OFDM 256QAM	1	1	9.46	9.65	9.66	9.74	9.62	10.3
100	CP-OFDM QPSK	1	1	12.82	12.87	12.93	12.99	12.74	14.3
100	CP-OFDM 16QAM	1	1	12.01	12.35	12.29	12.53	12.27	13.3
100	CP-OFDM 64QAM	1	1	10.05	10.33	10.36	10.58	10.27	12.3
100	CP-OFDM 256QAM	1	1	7.40	7.61	7.63	7.73	7.64	8.3
Channel				633000	633168	633334	633500	633666	15.3
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	14.45	14.44	14.42	14.37	14.44	15.3
Channel				632668	633000	633334	633666	634000	15.3
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	14.47	14.41	14.41	14.32	14.35	15.3
Channel				632334	632834	633334	633832	634332	15.3
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	14.46	14.38	14.43	14.33	14.26	15.3
Channel				632000	632668	633334	634000	634666	15.3
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	14.28	14.25	14.14	14.15	14.12	15.3
Channel				631668	632500	633334	634166	635000	15.3
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	14.50	14.48	14.56	14.34	14.28	15.3
Channel				631334	632334	633334	634332	635332	15.3
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	14.41	14.39	14.18	14.10	13.87	15.3
Channel				631000	632168	633334	634500	635666	15.3
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	14.40	14.39	14.29	14.15	13.89	15.3
Channel				630668	632000	633334	634666	636000	15.3
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	14.25	14.15	14.10	14.06	13.86	15.3
Channel				630500	631916	633334	634750	636166	15.3
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	14.19	14.22	14.16	13.89	13.83	15.3
Channel				630334	631834	633334	634834	636332	15.3
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	14.16	14.19	14.21	13.83	13.84	15.3

n77(3700-3980MHz) (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	14.5
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	13.17	13.16	13.25	13.14	13.30	14.5
100		1	136	13.12	13.13	13.15	13.13	13.20	
100		1	271	13.11	13.30	13.21	13.16	13.20	
100		135	1	13.06	13.06	13.11	13.12	13.22	14.5
100		135	67	13.06	13.14	13.10	13.00	13.20	
100		135	136	13.11	13.24	13.15	13.21	13.16	
100	DFT-s-OFDM QPSK	270	0	13.09	13.24	13.20	13.23	13.24	14.5
100		1	1	13.16	13.22	13.34	13.19	13.29	
100		1	136	13.04	13.05	13.03	13.06	13.13	
100		1	271	13.26	13.20	13.30	13.22	13.23	14.5
100		135	1	13.05	13.02	13.08	13.13	13.19	
100		135	67	13.20	13.23	13.26	13.21	13.11	
100	DFT-s-OFDM 16QAM	1	1	12.93	13.03	13.09	13.03	13.14	14.5
100		1	1	11.27	11.40	11.49	11.40	11.52	12.5
100	DFT-s-OFDM 256QAM	1	1	9.34	9.56	9.61	9.53	9.66	10.5
100	CP-OFDM QPSK	1	1	12.71	12.60	11.91	12.76	11.94	14.5
100	CP-OFDM 16QAM	1	1	12.01	12.13	12.24	12.18	12.30	13.5
100	CP-OFDM 64QAM	1	1	10.47	10.61	10.66	10.66	10.77	11.5
100	CP-OFDM 256QAM	1	1	7.42	7.63	7.69	7.66	7.76	9.5
Channel				649666	652834	656000	659166	662332	14.5
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	13.11	13.20	13.06	12.98	13.25	14.5
Channel				649334	652668	656000	659332	662666	14.5
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	13.03	13.04	13.03	13.07	13.20	14.5
Channel				649000	652500	656000	659500	663000	14.5
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	12.93	13.02	13.05	13.12	13.13	14.5
Channel				648668	652334	656000	659666	663332	14.5
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	12.86	12.82	12.90	13.01	13.06	14.5
Channel				648334	652168	656000	659832	663666	14.5
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	12.96	13.09	13.11	13.16	13.13	14.5
Channel				648000	652000	656000	660000	664000	14.5
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	12.97	12.97	12.95	13.03	12.93	14.5
Channel				647668	651834	656000	660166	664332	14.5
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	13.07	13.08	13.06	13.20	13.02	14.5
Channel				647334	651668	656000	660332	664666	14.5
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	12.98	12.89	12.82	12.91	12.87	14.5
Channel				647168	651584	656000	660416	664832	14.5
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	12.92	13.03	12.91	12.93	12.92	14.5
Channel				647000	651500	656000	660500	665000	14.5
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	12.88	13.00	12.88	13.03	12.85	14.5

n77(3700-3980MHz) (PC3)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	8.4
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	7.27	7.26	7.35	7.24	7.40	8.4
100		1	136	7.22	7.23	7.25	7.23	7.30	
100		1	271	7.21	7.40	7.31	7.26	7.30	
100		135	1	7.16	7.16	7.21	7.22	7.32	8.4
100		135	67	7.16	7.24	7.20	7.10	7.30	
100		135	136	7.21	7.34	7.25	7.31	7.26	
100	DFT-s-OFDM QPSK	270	0	7.19	7.34	7.30	7.33	7.34	8.4
100		1	1	7.26	7.32	7.44	7.29	7.39	
100		1	136	7.14	7.15	7.13	7.16	7.23	
100		1	271	7.36	7.30	7.40	7.32	7.33	8.4
100		135	1	7.15	7.12	7.18	7.23	7.29	
100		135	67	7.30	7.33	7.36	7.31	7.21	
100	DFT-s-OFDM 16QAM	1	1	7.03	7.13	7.19	7.13	7.24	8.4
100		1	1	5.37	5.50	5.59	5.50	5.62	6.4
100	DFT-s-OFDM 256QAM	1	1	3.44	3.66	3.71	3.63	3.76	4.4
100	CP-OFDM QPSK	1	1	6.81	6.70	6.01	6.86	6.04	8.4
100	CP-OFDM 16QAM	1	1	6.11	6.23	6.34	6.28	6.40	7.4
100	CP-OFDM 64QAM	1	1	4.57	4.71	4.76	4.76	4.87	5.4
100	CP-OFDM 256QAM	1	1	1.52	1.73	1.79	1.76	1.86	2.4
Channel				649666	652834	656000	659166	662332	8.4
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	7.21	7.30	7.16	7.08	7.35	8.4
Channel				649334	652668	656000	659332	662666	8.4
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	7.13	7.14	7.13	7.17	7.30	8.4
Channel				649000	652500	656000	659500	663000	8.4
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	7.03	7.12	7.15	7.22	7.23	8.4
Channel				648668	652334	656000	659666	663332	8.4
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	6.96	6.92	7.00	7.11	7.16	8.4
Channel				648334	652168	656000	659832	663666	8.4
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	7.06	7.19	7.21	7.26	7.23	8.4
Channel				648000	652000	656000	660000	664000	8.4
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	7.07	7.07	7.05	7.13	7.03	8.4
Channel				647668	651834	656000	660166	664332	8.4
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	7.17	7.18	7.16	7.30	7.12	8.4
Channel				647334	651668	656000	660332	664666	8.4
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	7.08	6.99	6.92	7.01	6.97	8.4
Channel				647168	651584	656000	660416	664832	8.4
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	7.02	7.13	7.01	7.03	7.02	8.4
Channel				647000	651500	656000	660500	665000	8.4
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	6.98	7.10	6.98	7.13	6.95	8.4

n77(3700-3980MHz) (PC3)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	11.5
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	10.37	10.36	10.45	10.34	10.50	11.5
100		1	136	10.32	10.33	10.35	10.33	10.40	
100		1	271	10.31	10.50	10.41	10.36	10.40	
100		135	1	10.26	10.26	10.31	10.32	10.42	11.5
100		135	67	10.26	10.34	10.30	10.20	10.40	
100		135	136	10.31	10.44	10.35	10.41	10.36	
100	DFT-s-OFDM QPSK	270	0	10.29	10.44	10.40	10.43	10.44	11.5
100		1	1	10.36	10.42	10.54	10.39	10.49	
100		1	136	10.24	10.25	10.23	10.26	10.33	
100		1	271	10.46	10.40	10.50	10.42	10.43	11.5
100		135	1	10.25	10.22	10.28	10.33	10.39	
100		135	67	10.40	10.43	10.46	10.41	10.31	
100	DFT-s-OFDM 16QAM	1	1	10.13	10.23	10.29	10.23	10.34	11.5
100		1	1	8.47	8.60	8.69	8.60	8.72	9.5
100	DFT-s-OFDM 256QAM	1	1	6.54	6.76	6.81	6.73	6.86	7.5
100	CP-OFDM QPSK	1	1	9.91	9.80	9.11	9.96	9.14	11.5
100	CP-OFDM 16QAM	1	1	9.21	9.33	9.44	9.38	9.50	10.5
100	CP-OFDM 64QAM	1	1	7.67	7.81	7.86	7.86	7.97	8.5
100	CP-OFDM 256QAM	1	1	4.62	4.83	4.89	4.86	4.96	5.5
Channel				649666	652834	656000	659166	662332	11.5
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	10.31	10.40	10.26	10.18	10.45	11.5
Channel				649334	652668	656000	659332	662666	11.5
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	10.23	10.24	10.23	10.27	10.40	11.5
Channel				649000	652500	656000	659500	663000	11.5
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	10.13	10.22	10.25	10.32	10.33	11.5
Channel				648668	652334	656000	659666	663332	11.5
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	10.06	10.02	10.10	10.21	10.26	11.5
Channel				648334	652168	656000	659832	663666	11.5
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	10.16	10.29	10.31	10.36	10.33	11.5
Channel				648000	652000	656000	660000	664000	11.5
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	10.17	10.17	10.15	10.23	10.13	11.5
Channel				647668	651834	656000	660166	664332	11.5
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	10.27	10.28	10.26	10.40	10.22	11.5
Channel				647334	651668	656000	660332	664666	11.5
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	10.18	10.09	10.02	10.11	10.07	11.5
Channel				647168	651584	656000	660416	664832	11.5
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	10.12	10.23	10.11	10.13	10.12	11.5
Channel				647000	651500	656000	660500	665000	11.5
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	10.08	10.20	10.08	10.23	10.05	11.5

n77(3700-3980MHz) (PC3)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	14.3
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	12.98	12.97	13.06	12.95	13.11	14.3
100		1	136	12.93	12.94	12.96	12.94	13.01	
100		1	271	12.92	13.11	13.02	12.97	13.01	
100		135	1	12.87	12.87	12.92	12.93	13.03	14.3
100		135	67	12.87	12.95	12.91	12.81	13.01	
100		135	136	12.92	13.05	12.96	13.02	12.97	
100	DFT-s-OFDM QPSK	270	0	12.90	13.05	13.01	13.04	13.05	14.3
100		1	1	12.97	13.03	13.15	13.00	13.10	
100		1	136	12.85	12.86	12.84	12.87	12.94	
100		1	271	13.07	13.01	13.11	13.03	13.04	14.3
100		135	1	12.86	12.83	12.89	12.94	13.00	
100		135	67	13.01	13.04	13.07	13.02	12.92	
100	DFT-s-OFDM 16QAM	135	136	12.87	12.85	12.85	12.87	12.94	14.3
100		270	0	12.96	13.00	12.97	13.02	13.07	
100	DFT-s-OFDM 64QAM	1	1	12.74	12.84	12.90	12.84	12.95	14.3
100	DFT-s-OFDM 256QAM	1	1	11.08	11.21	11.30	11.21	11.33	12.3
100	CP-OFDM QPSK	1	1	9.15	9.37	9.42	9.34	9.47	10.3
100	CP-OFDM 16QAM	1	1	12.52	12.41	11.72	12.57	11.75	14.3
100	CP-OFDM 64QAM	1	1	11.82	11.94	12.05	11.99	12.11	13.3
100	CP-OFDM 256QAM	1	1	10.28	10.42	10.47	10.47	10.58	11.3
100	CP-OFDM 1024QAM	1	1	7.23	7.44	7.50	7.47	7.57	9.3
Channel				649666	652834	656000	659166	662332	14.3
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	12.92	13.01	12.87	12.79	13.06	14.3
Channel				649334	652668	656000	659332	662666	14.3
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	12.84	12.85	12.84	12.88	13.01	14.3
Channel				649000	652500	656000	659500	663000	14.3
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	12.74	12.83	12.86	12.93	12.94	14.3
Channel				648668	652334	656000	659666	663332	14.3
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	12.67	12.63	12.71	12.82	12.87	14.3
Channel				648334	652168	656000	659832	663666	14.3
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	12.77	12.90	12.92	12.97	12.94	14.3
Channel				648000	652000	656000	660000	664000	14.3
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	12.78	12.78	12.76	12.84	12.74	14.3
Channel				647668	651834	656000	660166	664332	14.3
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	12.88	12.89	12.87	13.01	12.83	14.3
Channel				647334	651668	656000	660332	664666	14.3
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	12.79	12.70	12.63	12.72	12.68	14.3
Channel				647168	651584	656000	660416	664832	14.3
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	12.73	12.84	12.72	12.74	12.73	14.3
Channel				647000	651500	656000	660500	665000	14.3
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	12.69	12.81	12.69	12.84	12.66	14.3

n78(3450-3550MHz) (PC2)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			13.68			14.7
100		1	136			13.62			
100		1	271			13.59			
100		135	1			13.57			14.7
100		135	67			13.54			
100		135	136			13.01			
100		270	0			13.58			
100	DFT-s-OFDM QPSK	1	1			13.70			14.7
100		1	136			13.68			
100		1	271			13.48			
100		135	1			13.26			14.7
100		135	67			13.67			
100		135	136			12.73			
100		270	0			13.56			
100	DFT-s-OFDM 16QAM	1	1			13.19			13.7
100	DFT-s-OFDM 64QAM	1	1			11.99			12.7
100	DFT-s-OFDM 256QAM	1	1			9.71			10.7
100	CP-OFDM QPSK	1	1			13.11			14.7
100	CP-OFDM 16QAM	1	1			12.51			13.7
100	CP-OFDM 64QAM	1	1			10.57			12.7
100	CP-OFDM 256QAM	1	1			7.88			8.7
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	13.59	13.56	13.53	13.55	13.58	14.7
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	13.60	13.49	13.57	13.61	13.47	14.7
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	13.56	13.54	13.55	13.44	13.46	14.7
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	13.45	13.39	13.38	13.25	13.22	14.7
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	13.52	13.42	13.38	13.53	13.40	14.7
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	13.49	12.45	13.22	13.26	13.00	14.7
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	13.55	13.46	13.39	13.31	13.23	14.7
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	13.46	13.33	13.34	13.33	13.25	14.7
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	13.48	13.44	13.31	13.31	13.19	14.7
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	13.50	13.49	13.37	13.16	13.40	14.7

n78(3450-3550MHz) (PC2)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			9.3
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			8.30			9.3
100		1	136			8.28			
100		1	271			7.91			
100		135	1			7.92			9.3
100		135	67			8.28			
100		135	136			7.31			
100	DFT-s-OFDM QPSK	270	0			7.81			9.3
100		1	1			8.35			
100		1	136			8.20			
100		1	271			7.89			9.3
100		135	1			7.41			
100		135	67			8.22			
100		135	136			7.32			9.3
100		270	0			7.30			
100	DFT-s-OFDM 16QAM	1	1			7.50			8.3
100	DFT-s-OFDM 64QAM	1	1			5.74			6.6
100	DFT-s-OFDM 256QAM	1	1			3.86			4.6
100	CP-OFDM QPSK	1	1			7.26			8.3
100	CP-OFDM 16QAM	1	1			6.67			7.3
100	CP-OFDM 64QAM	1	1			4.76			5.3
100	CP-OFDM 256QAM	1	1			1.95			2.3
Channel				633000	633166	633334	633500	633666	9.3
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	8.34	8.21	8.28	8.30	8.33	9.3
Channel				632668	633000	633334	633666	634000	9.3
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	8.30	8.24	8.32	8.30	8.22	9.3
Channel				632334	632834	633334	633832	634332	9.3
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	8.31	8.29	8.30	8.19	8.21	9.3
Channel				632000	632666	633334	634000	634666	9.3
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	8.20	8.14	8.13	8.00	7.97	9.3
Channel				631668	632500	633334	634166	635000	9.3
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	8.17	8.17	8.13	8.28	8.15	9.3
Channel				631334	636672	633334	634334	635332	9.3
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	8.24	7.20	7.97	8.01	7.75	9.3
Channel				631000	632166	633334	634500	635666	9.3
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	8.30	8.21	8.14	8.06	7.58	9.3
Channel				630668	632000	633334	634668	636000	9.3
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	8.21	8.08	8.09	7.68	7.60	9.3
Channel				630500	631916	633334	634750	636166	9.3
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	8.23	8.19	8.06	7.66	7.54	9.3
Channel				630334	631834	633334	634834	636332	9.3
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	8.25	8.24	8.12	7.91	7.75	9.3

n78(3450-3550MHz) (PC2)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			11.73			12.9
100		1	136			11.06			
100		1	271			11.19			
100		135	1			10.94			12.9
100		135	67			10.92			
100		135	136			10.99			
100		270	0			11.14			
100	DFT-s-OFDM QPSK	1	1			11.88			12.9
100		1	136			11.06			
100		1	271			11.45			
100		135	1			11.47			12.9
100		135	67			11.84			
100		135	136			10.92			
100		270	0			11.69			
100	DFT-s-OFDM 16QAM	1	1			10.56			11.9
100	DFT-s-OFDM 64QAM	1	1			9.18			9.9
100	DFT-s-OFDM 256QAM	1	1			6.94			7.9
100	CP-OFDM QPSK	1	1			10.31			11.9
100	CP-OFDM 16QAM	1	1			9.68			10.9
100	CP-OFDM 64QAM	1	1			7.74			8.9
100	CP-OFDM 256QAM	1	1			5.06			5.9
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	11.77	11.84	11.71	11.73	11.76	12.9
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	11.78	11.67	11.75	11.79	11.65	12.9
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	11.74	11.72	11.73	11.62	11.64	12.9
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	11.63	11.57	11.56	11.43	11.40	12.9
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	11.80	11.80	11.56	11.71	11.58	12.9
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	11.67	10.63	11.40	11.44	11.18	12.9
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	11.73	11.64	11.57	11.49	11.01	12.9
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	11.64	11.51	11.52	11.11	11.03	12.9
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	11.66	11.62	11.49	11.09	10.97	12.9
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	11.68	11.67	11.55	11.34	11.18	12.9

n78(3450-3550MHz) (PC2)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			12.44			13.5
100		1	136			12.27			
100		1	271			12.34			
100		135	1			12.13			13.5
100		135	67			12.45			
100		135	136			11.66			
100		270	0			12.06			
100	DFT-s-OFDM QPSK	1	1			12.50			13.5
100		1	136			12.20			
100		1	271			12.24			
100		135	1			11.90			13.5
100		135	67			12.45			
100		135	136			11.68			
100		270	0			12.39			
100	DFT-s-OFDM 16QAM	1	1			11.71			12.5
100	DFT-s-OFDM 64QAM	1	1			10.29			11.5
100	DFT-s-OFDM 256QAM	1	1			8.09			8.5
100	CP-OFDM QPSK	1	1			11.44			12.5
100	CP-OFDM 16QAM	1	1			10.83			11.5
100	CP-OFDM 64QAM	1	1			8.93			9.5
100	CP-OFDM 256QAM	1	1			6.21			7.5
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	12.39	12.36	12.43	12.35	12.38	13.5
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	12.40	12.29	12.37	12.41	12.27	13.5
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	12.36	12.34	12.35	12.24	12.26	13.5
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	12.25	12.19	12.18	12.05	12.02	13.5
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	12.32	12.22	12.18	12.33	12.20	13.5
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	12.29	11.25	12.02	12.06	11.80	13.5
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	12.35	12.26	12.19	12.11	12.03	13.5
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	12.26	12.13	12.14	12.13	12.05	13.5
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	12.28	12.24	12.11	12.11	11.99	13.5
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	12.30	12.29	12.17	11.96	12.20	13.5

n78(3450-3550MHz) (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			12.7
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			11.80			12.7
100		1	136			11.73			
100		1	271			11.77			
100		135	1			11.75			12.7
100		135	67			11.86			
100		135	136			7.95			
100	DFT-s-OFDM QPSK	270	0			11.82			12.7
100		1	1			11.88			
100		1	136			11.68			
100		1	271			11.78			12.7
100		135	1			11.72			
100		135	67			11.81			
100	DFT-s-OFDM 16QAM	1	1			11.74			12.7
100		1	1			10.99			11.7
100	DFT-s-OFDM 256QAM	1	1			9.08			9.7
100	CP-OFDM QPSK	1	1			11.84			12.7
100	CP-OFDM 16QAM	1	1			10.68			11.7
100	CP-OFDM 64QAM	1	1			11.72			12.7
100	CP-OFDM 256QAM	1	1			7.26			8.7
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	11.70	11.68	11.77	11.82	11.83	12.7
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	11.69	11.66	11.70	11.77	11.76	12.7
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	11.60	11.79	11.75	11.68	11.81	12.7
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	11.60	11.62	11.62	11.59	11.67	12.7
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	11.56	11.62	11.76	11.77	11.74	12.7
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	11.57	11.56	11.61	11.61	11.78	12.7
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	11.61	11.61	11.85	11.77	11.76	12.7
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	11.51	11.62	11.65	11.75	11.68	12.7
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	11.41	11.50	11.68	11.78	11.84	12.7
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	11.40	11.55	11.75	11.80	11.81	12.7

n78(3450-3550MHz) (PC3)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			7.3
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			6.25			7.3
100		1	136			6.18			
100		1	271			6.22			
100		135	1			6.20			7.3
100		135	67			6.31			
100		135	136			2.40			
100	DFT-s-OFDM QPSK	270	0			6.27			7.3
100		1	1			6.33			
100		1	136			6.13			
100		1	271			6.23			7.3
100		135	1			6.17			
100		135	67			6.26			
100	DFT-s-OFDM 16QAM	135	136			6.16			7.3
100		270	0			6.19			
100	DFT-s-OFDM 64QAM	1	1			6.19			7.3
100	DFT-s-OFDM 256QAM	1	1			5.44			6.3
100	CP-OFDM QPSK	1	1			3.53			4.3
100	CP-OFDM 16QAM	1	1			6.29			7.3
100	CP-OFDM 64QAM	1	1			5.13			6.3
100	CP-OFDM 256QAM	1	1			6.17			7.3
100		1	1			1.71			2.3
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	6.15	6.13	6.22	6.27	6.28	7.3
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	6.14	6.11	6.15	6.22	6.21	7.3
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	6.05	6.24	6.20	6.13	6.26	7.3
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	6.05	6.07	6.07	6.04	6.12	7.3
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	6.01	6.07	6.21	6.22	6.19	7.3
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	6.02	6.01	6.06	6.06	6.23	7.3
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	6.06	6.06	6.30	6.22	6.21	7.3
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	5.96	6.07	6.10	6.20	6.13	7.3
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	5.86	5.95	6.13	6.23	6.29	7.3
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	5.85	6.00	6.20	6.25	6.26	7.3

n78(3450-3550MHz) (PC3)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			10.9
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			9.80			10.9
100		1	136			9.73			
100		1	271			9.77			
100		135	1			9.75			10.9
100		135	67			9.86			
100		135	136			5.95			
100	DFT-s-OFDM QPSK	270	0			9.82			10.9
100		1	1			9.88			
100		1	136			9.68			
100		1	271			9.78			10.9
100		135	1			9.72			
100		135	67			9.81			
100	DFT-s-OFDM 16QAM	135	136			9.71			10.9
100		270	0			9.74			
100		1	1			9.74			
100	DFT-s-OFDM 64QAM	1	1			8.99			9.9
100	DFT-s-OFDM 256QAM	1	1			7.08			7.9
100	CP-OFDM QPSK	1	1			9.84			10.9
100	CP-OFDM 16QAM	1	1			8.68			9.9
100	CP-OFDM 64QAM	1	1			9.72			10.9
100	CP-OFDM 256QAM	1	1			5.26			5.9
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	9.70	9.68	9.77	9.82	9.83	10.9
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	9.69	9.66	9.70	9.77	9.76	10.9
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	9.60	9.79	9.75	9.68	9.81	10.9
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	9.60	9.62	9.62	9.59	9.67	10.9
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	9.56	9.62	9.76	9.77	9.74	10.9
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	9.57	9.56	9.61	9.61	9.78	10.9
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	9.61	9.61	9.85	9.77	9.76	10.9
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	9.51	9.62	9.65	9.75	9.68	10.9
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	9.41	9.50	9.68	9.78	9.84	10.9
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	9.40	9.55	9.75	9.80	9.81	10.9

n78(3450-3550MHz) (PC3)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			11.5
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			10.42			11.5
100		1	136			10.35			
100		1	271			10.39			
100		135	1			10.37			11.5
100		135	67			10.48			
100		135	136			6.57			
100	DFT-s-OFDM QPSK	270	0			10.44			11.5
100		1	1			10.50			
100		1	136			10.30			
100		1	271			10.40			11.5
100		135	1			10.34			
100		135	67			10.43			
100	DFT-s-OFDM 16QAM	135	136			10.33			11.5
100		270	0			10.36			
100	DFT-s-OFDM 64QAM	1	1			10.36			11.5
100	DFT-s-OFDM 256QAM	1	1			9.61			10.5
100	CP-OFDM QPSK	1	1			7.70			8.5
100	CP-OFDM 16QAM	1	1			10.46			11.5
100	CP-OFDM 64QAM	1	1			9.30			10.5
100	CP-OFDM 256QAM	1	1			10.34			10.5
100		1	1			5.88			7.5
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	10.30	10.28	10.37	10.42	10.43	11.5
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	10.29	10.26	10.30	10.37	10.36	11.5
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	10.20	10.39	10.35	10.28	10.41	11.5
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	10.20	10.22	10.22	10.19	10.27	11.5
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	10.16	10.22	10.36	10.37	10.34	11.5
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	10.17	10.16	10.21	10.21	10.38	11.5
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	10.21	10.21	10.45	10.37	10.36	11.5
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	10.11	10.22	10.25	10.35	10.28	11.5
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	10.01	10.10	10.28	10.38	10.44	11.5
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	10.00	10.15	10.35	10.40	10.41	11.5

n78(3700-3800MHz) (PC2)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			13.32			15.7
100		1	136			13.41			
100		1	271			13.48			
100		135	1			13.19			15.7
100		135	67			13.41			
100		135	136			12.86			
100		270	0			13.04			
100	DFT-s-OFDM QPSK	1	1			13.54			15.7
100		1	136			13.35			
100		1	271			13.41			
100		135	1			12.98			15.7
100		135	67			13.45			
100		135	136			12.88			
100		270	0			13.40			
100	DFT-s-OFDM 16QAM	1	1			12.72			13.7
100	DFT-s-OFDM 64QAM	1	1			11.33			12.7
100	DFT-s-OFDM 256QAM	1	1			9.09			9.7
100	CP-OFDM QPSK	1	1			12.46			13.7
100	CP-OFDM 16QAM	1	1			11.91			12.7
100	CP-OFDM 64QAM	1	1			9.87			10.7
100	CP-OFDM 256QAM	1	1			7.11			7.7
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	13.39	13.36	13.43	13.35	13.38	14.7
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	13.40	13.29	13.37	13.41	13.27	14.7
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	13.36	13.34	13.35	13.24	13.26	14.7
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	13.25	13.19	13.18	13.05	13.02	14.7
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	13.32	13.22	13.18	13.33	13.20	14.7
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	13.29	12.25	13.02	13.06	12.80	14.7
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	13.35	13.26	13.19	13.11	13.03	14.7
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	13.26	13.13	13.14	13.13	13.05	14.7
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	13.28	13.24	13.11	13.11	12.99	14.7
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	13.30	13.29	13.17	12.96	13.20	14.7

n78(3700-3800MHz) (PC2)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			9.3
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			8.02			9.3
100		1	136			8.03			
100		1	271			8.09			
100		135	1			7.75			9.3
100		135	67			8.05			
100		135	136			7.43			
100	DFT-s-OFDM QPSK	270	0			7.60			9.3
100		1	1			8.18			
100		1	136			8.06			
100		1	271			8.11			9.3
100		135	1			7.57			
100		135	67			8.02			
100		135	136			7.41			9.3
100		270	0			7.98			
100	DFT-s-OFDM 16QAM	1	1			6.79			7.3
100	DFT-s-OFDM 64QAM	1	1			5.39			6.3
100	DFT-s-OFDM 256QAM	1	1			3.15			4.3
100	CP-OFDM QPSK	1	1			6.58			7.3
100	CP-OFDM 16QAM	1	1			6.01			6.3
100	CP-OFDM 64QAM	1	1			4.62			5.3
100	CP-OFDM 256QAM	1	1			1.23			2.3
Channel				649668	649834	650000	650166	650332	9.3
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	7.91	8.00	7.99	8.05	8.08	9.3
Channel				649334	649666	650000	650334	650666	9.3
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	8.00	7.95	8.07	8.13	8.14	9.3
Channel				649000	649500	650000	650500	651000	9.3
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	7.95	8.06	8.14	8.10	8.11	9.3
Channel				648668	649334	650000	650666	651332	9.3
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	7.78	7.95	7.99	8.05	7.95	9.3
Channel				648334	649166	650000	650834	651666	9.3
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	8.00	8.11	8.18	8.18	8.11	9.3
Channel				648000	649000	650000	651000	652000	9.3
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	7.87	8.13	8.10	7.98	7.97	9.3
Channel				647668	648834	650000	651166	652332	9.3
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	7.90	8.13	8.17	7.98	7.93	9.3
Channel				647334	648666	650000	651334	652666	9.3
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	7.78	8.14	8.03	7.88	7.72	9.3
Channel				647168	648584	650000	651416	652832	9.3
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	7.86	8.14	8.12	7.96	7.82	9.3
Channel				647000	648500	650000	651500	653000	9.3
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	7.89	8.10	8.10	7.95	7.97	9.3

n78(3700-3800MHz) (PC2)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			11.66			12.9
100		1	136			11.25			
100		1	271			11.46			
100		135	1			11.51			12.9
100		135	67			11.36			
100		135	136			11.37			
100		270	0			11.43			
100	DFT-s-OFDM QPSK	1	1			11.81			12.9
100		1	136			11.29			
100		1	271			11.43			
100		135	1			11.01			12.9
100		135	67			11.77			
100		135	136			10.85			
100		270	0			11.64			
100	DFT-s-OFDM 16QAM	1	1			9.58			10.9
100	DFT-s-OFDM 64QAM	1	1			8.22			9.9
100	DFT-s-OFDM 256QAM	1	1			5.87			6.9
100	CP-OFDM QPSK	1	1			9.36			10.9
100	CP-OFDM 16QAM	1	1			8.72			9.9
100	CP-OFDM 64QAM	1	1			6.78			7.9
100	CP-OFDM 256QAM	1	1			4.01			4.9
Channel				649668	649834	650000	650166	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	11.49	11.58	11.57	11.63	11.66	12.9
Channel				649334	649666	650000	650334	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	11.58	11.53	11.65	11.71	11.76	12.9
Channel				649000	649500	650000	650500	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	11.33	11.44	11.52	11.67	11.69	12.9
Channel				648668	649334	650000	650666	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	11.16	11.33	11.37	11.43	11.33	12.9
Channel				648334	649166	650000	650834	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	11.38	11.59	11.66	11.56	11.49	12.9
Channel				648000	649000	650000	651000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	11.25	11.51	11.58	11.56	11.55	12.9
Channel				647668	648834	650000	651166	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	11.28	11.51	11.55	11.56	11.51	12.9
Channel				647334	648666	650000	651334	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	11.16	11.52	11.41	11.46	11.30	12.9
Channel				647168	648584	650000	651416	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	11.24	11.52	11.50	11.54	11.40	12.9
Channel				647000	648500	650000	651500	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	11.27	11.58	11.48	11.53	11.55	12.9

n78(3700-3800MHz) (PC2)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			12.29			13.5
100		1	136			12.29			
100		1	271			12.31			
100		135	1			12.08			13.5
100		135	67			12.30			
100		135	136			11.83			
100	DFT-s-OFDM QPSK	270	0			11.98			13.5
100		1	1			12.35			
100		1	136			12.32			
100		1	271			12.33			13.5
100		135	1			11.57			
100		135	67			12.28			
100		135	136			11.33			13.5
100		270	0			12.23			
100	DFT-s-OFDM 16QAM	1	1			11.67			12.5
100	DFT-s-OFDM 64QAM	1	1			10.63			11.5
100	DFT-s-OFDM 256QAM	1	1			8.34			9.5
100	CP-OFDM QPSK	1	1			11.76			12.5
100	CP-OFDM 16QAM	1	1			10.76			11.5
100	CP-OFDM 64QAM	1	1			8.90			9.5
100	CP-OFDM 256QAM	1	1			6.42			7.5
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	12.19	12.16	12.23	12.15	12.18	13.5
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	12.20	12.09	12.17	12.21	12.07	13.5
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	12.16	12.14	12.15	12.04	12.06	13.5
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	12.05	11.99	11.98	11.85	11.82	13.5
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	12.12	12.02	11.98	12.13	12.00	13.5
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	12.09	11.05	11.82	11.86	11.60	13.5
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	12.15	12.06	11.99	11.91	11.83	13.5
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	12.06	11.93	11.94	11.93	11.85	13.5
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	12.08	12.04	11.91	11.91	11.79	13.5
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	12.10	12.09	11.97	11.76	12.00	13.5

n78(3700-3800MHz) (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			12.7
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			11.70			12.7
100		1	136			11.66			
100		1	271			11.65			
100		135	1			11.71			12.7
100		135	67			11.64			
100		135	136			11.64			
100	DFT-s-OFDM QPSK	270	0			11.67			12.7
100		1	1			11.81			
100		1	136			11.65			
100		1	271			11.67			12.7
100		135	1			11.69			
100		135	67			11.58			
100	DFT-s-OFDM 16QAM	1	1			11.51			12.7
100		1	1			10.82			11.7
100	DFT-s-OFDM 256QAM	1	1			8.88			9.7
100	CP-OFDM QPSK	1	1			10.75			11.7
100	CP-OFDM 16QAM	1	1			11.66			12.7
100	CP-OFDM 64QAM	1	1			10.00			10.7
100	CP-OFDM 256QAM	1	1			7.27			8.7
Channel				649668	649834	650000	650166	650332	12.7
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	11.56	11.62	11.70	11.72	11.75	12.7
Channel				649334	649666	650000	650334	650666	12.7
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	11.59	11.78	11.67	11.60	11.68	12.7
Channel				649000	649500	650000	650500	651000	12.7
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	11.59	11.80	11.67	11.69	11.68	12.7
Channel				648668	649334	650000	650666	651332	12.7
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	11.68	11.51	11.54	11.58	11.69	12.7
Channel				648334	649166	650000	650834	651666	12.7
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	11.77	11.73	11.77	11.74	11.77	12.7
Channel				648000	649000	650000	651000	652000	12.7
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	11.77	11.72	11.74	11.72	11.71	12.7
Channel				647668	648834	650000	651166	652332	12.7
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	11.76	11.71	11.75	11.72	11.71	12.7
Channel				647334	648666	650000	651334	652666	12.7
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	11.67	11.79	11.80	11.74	11.80	12.7
Channel				647168	648584	650000	651416	652832	12.7
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	11.72	11.80	11.75	11.73	11.74	12.7
Channel				647000	648500	650000	651500	653000	12.7
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	11.66	11.73	11.70	11.75	11.67	12.7

n78(3700-3800MHz) (PC3)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			7.3
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			6.15			7.3
100		1	136			6.11			
100		1	271			6.10			
100		135	1			6.16			7.3
100		135	67			6.09			
100		135	136			6.09			
100	DFT-s-OFDM QPSK	270	0			6.12			7.3
100		1	1			6.26			
100		1	136			6.10			
100		1	271			6.12			7.3
100		135	1			6.14			
100		135	67			6.03			
100		135	136			5.12			7.3
100		270	0			6.12			
100	DFT-s-OFDM 16QAM	1	1			5.96			7.3
100	DFT-s-OFDM 64QAM	1	1			5.27			6.3
100	DFT-s-OFDM 256QAM	1	1			3.33			4.3
100	CP-OFDM QPSK	1	1			5.20			6.3
100	CP-OFDM 16QAM	1	1			6.11			7.3
100	CP-OFDM 64QAM	1	1			4.45			5.3
100	CP-OFDM 256QAM	1	1			1.52			2.3
Channel				649668	649834	650000	650166	650332	7.3
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	6.01	6.07	6.15	6.17	6.20	7.3
Channel				649334	649666	650000	650334	650666	7.3
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	6.04	6.23	6.12	6.05	6.13	7.3
Channel				649000	649500	650000	650500	651000	7.3
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	6.04	6.25	6.12	6.14	6.13	7.3
Channel				648668	649334	650000	650666	651332	7.3
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	6.13	5.96	5.99	6.03	6.14	7.3
Channel				648334	649166	650000	650834	651666	7.3
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	6.22	6.18	6.22	6.19	6.22	7.3
Channel				648000	649000	650000	651000	652000	7.3
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	6.22	6.17	6.19	6.17	6.16	7.3
Channel				647668	648834	650000	651166	652332	7.3
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	6.21	6.16	6.20	6.17	6.16	7.3
Channel				647334	648666	650000	651334	652666	7.3
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	6.12	6.24	6.25	6.19	6.25	7.3
Channel				647168	648584	650000	651416	652832	7.3
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	6.17	6.25	6.20	6.18	6.19	7.3
Channel				647000	648500	650000	651500	653000	7.3
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	6.11	6.18	6.15	6.20	6.12	7.3

n78(3700-3800MHz) (PC3)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			10.9
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			9.71			10.9
100		1	136			9.67			
100		1	271			9.66			
100		135	1			9.72			10.9
100		135	67			9.65			
100		135	136			9.65			
100	DFT-s-OFDM QPSK	270	0			9.68			10.9
100		1	1			9.82			
100		1	136			9.66			
100		1	271			9.68			10.9
100		135	1			9.70			
100		135	67			9.59			
100	DFT-s-OFDM 16QAM	135	136			8.68			10.9
100		270	0			9.68			
100		1	1			9.52			
100	DFT-s-OFDM 64QAM	1	1			8.83			9.9
100	DFT-s-OFDM 256QAM	1	1			6.89			7.9
100	CP-OFDM QPSK	1	1			8.76			10.9
100	CP-OFDM 16QAM	1	1			9.67			9.9
100	CP-OFDM 64QAM	1	1			8.01			10.9
100	CP-OFDM 256QAM	1	1			5.08			5.9
Channel				649668	649834	650000	650166	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	9.57	9.63	9.71	9.73	9.76	10.9
Channel				649334	649666	650000	650334	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	9.60	9.79	9.68	9.61	9.69	10.9
Channel				649000	649500	650000	650500	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	9.60	9.81	9.68	9.70	9.69	10.9
Channel				648668	649334	650000	650666	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	9.69	9.52	9.55	9.59	9.70	10.9
Channel				648334	649166	650000	650834	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	9.78	9.74	9.78	9.75	9.78	10.9
Channel				648000	649000	650000	651000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	9.78	9.73	9.75	9.73	9.72	10.9
Channel				647668	648834	650000	651166	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	9.77	9.72	9.76	9.73	9.72	10.9
Channel				647334	648666	650000	651334	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	9.68	9.80	9.81	9.75	9.81	10.9
Channel				647168	648584	650000	651416	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	9.73	9.81	9.76	9.74	9.75	10.9
Channel				647000	648500	650000	651500	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	9.67	9.74	9.71	9.76	9.68	10.9

n78(3700-3800MHz) (PC3)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			11.5
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			10.33			11.5
100		1	136			10.29			
100		1	271			10.28			
100		135	1			10.34			11.5
100		135	67			10.27			
100		135	136			10.27			
100	DFT-s-OFDM QPSK	270	0			10.30			11.5
100		1	1			10.44			
100		1	136			10.28			
100		1	271			10.30			11.5
100		135	1			10.32			
100		135	67			10.21			
100	DFT-s-OFDM 16QAM	135	136			9.30			10.5
100		270	0			10.30			
100	DFT-s-OFDM 64QAM	1	1			10.14			11.5
100	DFT-s-OFDM 256QAM	1	1			9.45			10.5
100	CP-OFDM QPSK	1	1			7.51			8.5
100	CP-OFDM 16QAM	1	1			9.38			11.5
100	CP-OFDM 64QAM	1	1			10.29			10.5
100	CP-OFDM 256QAM	1	1			8.63			10.5
100						5.90			7.5
Channel				649668	649834	650000	650166	650332	11.5
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	10.19	10.25	10.33	10.35	10.38	11.5
Channel				649334	649666	650000	650334	650666	11.5
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	10.22	10.41	10.30	10.23	10.31	11.5
Channel				649000	649500	650000	650500	651000	11.5
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	10.22	10.43	10.30	10.32	10.31	11.5
Channel				648668	649334	650000	650666	651332	11.5
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	10.31	10.14	10.17	10.21	10.32	11.5
Channel				648334	649166	650000	650834	651666	11.5
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	10.40	10.36	10.40	10.37	10.40	11.5
Channel				648000	649000	650000	651000	652000	11.5
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	10.40	10.35	10.37	10.35	10.34	11.5
Channel				647668	648834	650000	651166	652332	11.5
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	10.39	10.34	10.38	10.35	10.34	11.5
Channel				647334	648666	650000	651334	652666	11.5
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	10.30	10.42	10.43	10.37	10.43	11.5
Channel				647168	648584	650000	651416	652832	11.5
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	10.35	10.43	10.38	10.36	10.37	11.5
Channel				647000	648500	650000	651500	653000	11.5
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	10.29	10.36	10.33	10.38	10.30	11.5

ANT 8								
Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
BR / EDR	CH 00	2402	13.84	15.50	10.37	12.00	11.02	13.00
	CH 39	2441	13.04	15.00	9.90	11.50	10.51	12.50
	CH 78	2480	13.14	15.00	9.91	11.50	10.81	12.50
Duty Cycle %			76.75		63.55		77.15	
Power Setting			8		8		8	

ANT 9								
Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
BR / EDR	CH 00	2402	12.32	14.00	8.46	10.00	9.39	11.00
	CH 39	2441	11.97	13.50	8.52	10.50	8.88	10.50
	CH 78	2480	11.07	13.00	7.22	9.00	8.03	10.00
Duty Cycle %			76.75		63.55		77.15	
Power Setting			7		7		7	

Reduced Power Level 4

ANT 6									
GSM1900		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Ch Delta > 0.5
TX Channel		512	661	810		512	661	810	
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot		23.93	23.97	23.92	24.80	14.93	14.97	14.92	15.80
GPRS 1 Tx slot		23.94	23.98	23.94	24.80	14.94	14.98	14.94	15.80
GPRS 2 Tx slots		20.99	21.03	21.02	21.80	14.99	15.03	15.02	15.80
GPRS 3 Tx slots		19.04	19.11	19.06	20.00	14.78	14.85	14.80	15.74
GPRS 4 Tx slots		18.36	18.41	18.39	19.30	15.36	15.41	15.39	16.30
EDGE 1 Tx slot		19.99	20.00	20.02	20.80	10.99	11.00	11.02	11.80
EDGE 2 Tx slots		16.98	17.04	17.03	17.80	10.98	11.04	11.03	11.80
EDGE 3 Tx slots		15.58	15.71	15.63	16.60	11.32	11.45	11.37	12.34
EDGE 4 Tx slots		15.43	15.53	15.47	16.40	12.43	12.53	12.47	13.40
Mode			Max.	23.98			Max.	15.41	
Attenuator		Cable Loss : 0.8							

ANT 4									
Band		WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513	
Rx Channel		9662	9800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	RMC 12.2Kbps	14.22	14.24	14.23	14.90	14.64	14.65	14.62	15.30
3GPP Rel 5	HSDPA Subtest-1	14.19	14.18	14.22	14.90	14.52	14.51	14.55	15.30
3GPP Rel 5	HSDPA Subtest-2	14.22	14.23	14.21	14.90	14.55	14.56	14.54	15.30
3GPP Rel 5	HSDPA Subtest-3	13.65	13.66	13.65	14.40	13.98	13.99	13.98	14.80
3GPP Rel 5	HSDPA Subtest-4	13.63	13.65	13.64	14.40	13.96	13.98	13.97	14.80
3GPP Rel 8	DC-HSDPA Subtest-1	14.22	14.23	14.19	14.90	14.55	14.56	14.52	15.30
3GPP Rel 8	DC-HSDPA Subtest-2	14.21	14.19	14.22	14.90	14.54	14.52	14.55	15.30
3GPP Rel 8	DC-HSDPA Subtest-3	13.55	13.58	13.51	14.40	13.88	13.91	13.84	14.80
3GPP Rel 8	DC-HSDPA Subtest-4	13.54	13.59	13.55	14.40	13.87	13.92	13.88	14.80
3GPP Rel 6	HSUPA Subtest-1	14.22	14.25	14.17	14.90	14.55	14.52	14.50	15.30
3GPP Rel 6	HSUPA Subtest-2	12.19	12.17	12.20	12.90	12.52	12.50	12.53	13.30
3GPP Rel 6	HSUPA Subtest-3	13.15	13.18	13.16	13.90	13.48	13.51	13.49	14.30
3GPP Rel 6	HSUPA Subtest-4	12.16	12.18	12.19	12.90	12.49	12.51	12.52	13.30
3GPP Rel 6	HSUPA Subtest-5	14.19	14.22	14.19	14.90	14.52	14.55	14.52	15.30
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	12.65	12.66	12.55	13.40	12.98	12.99	12.88	13.80
Attenuator		Cable Loss			0.8	Cable Loss			0.8
Mode		Max.			14.25	Max.			14.65

1.4	16QAM	1	3	19.25	19.43	19.21	20
1.4	16QAM	1	5	19.23	19.20	19.12	
1.4	16QAM	3	0	19.28	19.21	19.23	
1.4	16QAM	3	1	19.27	19.22	19.16	19
1.4	16QAM	3	3	19.28	19.28	19.26	
1.4	16QAM	6	0	18.39	18.25	18.22	
1.4	64QAM	1	0	18.42	18.44	18.30	19
1.4	64QAM	1	3	18.23	18.20	18.25	
1.4	64QAM	1	5	18.39	18.15	18.39	
1.4	64QAM	3	0	18.33	18.32	18.25	19
1.4	64QAM	3	1	18.40	18.21	18.24	
1.4	64QAM	3	3	18.23	18.23	18.20	
1.4	64QAM	6	0	18.31	18.28	18.28	15
1.4	256QAM	1	0	14.39	14.53	14.41	
1.4	256QAM	1	3	14.29	14.27	14.28	
1.4	256QAM	1	5	14.43	14.19	14.40	15
1.4	256QAM	3	0	14.35	14.28	14.28	
1.4	256QAM	3	1	14.51	14.31	14.32	
1.4	256QAM	3	3	14.32	14.29	14.23	15
1.4	256QAM	6	0	14.27	14.24	14.26	

5	16QAM	1	12	14.85	14.82	14.73	15.6
5	16QAM	1	24	14.81	14.92	14.86	
5	16QAM	12	0	13.77	13.84	13.92	
5	16QAM	12	7	13.75	13.84	13.74	14.6
5	16QAM	12	13	13.74	13.84	13.71	
5	16QAM	25	0	13.72	13.76	13.85	
5	64QAM	1	0	13.76	13.83	13.85	14.6
5	64QAM	1	12	13.83	13.92	13.60	
5	64QAM	1	24	13.79	13.68	13.52	
5	64QAM	12	0	13.76	13.76	13.82	14.6
5	64QAM	12	7	13.70	13.87	13.62	
5	64QAM	12	13	13.76	13.87	13.76	
5	64QAM	25	0	13.75	13.79	13.66	10.6
5	256QAM	1	0	9.85	9.91	9.86	
5	256QAM	1	12	9.87	9.90	9.67	
5	256QAM	1	24	9.83	9.73	9.56	10.6
5	256QAM	12	0	9.79	9.80	9.86	
5	256QAM	12	7	9.75	9.87	9.69	
5	256QAM	12	13	9.77	9.95	9.83	10.6
5	256QAM	25	0	9.88	9.84	9.76	

5	16QAM	1	12	15.43	15.40	15.31	16.1
5	16QAM	1	24	15.39	15.50	15.44	
5	16QAM	12	0	14.35	14.42	14.50	
5	16QAM	12	7	14.33	14.42	14.32	15.1
5	16QAM	12	13	14.32	14.42	14.29	
5	16QAM	25	0	14.30	14.34	14.43	
5	64QAM	1	0	14.34	14.41	14.43	15.1
5	64QAM	1	12	14.41	14.50	14.18	
5	64QAM	1	24	14.37	14.26	14.10	
5	64QAM	12	0	14.34	14.34	14.40	15.1
5	64QAM	12	7	14.28	14.45	14.20	
5	64QAM	12	13	14.34	14.45	14.34	
5	64QAM	25	0	14.33	14.37	14.24	11.1
5	256QAM	1	0	10.43	10.49	10.44	
5	256QAM	1	12	10.45	10.48	10.25	
5	256QAM	1	24	10.41	10.31	10.14	11.1
5	256QAM	12	0	10.37	10.38	10.44	
5	256QAM	12	7	10.33	10.45	10.27	
5	256QAM	12	13	10.35	10.53	10.41	11.1
5	256QAM	25	0	10.46	10.42	10.34	

5	16QAM	1	12	15.08	15.05	14.96	15.6
5	16QAM	1	24	15.04	15.15	15.09	
5	16QAM	12	0	14.00	14.07	14.15	
5	16QAM	12	7	13.98	14.07	13.97	14.6
5	16QAM	12	13	13.97	14.07	13.94	
5	16QAM	25	0	13.95	13.99	14.08	
5	64QAM	1	0	13.99	14.06	14.08	14.6
5	64QAM	1	12	14.06	14.15	13.83	
5	64QAM	1	24	14.02	13.91	13.75	
5	64QAM	12	0	13.99	13.99	14.05	14.6
5	64QAM	12	7	13.93	14.10	13.85	
5	64QAM	12	13	13.99	14.10	13.99	
5	64QAM	25	0	13.98	14.02	13.89	10.6
5	256QAM	1	0	10.08	10.14	10.09	
5	256QAM	1	12	10.10	10.13	9.90	
5	256QAM	1	24	10.06	9.96	9.79	10.6
5	256QAM	12	0	10.02	10.03	10.09	
5	256QAM	12	7	9.98	10.10	9.92	
5	256QAM	12	13	10.00	10.18	10.06	10.6
5	256QAM	25	0	10.11	10.07	9.99	

5	16QAM	1	12	14.39	14.36	14.27	14.9
5	16QAM	1	24	14.35	14.46	14.40	
5	16QAM	12	0	13.31	13.38	13.46	
5	16QAM	12	7	13.29	13.38	13.28	13.9
5	16QAM	12	13	13.28	13.38	13.25	
5	16QAM	25	0	13.26	13.30	13.39	
5	64QAM	1	0	13.30	13.37	13.39	13.9
5	64QAM	1	12	13.37	13.46	13.14	
5	64QAM	1	24	13.33	13.22	13.06	
5	64QAM	12	0	13.30	13.30	13.36	13.9
5	64QAM	12	7	13.24	13.41	13.16	
5	64QAM	12	13	13.30	13.41	13.30	
5	64QAM	25	0	13.29	13.33	13.20	9.9
5	256QAM	1	0	9.39	9.45	9.40	
5	256QAM	1	12	9.41	9.44	9.21	
5	256QAM	1	24	9.37	9.27	9.10	9.9
5	256QAM	12	0	9.33	9.34	9.40	
5	256QAM	12	7	9.29	9.41	9.23	
5	256QAM	12	13	9.31	9.49	9.37	9.9
5	256QAM	25	0	9.42	9.38	9.30	

1.4	16QAM	1	3	19.35	19.40	19.42	20.3
1.4	16QAM	1	5	19.46	19.32	19.50	
1.4	16QAM	3	0	19.36	19.46	19.50	
1.4	16QAM	3	1	19.37	19.39	19.38	19.3
1.4	16QAM	3	3	19.52	19.47	19.50	
1.4	16QAM	6	0	18.53	18.44	18.46	
1.4	64QAM	1	0	18.57	18.46	18.36	19.3
1.4	64QAM	1	3	18.57	18.52	18.54	
1.4	64QAM	1	5	18.70	18.68	18.61	
1.4	64QAM	3	0	18.41	18.56	18.46	19.3
1.4	64QAM	3	1	18.41	18.49	18.57	
1.4	64QAM	3	3	18.40	18.48	18.36	
1.4	64QAM	6	0	18.47	18.37	18.49	15.3
1.4	256QAM	1	0	14.35	14.32	14.23	
1.4	256QAM	1	3	14.45	14.37	14.38	
1.4	256QAM	1	5	14.51	14.49	14.43	15.3
1.4	256QAM	3	0	14.22	14.43	14.24	
1.4	256QAM	3	1	14.30	14.36	14.39	
1.4	256QAM	3	3	14.20	14.34	14.27	15.3
1.4	256QAM	6	0	14.28	14.24	14.33	



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3	16QAM	1	8	19.67	19.66	19.61	20.5
3	16QAM	1	14	19.48	19.55	19.59	
3	16QAM	8	0	18.76	18.79	18.67	
3	16QAM	8	4	18.51	18.66	18.72	19.5
3	16QAM	8	7	18.73	18.78	18.78	
3	16QAM	15	0	18.78	18.81	18.69	
3	64QAM	1	0	18.67	18.78	18.83	
3	64QAM	1	8	18.82	18.76	18.77	19.5
3	64QAM	1	14	18.61	18.58	18.72	
3	64QAM	8	0	18.80	18.71	18.73	
3	64QAM	8	4	18.65	18.69	18.59	19.5
3	64QAM	8	7	18.76	18.75	18.74	
3	64QAM	15	0	18.73	18.79	18.63	
3	256QAM	1	0	14.55	14.66	14.62	
3	256QAM	1	8	14.74	14.69	14.67	15.5
3	256QAM	1	14	14.54	14.52	14.39	
3	256QAM	8	0	14.72	14.58	14.65	
3	256QAM	8	4	14.60	14.56	14.53	15.5
3	256QAM	8	7	14.62	14.59	14.63	
3	256QAM	15	0	14.64	14.67	14.55	
Channel				2697	2685	2703	Tune-up limit
Frequency (MHz)				814.7	831.5	848.3	(dBm)
1.4	QPSK	1	0	20.67	20.71	20.68	
1.4	QPSK	1	3	20.67	20.66	20.65	
1.4	QPSK	1	5	20.69	20.65	20.61	21.5
1.4	QPSK	3	0	20.75	20.60	20.56	
1.4	QPSK	3	1	20.62	20.63	20.55	
1.4	QPSK	3	3	20.60	20.59	20.56	
1.4	QPSK	6	0	19.76	19.70	19.70	20.5
1.4	16QAM	1	0	19.83	19.58	19.80	
1.4	16QAM	1	3	19.60	19.63	19.64	
1.4	16QAM	1	5	19.51	19.64	19.50	20.5
1.4	16QAM	3	0	19.79	19.72	19.65	
1.4	16QAM	3	1	19.60	19.65	19.68	
1.4	16QAM	3	3	19.78	19.74	19.78	
1.4	16QAM	6	0	18.82	18.75	18.77	19.5
1.4	64QAM	1	0	18.66	18.82	18.75	
1.4	64QAM	1	3	18.86	18.77	18.78	
1.4	64QAM	1	5	18.69	18.63	18.49	19.5
1.4	64QAM	3	0	18.74	18.68	18.72	
1.4	64QAM	3	1	18.72	18.74	18.65	
1.4	64QAM	3	3	18.71	18.76	18.70	
1.4	64QAM	6	0	18.66	18.78	18.68	19.5
1.4	256QAM	1	0	14.57	14.61	14.62	
1.4	256QAM	1	3	14.68	14.61	14.63	
1.4	256QAM	1	5	14.55	14.55	14.38	15.5
1.4	256QAM	3	0	14.73	14.54	14.61	
1.4	256QAM	3	1	14.58	14.57	14.48	
1.4	256QAM	3	3	14.61	14.60	14.62	
1.4	256QAM	6	0	14.60	14.72	14.48	15.5

Band 71 (dBm)-ANT 0							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				133222	133322	133372	
Frequency (MHz)				673	683	688	
20	QPSK	1	0	20.37	20.50	20.43	21.3
20	QPSK	1	49	20.34	20.40	20.33	
20	QPSK	1	99	20.45	20.42	20.46	
20	QPSK	50	0	19.48	19.56	19.52	20.3
20	QPSK	50	24	19.41	19.44	19.48	
20	QPSK	50	50	19.52	19.55	19.53	
20	QPSK	100	0	19.47	19.57	19.49	20.3
20	16QAM	1	0	19.68	19.72	19.72	
20	16QAM	1	49	19.70	19.79	19.77	
20	16QAM	1	99	19.73	19.80	19.78	19.3
20	16QAM	50	0	18.40	18.44	18.49	
20	16QAM	50	24	18.55	18.57	18.54	
20	16QAM	50	50	18.54	18.59	18.56	19.3
20	16QAM	100	0	18.53	18.45	18.59	
20	64QAM	1	0	18.62	18.76	18.67	
20	64QAM	1	49	18.64	18.79	18.71	19.3
20	64QAM	1	99	18.74	18.85	18.75	
20	64QAM	50	0	18.34	18.38	18.48	
20	64QAM	50	24	18.55	18.55	18.54	19.3
20	64QAM	50	50	18.58	18.58	18.58	
20	64QAM	100	0	18.55	18.42	18.63	
20	256QAM	1	0	14.52	14.66	14.57	15.3
20	256QAM	1	49	14.54	14.69	14.61	
20	256QAM	1	99	14.64	14.75	14.65	
20	256QAM	50	0	14.25	14.29	14.39	15.3
20	256QAM	50	24	14.46	14.46	14.45	
20	256QAM	50	50	14.49	14.49	14.49	
20	256QAM	100	0	14.46	14.33	14.54	
Channel				133197	133297	133397	
Frequency (MHz)				670.5	680.5	690.5	Tune-up limit (dBm)
15	QPSK	1	0	20.31	20.46	20.35	21.3
15	QPSK	1	37	20.26	20.30	20.21	
15	QPSK	1	74	20.33	20.37	20.40	
15	QPSK	36	0	19.21	19.50	19.44	20.3
15	QPSK	36	20	19.31	19.32	19.45	
15	QPSK	36	39	19.51	19.48	19.51	
15	QPSK	75	0	19.35	19.43	19.37	20.3
15	16QAM	1	0	19.62	19.71	19.71	
15	16QAM	1	37	19.65	19.75	19.69	
15	16QAM	1	74	19.69	19.79	19.77	19.3
15	16QAM	36	0	18.30	18.41	18.42	
15	16QAM	36	20	18.44	18.45	18.43	
15	16QAM	36	39	18.52	18.58	18.54	19.3
15	16QAM	75	0	18.42	18.42	18.54	
15	64QAM	1	0	18.58	18.66	18.57	
15	64QAM	1	37	18.61	18.76	18.60	19.3
15	64QAM	1	74	18.65	18.73	18.72	
15	64QAM	36	0	18.28	18.33	18.46	
15	64QAM	36	20	18.43	18.50	18.43	19.3
15	64QAM	36	39	18.56	18.50	18.52	
15	64QAM	75	0	18.45	18.41	18.52	
15	256QAM	1	0	14.43	14.65	14.52	15.3
15	256QAM	1	37	14.53	14.64	14.54	
15	256QAM	1	74	14.54	14.69	14.59	
15	256QAM	36	0	14.22	14.23	14.33	15.3
15	256QAM	36	20	14.35	14.37	14.41	
15	256QAM	36	39	14.43	14.37	14.42	
15	256QAM	75	0	14.35	14.29	14.51	
Channel				133172	133272	133422	
Frequency (MHz)				668	678	693	Tune-up limit (dBm)
10	QPSK	1	0	20.28	20.46	20.40	21.3
10	QPSK	1	25	20.32	20.34	20.23	
10	QPSK	1	49	20.40	20.38	20.45	
10	QPSK	25	0	19.27	19.53	19.43	20.3
10	QPSK	25	12	19.39	19.38	19.38	
10	QPSK	25	25	19.48	19.52	19.44	
10	QPSK	50	0	19.40	19.36	19.43	20.3
10	16QAM	1	0	19.63	19.66	19.65	
10	16QAM	1	25	19.69	19.75	19.73	
10	16QAM	1	49	19.65	19.74	19.67	19.3
10	16QAM	25	0	18.37	18.34	18.37	
10	16QAM	25	12	18.46	18.45	18.45	
10	16QAM	25	25	18.48	18.55	18.55	19.3
10	16QAM	50	0	18.50	18.43	18.56	
10	64QAM	1	0	18.59	18.70	18.63	
10	64QAM	1	25	18.59	18.78	18.61	19.3
10	64QAM	1	49	18.65	18.83	18.73	
10	64QAM	25	0	18.22	18.34	18.46	
10	64QAM	25	12	18.45	18.43	18.44	19.3
10	64QAM	25	25	18.48	18.48	18.56	
10	64QAM	50	0	18.45	18.37	18.62	
10	256QAM	1	0	14.51	14.65	14.54	15.3
10	256QAM	1	25	14.43	14.65	14.57	
10	256QAM	1	49	14.53	14.66	14.55	
10	256QAM	25	0	14.18	14.18	14.32	15.3
10	256QAM	25	12	14.42	14.34	14.33	
10	256QAM	25	25	14.42	14.45	14.40	
10	256QAM	50	0	14.44	14.27	14.42	
Channel				133147	133247	133447	
Frequency (MHz)				665.5	675.5	695.5	Tune-up limit (dBm)
5	QPSK	1	0	20.27	20.45	20.32	21.3
5	QPSK	1	12	20.24	20.32	20.29	
5	QPSK	1	24	20.39	20.39	20.44	
5	QPSK	12	0	19.24	19.51	19.49	20.3
5	QPSK	12	7	19.29	19.33	19.47	
5	QPSK	12	13	19.42	19.45	19.46	
5	QPSK	25	0	19.44	19.44	19.46	
5	16QAM	1	0	19.58	19.65	19.66	

5	16QAM	1	12	19.63	19.78	19.67	20.3
5	16QAM	1	24	19.66	19.72	19.70	
5	16QAM	12	0	18.35	18.38	18.40	
5	16QAM	12	7	18.49	18.49	18.51	19.3
5	16QAM	12	13	18.53	18.53	18.54	
5	16QAM	25	0	18.48	18.41	18.57	
5	64QAM	1	0	18.55	18.67	18.60	
5	64QAM	1	12	18.57	18.76	18.62	19.3
5	64QAM	1	24	18.62	18.77	18.74	
5	64QAM	12	0	18.25	18.27	18.37	
5	64QAM	12	7	18.51	18.47	18.47	19.3
5	64QAM	12	13	18.48	18.53	18.53	
5	64QAM	25	0	18.45	18.37	18.58	
5	256QAM	1	0	14.49	14.59	14.52	
5	256QAM	1	12	14.46	14.57	14.49	15.3
5	256QAM	1	24	14.63	14.66	14.57	
5	256QAM	12	0	14.18	14.28	14.28	
5	256QAM	12	7	14.35	14.42	14.42	15.3
5	256QAM	12	13	14.39	14.47	14.39	
5	256QAM	25	0	14.34	14.25	14.48	



CA_7C Ant 5

Combination:20MHz+20MHz(100RB+100RB)

REPORT No.: SZ24070315S01

PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
20850	20850	21048	QPSK	1	0	0	0	1	0	14.66	15.40
21100	21001	21199	QPSK	1	0	0	0	1	0	14.70	15.40
21350	21152	21350	QPSK	1	0	0	0	1	0	14.68	15.40
20850	20850	21048	16QAM	1	0	0	0	1	0	13.76	14.40
21100	21001	21199	16QAM	1	0	0	0	1	0	13.77	14.40
21350	21152	21350	16QAM	1	0	0	0	1	0	13.73	14.40
20850	20850	21048	64QAM	1	0	0	0	1	0	12.79	13.40
21100	21001	21199	64QAM	1	0	0	0	1	0	12.90	13.40
21350	21152	21350	64QAM	1	0	0	0	1	0	12.76	13.40
20850	20850	21048	256QAM	1	0	0	0	1	0	9.71	10.40
21100	21001	21199	256QAM	1	0	0	0	1	0	9.72	10.40
21350	21152	21350	256QAM	1	0	0	0	1	0	9.65	10.40
20850	20850	21048	QPSK	50	0	0	0	1	0	13.70	14.40
21100	21001	21199	QPSK	50	0	0	0	1	0	13.77	14.40
21350	21152	21350	QPSK	50	0	0	0	1	0	13.68	14.40

CA_7C Ant 0

Combination:20MHz+20MHz(100RB+100RB)

PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
20850	20850	21048	QPSK	1	0	0	0	1	0	15.09	15.80
21100	21001	21199	QPSK	1	0	0	0	1	0	15.10	15.80
21350	21152	21350	QPSK	1	0	0	0	1	0	15.00	15.80
20850	20850	21048	16QAM	1	0	0	0	1	0	14.19	14.80
21100	21001	21199	16QAM	1	0	0	0	1	0	14.30	14.80
21350	21152	21350	16QAM	1	0	0	0	1	0	14.23	14.80
20850	20850	21048	64QAM	1	0	0	0	1	0	13.26	13.80
21100	21001	21199	64QAM	1	0	0	0	1	0	13.27	13.80
21350	21152	21350	64QAM	1	0	0	0	1	0	13.22	13.80
20850	20850	21048	256QAM	1	0	0	0	1	0	10.11	10.80
21100	21001	21199	256QAM	1	0	0	0	1	0	10.13	10.80
21350	21152	21350	256QAM	1	0	0	0	1	0	10.12	10.80
20850	20850	21048	QPSK	50	0	0	0	1	0	14.18	14.80
21100	21001	21199	QPSK	50	0	0	0	1	0	14.26	14.80
21350	21152	21350	QPSK	50	0	0	0	1	0	14.17	14.80

CA_12B Ant 0

Combination:5MHz+10MHz(25RB+50RB)

PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
23060	23038	23110	QPSK	1	0	0	0	1	0	22.32	23.10
23095	23048	23120	QPSK	1	0	0	0	1	0	22.40	23.10
23130	23058	23130	QPSK	1	0	0	0	1	0	22.28	23.10
23060	23038	23110	16QAM	1	0	0	0	1	0	21.37	22.10
23095	23048	23120	16QAM	1	0	0	0	1	0	21.43	22.10
23130	23058	23130	16QAM	1	0	0	0	1	0	21.39	22.10
23060	23038	23110	64QAM	1	0	0	0	1	0	20.29	21.10
23095	23048	23120	64QAM	1	0	0	0	1	0	20.37	21.10
23130	23058	23130	64QAM	1	0	0	0	1	0	20.38	21.10
23060	23038	23110	256QAM	1	0	0	0	1	0	17.32	18.10
23095	23048	23120	256QAM	1	0	0	0	1	0	17.29	18.10
23130	23058	23130	256QAM	1	0	0	0	1	0	17.27	18.10
23060	23038	23110	QPSK	25	0	0	0	1	0	21.31	22.10
23095	23048	23120	QPSK	25	0	0	0	1	0	21.34	22.10
23130	23058	23130	QPSK	25	0	0	0	1	0	21.28	22.10

CA_38C Ant 5

Combination:20MHz+20MHz(100RB+100RB)

PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
37850	37850	38048	QPSK	1	0	0	0	1	0	16.92	17.50
38000	37901	38099	QPSK	1	0	0	0	1	0	16.95	17.50
38150	37952	38150	QPSK	1	0	0	0	1	0	16.93	17.50

3-MORLAB	37850	38048	16QAM	1	0	0	0	1	0	16.04	16.50
38000	37901	38099	16QAM	1	0	0	0	1	0	16.09	16.50
38150	37952	38150	16QAM	1	0	0	0	1	0	16.08	16.50
37850	37850	38048	64QAM	1	0	0	0	1	0	14.81	15.50
38000	37901	38099	64QAM	1	0	0	0	1	0	14.84	15.50
38150	37952	38150	64QAM	1	0	0	0	1	0	14.82	15.50
37850	37850	38048	256QAM	1	0	0	0	1	0	11.88	12.50
38000	37901	38099	256QAM	1	0	0	0	1	0	11.92	12.50
38150	37952	38150	256QAM	1	0	0	0	1	0	11.90	12.50
37850	37850	38048	QPSK	50	0	0	0	1	0	15.83	16.50
38000	37901	38099	QPSK	50	0	0	0	1	0	15.85	16.50
38150	37952	38150	QPSK	50	0	0	0	1	0	15.84	16.50

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CA_38C Ant 0											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
37850	37850	38048	QPSK	1	0	0	0	1	0	17.34	18.00
38000	37901	38099	QPSK	1	0	0	0	1	0	17.43	18.00
38150	37952	38150	QPSK	1	0	0	0	1	0	17.39	18.00
37850	37850	38048	16QAM	1	0	0	0	1	0	16.38	17.00
38000	37901	38099	16QAM	1	0	0	0	1	0	16.41	17.00
38150	37952	38150	16QAM	1	0	0	0	1	0	16.37	17.00
37850	37850	38048	64QAM	1	0	0	0	1	0	15.36	16.00
38000	37901	38099	64QAM	1	0	0	0	1	0	15.44	16.00
38150	37952	38150	64QAM	1	0	0	0	1	0	15.39	16.00
37850	37850	38048	256QAM	1	0	0	0	1	0	12.30	13.00
38000	37901	38099	256QAM	1	0	0	0	1	0	12.36	13.00
38150	37952	38150	256QAM	1	0	0	0	1	0	12.29	13.00
37850	37850	38048	QPSK	50	0	0	0	1	0	16.36	17.00
38000	37901	38099	QPSK	50	0	0	0	1	0	16.37	17.00
38150	37952	38150	QPSK	50	0	0	0	1	0	16.32	17.00

CA_41C Ant 5 (PC3)											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	18.61	19.30
40620	40521	40719	QPSK	1	0	0	0	1	0	18.68	19.30
41490	41292	41490	QPSK	1	0	0	0	1	0	18.63	19.30
39750	39750	39948	16QAM	1	0	0	0	1	0	17.74	18.30
40620	40521	40719	16QAM	1	0	0	0	1	0	17.83	18.30
41490	41292	41490	16QAM	1	0	0	0	1	0	17.81	18.30
39750	39750	39948	64QAM	1	0	0	0	1	0	16.78	17.30
40620	40521	40719	64QAM	1	0	0	0	1	0	16.84	17.30
41490	41292	41490	64QAM	1	0	0	0	1	0	16.76	17.30
39750	39750	39948	256QAM	1	0	0	0	1	0	13.61	14.30
40620	40521	40719	256QAM	1	0	0	0	1	0	13.74	14.30
41490	41292	41490	256QAM	1	0	0	0	1	0	13.65	14.30
39750	39750	39948	QPSK	50	0	0	0	1	0	17.76	18.30
40620	40521	40719	QPSK	50	0	0	0	1	0	17.88	18.30
41490	41292	41490	QPSK	50	0	0	0	1	0	17.72	18.30

CA_41C Ant 0 (PC3)											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	17.34	18.00
40620	40521	40719	QPSK	1	0	0	0	1	0	17.43	18.00
41490	41292	41490	QPSK	1	0	0	0	1	0	17.39	18.00
39750	39750	39948	16QAM	1	0	0	0	1	0	16.52	17.00
40620	40521	40719	16QAM	1	0	0	0	1	0	16.58	17.00
41490	41292	41490	16QAM	1	0	0	0	1	0	16.57	17.00
39750	39750	39948	64QAM	1	0	0	0	1	0	15.45	16.00
40620	40521	40719	64QAM	1	0	0	0	1	0	15.55	16.00
41490	41292	41490	64QAM	1	0	0	0	1	0	15.49	16.00
39750	39750	39948	256QAM	1	0	0	0	1	0	11.53	13.00
40620	40521	40719	256QAM	1	0	0	0	1	0	11.64	13.00
41490	41292	41490	256QAM	1	0	0	0	1	0	11.58	13.00

3-MORLAB	39750	39948	QPSK	50	0	0	0	1	0	16.49	17.00
40620	40521	40719	QPSK	50	0	0	0	1	0	18.56	19.00
41490	41292	41490	QPSK	50	0	0	0	1	0	16.52	17.00

REPORT No.: SZ024070315S01

CA_41C Ant 5 (PC2)											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	18.84	19.50
40620	40521	40719	QPSK	1	0	0	0	1	0	18.91	19.50
41490	41292	41490	QPSK	1	0	0	0	1	0	18.86	19.50
39750	39750	39948	16QAM	1	0	0	0	1	0	17.97	18.50
40620	40521	40719	16QAM	1	0	0	0	1	0	18.06	18.50
41490	41292	41490	16QAM	1	0	0	0	1	0	18.04	18.50
39750	39750	39948	64QAM	1	0	0	0	1	0	17.01	17.50
40620	40521	40719	64QAM	1	0	0	0	1	0	17.07	17.50
41490	41292	41490	64QAM	1	0	0	0	1	0	16.99	17.50
39750	39750	39948	256QAM	1	0	0	0	1	0	13.84	14.50
40620	40521	40719	256QAM	1	0	0	0	1	0	13.97	14.50
41490	41292	41490	256QAM	1	0	0	0	1	0	13.88	14.50
39750	39750	39948	QPSK	50	0	0	0	1	0	17.99	18.50
40620	40521	40719	QPSK	50	0	0	0	1	0	18.11	18.50
41490	41292	41490	QPSK	50	0	0	0	1	0	17.95	18.50

CA_41C Ant 0 (PC2)											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	19.29	20.00
40620	40521	40719	QPSK	1	0	0	0	1	0	19.38	20.00
41490	41292	41490	QPSK	1	0	0	0	1	0	19.34	20.00
39750	39750	39948	16QAM	1	0	0	0	1	0	18.47	19.00
40620	40521	40719	16QAM	1	0	0	0	1	0	18.53	19.00
41490	41292	41490	16QAM	1	0	0	0	1	0	18.52	19.00
39750	39750	39948	64QAM	1	0	0	0	1	0	17.40	18.00
40620	40521	40719	64QAM	1	0	0	0	1	0	17.50	18.00
41490	41292	41490	64QAM	1	0	0	0	1	0	17.44	18.00
39750	39750	39948	256QAM	1	0	0	0	1	0	14.42	15.00
40620	40521	40719	256QAM	1	0	0	0	1	0	14.46	15.00
41490	41292	41490	256QAM	1	0	0	0	1	0	14.37	15.00
39750	39750	39948	QPSK	50	0	0	0	1	0	18.44	19.00
40620	40521	40719	QPSK	50	0	0	0	1	0	18.51	19.00
41490	41292	41490	QPSK	50	0	0	0	1	0	18.47	19.00

CA_48C Ant 9											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
55340	55340	55538	QPSK	1	0	0	0	1	0	14.65	15.40
55990	55891	56089	QPSK	1	0	0	0	1	0	14.68	15.40
56640	56442	56640	QPSK	1	0	0	0	1	0	14.61	15.40
55340	55340	55538	16QAM	1	0	0	0	1	0	13.70	14.40
55990	55891	56089	16QAM	1	0	0	0	1	0	13.73	14.40
56640	56442	56640	16QAM	1	0	0	0	1	0	13.66	14.40
55340	55340	55538	64QAM	1	0	0	0	1	0	12.66	13.40
55990	55891	56089	64QAM	1	0	0	0	1	0	12.71	13.40
56640	56442	56640	64QAM	1	0	0	0	1	0	12.67	13.40
55340	55340	55538	256QAM	1	0	0	0	1	0	9.54	10.40
55990	55891	56089	256QAM	1	0	0	0	1	0	9.60	10.40
56640	56442	56640	256QAM	1	0	0	0	1	0	9.55	10.40
55340	55340	55538	QPSK	50	0	0	0	1	0	13.60	14.40
55990	55891	56089	QPSK	50	0	0	0	1	0	13.68	14.40
56640	56442	56640	QPSK	50	0	0	0	1	0	13.55	14.40

CA_48C Ant 11											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				

5-MORLAB	55340	55538	QPSK	1	0	0	0	1	0	16.34	17.10
55990	55891	56089	QPSK	1	0	0	0	1	0	16.29	17.10
56640	56442	56640	QPSK	1	0	0	0	1	0	15.29	16.10
55340	55340	55538	16QAM	1	0	0	0	1	0	15.32	16.10
55990	55891	56089	16QAM	1	0	0	0	1	0	15.26	16.10
56640	56442	56640	16QAM	1	0	0	0	1	0	14.26	15.10
55340	55340	55538	64QAM	1	0	0	0	1	0	14.33	15.10
55990	55891	56089	64QAM	1	0	0	0	1	0	14.21	15.10
56640	56442	56640	64QAM	1	0	0	0	1	0	11.21	12.10
55340	55340	55538	256QAM	1	0	0	0	1	0	11.28	12.10
55990	55891	56089	256QAM	1	0	0	0	1	0	11.22	12.10
56640	56442	56640	256QAM	1	0	0	0	1	0	15.24	16.10
55340	55340	55538	QPSK	50	0	0	0	1	0	15.35	16.10
55990	55891	56089	QPSK	50	0	0	0	1	0	15.21	16.10
56640	56442	56640	QPSK	50	0	0	0	1	0		

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CA_66B Ant 5											
Combination:15MHz+10MHz(75RB+25RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
132070	132047	132140	QPSK	1	0	0	0	1	0	15.02	15.60
132322	132398	132491	QPSK	1	0	0	0	1	0	15.06	15.60
132572	132549	132642	QPSK	1	0	0	0	1	0	14.97	15.60
132070	132047	132140	16QAM	1	0	0	0	1	0	13.90	14.60
132322	132398	132491	16QAM	1	0	0	0	1	0	14.03	14.60
132572	132549	132642	16QAM	1	0	0	0	1	0	13.94	14.60
132070	132047	132140	64QAM	1	0	0	0	1	0	13.02	13.60
132322	132398	132491	64QAM	1	0	0	0	1	0	13.14	13.60
132572	132549	132642	64QAM	1	0	0	0	1	0	13.04	13.60
132070	132047	132140	256QAM	1	0	0	0	1	0	9.94	10.60
132322	132398	132491	256QAM	1	0	0	0	1	0	10.02	10.60
132572	132549	132642	256QAM	1	0	0	0	1	0	9.95	10.60
132070	132047	132140	QPSK	36	0	0	0	1	0	13.90	14.60
132322	132398	132491	QPSK	36	0	0	0	1	0	13.99	14.60
132572	132549	132642	QPSK	36	0	0	0	1	0	13.93	14.60

CA_66B Ant 0											
Combination:15MHz+10MHz(75RB+25RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
132070	132047	132140	QPSK	1	0	0	0	1	0	16.62	17.40
132322	132398	132491	QPSK	1	0	0	0	1	0	16.66	17.40
132572	132549	132642	QPSK	1	0	0	0	1	0	16.57	17.40
132070	132047	132140	16QAM	1	0	0	0	1	0	15.50	16.40
132322	132398	132491	16QAM	1	0	0	0	1	0	15.63	16.40
132572	132549	132642	16QAM	1	0	0	0	1	0	15.54	16.40
132070	132047	132140	64QAM	1	0	0	0	1	0	14.62	15.40
132322	132398	132491	64QAM	1	0	0	0	1	0	14.74	15.40
132572	132549	132642	64QAM	1	0	0	0	1	0	14.64	15.40
132070	132047	132140	256QAM	1	0	0	0	1	0	11.54	12.40
132322	132398	132491	256QAM	1	0	0	0	1	0	11.62	12.40
132572	132549	132642	256QAM	1	0	0	0	1	0	11.55	12.40
132070	132047	132140	QPSK	36	0	0	0	1	0	15.50	16.40
132322	132398	132491	QPSK	36	0	0	0	1	0	15.59	16.40
132572	132549	132642	QPSK	36	0	0	0	1	0	15.53	16.40

CA_66C Ant 5											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
132070	132072	132270	QPSK	1	0	0	0	1	0	14.87	15.60
132322	132323	132521	QPSK	1	0	0	0	1	0	14.91	15.60
132572	132374	132572	QPSK	1	0	0	0	1	0	14.82	15.60
132070	132072	132270	16QAM	1	0	0	0	1	0	13.84	14.60
132322	132323	132521	16QAM	1	0	0	0	1	0	13.97	14.60
132572	132374	132572	16QAM	1	0	0	0	1	0	13.88	14.60
132070	132072	132270	64QAM	1	0	0	0	1	0	12.87	13.60
132322	132323	132521	64QAM	1	0	0	0	1	0	12.99	13.60

132070	132072	132270	64QAM	1	0	0	0	1	0	12.89	13.60
132322	132323	132521	256QAM	1	0	0	0	1	0	9.99	10.60
132572	132374	132572	256QAM	1	0	0	0	1	0	9.88	10.60
132070	132072	132270	QPSK	50	0	0	0	1	0	13.75	14.30
132322	132323	132521	QPSK	50	0	0	0	1	0	13.84	14.30
132572	132374	132572	QPSK	50	0	0	0	1	0	13.78	14.30

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CA_66C Ant 0											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
132070	132072	132270	QPSK	1	0	0	0	1	0	16.69	17.40
132322	132323	132521	QPSK	1	0	0	0	1	0	16.73	17.40
132572	132374	132572	QPSK	1	0	0	0	1	0	16.64	17.40
132070	132072	132270	16QAM	1	0	0	0	1	0	15.57	16.40
132322	132323	132521	16QAM	1	0	0	0	1	0	15.70	16.40
132572	132374	132572	16QAM	1	0	0	0	1	0	15.61	16.40
132070	132072	132270	64QAM	1	0	0	0	1	0	14.69	15.40
132322	132323	132521	64QAM	1	0	0	0	1	0	14.81	15.40
132572	132374	132572	64QAM	1	0	0	0	1	0	14.71	15.40
132070	132072	132270	256QAM	1	0	0	0	1	0	11.65	12.40
132322	132323	132521	256QAM	1	0	0	0	1	0	11.71	12.40
132572	132374	132572	256QAM	1	0	0	0	1	0	11.63	12.40
132070	132072	132270	QPSK	50	0	0	0	1	0	15.57	16.40
132322	132323	132521	QPSK	50	0	0	0	1	0	15.66	16.40
132572	132374	132572	QPSK	50	0	0	0	1	0	15.60	16.40

n2 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	16.17	16.12	15.87	17.2
20		1	53	16.14	16.09	15.98	
20		1	104	16.16	15.95	16.00	
20		50	1	15.57	15.37	15.24	17.2
20	DFT-s-OFDM QPSK	50	25	16.15	15.99	15.90	
20		50	50	15.55	15.35	15.33	
20		100	0	15.66	15.47	15.39	
20		1	1	16.23	16.31	16.25	17.2
20	DFT-s-OFDM 16QAM	1	53	16.17	16.08	15.93	
20		1	104	16.17	15.94	15.67	
20		50	1	15.35	15.31	15.24	17.2
20		50	25	16.20	16.26	16.16	
20	DFT-s-OFDM 64QAM	50	50	15.39	15.38	15.30	
20		100	0	16.00	16.10	16.05	
20	DFT-s-OFDM 256QAM	1	1	15.25	15.31	15.17	16.2
20	CP-OFDM QPSK	1	1	13.16	13.32	13.07	14.2
20	CP-OFDM 16QAM	1	1	11.07	10.97	10.85	12.2
20	CP-OFDM 64QAM	1	1	14.50	14.63	14.55	15.2
20	CP-OFDM 256QAM	1	1	13.96	13.94	13.77	15.2
20		1	1	12.06	11.95	11.79	13.2
20		1	1	9.02	8.97	8.87	10.2
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	16.20	16.12	15.94	17.2
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	15.84	16.05	15.95	17.2
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	15.98	16.13	15.60	17.2

n2 (PC3)(ANT4)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	16
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	15.17	15.11	14.96	16
20		1	53	15.15	15.09	14.95	
20		1	104	15.08	14.98	15.04	
20		50	1	14.53	14.50	14.43	16
20	DFT-s-OFDM QPSK	50	25	15.13	15.09	14.97	
20		50	50	14.56	14.46	14.38	
20		100	0	14.61	14.56	14.45	
20		1	1	15.18	15.20	15.15	16
20	DFT-s-OFDM 16QAM	1	53	15.09	15.07	14.68	
20		1	104	15.18	15.04	15.06	
20		50	1	14.04	14.05	14.09	16
20		50	25	15.16	15.17	15.11	
20		50	50	14.08	14.02	15.03	
20		100	0	15.04	15.06	14.90	
20	DFT-s-OFDM 64QAM	1	1	13.82	13.93	13.68	15
20	DFT-s-OFDM 256QAM	1	1	12.24	12.30	12.14	14
20	CP-OFDM QPSK	1	1	10.04	9.95	9.84	11
20	CP-OFDM 16QAM	1	1	13.63	13.69	13.51	15
20	CP-OFDM 64QAM	1	1	12.98	13.03	12.80	14
20	CP-OFDM 256QAM	1	1	11.09	11.05	10.84	12
20	CP-OFDM 256QAM	1	1	8.06	8.07	7.93	9
Channel				371500	376000	380500	16
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	15.07	15.03	14.96	16
Channel				371000	376000	381000	16
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	15.13	15.04	14.89	16
Channel				370500	376000	381500	16
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	15.00	14.86	14.82	16

n2 (PC3)(ANT5)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	16.69	16.69	16.57	17.7
20		1	53	16.70	16.65	16.55	
20		1	104	16.63	16.58	16.62	
20		50	1	16.11	16.10	15.93	17.7
20		50	25	16.67	16.69	16.64	
20		50	50	16.06	15.88	15.98	
20		100	0	16.18	16.06	16.04	
20	DFT-s-OFDM QPSK	1	1	16.70	16.75	16.68	17.7
20		1	53	16.67	16.64	16.56	
20		1	104	16.61	16.53	16.51	
20		50	1	15.81	15.87	15.70	17.7
20		50	25	16.68	16.70	16.66	
20		50	50	15.88	15.93	15.84	
20		100	0	16.51	16.59	16.57	
20	DFT-s-OFDM 16QAM	1	1	15.50	15.51	15.32	16.7
20	DFT-s-OFDM 64QAM	1	1	13.99	14.03	13.84	14.7
20	DFT-s-OFDM 256QAM	1	1	11.72	11.75	11.53	12.7
20	CP-OFDM QPSK	1	1	15.33	15.38	15.16	16.7
20	CP-OFDM 16QAM	1	1	14.65	14.71	14.54	15.7
20	CP-OFDM 64QAM	1	1	12.74	12.69	12.54	13.7
20	CP-OFDM 256QAM	1	1	9.64	9.67	9.55	10.7
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	16.69	16.64	16.55	17.7
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	16.65	16.68	16.51	17.7
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	16.66	16.53	16.36	17.7

n2 (PC3)(ANT6)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	17.24	17.13	16.98	18
20		1	53	17.22	17.11	17.00	
20		1	104	17.23	17.01	17.08	
20		50	1	16.70	16.54	16.41	18
20	DFT-s-OFDM QPSK	50	25	17.30	17.03	16.97	
20		50	50	16.66	16.53	16.33	
20		100	0	16.78	16.56	16.39	
20		1	1	17.28	17.34	17.20	18
20	DFT-s-OFDM 16QAM	1	53	17.19	17.20	16.90	
20		1	104	17.24	17.27	17.15	
20		50	1	16.12	16.19	16.06	18
20		50	25	17.22	17.26	17.12	
20	DFT-s-OFDM 64QAM	50	50	16.17	16.15	16.08	
20		100	0	17.13	17.16	17.02	
20	CP-OFDM QPSK	1	1	16.07	16.02	15.76	17
20	CP-OFDM 16QAM	1	1	14.44	14.44	14.12	15
20	CP-OFDM 64QAM	1	1	12.15	12.08	11.86	13
20	CP-OFDM 256QAM	1	1	15.88	15.76	15.62	17
20	CP-OFDM 16QAM	1	1	15.11	15.13	14.86	16
20	CP-OFDM 64QAM	1	1	13.20	13.11	12.85	14
20	CP-OFDM 256QAM	1	1	10.18	10.08	9.88	11
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	17.30	17.16	16.98	24.2
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	17.26	17.12	16.79	24.2
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	17.09	16.98	16.72	24.2

n5 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	21
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	19.93	19.88	19.86	21
20		1	53	19.77	19.81	19.79	
20		1	104	19.81	19.80	19.74	
20		50	1	19.10	19.06	19.11	21
20		50	25	19.74	19.65	19.61	
20		50	50	19.10	19.06	19.04	
20		100	0	19.23	19.28	19.25	
20	DFT-s-OFDM QPSK	1	1	19.88	19.96	19.90	21
20		1	53	19.72	19.74	19.74	
20		1	104	19.70	19.80	19.81	
20		50	1	19.28	19.26	19.25	21
20		50	25	19.81	19.84	19.73	
20		50	50	19.25	19.21	19.20	
20		100	0	19.81	19.78	19.76	
20	DFT-s-OFDM 16QAM	1	1	18.31	18.35	18.35	19
20	DFT-s-OFDM 64QAM	1	1	16.94	17.00	16.96	18
20	DFT-s-OFDM 256QAM	1	1	14.48	14.40	14.45	15
20	CP-OFDM QPSK	1	1	18.04	17.98	18.01	19
20	CP-OFDM 16QAM	1	1	17.42	17.41	17.43	18
20	CP-OFDM 64QAM	1	1	15.53	15.49	15.45	16
20	CP-OFDM 256QAM	1	1	12.41	12.45	12.44	13
Channel				166300	167300	168300	21
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	19.90	19.87	19.80	21
Channel				165800	167300	168800	21
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	19.84	19.76	19.78	21
Channel				165300	167300	169300	21
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	19.77	19.67	19.62	21

n5 (PC3)(ANT1)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	23.2
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	21.85	21.84	21.88	23.2
20		1	53	21.89	21.84	21.86	
20		1	104	21.85	21.83	21.87	
20		50	1	21.26	21.24	21.27	23.2
20		50	25	21.91	21.91	21.88	
20		50	50	21.25	21.27	21.23	
20		100	0	21.45	21.41	21.32	
20	DFT-s-OFDM QPSK	1	1	21.88	21.94	21.93	23.2
20		1	53	21.87	21.87	21.92	
20		1	104	21.86	21.88	21.84	
20		50	1	21.31	21.26	21.31	23.2
20		50	25	21.90	21.92	21.87	
20		50	50	21.30	21.31	21.25	
20		100	0	21.74	21.77	21.72	
20	DFT-s-OFDM 16QAM	1	1	20.72	20.76	20.75	22.2
20	DFT-s-OFDM 64QAM	1	1	19.23	19.15	19.19	20.2
20	DFT-s-OFDM 256QAM	1	1	16.82	16.82	16.89	18.2
20	CP-OFDM QPSK	1	1	20.52	20.56	20.56	22.2
20	CP-OFDM 16QAM	1	1	19.81	19.83	19.77	21.2
20	CP-OFDM 64QAM	1	1	17.93	17.93	17.83	19.2
20	CP-OFDM 256QAM	1	1	14.86	14.83	14.81	16.2
Channel				166300	167300	168300	23.2
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	21.91	21.92	21.91	23.2
Channel				165800	167300	168800	23.2
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	21.90	21.87	21.80	23.2
Channel				165300	167300	169300	23.2
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	21.84	21.75	21.71	23.2

n7 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	DFT-s-OFDM PI/2 BPSK	1	1	15.60	15.78	15.71	16
40		1	108	15.55	15.80	15.67	
40		1	214	15.75	15.71	15.75	
40		108	1	15.01	15.21	15.11	16
40		108	54	15.65	15.89	15.71	
40		108	108	15.12	15.19	15.12	
40		216	0	15.14	15.27	15.23	
40	DFT-s-OFDM QPSK	1	1	15.62	15.77	15.69	16
40		1	108	15.50	15.61	15.52	
40		1	214	15.65	15.66	15.68	
40		108	1	15.03	15.04	15.02	16
40		108	54	15.68	15.71	15.70	
40		108	108	15.05	15.01	15.07	
40		216	0	15.60	15.65	15.66	
40	DFT-s-OFDM 16QAM	1	1	13.62	13.60	13.70	15
40	DFT-s-OFDM 64QAM	1	1	12.70	12.89	12.92	14
40	DFT-s-OFDM 256QAM	1	1	10.61	10.54	10.60	12
40	CP-OFDM QPSK	1	1	13.90	14.09	14.11	15
40	CP-OFDM 16QAM	1	1	12.94	13.05	12.76	14
40	CP-OFDM 64QAM	1	1	11.42	11.51	11.64	13
40	CP-OFDM 256QAM	1	1	8.48	8.83	8.60	10
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	DFT-s-OFDM QPSK	1	1	15.45	15.60	15.69	16
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	DFT-s-OFDM QPSK	1	1	15.52	15.66	15.66	16
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	DFT-s-OFDM QPSK	1	1	15.40	15.57	15.68	16
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	DFT-s-OFDM QPSK	1	1	15.43	15.64	15.58	16
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	DFT-s-OFDM QPSK	1	1	15.49	15.65	15.66	16
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	DFT-s-OFDM QPSK	1	1	15.35	15.57	15.68	16

n7 (PC3) (ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	DFT-s-OFDM PI/2 BPSK	1	1	15.43	15.51	15.65	17.2
40		1	108	15.39	15.48	15.46	
40		1	214	15.66	15.65	15.58	
40		108	1	15.20	15.30	15.39	17.2
40		108	54	15.56	15.66	15.62	
40		108	108	15.27	15.33	15.22	
40		216	0	15.30	15.33	15.42	
40	DFT-s-OFDM QPSK	1	1	16.25	16.32	16.27	17.2
40		1	108	16.22	16.20	16.25	
40		1	214	16.14	16.23	16.10	
40		108	1	15.25	15.31	15.21	17.2
40		108	54	16.12	16.15	15.99	
40		108	108	15.23	15.27	15.17	
40		216	0	15.72	15.74	15.71	
40	DFT-s-OFDM 16QAM	1	1	15.05	14.90	15.43	16.2
40	DFT-s-OFDM 64QAM	1	1	12.70	13.00	12.70	14.2
40	DFT-s-OFDM 256QAM	1	1	11.03	11.12	10.70	13.2
40	CP-OFDM QPSK	1	1	13.70	13.75	13.73	15.2
40	CP-OFDM 16QAM	1	1	12.76	12.85	12.72	14.2
40	CP-OFDM 64QAM	1	1	12.25	12.43	12.48	13.2
40	CP-OFDM 256QAM	1	1	8.75	8.72	9.05	10.2
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	DFT-s-OFDM QPSK	1	1	15.96	16.18	15.89	17.2
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	DFT-s-OFDM QPSK	1	1	15.82	16.21	15.93	17.2
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	DFT-s-OFDM QPSK	1	1	15.92	16.28	15.92	17.2
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	DFT-s-OFDM QPSK	1	1	16.00	16.23	16.21	17.2
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	DFT-s-OFDM QPSK	1	1	16.04	16.30	16.29	17.2
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	DFT-s-OFDM QPSK	1	1	15.95	16.23	16.22	17.2

n7 (PC3)(ANT5)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	DFT-s-OFDM PI/2 BPSK	1	1	16.10	16.12	16.01	17.2
40		1	108	15.85	15.97	15.97	
40		1	214	16.05	16.08	16.05	
40		108	1	15.31	15.47	15.41	17.2
40		108	54	15.95	16.08	16.01	
40		108	108	15.42	15.41	15.42	
40		216	0	15.44	15.54	15.53	
40	DFT-s-OFDM QPSK	1	1	16.02	16.14	16.09	17.2
40		1	108	15.90	16.03	15.92	
40		1	214	16.05	16.04	16.08	
40		108	1	15.23	15.30	15.35	17.2
40		108	54	15.93	16.03	16.00	
40		108	108	15.37	15.46	15.47	
40		216	0	15.90	15.97	15.91	
40	DFT-s-OFDM 16QAM	1	1	14.75	14.82	14.97	16.2
40	DFT-s-OFDM 64QAM	1	1	13.10	13.24	13.32	14.2
40	DFT-s-OFDM 256QAM	1	1	10.79	10.88	11.00	12.2
40	CP-OFDM QPSK	1	1	9.01	9.05	9.12	10.2
40	CP-OFDM 16QAM	1	1	13.77	13.95	13.93	14.2
40	CP-OFDM 64QAM	1	1	11.82	11.95	12.04	13.2
40	CP-OFDM 256QAM	1	1	8.88	8.97	9.00	10.2
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	DFT-s-OFDM QPSK	1	1	15.85	16.00	16.09	17.2
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	DFT-s-OFDM QPSK	1	1	15.92	16.06	16.06	17.2
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	DFT-s-OFDM QPSK	1	1	15.80	15.97	16.08	25.2
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	DFT-s-OFDM QPSK	1	1	15.83	16.04	15.98	25.2
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	DFT-s-OFDM QPSK	1	1	15.89	16.05	16.06	25.2
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	DFT-s-OFDM QPSK	1	1	15.75	15.97	16.08	25.2

n7 (PC3)(ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	DFT-s-OFDM PI/2 BPSK	1	1	15.70	15.80	15.85	17.2
40		1	108	15.73	15.77	15.74	
40		1	214	15.98	15.98	15.88	
40		108	1	15.20	15.29	15.35	17.2
40		108	54	15.85	15.98	15.93	
40		108	108	15.33	15.26	15.30	
40		216	0	15.37	15.38	15.38	
40	DFT-s-OFDM QPSK	1	1	16.45	16.52	16.43	17.2
40		1	108	16.33	16.23	16.13	
40		1	214	15.98	16.32	16.05	
40		108	1	15.27	15.62	15.31	17.2
40		108	54	16.30	16.35	16.33	
40		108	108	15.53	15.24	15.33	
40		216	0	16.22	16.25	16.26	
40	DFT-s-OFDM 16QAM	1	1	14.85	15.08	15.45	16.2
40	DFT-s-OFDM 64QAM	1	1	13.19	13.52	13.84	14.2
40	DFT-s-OFDM 256QAM	1	1	11.29	11.62	11.72	12.2
40	CP-OFDM QPSK	1	1	14.38	14.57	14.53	15.2
40	CP-OFDM 16QAM	1	1	14.05	14.06	14.62	15.2
40	CP-OFDM 64QAM	1	1	12.36	12.49	12.64	13.2
40	CP-OFDM 256QAM	1	1	9.44	9.50	9.68	10.2
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	DFT-s-OFDM QPSK	1	1	16.23	16.40	16.36	17.2
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	DFT-s-OFDM QPSK	1	1	16.32	16.51	16.43	17.2
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	DFT-s-OFDM QPSK	1	1	16.19	16.47	16.31	17.2
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	DFT-s-OFDM QPSK	1	1	16.25	16.50	16.48	17.2
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	DFT-s-OFDM QPSK	1	1	16.10	16.51	16.50	17.2
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	DFT-s-OFDM QPSK	1	1	16.25	16.33	16.28	17.2

n12 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	DFT-s-OFDM PI/2 BPSK	1	1	19.81	19.71	19.71	21
15		1	39	19.78	19.78	19.71	
15		1	77	19.72	19.68	19.72	
15		36	1	19.20	19.24	19.17	21
15		36	18	19.84	19.87	19.81	
15		36	37	19.20	19.23	19.16	
15		75	0	19.16	19.20	19.16	
15	DFT-s-OFDM QPSK	1	1	19.36	19.62	19.66	21
15		1	39	19.78	19.90	19.89	
15		1	77	19.79	19.74	19.74	
15		36	1	19.11	19.03	19.13	21
15		36	18	19.76	19.89	19.84	
15		36	37	19.11	19.14	19.07	
15		75	0	19.62	19.66	19.62	
15	DFT-s-OFDM 16QAM	1	1	18.06	18.19	18.10	20
15	DFT-s-OFDM 64QAM	1	1	16.50	16.46	16.43	18
15	DFT-s-OFDM 256QAM	1	1	14.38	14.36	14.31	16
15	CP-OFDM QPSK	1	1	17.62	17.69	17.66	19
15	CP-OFDM 16QAM	1	1	17.05	17.03	16.99	18
15	CP-OFDM 64QAM	1	1	15.22	15.21	15.18	16
15	CP-OFDM 256QAM	1	1	12.32	12.29	12.29	13
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	DFT-s-OFDM QPSK	1	1	19.81	19.75	19.76	21
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	DFT-s-OFDM QPSK	1	1	19.76	19.75	19.64	21

n25 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				374000	376500	380000	
Frequency (MHz)				1870	1882.5	1900	
40	DFT-s-OFDM PI/2 BPSK	1	1	17.42	17.39	17.37	18.6
40		1	108	17.28	17.16	17.35	
40		1	214	17.21	17.32	17.42	
40		108	1	16.77	16.78	16.73	18.6
40		108	54	17.30	17.23	17.37	
40		108	108	16.62	16.73	16.78	
40		216	0	16.83	16.73	16.84	
40	DFT-s-OFDM QPSK	1	1	17.46	17.41	17.37	18.6
40		1	108	17.23	17.14	17.36	
40		1	214	17.21	17.17	17.31	
40		108	1	16.68	16.70	16.60	18.6
40		108	54	17.39	17.30	17.31	
40		108	108	16.82	16.77	16.84	
40		216	0	17.33	17.31	17.34	
40	DFT-s-OFDM 16QAM	1	1	16.24	16.25	16.12	17.6
40	DFT-s-OFDM 64QAM	1	1	14.65	14.62	14.64	15.6
40	DFT-s-OFDM 256QAM	1	1	12.35	12.31	12.33	13.6
40	CP-OFDM QPSK	1	1	15.22	15.30	15.55	16.6
40	CP-OFDM 16QAM	1	1	14.55	14.34	14.21	15.6
40	CP-OFDM 64QAM	1	1	13.42	13.33	13.34	14.6
40	CP-OFDM 256QAM	1	1	10.36	10.35	10.35	11.6
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	DFT-s-OFDM QPSK	1	1	17.41	17.30	17.17	18.6
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	DFT-s-OFDM QPSK	1	1	17.41	17.24	17.29	18.6
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM QPSK	1	1	17.38	17.29	17.15	18.6
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	17.43	17.32	17.22	18.6
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	17.44	17.23	17.14	18.6
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	DFT-s-OFDM QPSK	1	1	17.25	17.11	17.06	18.6

n25 (PC3)(ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				374000	376500	380000	
Frequency (MHz)				1870	1882.5	1900	
40	DFT-s-OFDM PI/2 BPSK	1	1	15.10	14.97	14.87	16
40		1	108	15.11	14.78	14.85	
40		1	214	15.04	14.88	14.92	
40		108	1	14.52	14.31	14.23	16
40		108	54	15.12	14.85	14.87	
40		108	108	14.47	14.28	14.28	
40		216	0	14.59	14.32	14.34	
40	DFT-s-OFDM QPSK	1	1	15.17	14.97	14.87	16
40		1	108	15.14	14.74	14.86	
40		1	214	15.02	14.84	14.81	
40		108	1	14.02	14.04	14.02	16
40		108	54	15.09	14.89	14.81	
40		108	108	14.03	14.10	14.04	
40		216	0	14.96	14.98	14.99	
40	DFT-s-OFDM 16QAM	1	1	13.91	13.64	13.62	15
40	DFT-s-OFDM 64QAM	1	1	12.40	12.07	12.14	13
40	DFT-s-OFDM 256QAM	1	1	10.13	9.95	9.83	11
40	CP-OFDM QPSK	1	1	13.74	13.48	13.46	15
40	CP-OFDM 16QAM	1	1	13.06	12.85	12.84	14
40	CP-OFDM 64QAM	1	1	11.15	11.01	10.84	12
40	CP-OFDM 256QAM	1	1	8.05	7.92	7.85	9
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	DFT-s-OFDM QPSK	1	1	14.96	14.85	14.72	16
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	DFT-s-OFDM QPSK	1	1	14.96	15.00	14.84	16
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM QPSK	1	1	14.93	14.84	14.70	16
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	14.98	14.87	14.77	16
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	14.99	14.78	14.69	16
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	DFT-s-OFDM QPSK	1	1	14.80	14.66	14.61	16

n25 (PC3)(ANT5)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				374000	376500	379000	Tune-up limit (dBm)
Frequency (MHz)				1870	1882.5	1895	
40	DFT-s-OFDM PI/2 BPSK	1	1	14.72	14.71	14.69	15.7
40		1	108	14.58	14.45	14.42	
40		1	214	14.51	14.54	14.72	
40		108	1	14.07	13.98	13.95	15.7
40		108	54	14.60	14.49	14.48	
40		108	108	13.92	13.86	13.91	
40		216	0	14.13	14.02	14.03	
40	DFT-s-OFDM QPSK	1	1	14.76	14.71	14.66	15.7
40		1	108	14.53	14.40	14.35	
40		1	214	14.51	14.54	14.18	
40		108	1	13.88	13.80	13.71	15.7
40		108	54	14.69	14.61	14.63	
40		108	108	13.85	13.83	13.75	
40		216	0	14.67	14.53	14.57	
40	DFT-s-OFDM 16QAM	1	1	13.54	13.54	13.46	14.7
40	DFT-s-OFDM 64QAM	1	1	11.95	11.88	11.83	12.7
40	DFT-s-OFDM 256QAM	1	1	9.65	9.64	9.59	10.7
40	CP-OFDM QPSK	1	1	13.33	13.34	13.29	14.7
40	CP-OFDM 16QAM	1	1	12.65	12.66	12.60	13.7
40	CP-OFDM 64QAM	1	1	10.72	10.69	10.64	11.7
40	CP-OFDM 256QAM	1	1	7.66	7.68	7.64	8.7
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	DFT-s-OFDM QPSK	1	1	14.71	14.60	14.47	15.7
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	DFT-s-OFDM QPSK	1	1	14.71	14.75	14.59	15.7
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM QPSK	1	1	14.68	14.59	14.45	15.7
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	14.73	14.62	14.52	15.7
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	14.74	14.53	14.44	15.7
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	DFT-s-OFDM QPSK	1	1	14.55	14.41	14.36	15.7

n25 (PC3)(ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	DFT-s-OFDM PI/2 BPSK	1	1	18.37	18.41	18.34	19.4
40		1	108	18.38	18.19	18.32	
40		1	214	18.31	18.27	18.39	
40		108	1	17.79	17.77	17.70	19.4
40		108	54	18.39	18.40	18.34	
40		108	108	17.74	17.70	17.75	
40		216	0	17.86	17.76	17.81	
40	DFT-s-OFDM QPSK	1	1	18.44	18.32	18.34	19.4
40		1	108	18.41	18.19	18.33	
40		1	214	18.29	18.27	18.28	
40		108	1	17.49	17.59	17.47	19.4
40		108	54	18.36	18.30	18.28	
40		108	108	17.46	17.53	17.41	
40		216	0	18.22	18.31	18.30	
40	DFT-s-OFDM 16QAM	1	1	17.18	17.18	17.09	18.4
40	DFT-s-OFDM 64QAM	1	1	15.67	15.62	15.61	16.4
40	DFT-s-OFDM 256QAM	1	1	13.40	13.48	13.30	14.4
40	CP-OFDM QPSK	1	1	17.01	17.01	16.93	18.4
40	CP-OFDM 16QAM	1	1	16.33	16.40	16.31	17.4
40	CP-OFDM 64QAM	1	1	14.42	14.53	14.31	15.4
40	CP-OFDM 256QAM	1	1	11.32	11.38	11.32	12.4
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	DFT-s-OFDM QPSK	1	1	18.32	18.21	18.08	19.4
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	DFT-s-OFDM QPSK	1	1	18.32	18.36	18.20	19.4
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM QPSK	1	1	18.29	18.20	18.06	19.4
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	18.34	18.23	18.13	19.4
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	18.35	18.14	18.05	19.4
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	DFT-s-OFDM QPSK	1	1	18.16	18.02	17.97	19.4

n26(814-824MHz) (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					163800		21
Frequency (MHz)					819		
10	DFT-s-OFDM PI/2 BPSK	1	1		19.87		21
10		1	26		19.81		
10		1	50		19.79		
10		25	1		19.21		21
10		25	12		19.86		
10		25	25		19.22		
10		50	0		19.26		
10		1	1		19.90		21
10	DFT-s-OFDM QPSK	1	26		19.89		
10		1	50		19.87		
10		25	1		19.09		21
10		25	12		19.87		
10		25	25		19.04		
10		50	0		19.68		
10	DFT-s-OFDM 16QAM	1	1		18.60		19
10	DFT-s-OFDM 64QAM	1	1		17.22		19
10	DFT-s-OFDM 256QAM	1	1		14.79		16
10	CP-OFDM QPSK	1	1		18.10		19
10	CP-OFDM 16QAM	1	1		16.88		18
10	CP-OFDM 64QAM	1	1		15.81		17
10	CP-OFDM 256QAM	1	1		12.83		14
Channel				163300	163800	164300	21
Frequency (MHz)				816.5	819	821.5	
5	DFT-s-OFDM QPSK	1	1	19.66	19.80	19.70	21

n26(824-849MHz) (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	19.68	19.84	19.72	21
20		1	53	19.67	19.75	19.64	
20		1	104	19.68	19.69	19.62	
20		50	1	19.09	19.11	19.11	21
20	DFT-s-OFDM QPSK	50	25	19.73	19.73	19.67	
20		50	50	19.03	19.06	19.12	
20		100	0	19.24	19.25	19.16	
20		1	1	19.87	19.84	19.82	21
20	DFT-s-OFDM 16QAM	1	53	19.75	19.82	19.79	
20		1	104	19.77	19.77	19.69	
20		50	1	19.19	19.00	19.03	21
20		50	25	19.78	19.76	19.67	
20	DFT-s-OFDM 64QAM	50	50	19.16	19.19	19.19	
20		100	0	19.55	19.66	19.61	
20	DFT-s-OFDM 256QAM	1	1	18.39	18.20	18.17	19
20	CP-OFDM QPSK	1	1	16.65	16.65	16.59	18
20	CP-OFDM 16QAM	1	1	14.23	14.29	14.35	16
20	CP-OFDM 64QAM	1	1	17.94	17.89	17.91	18
20	CP-OFDM 256QAM	1	1	17.25	17.30	17.19	18
20		1	1	15.35	15.37	15.29	16
20		1	1	12.28	12.40	12.24	13
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	19.82	19.81	19.77	21
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	19.73	19.55	19.56	21
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	19.79	19.62	19.62	21

n30 (PC3)(ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	DFT-s-OFDM PI/2 BPSK	1	1		18.85		20.2
10		1	26		19.00		
10		1	50		18.96		
10		25	1		18.34		20.2
10		25	12		19.01		
10		25	25		18.44		
10		50	0		18.74		
10	DFT-s-OFDM QPSK	1	1		18.74		20.2
10		1	26		19.03		
10		1	50		18.65		
10		25	1		18.22		20.2
10		25	12		18.99		
10		25	25		18.40		
10		50	0		18.83		
10	DFT-s-OFDM 16QAM	1	1		17.76		19.2
10	DFT-s-OFDM 64QAM	1	1		16.12		17.2
10	DFT-s-OFDM 256QAM	1	1		13.97		15.2
10	CP-OFDM QPSK	1	1		17.38		18.2
10	CP-OFDM 16QAM	1	1		16.77		17.2
10	CP-OFDM 64QAM	1	1		14.92		15.2
10	CP-OFDM 256QAM	1	1		11.93		12.2
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	DFT-s-OFDM QPSK	1	1	18.61	18.89	18.90	20.2

n30 (PC3)(ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	DFT-s-OFDM PI/2 BPSK	1	1		16.13		17.4
10		1	26		16.20		
10		1	50		16.18		
10		25	1		15.51		17.4
10		25	12		16.19		
10		25	25		15.66		
10		50	0		15.53		
10	DFT-s-OFDM QPSK	1	1		16.02		17.4
10		1	26		16.23		
10		1	50		16.14		
10		25	1		15.48		17.4
10		25	12		16.15		
10		25	25		15.42		
10		50	0		16.11		
10	DFT-s-OFDM 16QAM	1	1		14.88		16.4
10	DFT-s-OFDM 64QAM	1	1		13.26		14.4
10	DFT-s-OFDM 256QAM	1	1		11.15		12.4
10	CP-OFDM QPSK	1	1		14.54		16.4
10	CP-OFDM 16QAM	1	1		13.96		15.4
10	CP-OFDM 64QAM	1	1		12.10		13.4
10	CP-OFDM 256QAM	1	1		9.13		10.4
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	DFT-s-OFDM QPSK	1	1	16.01	16.13	16.17	17.4

n38 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	17.24	17.33	17.36	18.5
40		1	53	17.09	16.99	17.05	
40		1	104	17.05	16.93	17.07	
40		50	1	16.73	16.70	16.71	18.5
40	DFT-s-OFDM QPSK	50	25	17.29	17.16	17.26	
40		50	50	16.57	16.47	16.56	
40		100	0	16.81	16.74	16.73	
40		1	1	17.35	17.39	17.42	18.5
40	DFT-s-OFDM 16QAM	1	53	17.06	16.98	17.02	
40		1	104	17.06	16.83	17.05	
40		50	1	16.56	16.52	16.53	18.5
40		50	25	17.28	17.30	17.31	
40	DFT-s-OFDM 64QAM	50	50	16.52	16.54	16.50	
40		100	0	17.30	17.30	17.25	
40	DFT-s-OFDM 256QAM	1	1	15.95	16.34	16.20	17.5
40	DFT-s-OFDM 64QAM	1	1	14.56	14.67	14.69	15.5
40	DFT-s-OFDM 256QAM	1	1	12.39	12.55	12.51	13.5
40	CP-OFDM QPSK	1	1	15.86	15.91	15.92	16.5
40	CP-OFDM 16QAM	1	1	15.24	15.25	15.33	15.5
40	CP-OFDM 64QAM	1	1	13.22	13.54	13.39	14.5
40	CP-OFDM 256QAM	1	1	10.38	10.57	10.23	11.5
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	DFT-s-OFDM QPSK	1	1	17.30	17.40	17.35	18.5
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	DFT-s-OFDM QPSK	1	1	17.19	17.31	17.25	18.5
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	DFT-s-OFDM QPSK	1	1	17.21	17.21	17.18	18.5
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	DFT-s-OFDM QPSK	1	1	17.24	17.24	17.19	18.5

n38 (PC3)(ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	15.60	15.71	15.72	16.7
40		1	53	15.45	15.48	15.41	
40		1	104	15.41	15.47	15.43	
40		50	1	15.09	15.21	15.07	16.7
40	DFT-s-OFDM QPSK	50	25	15.65	15.66	15.62	
40		50	50	14.93	15.01	14.92	
40		100	0	15.17	15.18	15.09	
40		1	1	15.71	15.74	15.78	16.7
40	DFT-s-OFDM 16QAM	1	53	15.42	15.58	15.38	
40		1	104	15.42	15.44	15.41	
40		50	1	14.82	14.79	14.79	16.7
40		50	25	15.64	15.64	15.67	
40	DFT-s-OFDM 64QAM	50	50	14.78	14.71	14.76	
40		100	0	15.55	15.56	15.49	
40	DFT-s-OFDM 256QAM	1	1	14.01	14.36	14.26	15.7
40	CP-OFDM QPSK	1	1	12.62	12.94	12.75	14.7
40	CP-OFDM 16QAM	1	1	10.45	10.51	10.57	11.7
40	CP-OFDM 64QAM	1	1	13.92	14.00	13.98	15.7
40	CP-OFDM 256QAM	1	1	13.30	12.43	13.39	13.7
40		1	1	11.28	11.46	11.45	12.7
40		1	1	8.44	8.52	8.33	9.7
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	DFT-s-OFDM QPSK	1	1	15.18	15.28	15.23	16.7
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	DFT-s-OFDM QPSK	1	1	15.37	15.49	15.52	16.7
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	DFT-s-OFDM QPSK	1	1	15.39	15.39	15.36	16.7
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	DFT-s-OFDM QPSK	1	1	15.42	15.42	15.37	16.7

n38 (PC3)(ANT5)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	16.2
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	15.04	15.16	15.16	16.2
40		1	53	14.89	14.86	14.85	
40		1	104	14.85	14.86	14.87	
40		50	1	14.53	14.53	14.51	16.2
40		50	25	15.09	15.02	15.06	
40		50	50	14.37	14.36	14.36	
40		100	0	14.61	14.59	14.53	
40	DFT-s-OFDM QPSK	1	1	15.15	15.19	15.22	16.2
40		1	53	14.86	14.86	14.82	
40		1	104	14.86	14.84	14.85	
40		50	1	14.36	14.31	14.33	16.2
40		50	25	15.08	15.04	15.11	
40		50	50	14.42	14.38	14.40	
40		100	0	14.93	14.90	14.97	
40	DFT-s-OFDM 16QAM	1	1	13.75	13.86	14.00	15.2
40	DFT-s-OFDM 64QAM	1	1	12.36	12.39	12.49	13.2
40	DFT-s-OFDM 256QAM	1	1	10.19	10.19	10.31	11.2
40	CP-OFDM QPSK	1	1	13.66	13.73	13.72	15.2
40	CP-OFDM 16QAM	1	1	13.04	13.14	13.13	14.2
40	CP-OFDM 64QAM	1	1	11.02	11.15	11.19	12.2
40	CP-OFDM 256QAM	1	1	8.18	8.23	8.07	9.2
Channel				517000	519000	521000	16.2
Frequency (MHz)				2585	2595	2605	
30	DFT-s-OFDM QPSK	1	1	15.10	15.20	15.15	16.2
Channel				516000	519000	522000	16.2
Frequency (MHz)				2580	2595	2610	
20	DFT-s-OFDM QPSK	1	1	14.99	15.11	15.05	16.2
Channel				515500	519000	522500	16.2
Frequency (MHz)				2577.5	2595	2612.5	
15	DFT-s-OFDM QPSK	1	1	15.01	15.01	14.98	16.2
Channel				515000	519000	523000	16.2
Frequency (MHz)				2575	2595	2615	
10	DFT-s-OFDM QPSK	1	1	15.04	15.04	14.99	16.2

n38 (PC3)(ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	16.46	16.59	16.58	17.3
40		1	53	16.31	16.50	16.27	
40		1	104	16.27	16.61	16.29	
40		50	1	15.95	16.30	15.93	17.3
40	DFT-s-OFDM QPSK	50	25	16.51	16.61	16.48	
40		50	50	15.79	16.10	15.78	
40		100	0	16.03	16.31	15.95	
40	DFT-s-OFDM 16QAM	1	1	16.57	16.61	16.64	17.3
40		1	53	16.28	16.57	16.24	
40		1	104	16.28	16.56	16.27	
40		50	1	15.48	15.75	15.45	17.3
40	DFT-s-OFDM 64QAM	50	25	16.50	16.52	16.53	
40		50	50	15.54	15.67	15.52	
40		100	0	16.16	16.29	16.26	
40	DFT-s-OFDM 256QAM	1	1	15.17	15.71	15.42	16.3
40	CP-OFDM QPSK	1	1	13.78	14.34	13.91	15.3
40	CP-OFDM 16QAM	1	1	11.61	12.02	11.73	12.3
40	CP-OFDM 64QAM	1	1	15.08	15.21	15.14	16.3
40	CP-OFDM 256QAM	1	1	14.46	14.47	14.55	15.3
40		1	1	12.44	12.94	12.61	14.3
40		1	1	9.20	9.12	9.15	10.3
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	DFT-s-OFDM QPSK	1	1	16.52	16.62	16.57	17.3
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	DFT-s-OFDM QPSK	1	1	16.41	16.53	16.47	17.3
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	DFT-s-OFDM QPSK	1	1	16.43	16.43	16.40	17.3
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	DFT-s-OFDM QPSK	1	1	16.46	16.46	16.41	17.3

n41 (PC2)(ANT0)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	17.5
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	15.91	16.34	16.28	16.30	16.24	17.5
100		1	136	16.07	16.23	16.06	15.84	16.15	
100		1	271	16.31	15.95	15.74	15.59	16.08	
100		135	1	15.53	15.59	15.59	15.59	15.55	17.5
100		135	67	16.09	16.30	16.14	15.89	16.15	
100		135	136	15.59	15.68	15.68	15.53	15.55	
100		270	0	15.57	15.53	15.58	15.55	15.50	
100	DFT-s-OFDM QPSK	1	1	16.18	16.26	16.15	16.06	16.27	17.5
100		1	136	16.20	16.35	16.36	16.34	16.27	
100		1	271	16.30	15.89	15.74	15.73	15.54	
100		135	1	15.53	15.65	15.60	15.58	15.66	17.5
100		135	67	16.16	16.31	16.33	16.15	16.26	
100		135	136	15.59	15.69	15.50	15.51	15.59	
100		270	0	16.26	16.24	16.28	16.21	16.18	
100	DFT-s-OFDM 16QAM	1	1	14.67	14.80	14.80	14.78	14.40	15.5
100	DFT-s-OFDM 64QAM	1	1	13.51	13.97	13.89	13.63	13.49	14.5
100	DFT-s-OFDM 256QAM	1	1	12.38	12.65	12.63	12.71	12.29	13.5
100	CP-OFDM QPSK	1	1	14.37	14.69	14.66	14.75	14.60	15.5
100	CP-OFDM 16QAM	1	1	13.88	14.06	14.18	13.98	14.16	14.5
100	CP-OFDM 64QAM	1	1	12.59	12.97	12.93	12.97	12.61	13.5
100	CP-OFDM 256QAM	1	1	8.55	8.50	8.52	8.40	8.50	9.5
Channel				508200	513402	518598	523800	528996	17.5
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	15.74	16.03	16.14	16.26	16.23	17.5
Channel				507204	512904	518598	524298	529998	17.5
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	15.79	16.06	16.17	16.29	16.34	17.5
Channel				506202	512400	518598	524796	531000	17.5
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	15.71	15.95	16.18	16.22	16.19	17.5
Channel				505200	511902	518598	525798	531996	17.5
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	15.63	16.08	16.12	16.23	16.16	17.5
Channel				504204	511404	518598	525798	532998	17.5
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	15.98	16.17	16.30	16.31	16.31	17.5
Channel				503202	510900	518598	526296	534000	17.5
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	15.81	16.00	16.16	16.16	15.96	17.5
Channel				502200	510402	518598	526800	534996	17.5
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	15.95	16.09	16.33	16.23	15.98	17.5
Channel				501204	509904	518598	527298	535998	17.5
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	15.79	15.99	16.07	16.09	15.80	17.5

n41 (PC2) (ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	17.9
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	16.88	17.07	17.07	17.09	17.10	17.9
100		1	136	16.99	16.97	17.03	17.05	16.84	
100		1	271	17.16	17.13	16.92	16.60	16.47	
100		135	1	15.98	15.99	16.02	15.98	15.98	17.9
100		135	67	17.05	17.09	17.18	17.09	17.08	
100		135	136	15.91	15.93	16.02	15.97	16.02	
100		270	0	15.98	15.94	16.02	15.94	16.03	
100	DFT-s-OFDM QPSK	1	1	16.97	16.95	17.11	17.17	17.12	17.9
100		1	136	17.21	17.17	17.22	17.16	17.18	
100		1	271	17.14	16.99	16.97	16.65	16.52	
100		135	1	15.96	16.04	16.08	16.12	16.09	17.9
100		135	67	17.05	17.06	17.15	17.05	17.08	
100		135	136	16.05	16.15	16.01	15.90	16.03	
100		270	0	16.79	16.64	16.86	16.79	16.74	
100	DFT-s-OFDM 16QAM	1	1	16.00	15.96	16.05	16.11	16.10	16.9
100	DFT-s-OFDM 64QAM	1	1	15.00	15.02	15.16	15.18	15.06	15.9
100	DFT-s-OFDM 256QAM	1	1	13.81	13.83	13.95	13.92	13.92	14.9
100	CP-OFDM QPSK	1	1	16.13	16.17	16.18	16.27	16.31	16.9
100	CP-OFDM 16QAM	1	1	14.53	14.51	14.52	14.71	14.60	15.9
100	CP-OFDM 64QAM	1	1	14.59	14.64	14.72	14.73	14.77	15.9
100	CP-OFDM 256QAM	1	1	11.31	11.35	11.32	11.45	11.49	12.9
Channel				508200	513402	518598	523800	528996	17.9
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	17.06	17.07	17.08	17.17	17.16	17.9
Channel				507204	512904	518598	524298	529998	17.9
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	17.03	17.16	17.19	17.18	17.15	17.9
Channel				506202	512400	518598	524796	531000	17.9
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	16.92	17.01	17.10	17.17	17.02	17.9
Channel				505200	511902	518598	525798	531996	17.9
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	16.88	17.09	17.15	17.16	16.90	17.9
Channel				504204	511404	518598	525798	532998	17.9
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	17.02	17.20	17.18	17.18	16.92	17.9
Channel				503202	510900	518598	526296	534000	17.9
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	16.84	17.03	17.18	16.93	16.64	17.9
Channel				502200	510402	518598	526800	534996	17.9
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	16.98	17.13	17.15	17.09	16.50	17.9
Channel				501204	509904	518598	527298	535998	17.9
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	16.90	17.12	17.02	16.93	16.38	17.9

n41 (PC2)(ANT5)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	20
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	18.66	18.78	18.84	18.96	18.99	20
100		1	136	18.82	18.86	18.97	18.89	18.90	
100		1	271	19.06	19.00	19.03	18.75	18.83	
100		135	1	18.08	18.18	18.12	18.28	18.20	20
100		135	67	18.84	18.93	19.08	19.02	18.90	
100		135	136	18.14	18.15	18.20	18.12	18.10	
100		270	0	18.02	18.18	18.24	18.29	18.15	
100	DFT-s-OFDM QPSK	1	1	18.65	18.69	18.76	18.47	19.02	20
100		1	136	18.93	19.02	19.09	19.00	19.02	
100		1	271	19.05	19.00	19.02	18.71	18.19	
100		135	1	18.08	18.09	18.14	18.27	18.21	20
100		135	67	18.71	18.88	18.92	18.90	18.81	
100		135	136	18.14	18.23	18.18	18.09	18.04	
100		270	0	18.61	18.79	18.82	18.88	18.77	
100	DFT-s-OFDM 16QAM	1	1	17.38	17.61	17.67	17.82	17.91	19
100	DFT-s-OFDM 64QAM	1	1	16.22	16.69	16.79	16.89	17.00	18
100	DFT-s-OFDM 256QAM	1	1	14.49	15.55	15.66	15.68	15.80	17
100	CP-OFDM QPSK	1	1	17.08	17.83	18.01	18.06	18.11	19
100	CP-OFDM 16QAM	1	1	16.59	17.34	17.41	17.58	17.67	18
100	CP-OFDM 64QAM	1	1	15.75	16.36	16.44	16.58	16.57	17
100	CP-OFDM 256QAM	1	1	13.00	13.09	12.99	13.27	13.13	14
Channel				508200	513402	518598	523800	528996	20
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	18.49	18.78	18.89	19.01	18.98	20
Channel				507204	512904	518598	524298	529998	20
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	18.54	18.81	18.92	19.04	18.99	20
Channel				506202	512400	518598	524796	531000	20
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	18.46	18.70	18.93	18.97	18.94	20
Channel				505200	511902	518598	525798	531996	20
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	18.38	18.83	18.87	18.98	18.91	20
Channel				504204	511404	518598	525798	532998	20
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	18.73	18.92	19.05	19.06	18.96	20
Channel				503202	510900	518598	526296	534000	20
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	18.56	18.75	18.81	18.91	18.71	20
Channel				502200	510402	518598	526800	534996	20
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	18.70	18.84	18.95	18.98	18.73	20
Channel				501204	509904	518598	527298	535998	20
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	18.54	18.74	18.82	18.84	18.55	20

n41 (PC2)(ANT6)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	18.1
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	16.93	17.26	17.18	17.21	17.26	18.1
100		1	136	17.09	17.19	17.25	17.27	17.17	
100		1	271	17.33	17.13	17.30	17.04	17.10	
100		135	1	16.15	16.15	16.14	16.21	16.27	18.1
100		135	67	17.11	17.27	17.35	17.32	17.17	
100		135	136	16.21	16.19	16.23	16.16	16.07	
100		270	0	16.19	16.22	16.27	16.26	16.12	
100	DFT-s-OFDM QPSK	1	1	16.92	17.26	17.13	17.19	17.29	18.1
100		1	136	17.20	17.28	17.36	17.31	17.29	
100		1	271	17.32	17.12	17.35	17.10	16.46	
100		135	1	16.25	16.18	16.08	16.27	16.38	18.1
100		135	67	17.18	17.29	17.34	17.29	17.18	
100		135	136	16.31	16.24	16.15	16.23	16.21	
100		270	0	17.22	17.04	17.28	16.91	16.91	
100	DFT-s-OFDM 16QAM	1	1	15.58	15.62	15.95	16.00	16.11	17.1
100	DFT-s-OFDM 64QAM	1	1	14.42	14.59	14.50	14.49	15.20	15.1
100	DFT-s-OFDM 256QAM	1	1	12.69	13.60	13.45	13.52	14.00	14.1
100	CP-OFDM QPSK	1	1	15.28	15.77	15.66	15.28	16.31	16.1
100	CP-OFDM 16QAM	1	1	14.79	14.32	14.14	14.06	15.87	15.1
100	CP-OFDM 64QAM	1	1	13.95	14.58	14.46	14.59	14.77	15.1
100	CP-OFDM 256QAM	1	1	11.20	10.99	10.86	10.87	11.33	12.1
Channel				508200	513402	518598	523800	528996	18.1
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	16.76	17.05	17.16	17.28	17.25	18.1
Channel				507204	512904	518598	524298	529998	18.1
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	16.81	17.08	17.19	17.31	16.81	18.1
Channel				506202	512400	518598	524796	531000	18.1
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	16.73	16.97	17.20	17.24	17.21	18.1
Channel				505200	511902	518598	525798	531996	18.1
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	16.65	17.10	17.14	17.25	17.18	18.1
Channel				504204	511404	518598	525798	532998	18.1
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	17.00	17.19	17.32	17.33	17.33	18.1
Channel				503202	510900	518598	526296	534000	18.1
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	16.83	17.02	17.18	17.18	16.98	18.1
Channel				502200	510402	518598	526800	534996	18.1
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	16.97	17.11	16.90	17.25	17.00	18.1
Channel				501204	509904	518598	527298	535998	18.1
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	16.81	17.01	17.09	17.11	16.82	18.1

n41 (PC3)(ANT0)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	17.2
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	16.09	16.42	16.34	16.37	16.42	17.2
100		1	136	16.25	16.35	16.41	16.43	16.33	
100		1	271	16.49	16.29	16.46	16.20	16.26	
100		135	1	15.71	15.81	15.80	15.87	15.83	17.2
100		135	67	16.27	16.43	16.51	16.48	16.33	
100		135	136	15.77	15.85	15.89	15.82	15.73	
100		270	0	15.65	15.88	15.93	15.92	15.78	
100	DFT-s-OFDM QPSK	1	1	16.08	16.42	16.29	16.35	16.45	17.2
100		1	136	16.36	16.44	16.52	16.47	16.45	
100		1	271	16.48	16.28	16.51	16.26	15.62	
100		135	1	15.71	15.64	15.54	15.73	15.84	17.2
100		135	67	16.34	16.45	16.50	16.45	16.34	
100		135	136	15.77	15.70	15.61	15.69	15.67	
100		270	0	16.38	16.20	16.44	16.40	16.40	
100	DFT-s-OFDM 16QAM	1	1	14.74	14.78	15.11	15.16	15.27	15.5
100	DFT-s-OFDM 64QAM	1	1	13.58	13.75	13.66	13.65	14.36	14.5
100	DFT-s-OFDM 256QAM	1	1	11.85	12.76	12.61	12.68	13.16	13.5
100	CP-OFDM QPSK	1	1	14.44	14.93	14.82	14.44	15.47	15.5
100	CP-OFDM 16QAM	1	1	13.95	13.48	13.30	13.22	13.40	14.5
100	CP-OFDM 64QAM	1	1	13.11	13.74	13.62	13.75	13.93	14.5
100	CP-OFDM 256QAM	1	1	10.36	10.15	10.02	10.03	10.49	11.5
Channel				508200	513402	518598	523800	528996	17.2
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	15.92	16.21	16.32	16.44	16.41	17.2
Channel				507204	512904	518598	524298	529998	17.2
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	15.97	16.24	16.35	16.47	16.41	17.2
Channel				506202	512400	518598	524796	531000	17.2
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	15.89	16.13	16.36	16.40	16.37	17.2
Channel				505200	511902	518598	525798	531996	17.2
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	15.81	16.26	16.30	16.41	16.34	17.2
Channel				504204	511404	518598	525798	532998	17.2
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	16.16	16.35	16.48	16.49	16.49	17.2
Channel				503202	510900	518598	526296	534000	17.2
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	15.99	16.18	16.34	16.34	16.14	17.2
Channel				502200	510402	518598	526800	534996	17.2
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	16.13	16.27	16.42	16.41	16.16	17.2
Channel				501204	509904	518598	527298	535998	17.2
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	15.97	16.17	16.25	16.27	15.98	17.2

n41 (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	15.4
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	13.95	14.28	14.20	14.23	14.28	15.4
100		1	136	14.11	14.21	14.27	14.29	14.19	
100		1	271	14.35	14.15	14.32	14.06	14.12	
100		135	1	13.67	13.67	13.66	13.73	13.79	15.4
100		135	67	14.13	14.29	14.37	14.34	14.19	
100		135	136	13.73	13.71	13.75	13.68	13.69	
100		270	0	13.61	13.74	13.79	13.78	13.74	
100	DFT-s-OFDM QPSK	1	1	13.94	14.28	14.15	14.21	14.31	15.4
100		1	136	14.22	14.30	14.38	14.33	14.31	
100		1	271	14.34	14.14	14.37	14.12	13.48	
100		135	1	13.67	13.60	13.50	13.69	13.80	15.4
100		135	67	14.20	14.31	14.36	14.31	14.20	
100		135	136	13.73	13.66	13.57	13.65	13.63	
100		270	0	14.24	14.06	14.30	13.93	13.93	
100	DFT-s-OFDM 16QAM	1	1	12.60	12.64	12.97	13.02	13.13	13.4
100	DFT-s-OFDM 64QAM	1	1	11.44	11.61	11.52	11.51	12.22	12.4
100	DFT-s-OFDM 256QAM	1	1	9.71	10.62	10.47	10.54	11.02	11.4
100	CP-OFDM QPSK	1	1	12.30	12.79	12.68	12.30	12.60	13.4
100	CP-OFDM 16QAM	1	1	11.81	11.34	11.16	11.08	11.26	12.4
100	CP-OFDM 64QAM	1	1	10.97	11.60	11.48	11.61	11.79	12.4
100	CP-OFDM 256QAM	1	1	7.42	8.01	7.88	7.89	7.75	9.4
Channel				508200	513402	518598	523800	528996	15.4
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	13.78	14.07	14.18	14.30	14.27	15.4
Channel				507204	512904	518598	524298	529998	15.4
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	13.83	14.10	14.21	14.33	14.32	15.4
Channel				506202	512400	518598	524796	531000	15.4
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	13.75	13.99	14.22	14.26	14.23	15.4
Channel				505200	511902	518598	525798	531996	15.4
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	13.67	14.12	14.16	14.27	14.20	15.4
Channel				504204	511404	518598	525798	532998	15.4
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	14.02	14.21	14.34	14.35	14.35	15.4
Channel				503202	510900	518598	526296	534000	15.4
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	13.85	14.04	14.20	14.20	14.00	15.4
Channel				502200	510402	518598	526800	534996	15.4
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	13.99	14.13	14.30	14.27	14.02	15.4
Channel				501204	509904	518598	527298	535998	15.4
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	13.83	14.03	14.11	14.13	13.84	15.4

n41 (PC3)(ANT5)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	17
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	15.40	15.48	15.54	15.73	15.73	17
100		1	136	15.47	15.63	15.64	15.62	15.54	
100		1	271	15.71	15.65	15.55	15.32	15.44	
100		135	1	15.45	15.56	15.60	15.67	15.62	17
100		135	67	15.56	15.72	15.73	15.58	15.55	
100		135	136	15.67	15.69	15.63	15.48	15.36	
100		270	0	15.53	15.67	15.70	15.66	15.63	
100	DFT-s-OFDM QPSK	1	1	15.38	15.39	15.51	15.71	15.70	17
100		1	136	15.62	15.65	15.77	15.65	15.58	
100		1	271	15.68	15.68	15.58	15.55	15.56	
100		135	1	15.36	15.46	15.61	15.68	15.63	17
100		135	67	15.65	15.70	15.75	15.74	15.66	
100		135	136	15.72	15.70	15.57	15.59	15.54	
100		270	0	15.47	15.68	15.69	15.67	15.62	
100	DFT-s-OFDM 16QAM	1	1	15.34	15.35	15.42	15.65	15.68	17
100	DFT-s-OFDM 64QAM	1	1	15.38	15.44	15.53	15.68	15.70	17
100	DFT-s-OFDM 256QAM	1	1	13.83	14.24	14.35	14.51	14.54	16
100	CP-OFDM QPSK	1	1	15.48	15.53	15.69	15.67	15.70	17
100	CP-OFDM 16QAM	1	1	15.48	15.53	15.66	15.63	15.70	17
100	CP-OFDM 64QAM	1	1	14.88	15.02	15.16	15.32	15.33	16
100	CP-OFDM 256QAM	1	1	11.74	11.79	11.85	12.06	12.05	13
Channel				508200	513402	518598	523800	528996	17
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	15.44	15.49	15.44	15.57	15.65	17
Channel				507204	512904	518598	524298	529998	17
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	15.49	15.51	15.60	15.66	15.67	17
Channel				506202	512400	518598	524796	531000	17
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	15.44	15.53	15.59	15.64	15.52	17
Channel				505200	511902	518598	525798	531996	17
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	15.36	15.53	15.64	15.66	15.57	17
Channel				504204	511404	518598	525798	532998	17
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	15.53	15.68	15.70	15.73	15.60	17
Channel				503202	510900	518598	526296	534000	17
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	15.32	15.47	15.46	15.51	15.30	17
Channel				502200	510402	518598	526800	534996	17
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	15.42	15.52	15.73	15.57	15.35	17
Channel				501204	509904	518598	527298	535998	17
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	15.25	15.48	15.42	15.41	15.32	17

n48 (PC3)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				638000	639834	641666	643500	645332	15.8
Frequency (MHz)				3570	3597.51	3624.99	3652.5	3679.98	
40	DFT-s-OFDM PI/2 BPSK	1	1	13.14	13.65	14.29	14.49	14.58	15.8
40		1	53	13.58	14.25	14.28	14.59	14.69	
40		1	104	13.96	14.26	14.54	14.63	14.55	
40		50	1	13.86	13.84	13.98	14.03	14.16	15.8
40		50	25	13.95	14.37	14.41	14.51	14.41	
40		50	50	13.89	13.94	13.99	14.16	14.37	
40		100	0	13.85	13.89	13.98	14.11	14.25	
40	DFT-s-OFDM QPSK	1	1	14.53	14.61	14.73	14.57	14.55	15.8
40		1	53	14.04	14.14	14.16	14.50	14.62	
40		1	104	14.16	14.24	14.48	14.59	14.41	
40		50	1	14.07	14.06	14.11	14.11	14.04	15.8
40		50	25	14.41	14.41	14.47	14.45	14.42	
40		50	50	14.02	14.01	14.17	14.14	14.03	
40		100	0	14.42	14.32	14.40	14.31	14.44	
40	DFT-s-OFDM 16QAM	1	1	12.87	13.07	13.15	12.91	13.06	14.8
40	DFT-s-OFDM 64QAM	1	1	11.54	11.41	11.66	11.52	11.61	12.8
40	DFT-s-OFDM 256QAM	1	1	8.38	8.84	9.53	9.31	9.41	10.8
40	CP-OFDM QPSK	1	1	11.63	12.09	12.73	12.59	12.66	13.8
40	CP-OFDM 16QAM	1	1	11.62	11.85	12.18	12.12	12.22	13.8
40	CP-OFDM 64QAM	1	1	9.13	9.62	10.25	10.14	10.15	10.8
40	CP-OFDM 256QAM	1	1	7.03	8.10	7.48	7.34	7.45	8.8
Channel				637668	639668	641666	643666	645666	15.8
Frequency (MHz)				3565.02	3595.02	3624.99	3654.99	3684.99	
30	DFT-s-OFDM QPSK	1	1	14.35	13.77	14.33	14.56	14.68	15.8
Channel				637334	639500	641666	643832	646000	15.8
Frequency (MHz)				3560.01	3592.5	3624.99	3657.48	3690	
20	DFT-s-OFDM QPSK	1	1	14.31	13.70	14.35	14.48	14.66	15.8
Channel				637168	639418	641666	643916	646166	15.8
Frequency (MHz)				3557.52	3591.27	3624.99	3658.74	3692.49	
15	DFT-s-OFDM QPSK	1	1	14.32	14.30	14.40	14.30	14.40	15.8
Channel				637000	639334	641666	644000	646332	15.8
Frequency (MHz)				3555	3590.01	3624.99	3660	3694.98	
10	DFT-s-OFDM QPSK	1	1	14.42	14.40	14.42	14.45	14.30	15.8

n66 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	17.7
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	16.79	16.89	16.85	17.7
40		1	108	16.73	16.72	16.54	
40		1	214	16.72	16.73	16.64	
40		108	1	16.25	16.25	16.15	17.7
40		108	54	16.83	16.77	16.65	
40		108	108	16.24	16.16	16.12	
40		216	0	16.23	16.28	16.18	
40	DFT-s-OFDM QPSK	1	1	16.90	16.85	16.88	17.7
40		1	108	16.70	16.66	16.44	
40		1	214	16.81	16.75	16.58	
40		108	1	15.95	15.78	15.92	17.7
40		108	54	16.83	16.81	16.82	
40		108	108	15.96	15.73	15.87	
40		216	0	16.80	16.72	16.69	
40	DFT-s-OFDM 16QAM	1	1	15.71	15.78	15.71	16.7
40	DFT-s-OFDM 64QAM	1	1	14.06	14.14	14.07	15.7
40	DFT-s-OFDM 256QAM	1	1	11.67	11.76	11.81	12.7
40	CP-OFDM QPSK	1	1	15.48	15.31	15.33	16.2
40	CP-OFDM 16QAM	1	1	14.74	14.77	14.64	15.7
40	CP-OFDM 64QAM	1	1	12.72	12.73	12.72	13.7
40	CP-OFDM 256QAM	1	1	9.84	9.81	9.72	10.7
Channel				345000	349000	353000	17.7
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	16.79	16.81	16.72	17.7
Channel				344000	349000	354000	17.7
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	16.73	16.68	16.64	17.7
Channel				343500	349000	354500	17.7
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	16.87	16.82	16.71	17.7
Channel				343000	349000	355000	17.7
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	16.82	16.86	16.65	17.7
Channel				342500	349000	355500	17.7
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	16.68	16.73	16.57	17.7

n66 (PC3)(ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	19.3
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	18.06	18.15	18.12	19.3
40		1	108	18.00	17.95	17.81	
40		1	214	17.99	18.11	17.91	
40		108	1	17.52	17.53	17.42	19.3
40		108	54	18.10	18.05	17.92	
40		108	108	17.51	17.51	17.39	
40		216	0	17.50	17.54	17.45	
40	DFT-s-OFDM QPSK	1	1	18.19	18.18	18.15	19.3
40		1	108	17.97	17.93	17.71	
40		1	214	18.08	18.06	17.85	
40		108	1	17.42	17.39	17.39	19.3
40		108	54	18.12	18.11	18.09	
40		108	108	17.43	17.37	17.34	
40		216	0	18.07	18.02	17.98	
40	DFT-s-OFDM 16QAM	1	1	16.98	17.08	16.98	18.3
40	DFT-s-OFDM 64QAM	1	1	15.33	15.46	15.34	16.3
40	DFT-s-OFDM 256QAM	1	1	12.94	13.10	13.08	14.3
40	CP-OFDM QPSK	1	1	16.75	16.67	16.60	17.3
40	CP-OFDM 16QAM	1	1	16.01	16.09	15.91	16.3
40	CP-OFDM 64QAM	1	1	13.99	14.10	13.99	15.3
40	CP-OFDM 256QAM	1	1	11.11	11.15	10.99	12.3
Channel				345000	349000	353000	19.3
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	18.06	18.08	17.99	19.3
Channel				344000	349000	354000	19.3
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	18.00	17.95	17.91	19.3
Channel				343500	349000	354500	19.3
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	18.14	18.09	17.98	19.3
Channel				343000	349000	355000	19.3
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	18.09	18.13	17.92	19.3
Channel				342500	349000	355500	19.3
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	17.95	18.00	17.84	19.3

n66 (PC3)(ANT5)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	18.1
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	16.86	16.95	16.92	18.1
40		1	108	16.80	16.72	16.61	
40		1	214	16.79	16.75	16.71	
40		108	1	16.32	16.30	16.22	18.1
40		108	54	16.90	16.86	16.72	
40		108	108	16.31	16.21	16.19	
40		216	0	16.30	16.36	16.25	
40	DFT-s-OFDM QPSK	1	1	16.97	16.92	16.95	18.1
40		1	108	16.77	16.73	16.51	
40		1	214	16.88	16.69	16.65	
40		108	1	16.22	16.21	16.19	18.1
40		108	54	16.90	16.84	16.89	
40		108	108	16.23	16.23	16.14	
40		216	0	16.82	16.78	16.77	
40	DFT-s-OFDM 16QAM	1	1	15.88	15.81	15.88	17.1
40	DFT-s-OFDM 64QAM	1	1	14.13	14.08	14.14	15.1
40	DFT-s-OFDM 256QAM	1	1	11.74	11.83	11.88	13.1
40	CP-OFDM QPSK	1	1	15.55	15.55	15.40	16.1
40	CP-OFDM 16QAM	1	1	14.81	14.71	14.71	15.1
40	CP-OFDM 64QAM	1	1	12.79	12.80	12.79	14.1
40	CP-OFDM 256QAM	1	1	9.91	9.91	9.79	11.1
Channel				345000	349000	353000	18.1
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	16.86	16.88	16.79	18.1
Channel				344000	349000	354000	18.1
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	16.80	16.75	16.71	18.1
Channel				343500	349000	354500	18.1
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	16.94	16.89	16.78	18.1
Channel				343000	349000	355000	18.1
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	16.89	16.93	16.72	18.1
Channel				342500	349000	355500	18.1
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	16.75	16.80	16.64	18.1

n66 (PC3)(ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	17
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	16.06	16.12	16.12	17
40		1	108	16.00	15.99	15.81	
40		1	214	15.99	16.14	15.91	
40		108	1	15.52	15.57	15.42	17
40		108	54	16.10	16.11	15.92	
40		108	108	15.51	15.56	15.39	
40		216	0	15.50	15.58	15.45	
40	DFT-s-OFDM QPSK	1	1	16.15	16.12	16.10	17
40		1	108	15.97	15.97	15.71	
40		1	214	16.08	16.09	15.85	
40		108	1	15.22	15.15	15.19	17
40		108	54	16.12	16.11	16.09	
40		108	108	15.23	15.01	15.14	
40		216	0	16.09	16.05	16.02	
40	DFT-s-OFDM 16QAM	1	1	14.98	15.10	14.98	16
40	DFT-s-OFDM 64QAM	1	1	13.33	13.49	13.34	14
40	DFT-s-OFDM 256QAM	1	1	10.94	11.13	11.08	12
40	CP-OFDM QPSK	1	1	14.75	14.81	14.60	16
40	CP-OFDM 16QAM	1	1	14.01	14.24	13.91	15
40	CP-OFDM 64QAM	1	1	11.99	12.15	11.99	13
40	CP-OFDM 256QAM	1	1	9.21	9.28	8.99	10
Channel				345000	349000	353000	17
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	16.06	16.08	15.99	17
Channel				344000	349000	354000	17
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	16.00	15.95	15.91	17
Channel				343500	349000	354500	17
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	16.14	16.09	15.98	17
Channel				343000	349000	355000	17
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	16.09	16.13	15.92	17
Channel				342500	349000	355500	17
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	15.95	16.00	15.84	17

n77(3450-3550MHz) (PC2)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			19.39			20.4
100		1	136			19.45			
100		1	271			19.20			
100		135	1			19.20			
100		135	67			19.46			
100	DFT-s-OFDM QPSK	135	136			18.59			20.4
100		270	0			19.16			
100		1	1			19.48			
100		1	136			19.39			20.4
100		1	271			19.17			
100	DFT-s-OFDM 16QAM	135	1			18.86			
100		135	67			19.38			20.4
100		135	136			18.49			
100		270	0			19.33			
100		1	1			18.92			19.4
100	DFT-s-OFDM 64QAM	1	1			17.48			18.4
100	DFT-s-OFDM 256QAM	1	1			15.31			16.4
100	CP-OFDM QPSK	1	1			18.67			20.4
100	CP-OFDM 16QAM	1	1			18.10			19.4
100	CP-OFDM 64QAM	1	1			16.13			17.4
100	CP-OFDM 256QAM	1	1			13.28			14.4
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	19.30	19.29	19.27	19.22	19.29	20.4
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	19.32	19.26	19.26	19.17	19.20	20.4
Channel				632334	632634	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	19.31	19.23	19.28	19.18	19.11	20.4
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	19.13	19.10	18.99	19.00	18.97	20.4
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	19.35	19.33	19.26	19.19	19.13	20.4
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	19.26	19.24	19.03	18.95	18.72	20.4
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	19.25	19.24	19.14	19.00	18.74	20.4
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	19.10	19.00	18.95	18.91	18.71	20.4
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	19.04	19.07	19.01	18.59	18.68	20.4
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	19.01	19.04	19.06	18.53	18.69	20.4

n77(3700-3980MHz) (PC2)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	20.4
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	19.15	19.53	19.56	19.57	19.21	20.4
100		1	136	19.31	19.47	19.58	19.58	18.83	
100		1	271	19.34	19.53	19.50	19.36	19.45	
100		135	1	19.03	18.86	18.92	18.82	18.43	20.4
100		135	67	19.31	19.43	19.57	19.57	18.88	
100		135	136	18.69	18.93	18.85	18.84	18.63	
100		270	0	18.85	18.94	19.22	19.14	18.52	
100	DFT-s-OFDM QPSK	1	1	19.45	19.54	19.62	19.57	19.44	20.4
100		1	136	19.32	19.41	19.54	19.50	19.47	
100		1	271	19.34	19.55	19.55	19.23	19.46	
100		135	1	18.46	18.47	18.52	18.41	18.49	20.4
100		135	67	19.41	19.47	19.56	19.50	19.49	
100		135	136	18.55	18.66	18.53	18.51	18.44	
100		270	0	19.26	19.38	19.54	19.53	19.50	
100	DFT-s-OFDM 16QAM	1	1	18.16	18.33	18.37	18.49	18.20	19.4
100	DFT-s-OFDM 64QAM	1	1	16.67	17.05	17.06	17.16	16.91	18.4
100	DFT-s-OFDM 256QAM	1	1	14.56	14.77	14.93	14.91	14.72	15.4
100	CP-OFDM QPSK	1	1	17.92	18.10	18.11	18.23	17.84	19.4
100	CP-OFDM 16QAM	1	1	17.11	17.59	17.63	17.75	17.37	18.4
100	CP-OFDM 64QAM	1	1	15.15	15.62	15.65	15.82	15.37	17.4
100	CP-OFDM 256QAM	1	1	12.50	12.84	12.84	12.99	12.74	13.4
Channel				633000	633168	633334	633500	633666	20.4
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	19.45	19.44	19.42	19.37	19.44	20.4
Channel				632668	633000	633334	633666	634000	20.4
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	19.47	19.41	19.41	19.32	19.35	20.4
Channel				632334	632834	633334	633832	634332	20.4
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	19.46	19.38	19.43	19.33	19.26	20.4
Channel				632000	632668	633334	634000	634666	20.4
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	19.28	19.25	19.14	19.15	19.12	20.4
Channel				631668	632500	633334	634166	635000	20.4
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	19.50	19.48	19.56	19.34	19.28	20.4
Channel				631334	632334	633334	634332	635332	20.4
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	19.41	19.39	19.18	19.10	18.87	20.4
Channel				631000	632168	633334	634500	635666	20.4
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	19.40	19.39	19.29	19.15	18.89	20.4
Channel				630668	632000	633334	634666	636000	20.4
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	19.25	19.15	19.10	19.06	18.86	20.4
Channel				630500	631916	633334	634750	636166	20.4
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	19.19	19.22	19.16	18.89	18.83	20.4
Channel				630334	631834	633334	634834	636332	20.4
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	19.16	19.19	19.21	18.83	18.84	21.9

n77(3450-3550MHz) (PC2)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			18.7
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			17.66			18.7
100		1	136			17.60			
100		1	271			17.26			
100		135	1			17.29			18.7
100		135	67			17.65			
100		135	136			16.89			
100	DFT-s-OFDM QPSK	270	0			17.14			18.7
100		1	1			17.69			
100		1	136			17.56			
100		1	271			17.23			18.7
100		135	1			16.94			
100		135	67			17.60			
100	DFT-s-OFDM 16QAM	135	136			16.99			18.7
100		270	0			17.51			
100	DFT-s-OFDM 64QAM	1	1			16.46			17.7
100	DFT-s-OFDM 256QAM	1	1			15.59			16.7
100	CP-OFDM QPSK	1	1			13.59			14.7
100	CP-OFDM 16QAM	1	1			16.62			17.7
100	CP-OFDM 64QAM	1	1			15.98			16.7
100	CP-OFDM 256QAM	1	1			14.01			14.7
100		1	1			11.25			11.7
Channel				633000	633168	633334	633500	633666	18.7
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	17.61	17.60	17.58	17.53	17.60	18.7
Channel				632668	633000	633334	633666	634000	18.7
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	17.63	17.57	17.57	17.48	17.51	18.7
Channel				632334	632834	633334	633832	634332	18.7
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	17.62	17.54	17.59	17.49	17.42	18.7
Channel				632000	632668	633334	634000	634666	18.7
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	17.44	17.41	17.30	17.31	17.28	18.7
Channel				631668	632500	633334	634166	635000	18.7
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	17.66	17.64	17.57	17.50	17.44	18.7
Channel				631334	632334	633334	634332	635332	18.7
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	17.57	17.55	17.34	17.26	17.23	18.7
Channel				631000	632168	633334	634500	635666	18.7
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	17.56	17.55	17.45	17.31	17.25	18.7
Channel				630668	632000	633334	634666	636000	18.7
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	17.41	17.31	17.26	17.22	17.22	18.7
Channel				630500	631916	633334	634750	636166	18.7
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	17.35	17.38	17.32	17.20	17.29	18.7
Channel				630334	631834	633334	634834	636332	26.2
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	17.62	17.65	17.67	17.14	17.30	26.2

n77(3700-3980MHz) (PC2)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	16.7
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	15.15	15.33	15.39	15.49	15.21	16.7
100		1	136	15.31	15.29	15.43	15.14	14.83	
100		1	271	15.34	15.47	15.23	14.96	15.45	
100		135	1	15.03	14.78	14.86	14.75	14.73	16.7
100		135	67	15.31	15.27	15.42	15.16	14.88	
100		135	136	14.89	14.93	14.80	14.77	14.83	
100		270	0	14.85	14.79	14.95	14.74	14.72	
100	DFT-s-OFDM QPSK	1	1	15.35	15.38	15.56	15.50	15.44	16.7
100		1	136	15.32	15.34	15.37	15.18	14.97	
100		1	271	15.34	15.46	15.20	15.06	15.46	
100		135	1	14.76	14.85	14.95	14.75	14.89	16.7
100		135	67	15.41	15.36	15.43	15.37	15.39	
100		135	136	14.95	15.09	14.91	14.80	14.84	
100		270	0	15.36	15.27	15.42	15.25	15.18	
100	DFT-s-OFDM 16QAM	1	1	14.16	14.23	14.33	14.49	14.20	15.7
100	DFT-s-OFDM 64QAM	1	1	12.67	12.89	12.97	13.10	12.91	13.7
100	DFT-s-OFDM 256QAM	1	1	10.46	10.66	10.75	10.87	10.62	11.7
100	CP-OFDM QPSK	1	1	14.02	14.08	14.12	14.18	13.94	14.7
100	CP-OFDM 16QAM	1	1	13.21	13.51	13.57	13.71	13.47	14.7
100	CP-OFDM 64QAM	1	1	11.25	11.50	11.57	11.72	11.47	12.7
100	CP-OFDM 256QAM	1	1	8.50	8.71	8.81	8.92	8.84	9.7
Channel				649666	652834	656000	659166	662332	Tune-up limit (dBm)
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	15.19	15.27	15.35	15.47	15.17	16.7
Channel				649334	652668	656000	659332	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	15.26	15.28	15.45	15.32	15.08	16.7
Channel				649000	652500	656000	659500	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	15.22	15.26	15.43	15.25	15.00	16.7
Channel				648668	652334	656000	659666	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	15.06	15.20	15.22	15.00	14.74	16.7
Channel				648334	652168	656000	659832	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	15.30	15.33	15.43	15.36	14.65	16.7
Channel				648000	652000	656000	660000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	15.18	15.14	15.23	15.18	14.76	16.7
Channel				647668	651834	656000	660166	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	15.24	15.23	15.38	15.20	14.91	16.7
Channel				647334	651668	656000	660332	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	15.12	15.10	15.23	14.91	15.06	16.7
Channel				647168	651584	656000	660416	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	15.16	15.15	15.31	14.91	15.12	16.7
Channel				647000	651500	656000	660500	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	15.18	15.17	15.33	14.96	15.33	16.7

n77(3450-3550MHz) (PC2)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			15.86			17
100		1	136			15.25			
100		1	271			15.35			
100		135	1			15.30			17
100		135	67			15.55			
100		135	136			15.26			
100		270	0			15.52			
100	DFT-s-OFDM QPSK	1	1			15.91			17
100		1	136			15.10			
100		1	271			15.30			
100		135	1			15.30			17
100		135	67			15.86			
100		135	136			15.08			
100		270	0			15.62			
100	DFT-s-OFDM 16QAM	1	1			14.71			16
100	DFT-s-OFDM 64QAM	1	1			13.27			14
100	DFT-s-OFDM 256QAM	1	1			11.05			12
100	CP-OFDM QPSK	1	1			14.44			16
100	CP-OFDM 16QAM	1	1			13.92			15
100	CP-OFDM 64QAM	1	1			11.88			14
100	CP-OFDM 256QAM	1	1			9.08			10
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	15.71	15.70	15.78	15.63	15.70	17
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	15.73	15.67	15.67	15.58	15.61	17
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	15.72	15.64	15.69	15.59	15.52	17
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	15.54	15.51	15.40	15.41	15.38	17
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	15.76	15.74	15.67	15.60	15.54	17
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	15.67	15.65	15.44	15.36	15.33	17
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	15.66	15.65	15.55	15.41	15.35	17
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	15.51	15.41	15.36	15.32	15.32	17
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	15.45	15.48	15.42	15.20	15.29	17
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	15.42	15.45	15.47	15.14	15.10	17

n77(3700-3980MHz) (PC2)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	17
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	15.55	15.58	15.74	15.88	15.61	17
100		1	136	15.71	15.66	15.79	15.72	15.23	
100		1	271	15.74	15.81	15.82	15.51	15.85	
100		135	1	15.43	15.15	15.20	15.13	15.03	17
100		135	67	15.71	15.64	15.76	15.75	15.48	
100		135	136	15.09	15.18	15.01	15.01	15.23	
100		270	0	15.25	15.11	15.37	15.20	15.12	
100	DFT-s-OFDM QPSK	1	1	15.76	15.75	15.89	15.88	15.74	17
100		1	136	15.72	15.60	15.73	15.67	15.37	
100		1	271	15.74	15.87	15.78	15.51	15.86	
100		135	1	15.37	15.24	15.32	15.19	15.30	17
100		135	67	15.72	15.69	15.79	15.75	15.70	
100		135	136	15.26	15.34	15.19	15.21	15.15	
100		270	0	15.59	15.49	15.71	15.66	15.51	
100	DFT-s-OFDM 16QAM	1	1	14.46	14.47	14.56	14.69	14.50	16
100	DFT-s-OFDM 64QAM	1	1	12.97	13.09	13.25	13.30	13.21	14
100	DFT-s-OFDM 256QAM	1	1	10.76	10.94	10.98	11.15	10.92	12
100	CP-OFDM QPSK	1	1	14.32	14.20	14.29	14.42	14.24	15
100	CP-OFDM 16QAM	1	1	13.51	13.61	13.82	13.94	13.77	15
100	CP-OFDM 64QAM	1	1	11.55	11.67	11.82	11.97	11.77	13
100	CP-OFDM 256QAM	1	1	8.80	8.94	9.02	9.10	9.14	10
Channel				633000	633168	633334	633500	633666	17
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	15.66	15.65	15.73	15.58	15.65	17
Channel				632668	633000	633334	633666	634000	17
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	15.68	15.62	15.62	15.53	15.56	17
Channel				632334	632834	633334	633832	634332	17
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	15.67	15.59	15.64	15.54	15.47	17
Channel				632000	632668	633334	634000	634666	17
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	15.49	15.46	15.35	15.36	15.33	17
Channel				631668	632500	633334	634166	635000	17
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	15.71	15.69	15.62	15.55	15.49	17
Channel				631334	632334	633334	634332	635332	17
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	15.62	15.60	15.39	15.31	15.28	17
Channel				631000	632168	633334	634500	635666	17
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	15.61	15.60	15.50	15.36	15.30	17
Channel				630668	632000	633334	634666	636000	17
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	15.46	15.36	15.31	15.27	15.27	17
Channel				630500	631916	633334	634750	636166	17
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	15.40	15.43	15.37	15.15	15.24	17
Channel				630334	631834	633334	634834	636332	17
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	15.37	15.40	15.42	15.09	15.05	17

n77(3450-3550MHz) (PC2)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			18.80			19.8
100		1	136			18.57			
100		1	271			18.37			
100		135	1			18.11			19.8
100		135	67			18.57			
100		135	136			18.09			
100		270	0			18.08			
100	DFT-s-OFDM QPSK	1	1			18.81			19.8
100		1	136			18.51			
100		1	271			18.37			
100		135	1			17.99			19.8
100		135	67			18.77			
100		135	136			18.15			
100		270	0			18.69			
100	DFT-s-OFDM 16QAM	1	1			17.69			18.8
100	DFT-s-OFDM 64QAM	1	1			16.27			17.8
100	DFT-s-OFDM 256QAM	1	1			14.05			14.8
100	CP-OFDM QPSK	1	1			17.44			18.8
100	CP-OFDM 16QAM	1	1			16.76			17.8
100	CP-OFDM 64QAM	1	1			14.82			15.8
100	CP-OFDM 256QAM	1	1			12.04			12.8
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	18.64	18.63	18.61	18.56	18.63	19.8
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	18.66	18.60	18.60	18.51	18.54	19.8
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	18.65	18.57	18.62	18.52	18.45	19.8
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	18.47	18.44	18.33	18.34	18.31	19.8
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	18.69	18.67	18.75	18.53	18.47	19.8
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	18.60	18.58	18.37	18.29	18.06	19.8
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	18.59	18.58	18.48	18.34	18.08	19.8
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	18.44	18.34	18.29	18.25	18.05	19.8
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	18.38	18.41	18.35	18.08	18.02	19.8
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	18.35	18.38	18.40	18.02	18.03	19.8

n77(3700-3980MHz) (PC2)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	17.8
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	16.35	16.59	16.67	16.72	16.41	17.8
100		1	136	16.51	16.56	16.64	16.64	16.13	
100		1	271	16.54	16.72	16.71	16.44	16.65	
100		135	1	16.23	16.13	16.20	16.07	16.03	17.8
100		135	67	16.51	16.72	16.74	16.75	16.48	
100		135	136	15.89	16.26	16.12	16.12	16.03	
100		270	0	16.05	16.26	16.50	16.43	15.92	
100	DFT-s-OFDM QPSK	1	1	16.75	16.78	16.83	16.75	16.74	17.8
100		1	136	16.52	16.67	16.81	16.76	16.67	
100		1	271	16.54	16.73	16.73	16.68	16.66	
100		135	1	15.86	15.85	15.88	15.81	15.89	17.8
100		135	67	16.61	16.64	16.76	16.75	16.69	
100		135	136	15.95	15.92	15.99	15.81	15.84	
100		270	0	16.60	16.64	16.66	16.61	16.57	
100	DFT-s-OFDM 16QAM	1	1	15.56	15.60	15.62	15.78	15.60	16.8
100	DFT-s-OFDM 64QAM	1	1	14.07	14.31	14.30	14.43	14.31	15.8
100	DFT-s-OFDM 256QAM	1	1	11.96	12.15	12.16	12.24	12.12	12.8
100	CP-OFDM QPSK	1	1	15.32	15.37	15.43	15.49	15.24	16.8
100	CP-OFDM 16QAM	1	1	14.51	14.85	14.79	15.03	14.77	15.8
100	CP-OFDM 64QAM	1	1	12.55	12.83	12.86	13.08	12.77	13.8
100	CP-OFDM 256QAM	1	1	9.90	10.11	10.13	10.23	10.14	10.8
Channel				633000	633168	633334	633500	633666	17.8
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	16.95	16.94	16.92	16.87	16.94	17.8
Channel				632668	633000	633334	633666	634000	17.8
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	16.97	16.91	16.91	16.82	16.85	17.8
Channel				632334	632834	633334	633832	634332	17.8
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	16.96	16.88	16.93	16.83	16.76	17.8
Channel				632000	632668	633334	634000	634666	17.8
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	16.78	16.75	16.64	16.65	16.62	17.8
Channel				631668	632500	633334	634166	635000	17.8
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	17.00	16.98	17.06	16.84	16.78	17.8
Channel				631334	632334	633334	634332	635332	17.8
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	16.91	16.89	16.68	16.60	16.37	17.8
Channel				631000	632168	633334	634500	635666	17.8
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	16.90	16.89	16.79	16.65	16.39	17.8
Channel				630668	632000	633334	634666	636000	17.8
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	16.75	16.65	16.60	16.56	16.36	17.8
Channel				630500	631916	633334	634750	636166	17.8
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	16.69	16.72	16.66	16.39	16.33	17.8
Channel				630334	631834	633334	634834	636332	17.8
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	16.66	16.69	16.71	16.33	16.34	17.8

n77(3700-3980MHz) (PC3)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	15.7
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	14.57	14.56	14.65	14.54	14.70	15.7
100		1	136	14.52	14.53	14.55	14.53	14.60	
100		1	271	14.51	14.70	14.61	14.56	14.60	
100		135	1	14.46	14.46	14.51	14.52	14.62	15.7
100		135	67	14.46	14.54	14.50	14.40	14.60	
100		135	136	14.51	14.64	14.55	14.61	14.56	
100	DFT-s-OFDM QPSK	270	0	14.49	14.64	14.60	14.63	14.64	15.7
100		1	1	14.56	14.62	14.74	14.59	14.69	
100		1	136	14.44	14.45	14.43	14.46	14.53	
100		1	271	14.66	14.60	14.70	14.62	14.63	15.7
100		135	1	14.45	14.42	14.48	14.53	14.59	
100		135	67	14.60	14.63	14.66	14.61	14.51	
100	DFT-s-OFDM 16QAM	1	1	14.33	14.43	14.49	14.43	14.54	15.7
100		1	1	12.67	12.80	12.89	12.80	12.92	13.7
100	DFT-s-OFDM 256QAM	1	1	10.74	10.96	11.01	10.93	11.06	11.7
100	CP-OFDM QPSK	1	1	14.11	14.00	13.31	14.16	13.34	14.7
100	CP-OFDM 16QAM	1	1	13.41	13.53	13.64	13.58	13.70	14.7
100	CP-OFDM 64QAM	1	1	11.87	12.01	12.06	12.06	12.17	12.7
100	CP-OFDM 256QAM	1	1	8.82	9.03	9.09	9.06	9.16	9.7
Channel				649666	652834	656000	659166	662332	15.7
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	14.51	14.60	14.46	14.38	14.65	15.7
Channel				649334	652668	656000	659332	662666	15.7
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	14.43	14.44	14.43	14.47	14.60	15.7
Channel				649000	652500	656000	659500	663000	15.7
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	14.33	14.42	14.45	14.52	14.53	15.7
Channel				648668	652334	656000	659666	663332	15.7
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	14.26	14.22	14.30	14.41	14.46	15.7
Channel				648334	652168	656000	659832	663666	15.7
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	14.36	14.49	14.51	14.56	14.53	15.7
Channel				648000	652000	656000	660000	664000	15.7
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	14.37	14.37	14.35	14.43	14.33	15.7
Channel				647668	651834	656000	660166	664332	15.7
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	14.47	14.48	14.46	14.60	14.42	15.7
Channel				647334	651668	656000	660332	664666	15.7
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	14.38	14.29	14.22	14.31	14.27	15.7
Channel				647168	651584	656000	660416	664832	15.7
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	14.32	14.43	14.31	14.33	14.32	15.7
Channel				647000	651500	656000	660500	665000	15.7
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	14.28	14.40	14.28	14.43	14.25	25.2

n78(3700-3800MHz) (PC2)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			Tune-up limit (dBm)
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			16.62			17.9
100		1	136			16.63			
100		1	271			16.69			
100		135	1			16.35			17.9
100		135	67			16.65			
100		135	136			16.03			
100	DFT-s-OFDM QPSK	270	0			16.20			17.9
100		1	1			16.78			
100		1	136			16.66			
100		1	271			16.71			17.9
100		135	1			16.17			
100		135	67			16.62			
100		135	136			16.01			17.9
100		270	0			16.58			
100	DFT-s-OFDM 16QAM	1	1			15.39			15.9
100	DFT-s-OFDM 64QAM	1	1			13.99			14.9
100	DFT-s-OFDM 256QAM	1	1			11.75			12.9
100	CP-OFDM QPSK	1	1			15.18			15.9
100	CP-OFDM 16QAM	1	1			14.61			14.9
100	CP-OFDM 64QAM	1	1			13.22			13.9
100	CP-OFDM 256QAM	1	1			9.83			10.9
Channel				649668	649834	650000	650166	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	16.51	16.60	16.59	16.65	16.68	17.9
Channel				649334	649666	650000	650334	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	16.60	16.55	16.67	16.73	16.74	17.9
Channel				649000	649500	650000	650500	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	16.55	16.66	16.74	16.70	16.71	17.9
Channel				648668	649334	650000	650666	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	16.38	16.55	16.59	16.65	16.55	17.9
Channel				648334	649166	650000	650834	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	16.60	16.71	16.78	16.78	16.71	17.9
Channel				648000	649000	650000	651000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	16.47	16.73	16.70	16.58	16.57	17.9
Channel				647668	648834	650000	651166	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	16.50	16.73	16.77	16.58	16.53	17.9
Channel				647334	648666	650000	651334	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	16.38	16.74	16.63	16.48	16.32	17.9
Channel				647168	648584	650000	651416	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	16.46	16.74	16.72	16.56	16.42	17.9
Channel				647000	648500	650000	651500	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	16.49	16.70	16.70	16.55	16.57	27.2

n78(3450-3550MHz) (PC2)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			14.33			15.5
100		1	136			13.66			
100		1	271			13.79			
100		135	1			13.54			15.5
100		135	67			13.52			
100		135	136			13.59			
100		270	0			13.74			
100	DFT-s-OFDM QPSK	1	1			14.48			15.5
100		1	136			13.66			
100		1	271			14.05			
100		135	1			14.07			15.5
100		135	67			14.44			
100		135	136			13.52			
100		270	0			14.29			
100	DFT-s-OFDM 16QAM	1	1			13.16			14.5
100	DFT-s-OFDM 64QAM	1	1			11.78			12.5
100	DFT-s-OFDM 256QAM	1	1			9.54			10.5
100	CP-OFDM QPSK	1	1			12.91			14.5
100	CP-OFDM 16QAM	1	1			12.28			13.5
100	CP-OFDM 64QAM	1	1			10.34			11.5
100	CP-OFDM 256QAM	1	1			7.66			8.5
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	14.37	14.44	14.31	14.33	14.36	15.5
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	14.38	14.27	14.35	14.39	14.25	15.5
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	14.34	14.32	14.33	14.22	14.24	15.5
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	14.23	14.17	14.16	14.03	14.00	15.5
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	14.40	14.40	14.16	14.31	14.18	15.5
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	14.27	13.23	14.00	14.04	13.78	15.5
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	14.33	14.24	14.17	14.09	13.61	15.5
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	14.24	14.11	14.12	13.71	13.63	15.5
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	14.26	14.22	14.09	13.69	13.57	15.5
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	14.28	14.27	14.15	13.94	13.78	15.5

n78(3700-3800MHz) (PC3)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			15.9
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			14.75			15.9
100		1	136			14.71			
100		1	271			14.70			
100		135	1			14.76			15.9
100		135	67			14.69			
100		135	136			14.69			
100	DFT-s-OFDM QPSK	270	0			14.72			15.9
100		1	1			14.86			
100		1	136			14.70			
100		1	271			14.72			15.9
100		135	1			14.74			
100		135	67			14.63			
100	DFT-s-OFDM 16QAM	135	136			13.72			15.9
100		270	0			14.72			
100		1	1			14.56			
100	DFT-s-OFDM 64QAM	1	1			13.87			14.9
100	DFT-s-OFDM 256QAM	1	1			11.93			12.9
100	CP-OFDM QPSK	1	1			13.80			14.9
100	CP-OFDM 16QAM	1	1			14.71			15.9
100	CP-OFDM 64QAM	1	1			13.05			13.9
100	CP-OFDM 256QAM	1	1			10.12			10.9
Channel				649668	649834	650000	650166	650332	15.9
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	14.61	14.67	14.75	14.77	14.80	15.9
Channel				649334	649666	650000	650334	650666	15.9
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	14.64	14.83	14.72	14.65	14.73	15.9
Channel				649000	649500	650000	650500	651000	15.9
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	14.64	14.85	14.72	14.74	14.73	15.9
Channel				648668	649334	650000	650666	651332	15.9
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	14.73	14.56	14.59	14.63	14.74	15.9
Channel				648334	649166	650000	650834	651666	15.9
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	14.82	14.78	14.82	14.79	14.82	15.9
Channel				648000	649000	650000	651000	652000	15.9
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	14.82	14.77	14.79	14.77	14.76	15.9
Channel				647668	648834	650000	651166	652332	15.9
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	14.81	14.76	14.80	14.77	14.76	15.9
Channel				647334	648666	650000	651334	652666	15.9
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	14.72	14.84	14.85	14.79	14.85	15.9
Channel				647168	648584	650000	651416	652832	15.9
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	14.77	14.85	14.80	14.78	14.79	15.9
Channel				647000	648500	650000	651500	653000	15.9
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	14.71	14.78	14.75	14.80	14.72	15.9

[illegible]

ANT 1								
Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
BR / EDR	CH 00	2402	13.84	15.50	10.91	12.50	11.77	13.50
	CH 39	2441	13.54	15.50	10.24	12.00	11.15	13.00
	CH 78	2480	13.08	15.00	10.16	12.00	10.81	12.50
Duty Cycle %			76.69		63.55		77.15	
Power Setting			11		10		10	

ANT 8								
Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
BR / EDR	CH 00	2402	15.84	17.50	12.37	14.00	13.02	15.00
	CH 39	2441	15.04	17.00	11.90	13.50	12.51	14.50
	CH 78	2480	15.14	17.00	11.91	13.50	12.81	14.50
Duty Cycle %			76.75		63.55		77.15	
Power Setting			10		10		10	

ANT 9								
Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
BR / EDR	CH 00	2402	14.32	16.00	10.46	12.00	11.39	13.00
	CH 39	2441	13.97	15.50	10.52	12.50	10.88	12.50
	CH 78	2480	13.07	15.00	9.22	11.00	10.03	12.00
Duty Cycle %			76.75		63.55		77.15	
Power Setting			9		9		9	

ANT 1						
Mode	Channel	Frequency (MHz)	1Mbps		2Mbps	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
LE	CH 00	2402	12.49	14.00	9.63	11.50
	CH 19	2440	12.05	14.00	9.46	11.00
	CH 39	2480	11.91	13.50	9.26	11.00
Duty Cycle %			63.52		34.08	

ANT 8						
Mode	Channel	Frequency (MHz)	1Mbps		2Mbps	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
LE	CH 00	2402	11.91	13.50	13.33	15.00
	CH 19	2440	16.17	18.00	12.74	14.50
	CH 39	2480	15.65	17.50	12.98	14.50
Duty Cycle %			63.52		34.08	

ANT 9						
Mode	Channel	Frequency (MHz)	1Mbps		2Mbps	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
LE	CH 00	2402	15.19	17.00	12.86	14.50
	CH 19	2440	14.86	16.50	11.90	13.50
	CH 39	2480	14.08	16.00	11.56	13.50
Duty Cycle %			64		34.53	

Reduced Power Level 5

Band 2 (1900MHz Band) (dBm)-ANT 5							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	19.75	19.77	19.70	20.5
20	QPSK	1	49	19.74	19.76	19.69	
20	QPSK	1	99	19.66	19.73	19.70	
20	QPSK	50	0	18.80	18.92	18.81	
20	QPSK	50	24	18.84	18.78	18.76	19.5
20	QPSK	50	50	18.81	18.84	18.77	
20	QPSK	100	0	18.84	18.85	18.74	
20	16QAM	1	0	19.11	19.02	18.85	
20	16QAM	1	49	18.99	19.08	19.03	19.5
20	16QAM	1	99	19.09	18.86	19.13	
20	16QAM	50	0	17.92	17.87	17.91	
20	16QAM	50	24	18.01	17.86	17.85	
20	16QAM	50	50	17.88	17.91	17.93	18.5
20	16QAM	100	0	17.86	17.88	17.84	
20	64QAM	1	0	17.96	18.10	18.05	
20	64QAM	1	49	17.99	18.03	17.93	
20	64QAM	1	99	18.09	17.97	17.79	18.5
20	64QAM	50	0	17.94	17.83	17.83	
20	64QAM	50	24	17.77	17.78	17.85	
20	64QAM	50	50	17.90	17.83	17.88	
20	64QAM	100	0	17.82	17.85	17.84	14.5
20	256QAM	1	0	13.97	14.12	14.07	
20	256QAM	1	49	14.00	14.05	13.95	
20	256QAM	1	99	14.10	13.99	13.81	
20	256QAM	50	0	13.95	13.85	13.85	14.5
20	256QAM	50	24	13.78	13.80	13.87	
20	256QAM	50	50	13.91	13.85	13.90	
20	256QAM	100	0	13.83	13.87	13.86	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	19.67	19.72	19.63	20.5
15	QPSK	1	37	19.71	19.72	19.66	
15	QPSK	1	74	19.57	19.72	19.69	
15	QPSK	36	0	18.76	18.82	18.71	
15	QPSK	36	20	18.90	18.71	18.72	19.5
15	QPSK	36	39	18.80	18.77	18.68	
15	QPSK	75	0	18.79	18.77	18.64	
15	16QAM	1	0	19.07	18.96	18.79	
15	16QAM	1	37	19.06	19.18	18.98	19.5
15	16QAM	1	74	19.11	19.26	19.12	
15	16QAM	36	0	17.91	17.78	17.85	
15	16QAM	36	20	17.97	17.77	17.77	
15	16QAM	36	39	17.84	17.89	17.91	18.5
15	16QAM	75	0	17.76	17.84	17.83	
15	64QAM	1	0	17.93	18.09	18.00	
15	64QAM	1	37	17.93	17.93	17.88	
15	64QAM	1	74	18.07	17.92	17.73	18.5
15	64QAM	36	0	17.91	17.73	17.76	
15	64QAM	36	20	17.68	17.75	17.78	
15	64QAM	36	39	17.86	17.81	17.80	
15	64QAM	75	0	17.76	17.82	17.83	14.5
15	256QAM	1	0	13.96	14.04	13.99	
15	256QAM	1	37	13.91	14.02	13.85	
15	256QAM	1	74	14.04	13.89	13.76	
15	256QAM	36	0	13.92	13.82	13.80	14.5
15	256QAM	36	20	13.71	13.75	13.85	
15	256QAM	36	39	13.81	13.75	13.83	
15	256QAM	75	0	13.73	13.81	13.79	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	19.74	19.75	19.68	20.5
10	QPSK	1	25	19.67	19.71	19.63	
10	QPSK	1	49	19.58	19.72	19.62	
10	QPSK	25	0	18.74	18.91	18.76	
10	QPSK	25	12	18.82	18.69	18.75	19.5
10	QPSK	25	25	18.72	18.82	18.70	
10	QPSK	50	0	18.75	18.81	18.68	
10	16QAM	1	0	19.05	18.97	18.78	
10	16QAM	1	25	19.05	19.22	19.02	19.5
10	16QAM	1	49	19.07	19.27	19.08	
10	16QAM	25	0	17.84	17.83	17.86	
10	16QAM	25	12	17.93	17.79	17.81	
10	16QAM	25	25	17.87	17.82	17.89	18.5
10	16QAM	50	0	17.85	17.82	17.75	
10	64QAM	1	0	17.86	18.01	18.03	
10	64QAM	1	25	17.97	18.02	17.91	
10	64QAM	1	49	18.04	17.90	17.69	18.5
10	64QAM	25	0	17.93	17.73	17.74	
10	64QAM	25	12	17.69	17.75	17.79	
10	64QAM	25	25	17.86	17.81	17.82	
10	64QAM	50	0	17.75	17.76	17.82	14.5
10	256QAM	1	0	13.88	14.03	13.97	
10	256QAM	1	25	13.98	14.01	13.88	
10	256QAM	1	49	14.07	13.96	13.76	
10	256QAM	25	0	13.91	13.83	13.79	14.5
10	256QAM	25	12	13.72	13.72	13.79	
10	256QAM	25	25	13.85	13.83	13.85	
10	256QAM	50	0	13.78	13.84	13.82	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	19.73	19.73	19.64	20.5
5	QPSK	1	12	19.64	19.66	19.68	
5	QPSK	1	24	19.65	19.71	19.61	
5	QPSK	12	0	18.71	18.87	18.75	
5	QPSK	12	7	18.85	18.73	18.67	19.5

Band 2 (1900MHz Band) (dBm)-ANT 0							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	13.25	13.27	13.20	14.1
20	QPSK	1	49	13.24	13.26	13.19	
20	QPSK	1	99	13.16	13.23	13.20	
20	QPSK	50	0	12.30	12.42	12.31	
20	QPSK	50	24	12.34	12.28	12.26	13.1
20	QPSK	50	50	12.31	12.34	12.27	
20	QPSK	100	0	12.34	12.35	12.24	
20	16QAM	1	0	12.61	12.52	12.35	
20	16QAM	1	49	12.49	12.58	12.53	13.1
20	16QAM	1	99	12.59	12.36	12.63	
20	16QAM	50	0	11.30	11.25	11.29	
20	16QAM	50	24	11.51	11.36	11.35	
20	16QAM	50	50	11.38	11.41	11.43	12.1
20	16QAM	100	0	11.36	11.38	11.34	
20	64QAM	1	0	11.46	11.60	11.55	
20	64QAM	1	49	11.49	11.53	11.43	
20	64QAM	1	99	11.59	11.47	11.29	12.1
20	64QAM	50	0	11.44	11.33	11.33	
20	64QAM	50	24	11.27	11.28	11.35	
20	64QAM	50	50	11.40	11.33	11.38	
20	64QAM	100	0	11.32	11.35	11.34	8.1
20	256QAM	1	0	7.47	7.62	7.57	
20	256QAM	1	49	7.50	7.55	7.45	
20	256QAM	1	99	7.60	7.49	7.31	
20	256QAM	50	0	7.45	7.35	7.35	8.1
20	256QAM	50	24	7.28	7.30	7.37	
20	256QAM	50	50	7.41	7.35	7.40	
20	256QAM	100	0	7.33	7.37	7.36	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	13.29	13.34	13.25	14.1
15	QPSK	1	37	13.33	13.34	13.28	
15	QPSK	1	74	13.19	13.34	13.31	
15	QPSK	36	0	12.38	12.44	12.33	
15	QPSK	36	20	12.52	12.33	12.34	13.1
15	QPSK	36	39	12.42	12.39	12.30	
15	QPSK	75	0	12.41	12.39	12.26	
15	16QAM	1	0	12.57	12.46	12.29	
15	16QAM	1	37	12.56	12.68	12.48	13.1
15	16QAM	1	74	12.61	12.76	12.62	
15	16QAM	36	0	11.41	11.28	11.35	
15	16QAM	36	20	11.47	11.27	11.27	
15	16QAM	36	39	11.34	11.39	11.41	12.1
15	16QAM	75	0	11.26	11.34	11.33	
15	64QAM	1	0	11.43	11.59	11.50	
15	64QAM	1	37	11.43	11.43	11.38	
15	64QAM	1	74	11.57	11.42	11.23	12.1
15	64QAM	36	0	11.41	11.23	11.26	
15	64QAM	36	20	11.18	11.25	11.28	
15	64QAM	36	39	11.36	11.31	11.30	
15	64QAM	75	0	11.26	11.32	11.33	8.1
15	256QAM	1	0	7.46	7.54	7.49	
15	256QAM	1	37	7.41	7.52	7.35	
15	256QAM	1	74	7.54	7.39	7.26	
15	256QAM	36	0	7.42	7.32	7.30	8.1
15	256QAM	36	20	7.21	7.25	7.35	
15	256QAM	36	39	7.31	7.25	7.33	
15	256QAM	75	0	7.35	7.43	7.41	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	13.36	13.37	13.30	14.1

5	QPSK	12	13	18.78	18.78	18.67	19.5
5	QPSK	25	0	18.82	18.81	18.66	
5	16QAM	1	0	18.77	18.76	18.57	
5	16QAM	1	12	18.80	18.96	18.77	18.5
5	16QAM	1	24	18.85	18.96	18.81	
5	16QAM	12	0	17.66	17.56	17.63	
5	16QAM	12	7	17.67	17.57	17.53	18.5
5	16QAM	12	13	17.59	17.59	17.65	
5	16QAM	25	0	17.53	17.55	17.51	
5	64QAM	1	0	17.63	17.83	17.75	18.5
5	64QAM	1	12	17.66	17.74	17.64	
5	64QAM	1	24	17.82	17.70	17.51	
5	64QAM	12	0	17.92	17.82	17.80	18.5
5	64QAM	12	7	17.74	17.71	17.79	
5	64QAM	12	13	17.86	17.74	17.87	
5	64QAM	25	0	17.81	17.82	17.75	14.5
5	256QAM	1	0	13.96	14.04	14.04	
5	256QAM	1	12	13.95	13.97	13.92	
5	256QAM	1	24	14.00	13.90	13.77	14.5
5	256QAM	12	0	13.94	13.82	13.82	
5	256QAM	12	7	13.70	13.70	13.82	
5	256QAM	12	13	13.84	13.78	13.81	14.5
5	256QAM	25	0	13.73	13.84	13.79	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	19.64	19.74	19.60	
3	QPSK	1	8	19.68	19.73	19.64	20.5
3	QPSK	1	14	19.60	19.63	19.61	
3	QPSK	8	0	18.73	18.85	18.77	
3	QPSK	8	4	18.81	18.75	18.74	19.5
3	QPSK	8	7	18.77	18.76	18.74	
3	QPSK	15	0	18.74	18.76	18.68	
3	16QAM	1	0	18.77	18.77	18.54	19.5
3	16QAM	1	8	18.81	18.95	18.77	
3	16QAM	1	14	18.87	18.98	18.86	
3	16QAM	8	0	17.61	17.54	17.60	18.5
3	16QAM	8	4	17.74	17.54	17.55	
3	16QAM	8	7	17.54	17.60	17.66	
3	16QAM	15	0	17.53	17.56	17.57	18.5
3	64QAM	1	0	17.71	17.79	17.79	
3	64QAM	1	8	17.71	17.73	17.60	
3	64QAM	1	14	17.83	17.68	17.45	18.5
3	64QAM	8	0	17.88	17.73	17.73	
3	64QAM	8	4	17.72	17.71	17.75	
3	64QAM	8	7	17.81	17.75	17.84	14.5
3	64QAM	15	0	17.75	17.77	17.81	
3	256QAM	1	0	13.90	14.02	14.06	
3	256QAM	1	8	13.97	14.01	13.92	14.5
3	256QAM	1	14	14.05	13.95	13.76	
3	256QAM	8	0	13.89	13.80	13.76	
3	256QAM	8	4	13.69	13.77	13.78	14.5
3	256QAM	8	7	13.89	13.84	13.81	
3	256QAM	15	0	13.73	13.82	13.77	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	19.64	19.72	19.61	
1.4	QPSK	1	3	19.64	19.67	19.60	20.5
1.4	QPSK	1	5	19.60	19.71	19.65	
1.4	QPSK	3	0	19.74	19.69	19.74	
1.4	QPSK	3	1	19.73	19.73	19.71	19.5
1.4	QPSK	3	3	19.71	19.75	19.75	
1.4	QPSK	6	0	18.75	18.75	18.64	
1.4	16QAM	1	0	18.78	18.75	18.52	19.5
1.4	16QAM	1	3	18.87	18.95	18.78	
1.4	16QAM	1	5	18.82	18.98	18.88	
1.4	16QAM	3	0	18.60	18.60	18.63	18.5
1.4	16QAM	3	1	18.75	18.54	18.51	
1.4	16QAM	3	3	18.57	18.64	18.59	
1.4	16QAM	6	0	17.55	17.54	17.51	18.5
1.4	64QAM	1	0	17.62	17.77	17.80	
1.4	64QAM	1	3	17.72	17.74	17.66	
1.4	64QAM	1	5	17.78	17.72	17.50	18.5
1.4	64QAM	3	0	17.62	17.55	17.58	
1.4	64QAM	3	1	17.49	17.53	17.59	
1.4	64QAM	3	3	17.59	17.52	17.59	18.5
1.4	64QAM	6	0	17.73	17.75	17.76	
1.4	256QAM	1	0	13.94	14.04	14.02	
1.4	256QAM	1	3	13.98	14.03	13.88	14.5
1.4	256QAM	1	5	14.03	13.97	13.73	
1.4	256QAM	3	0	13.88	13.84	13.80	
1.4	256QAM	3	1	13.70	13.71	13.80	14.5
1.4	256QAM	3	3	13.84	13.81	13.85	
1.4	256QAM	6	0	13.77	13.86	13.84	

5	QPSK	12	13	12.28	12.28	12.17	13.1
5	QPSK	25	0	12.32	12.31	12.16	
5	16QAM	1	0	12.27	12.26	12.07	
5	16QAM	1	12	12.30	12.46	12.27	12.1
5	16QAM	1	24	12.35	12.46	12.31	
5	16QAM	12	0	11.16	11.06	11.13	
5	16QAM	12	7	11.17	11.07	11.03	12.1
5	16QAM	12	13	11.09	11.09	11.15	
5	16QAM	25	0	11.03	11.05	11.01	
5	64QAM	1	0	11.13	11.33	11.25	12.1
5	64QAM	1	12	11.16	11.24	11.14	
5	64QAM	1	24	11.32	11.20	11.01	
5	64QAM	12	0	11.42	11.32	11.30	12.1
5	64QAM	12	7	11.24	11.21	11.29	
5	64QAM	12	13	11.36	11.24	11.37	
5	64QAM	25	0	11.31	11.32	11.25	8.1
5	256QAM	1	0	7.46	7.54	7.54	
5	256QAM	1	12	7.45	7.47	7.42	
5	256QAM	1	24	7.50	7.40	7.27	8.1
5	256QAM	12	0	7.44	7.32	7.32	
5	256QAM	12	7	7.20	7.20	7.32	
5	256QAM	12	13	7.34	7.28	7.31	8.1
5	256QAM	25	0	7.23	7.34	7.29	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	13.26	13.36	13.22	
3	QPSK	1	8	13.30	13.35	13.26	14.1
3	QPSK	1	14	13.10	13.13	13.11	
3	QPSK	8	0	12.23	12.35	12.27	
3	QPSK	8	4	12.31	12.25	12.24	13.1
3	QPSK	8	7	12.27	12.26	12.24	
3	QPSK	15	0	12.24	12.26	12.18	
3	16QAM	1	0	12.27	12.27	12.04	13.1
3	16QAM	1	8	12.31	12.45	12.27	
3	16QAM	1	14	12.37	12.48	12.36	
3	16QAM	8	0	11.11	11.04	11.10	12.1
3	16QAM	8	4	11.24	11.04	11.05	
3	16QAM	8	7	11.04	11.10	11.16	
3	16QAM	15	0	11.03	11.06	11.07	12.1
3	64QAM	1	0	11.21	11.29	11.29	
3	64QAM	1	8	11.21	11.23	11.10	
3	64QAM	1	14	11.33	11.18	10.95	12.1
3	64QAM	8	0	11.38	11.23	11.23	
3	64QAM	8	4	11.22	11.21	11.25	
3	64QAM	8	7	11.31	11.25	11.34	12.1
3	64QAM	15	0	11.25	11.27	11.31	
3	256QAM	1	0	7.40	7.52	7.56	
3	256QAM	1	8	7.47	7.51	7.42	8.1
3	256QAM	1	14	7.55	7.45	7.26	
3	256QAM	8	0	7.39	7.30	7.26	
3	256QAM	8	4	7.19	7.27	7.28	8.1
3	256QAM	8	7	7.39	7.34	7.31	
3	256QAM	15	0	7.23	7.32	7.27	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	13.26	13.34	13.23	
1.4	QPSK	1	3	13.26	13.29	13.22	14.1
1.4	QPSK	1	5	13.10	13.21	13.15	
1.4	QPSK	3	0	13.24	13.19	13.24	
1.4	QPSK	3	1	13.23	13.23	13.21	13.1
1.4	QPSK	3	3	13.21	13.25	13.25	
1.4	QPSK	6	0	12.25	12.25	12.14	
1.4	16QAM	1	0	12.28	12.25	12.02	13.1
1.4	16QAM	1	3	12.37	12.45	12.28	
1.4	16QAM	1	5	12.32	12.48	12.38	
1.4	16QAM	3	0	12.10	12.10	12.13	12.1
1.4	16QAM	3	1	12.25	12.04	12.01	
1.4	16QAM	3	3	12.07	12.14	12.09	
1.4	16QAM	6	0	11.05	11.04	11.01	12.1
1.4	64QAM	1	0	11.12	11.27	11.30	
1.4	64QAM	1	3	11.22	11.24	11.16	
1.4	64QAM	1	5	11.28	11.22	11.00	12.1
1.4	64QAM	3	0	11.12	11.05	11.08	
1.4	64QAM	3	1	10.99	11.03	11.09	
1.4	64QAM	3	3	11.09	11.02	11.09	12.1
1.4	64QAM	6	0	11.23	11.25	11.26	
1.4	256QAM	1	0	7.44	7.54	7.52	
1.4	256QAM	1	3	7.48	7.53	7.38	8.1
1.4	256QAM	1	5	7.53	7.47	7.23	
1.4	256QAM	3	0	7.38	7.34	7.30	8.1
1.4	256QAM	3	1	7.20	7.21	7.30	
1.4	256QAM	3	3	7.34	7.31	7.35	
1.4	256QAM	6	0	7.27	7.36	7.34	8.1

1.4	QPSK	3	3	14.07	14.11	14.14	
1.4	QPSK	6	0	13.18	13.08	13.09	14
1.4	16QAM	1	0	13.25	13.13	13.06	
1.4	16QAM	1	3	13.25	13.43	13.21	
1.4	16QAM	1	5	13.23	13.20	13.12	14
1.4	16QAM	3	0	13.28	13.21	13.23	
1.4	16QAM	3	1	13.27	13.22	13.16	
1.4	16QAM	3	3	13.28	13.28	13.26	
1.4	16QAM	6	0	12.39	12.25	12.22	13
1.4	64QAM	1	0	12.42	12.44	12.30	
1.4	64QAM	1	3	12.23	12.20	12.25	
1.4	64QAM	1	5	12.39	12.15	12.39	
1.4	64QAM	3	0	12.33	12.32	12.25	13
1.4	64QAM	3	1	12.40	12.21	12.24	
1.4	64QAM	3	3	12.23	12.23	12.20	
1.4	64QAM	6	0	12.31	12.28	12.28	13
1.4	256QAM	1	0	8.39	8.53	8.41	
1.4	256QAM	1	3	8.29	8.27	8.28	
1.4	256QAM	1	5	8.43	8.19	8.40	9
1.4	256QAM	3	0	8.35	8.28	8.28	
1.4	256QAM	3	1	8.51	8.31	8.32	
1.4	256QAM	3	3	8.32	8.29	8.23	
1.4	256QAM	6	0	8.27	8.24	8.26	9

5	QPSK	12	13	19.22	19.25	19.28	
5	QPSK	25	0	19.27	19.30	19.20	
5	16QAM	1	0	19.20	19.06	19.13	
5	16QAM	1	12	19.25	19.22	19.13	20
5	16QAM	1	24	19.21	19.32	19.26	
5	16QAM	12	0	18.17	18.24	18.32	
5	16QAM	12	7	18.15	18.24	18.14	19
5	16QAM	12	13	18.14	18.24	18.11	
5	16QAM	25	0	18.12	18.16	18.25	
5	64QAM	1	0	18.16	18.23	18.25	
5	64QAM	1	12	18.23	18.32	18.00	19
5	64QAM	1	24	18.19	18.08	17.92	
5	64QAM	12	0	18.16	18.16	18.22	
5	64QAM	12	7	18.10	18.27	18.02	19
5	64QAM	12	13	18.16	18.27	18.16	
5	64QAM	25	0	18.15	18.19	18.06	
5	256QAM	1	0	14.25	14.31	14.26	
5	256QAM	1	12	14.27	14.30	14.07	15
5	256QAM	1	24	14.23	14.13	13.96	
5	256QAM	12	0	14.19	14.20	14.26	
5	256QAM	12	7	14.15	14.27	14.09	15
5	256QAM	12	13	14.17	14.35	14.23	
5	256QAM	25	0	14.28	14.24	14.16	

5	QPSK	12	13	10.40	10.43	10.46	11.1
5	QPSK	25	0	10.45	10.48	10.38	
5	16QAM	1	0	10.38	10.24	10.31	
5	16QAM	1	12	10.43	10.40	10.31	10.1
5	16QAM	1	24	10.39	10.50	10.44	
5	16QAM	12	0	9.35	9.42	9.50	
5	16QAM	12	7	9.33	9.42	9.32	10.1
5	16QAM	12	13	9.32	9.42	9.29	
5	16QAM	25	0	9.30	9.34	9.43	
5	64QAM	1	0	9.34	9.41	9.43	10.1
5	64QAM	1	12	9.41	9.50	9.18	
5	64QAM	1	24	9.37	9.26	9.10	
5	64QAM	12	0	9.34	9.34	9.40	10.1
5	64QAM	12	7	9.28	9.45	9.20	
5	64QAM	12	13	9.34	9.45	9.34	
5	64QAM	25	0	9.33	9.37	9.24	6.1
5	256QAM	1	0	5.43	5.49	5.44	
5	256QAM	1	12	5.45	5.48	5.25	
5	256QAM	1	24	5.41	5.31	5.14	6.1
5	256QAM	12	0	5.37	5.38	5.44	
5	256QAM	12	7	5.33	5.45	5.27	
5	256QAM	12	13	5.35	5.53	5.41	6.1
5	256QAM	25	0	5.46	5.42	5.34	

5	QPSK	12	13	9.75	9.78	9.81	10.3
5	QPSK	25	0	9.80	9.83	9.73	
5	16QAM	1	0	9.73	9.59	9.66	
5	16QAM	1	12	9.78	9.75	9.66	9.3
5	16QAM	1	24	9.74	9.85	9.79	
5	16QAM	12	0	8.70	8.77	8.85	
5	16QAM	12	7	8.68	8.77	8.67	9.3
5	16QAM	12	13	8.67	8.77	8.64	
5	16QAM	25	0	8.65	8.69	8.78	
5	64QAM	1	0	8.69	8.76	8.78	9.3
5	64QAM	1	12	8.76	8.85	8.53	
5	64QAM	1	24	8.72	8.61	8.45	
5	64QAM	12	0	8.69	8.69	8.75	9.3
5	64QAM	12	7	8.63	8.80	8.55	
5	64QAM	12	13	8.69	8.80	8.69	
5	64QAM	25	0	8.68	8.72	8.59	5.3
5	256QAM	1	0	4.78	4.84	4.79	
5	256QAM	1	12	4.80	4.83	4.60	
5	256QAM	1	24	4.76	4.66	4.49	5.3
5	256QAM	12	0	4.72	4.73	4.79	
5	256QAM	12	7	4.68	4.80	4.62	
5	256QAM	12	13	4.70	4.88	4.76	5.3
5	256QAM	25	0	4.81	4.77	4.69	

5	QPSK	12	13	11.76	11.79	11.82	12.3
5	QPSK	25	0	11.81	11.84	11.74	
5	16QAM	1	0	11.74	11.60	11.67	11.3
5	16QAM	1	12	11.79	11.76	11.67	
5	16QAM	1	24	11.75	11.86	11.80	11.3
5	16QAM	12	0	10.71	10.78	10.86	
5	16QAM	12	7	10.69	10.78	10.68	11.3
5	16QAM	12	13	10.68	10.78	10.65	
5	16QAM	25	0	10.66	10.70	10.79	11.3
5	64QAM	1	0	10.70	10.77	10.79	
5	64QAM	1	12	10.77	10.86	10.54	11.3
5	64QAM	1	24	10.73	10.62	10.46	
5	64QAM	12	0	10.70	10.70	10.76	11.3
5	64QAM	12	7	10.64	10.81	10.56	
5	64QAM	12	13	10.70	10.81	10.70	7.3
5	64QAM	25	0	10.69	10.73	10.60	
5	256QAM	1	0	6.79	6.85	6.80	7.3
5	256QAM	1	12	6.81	6.84	6.61	
5	256QAM	1	24	6.77	6.67	6.50	7.3
5	256QAM	12	0	6.73	6.74	6.80	
5	256QAM	12	7	6.69	6.81	6.63	7.3
5	256QAM	12	13	6.71	6.89	6.77	
5	256QAM	25	0	6.82	6.78	6.70	

1.4	QPSK	3	3	14.90	14.86	14.84	14.8
1.4	QPSK	6	0	13.88	13.88	13.90	
1.4	16QAM	1	0	14.12	14.07	13.99	14.8
1.4	16QAM	1	3	13.85	13.90	13.92	
1.4	16QAM	1	5	13.96	13.82	14.00	13.8
1.4	16QAM	3	0	13.86	13.96	14.00	
1.4	16QAM	3	1	13.87	13.89	13.86	13.8
1.4	16QAM	3	3	14.02	13.97	14.00	
1.4	16QAM	6	0	13.03	12.94	12.96	13.8
1.4	64QAM	1	0	13.07	12.96	12.86	
1.4	64QAM	1	3	13.07	13.02	13.04	13.8
1.4	64QAM	1	5	13.20	13.18	13.11	
1.4	64QAM	3	0	12.91	13.06	12.96	13.8
1.4	64QAM	3	1	12.91	12.99	13.07	
1.4	64QAM	3	3	12.90	12.98	12.86	13.8
1.4	64QAM	6	0	12.97	12.87	12.99	
1.4	256QAM	1	0	8.85	8.82	8.73	9.8
1.4	256QAM	1	3	8.95	8.87	8.88	
1.4	256QAM	1	5	9.01	8.99	8.93	9.8
1.4	256QAM	3	0	8.72	8.93	8.74	
1.4	256QAM	3	1	8.80	8.86	8.89	9.8
1.4	256QAM	3	3	8.70	8.84	8.77	
1.4	256QAM	6	0	8.78	8.74	8.83	9.8



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5	QPSK	12	13	18.72	18.57	18.61	19.5
5	QPSK	25	0	18.74	18.62	18.64	
5	16QAM	1	0	18.57	18.60	18.61	
5	16QAM	1	12	18.71	18.73	18.71	
5	16QAM	1	24	18.53	18.60	18.65	18.5
5	16QAM	12	0	17.78	17.54	17.54	
5	16QAM	12	7	17.60	17.64	17.47	
5	16QAM	12	13	17.57	17.53	17.58	
5	16QAM	25	0	17.60	17.63	17.52	18.5
5	64QAM	1	0	17.61	17.66	17.64	
5	64QAM	1	12	17.62	17.59	17.72	
5	64QAM	1	24	17.71	17.61	17.58	
5	64QAM	12	0	17.65	17.57	17.59	18.5
5	64QAM	12	7	17.64	17.63	17.62	
5	64QAM	12	13	17.58	17.60	17.54	
5	64QAM	25	0	17.69	17.66	17.46	
5	256QAM	1	0	13.71	13.71	13.69	14.5
5	256QAM	1	12	13.66	13.74	13.76	
5	256QAM	1	24	13.69	13.74	13.72	
5	256QAM	12	0	13.64	13.60	13.68	
5	256QAM	12	7	13.72	13.75	13.61	14.5
5	256QAM	12	13	13.56	13.70	13.65	
5	256QAM	25	0	13.79	13.73	13.53	
Channel				26055	26365	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1882.5	1913.5	
3	QPSK	1	0	19.63	19.64	19.52	20.5
3	QPSK	1	8	19.53	19.55	19.53	
3	QPSK	1	14	19.57	19.52	19.50	
3	QPSK	8	0	18.75	18.59	18.59	
3	QPSK	8	4	18.66	18.68	18.69	19.5
3	QPSK	8	7	18.68	18.55	18.62	
3	QPSK	15	0	18.68	18.62	18.74	
3	16QAM	1	0	18.64	18.64	18.69	
3	16QAM	1	8	18.75	18.68	18.68	19.5
3	16QAM	1	14	18.51	18.67	18.69	
3	16QAM	8	0	17.69	17.63	17.61	
3	16QAM	8	4	17.64	17.67	17.48	
3	16QAM	8	7	17.53	17.51	17.63	18.5
3	16QAM	15	0	17.55	17.67	17.54	
3	64QAM	1	0	17.60	17.65	17.62	
3	64QAM	1	8	17.65	17.62	17.71	
3	64QAM	1	14	17.71	17.64	17.58	18.5
3	64QAM	8	0	17.64	17.58	17.65	
3	64QAM	8	4	17.66	17.72	17.63	
3	64QAM	8	7	17.57	17.56	17.56	
3	64QAM	15	0	17.74	17.68	17.50	14.5
3	256QAM	1	0	13.74	13.75	13.61	
3	256QAM	1	8	13.64	13.65	13.70	
3	256QAM	1	14	13.72	13.68	13.67	
3	256QAM	8	0	13.65	13.70	13.63	14.5
3	256QAM	8	4	13.64	13.76	13.68	
3	256QAM	8	7	13.64	13.71	13.55	
3	256QAM	15	0	13.72	13.78	13.51	
Channel				26047	26365	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	19.66	19.59	19.55	20.5
1.4	QPSK	1	3	19.55	19.58	19.54	
1.4	QPSK	1	5	19.54	19.44	19.51	
1.4	QPSK	3	0	19.73	19.58	19.68	
1.4	QPSK	3	1	19.69	19.67	19.63	19.5
1.4	QPSK	3	3	19.66	19.57	19.64	
1.4	QPSK	6	0	18.71	18.63	18.64	
1.4	16QAM	1	0	18.56	18.65	18.59	
1.4	16QAM	1	3	18.73	18.68	18.62	18.5
1.4	16QAM	1	5	18.47	18.64	18.71	
1.4	16QAM	3	0	18.68	18.56	18.64	
1.4	16QAM	3	1	18.67	18.68	18.52	
1.4	16QAM	3	3	18.62	18.56	18.57	17.5
1.4	16QAM	6	0	17.52	17.63	17.53	
1.4	64QAM	1	0	17.68	17.65	17.60	
1.4	64QAM	1	3	17.59	17.62	17.70	
1.4	64QAM	1	5	17.70	17.66	17.56	18.5
1.4	64QAM	3	0	17.63	17.61	17.57	
1.4	64QAM	3	1	17.60	17.67	17.59	
1.4	64QAM	3	3	17.53	17.58	17.51	
1.4	64QAM	6	0	17.67	17.69	17.44	18.5
1.4	256QAM	1	0	13.67	13.74	13.61	
1.4	256QAM	1	3	13.62	13.69	13.76	
1.4	256QAM	1	5	13.75	13.73	13.73	
1.4	256QAM	3	0	13.75	13.70	13.72	14.5
1.4	256QAM	3	1	13.70	13.80	13.63	
1.4	256QAM	3	3	13.64	13.61	13.62	
1.4	256QAM	6	0	13.74	13.72	13.57	



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Band 71 (dBm)-ANT 0							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				133222	133322	133372	16.3
Frequency (MHz)				673	683	688	
20	QPSK	1	0	15.37	15.50	15.43	15.3
20	QPSK	1	49	15.34	15.40	15.33	
20	QPSK	1	99	15.45	15.42	15.46	
20	QPSK	50	0	14.48	14.56	14.52	
20	QPSK	50	24	14.41	14.44	14.48	15.3
20	QPSK	50	50	14.52	14.55	14.53	
20	QPSK	100	0	14.47	14.57	14.49	
20	16QAM	1	0	14.68	14.72	14.72	
20	16QAM	1	49	14.70	14.79	14.77	14.3
20	16QAM	1	99	14.73	14.80	14.78	
20	16QAM	50	0	13.40	13.44	13.49	
20	16QAM	50	24	13.55	13.57	13.54	
20	16QAM	50	50	13.54	13.59	13.56	14.3
20	16QAM	100	0	13.53	13.45	13.59	
20	64QAM	1	0	13.62	13.76	13.67	
20	64QAM	1	49	13.64	13.79	13.71	
20	64QAM	1	99	13.74	13.85	13.75	14.3
20	64QAM	50	0	13.34	13.38	13.48	
20	64QAM	50	24	13.55	13.55	13.54	
20	64QAM	50	50	13.58	13.58	13.58	
20	64QAM	100	0	13.55	13.42	13.63	10.3
20	256QAM	1	0	9.52	9.66	9.57	
20	256QAM	1	49	9.54	9.69	9.61	
20	256QAM	1	99	9.64	9.75	9.65	
20	256QAM	50	0	9.25	9.29	9.39	10.3
20	256QAM	50	24	9.46	9.46	9.45	
20	256QAM	50	50	9.49	9.49	9.49	
20	256QAM	100	0	9.46	9.33	9.54	
Channel				133197	133297	133397	16.3
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	15.31	15.46	15.35	15.3
15	QPSK	1	37	15.26	15.30	15.21	
15	QPSK	1	74	15.33	15.37	15.40	
15	QPSK	36	0	14.21	14.50	14.44	
15	QPSK	36	20	14.31	14.32	14.45	15.3
15	QPSK	36	39	14.51	14.48	14.51	
15	QPSK	75	0	14.35	14.43	14.37	
15	16QAM	1	0	14.62	14.71	14.71	
15	16QAM	1	37	14.65	14.75	14.69	14.3
15	16QAM	1	74	14.69	14.79	14.77	
15	16QAM	36	0	13.30	13.41	13.42	
15	16QAM	36	20	13.44	13.45	13.43	
15	16QAM	36	39	13.52	13.58	13.54	14.3
15	16QAM	75	0	13.42	13.42	13.54	
15	64QAM	1	0	13.58	13.66	13.57	
15	64QAM	1	37	13.61	13.76	13.60	
15	64QAM	1	74	13.65	13.73	13.72	14.3
15	64QAM	36	0	13.28	13.33	13.46	
15	64QAM	36	20	13.43	13.50	13.43	
15	64QAM	36	39	13.56	13.50	13.52	
15	64QAM	75	0	13.45	13.41	13.52	10.3
15	256QAM	1	0	9.43	9.65	9.52	
15	256QAM	1	37	9.53	9.64	9.54	
15	256QAM	1	74	9.54	9.69	9.59	
15	256QAM	36	0	9.22	9.23	9.33	10.3
15	256QAM	36	20	9.35	9.37	9.41	
15	256QAM	36	39	9.43	9.37	9.42	
15	256QAM	75	0	9.35	9.29	9.51	
Channel				133172	133272	133422	16.3
Frequency (MHz)				668	678	693	
10	QPSK	1	0	15.28	15.46	15.40	15.3
10	QPSK	1	25	15.32	15.34	15.23	
10	QPSK	1	49	15.40	15.38	15.45	
10	QPSK	25	0	14.27	14.53	14.43	
10	QPSK	25	12	14.39	14.38	14.38	15.3
10	QPSK	25	25	14.48	14.52	14.44	
10	QPSK	50	0	14.40	14.36	14.43	
10	16QAM	1	0	14.63	14.66	14.65	
10	16QAM	1	25	14.69	14.75	14.73	14.3
10	16QAM	1	49	14.65	14.74	14.67	
10	16QAM	25	0	13.37	13.34	13.37	
10	16QAM	25	12	13.46	13.45	13.45	
10	16QAM	25	25	13.48	13.55	13.55	14.3
10	16QAM	50	0	13.50	13.43	13.56	
10	64QAM	1	0	13.59	13.70	13.63	
10	64QAM	1	25	13.59	13.78	13.61	
10	64QAM	1	49	13.65	13.83	13.73	14.3
10	64QAM	25	0	13.22	13.34	13.46	
10	64QAM	25	12	13.45	13.43	13.44	
10	64QAM	25	25	13.48	13.48	13.56	
10	64QAM	50	0	13.45	13.37	13.62	10.3
10	256QAM	1	0	9.51	9.65	9.54	
10	256QAM	1	25	9.43	9.65	9.57	
10	256QAM	1	49	9.53	9.66	9.55	
10	256QAM	25	0	9.18	9.18	9.32	10.3
10	256QAM	25	12	9.42	9.34	9.33	
10	256QAM	25	25	9.42	9.45	9.40	
10	256QAM	50	0	9.44	9.27	9.42	
Channel				133147	133247	133447	16.3
Frequency (MHz)				665.5	675.5	695.5	
5	QPSK	1	0	15.27	15.45	15.32	15.3
5	QPSK	1	12	15.24	15.32	15.29	
5	QPSK	1	24	15.39	15.39	15.44	
5	QPSK	12	0	14.24	14.51	14.49	
5	QPSK	12	7	14.29	14.33	14.47	15.3

5	QPSK	12	13	14.42	14.45	14.46	10.3
5	QPSK	25	0	14.44	14.44	14.46	
5	16QAM	1	0	14.58	14.65	14.66	15.3
5	16QAM	1	12	14.63	14.78	14.67	
5	16QAM	1	24	14.66	14.72	14.70	
5	16QAM	12	0	13.35	13.38	13.40	
5	16QAM	12	7	13.49	13.49	13.51	14.3
5	16QAM	12	13	13.53	13.53	13.54	
5	16QAM	25	0	13.48	13.41	13.57	
5	64QAM	1	0	13.55	13.67	13.60	
5	64QAM	1	12	13.57	13.76	13.62	14.3
5	64QAM	1	24	13.62	13.77	13.74	
5	64QAM	12	0	13.25	13.27	13.37	
5	64QAM	12	7	13.51	13.47	13.47	
5	64QAM	12	13	13.48	13.53	13.53	14.3
5	64QAM	25	0	13.45	13.37	13.58	
5	256QAM	1	0	9.49	9.59	9.52	10.3
5	256QAM	1	12	9.48	9.57	9.49	
5	256QAM	1	24	9.63	9.66	9.57	
5	256QAM	12	0	9.18	9.28	9.28	
5	256QAM	12	7	9.35	9.42	9.42	10.3
5	256QAM	12	13	9.39	9.47	9.39	
5	256QAM	25	0	9.34	9.25	9.48	



5	16QAM	1	12	20.75	20.77	20.78	21.5
5	16QAM	1	24	20.67	20.62	20.59	
5	16QAM	12	0	19.68	19.72	19.57	
5	16QAM	12	7	19.77	19.73	19.74	20.5
5	16QAM	12	13	19.60	19.63	19.58	
5	16QAM	25	0	19.63	19.66	19.62	
5	64QAM	1	0	19.74	19.82	19.71	20.5
5	64QAM	1	12	19.55	19.61	19.65	
5	64QAM	1	24	19.62	19.64	19.68	
5	64QAM	12	0	19.56	19.65	19.64	20.5
5	64QAM	12	7	19.68	19.61	19.60	
5	64QAM	12	13	19.49	19.56	19.44	
5	64QAM	25	0	19.40	19.56	19.44	16.5
5	256QAM	1	0	15.73	15.77	15.72	
5	256QAM	1	12	15.59	15.65	15.72	
5	256QAM	1	24	15.61	15.63	15.63	16.5
5	256QAM	12	0	15.60	15.63	15.60	
5	256QAM	12	7	15.77	15.79	15.71	
5	256QAM	12	13	15.71	15.74	15.58	16.5
5	256QAM	25	0	15.61	15.79	15.66	

5	16QAM	1	12	13.84	13.86	13.87	14.6
5	16QAM	1	24	13.76	13.71	13.68	
5	16QAM	12	0	12.77	12.81	12.66	
5	16QAM	12	7	12.86	12.82	12.83	13.6
5	16QAM	12	13	12.69	12.72	12.67	
5	16QAM	25	0	12.72	12.75	12.71	
5	64QAM	1	0	12.83	12.91	12.80	13.6
5	64QAM	1	12	12.64	12.70	12.74	
5	64QAM	1	24	12.71	12.73	12.77	
5	64QAM	12	0	12.65	12.74	12.73	13.6
5	64QAM	12	7	12.77	12.70	12.69	
5	64QAM	12	13	12.58	12.65	12.53	
5	64QAM	25	0	12.49	12.65	12.53	9.6
5	256QAM	1	0	8.82	8.86	8.81	
5	256QAM	1	12	8.68	8.74	8.81	
5	256QAM	1	24	8.70	8.72	8.72	9.6
5	256QAM	12	0	8.69	8.72	8.69	
5	256QAM	12	7	8.86	8.88	8.80	
5	256QAM	12	13	8.80	8.83	8.67	9.6
5	256QAM	25	0	8.70	8.88	8.75	



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Combination:20MHz+20MHz(100RB+100RB)

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PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
20850	20850	21048	QPSK	1	0	0	0	1	0	19.06	19.80
21100	21001	21199	QPSK	1	0	0	0	1	0	19.10	19.80
21350	21152	21350	QPSK	1	0	0	0	1	0	19.08	19.80
20850	20850	21048	16QAM	1	0	0	0	1	0	18.16	18.80
21100	21001	21199	16QAM	1	0	0	0	1	0	18.17	18.80
21350	21152	21350	16QAM	1	0	0	0	1	0	18.13	18.80
20850	20850	21048	64QAM	1	0	0	0	1	0	17.19	17.80
21100	21001	21199	64QAM	1	0	0	0	1	0	17.30	17.80
21350	21152	21350	64QAM	1	0	0	0	1	0	17.16	17.80
20850	20850	21048	256QAM	1	0	0	0	1	0	14.11	14.80
21100	21001	21199	256QAM	1	0	0	0	1	0	14.12	14.80
21350	21152	21350	256QAM	1	0	0	0	1	0	14.05	14.80
20850	20850	21048	QPSK	50	0	0	0	1	0	18.10	18.80
21100	21001	21199	QPSK	50	0	0	0	1	0	18.17	18.80
21350	21152	21350	QPSK	50	0	0	0	1	0	18.08	18.80

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Combination:20MHz+20MHz(100RB+100RB)

PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
20850	20850	21048	QPSK	1	0	0	0	1	0	10.09	10.80
21100	21001	21199	QPSK	1	0	0	0	1	0	10.10	10.80
21350	21152	21350	QPSK	1	0	0	0	1	0	10.00	10.80
20850	20850	21048	16QAM	1	0	0	0	1	0	9.19	9.80
21100	21001	21199	16QAM	1	0	0	0	1	0	9.30	9.80
21350	21152	21350	16QAM	1	0	0	0	1	0	9.23	9.80
20850	20850	21048	64QAM	1	0	0	0	1	0	8.26	8.80
21100	21001	21199	64QAM	1	0	0	0	1	0	8.27	8.80
21350	21152	21350	64QAM	1	0	0	0	1	0	8.22	8.80
20850	20850	21048	256QAM	1	0	0	0	1	0	5.11	5.80
21100	21001	21199	256QAM	1	0	0	0	1	0	5.13	5.80
21350	21152	21350	256QAM	1	0	0	0	1	0	5.12	5.80
20850	20850	21048	QPSK	50	0	0	0	1	0	9.18	9.80
21100	21001	21199	QPSK	50	0	0	0	1	0	9.26	9.80
21350	21152	21350	QPSK	50	0	0	0	1	0	9.17	9.80

CA_12B Ant 0

Combination:5MHz+10MHz(25RB+50RB)

PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
23060	23038	23110	QPSK	1	0	0	0	1	0	13.82	14.60
23095	23048	23120	QPSK	1	0	0	0	1	0	13.90	14.60
23130	23058	23130	QPSK	1	0	0	0	1	0	13.78	14.60
23060	23038	23110	16QAM	1	0	0	0	1	0	12.87	13.60
23095	23048	23120	16QAM	1	0	0	0	1	0	12.93	13.60
23130	23058	23130	16QAM	1	0	0	0	1	0	12.89	13.60
23060	23038	23110	64QAM	1	0	0	0	1	0	11.79	12.60
23095	23048	23120	64QAM	1	0	0	0	1	0	11.87	12.60
23130	23058	23130	64QAM	1	0	0	0	1	0	11.88	12.60
23060	23038	23110	256QAM	1	0	0	0	1	0	8.82	9.60
23095	23048	23120	256QAM	1	0	0	0	1	0	8.79	9.60
23130	23058	23130	256QAM	1	0	0	0	1	0	8.77	9.60
23060	23038	23110	QPSK	25	0	0	0	1	0	12.81	13.60
23095	23048	23120	QPSK	25	0	0	0	1	0	12.84	13.60
23130	23058	23130	QPSK	25	0	0	0	1	0	12.78	13.60

CA_38C Ant 5

Combination:20MHz+20MHz(100RB+100RB)

PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
37850	37850	38048	QPSK	1	0	0	0	1	0	20.72	21.30
38000	37901	38099	QPSK	1	0	0	0	1	0	20.75	21.30
38150	37952	38150	QPSK	1	0	0	0	1	0	20.73	21.30

3-MORLAB	37850	38048	16QAM	1	0	0	0	1	0	19.84	20.30
38000	37901	38099	16QAM	1	0	0	0	1	0	19.89	20.30
38150	37952	38150	16QAM	1	0	0	0	1	0	19.88	20.30
37850	37850	38048	64QAM	1	0	0	0	1	0	18.61	19.30
38000	37901	38099	64QAM	1	0	0	0	1	0	18.64	19.30
38150	37952	38150	64QAM	1	0	0	0	1	0	18.62	19.30
37850	37850	38048	256QAM	1	0	0	0	1	0	15.68	16.30
38000	37901	38099	256QAM	1	0	0	0	1	0	15.72	16.30
38150	37952	38150	256QAM	1	0	0	0	1	0	15.70	16.30
37850	37850	38048	QPSK	50	0	0	0	1	0	19.63	20.30
38000	37901	38099	QPSK	50	0	0	0	1	0	19.65	20.30
38150	37952	38150	QPSK	50	0	0	0	1	0	19.64	20.30

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CA_38C Ant 0											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
37850	37850	38048	QPSK	1	0	0	0	1	0	13.64	14.30
38000	37901	38099	QPSK	1	0	0	0	1	0	13.73	14.30
38150	37952	38150	QPSK	1	0	0	0	1	0	13.69	14.30
37850	37850	38048	16QAM	1	0	0	0	1	0	12.68	13.30
38000	37901	38099	16QAM	1	0	0	0	1	0	12.71	13.30
38150	37952	38150	16QAM	1	0	0	0	1	0	12.67	13.30
37850	37850	38048	64QAM	1	0	0	0	1	0	11.66	12.30
38000	37901	38099	64QAM	1	0	0	0	1	0	11.74	12.30
38150	37952	38150	64QAM	1	0	0	0	1	0	11.69	12.30
37850	37850	38048	256QAM	1	0	0	0	1	0	8.60	9.30
38000	37901	38099	256QAM	1	0	0	0	1	0	8.66	9.30
38150	37952	38150	256QAM	1	0	0	0	1	0	8.59	9.30
37850	37850	38048	QPSK	50	0	0	0	1	0	12.66	13.30
38000	37901	38099	QPSK	50	0	0	0	1	0	12.67	13.30
38150	37952	38150	QPSK	50	0	0	0	1	0	12.62	13.30

CA_41C Ant 5 (PC3)											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	21.61	22.30
40620	40521	40719	QPSK	1	0	0	0	1	0	21.68	22.30
41490	41292	41490	QPSK	1	0	0	0	1	0	21.63	22.30
39750	39750	39948	16QAM	1	0	0	0	1	0	20.74	21.30
40620	40521	40719	16QAM	1	0	0	0	1	0	20.83	21.30
41490	41292	41490	16QAM	1	0	0	0	1	0	20.81	21.30
39750	39750	39948	64QAM	1	0	0	0	1	0	19.78	20.30
40620	40521	40719	64QAM	1	0	0	0	1	0	19.84	20.30
41490	41292	41490	64QAM	1	0	0	0	1	0	19.76	20.30
39750	39750	39948	256QAM	1	0	0	0	1	0	16.61	17.30
40620	40521	40719	256QAM	1	0	0	0	1	0	16.74	17.30
41490	41292	41490	256QAM	1	0	0	0	1	0	16.65	17.30
39750	39750	39948	QPSK	50	0	0	0	1	0	20.76	21.30
40620	40521	40719	QPSK	50	0	0	0	1	0	20.88	21.30
41490	41292	41490	QPSK	50	0	0	0	1	0	20.72	21.30

CA_41C Ant 0 (PC3)											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	14.54	15.20
40620	40521	40719	QPSK	1	0	0	0	1	0	14.63	15.20
41490	41292	41490	QPSK	1	0	0	0	1	0	14.59	15.20
39750	39750	39948	16QAM	1	0	0	0	1	0	13.72	14.20
40620	40521	40719	16QAM	1	0	0	0	1	0	13.78	14.20
41490	41292	41490	16QAM	1	0	0	0	1	0	13.77	14.20
39750	39750	39948	64QAM	1	0	0	0	1	0	12.65	13.20
40620	40521	40719	64QAM	1	0	0	0	1	0	12.75	13.20
41490	41292	41490	64QAM	1	0	0	0	1	0	12.69	13.20
39750	39750	39948	256QAM	1	0	0	0	1	0	8.73	10.20
40620	40521	40719	256QAM	1	0	0	0	1	0	8.84	10.20
41490	41292	41490	256QAM	1	0	0	0	1	0	8.78	10.20

3-MORLAB	39750	39948	QPSK	50	0	0	0	1	0	13.69	14.20
40620	40521	40719	QPSK	50	0	0	0	1	0	13.76	14.20
41490	41292	41490	QPSK	50	0	0	0	1	0	13.72	14.20

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CA_41C Ant 5 (PC2)											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	22.64	23.30
40620	40521	40719	QPSK	1	0	0	0	1	0	22.71	23.30
41490	41292	41490	QPSK	1	0	0	0	1	0	22.66	23.30
39750	39750	39948	16QAM	1	0	0	0	1	0	21.77	22.30
40620	40521	40719	16QAM	1	0	0	0	1	0	21.86	22.30
41490	41292	41490	16QAM	1	0	0	0	1	0	21.84	22.30
39750	39750	39948	64QAM	1	0	0	0	1	0	20.81	21.30
40620	40521	40719	64QAM	1	0	0	0	1	0	20.87	21.30
41490	41292	41490	64QAM	1	0	0	0	1	0	20.79	21.30
39750	39750	39948	256QAM	1	0	0	0	1	0	17.64	18.30
40620	40521	40719	256QAM	1	0	0	0	1	0	17.77	18.30
41490	41292	41490	256QAM	1	0	0	0	1	0	17.68	18.30
39750	39750	39948	QPSK	50	0	0	0	1	0	21.79	22.30
40620	40521	40719	QPSK	50	0	0	0	1	0	21.91	22.30
41490	41292	41490	QPSK	50	0	0	0	1	0	21.75	22.30

CA_41C Ant 0 (PC2)											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	15.59	16.30
40620	40521	40719	QPSK	1	0	0	0	1	0	15.68	16.30
41490	41292	41490	QPSK	1	0	0	0	1	0	15.64	16.30
39750	39750	39948	16QAM	1	0	0	0	1	0	14.77	15.30
40620	40521	40719	16QAM	1	0	0	0	1	0	14.83	15.30
41490	41292	41490	16QAM	1	0	0	0	1	0	14.82	15.30
39750	39750	39948	64QAM	1	0	0	0	1	0	13.70	14.30
40620	40521	40719	64QAM	1	0	0	0	1	0	13.80	14.30
41490	41292	41490	64QAM	1	0	0	0	1	0	13.74	14.30
39750	39750	39948	256QAM	1	0	0	0	1	0	10.72	11.30
40620	40521	40719	256QAM	1	0	0	0	1	0	10.76	11.30
41490	41292	41490	256QAM	1	0	0	0	1	0	10.67	11.30
39750	39750	39948	QPSK	50	0	0	0	1	0	14.74	15.30
40620	40521	40719	QPSK	50	0	0	0	1	0	14.81	15.30
41490	41292	41490	QPSK	50	0	0	0	1	0	14.77	15.30

CA_48C Ant 8											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
55340	55340	55538	QPSK	1	0	0	0	1	0	10.09	10.80
55990	55891	56089	QPSK	1	0	0	0	1	0	10.22	10.80
56640	56442	56640	QPSK	1	0	0	0	1	0	10.18	10.80
55340	55340	55538	16QAM	1	0	0	0	1	0	9.13	9.80
55990	55891	56089	16QAM	1	0	0	0	1	0	9.22	9.80
56640	56442	56640	16QAM	1	0	0	0	1	0	9.19	9.80
55340	55340	55538	64QAM	1	0	0	0	1	0	8.10	8.80
55990	55891	56089	64QAM	1	0	0	0	1	0	8.21	8.80
56640	56442	56640	64QAM	1	0	0	0	1	0	8.16	8.80
55340	55340	55538	256QAM	1	0	0	0	1	0	5.13	5.80
55990	55891	56089	256QAM	1	0	0	0	1	0	5.14	5.80
56640	56442	56640	256QAM	1	0	0	0	1	0	5.12	5.80
55340	55340	55538	QPSK	50	0	0	0	1	0	9.16	9.80
55990	55891	56089	QPSK	50	0	0	0	1	0	9.25	9.80
56640	56442	56640	QPSK	50	0	0	0	1	0	9.17	9.80

CA_48C Ant 9											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
55340	55340	55538	QPSK	1	0	0	0	1	0	11.15	11.90

5-MORLAB	55891	56089	QPSK	1	0	0	0	1	0	11.18	11.90
56640	56442	56640	QPSK	1	0	0	0	1	0	11.18	11.90
55340	55340	55538	16QAM	1	0	0	0	1	0	10.20	10.90
55990	55891	56089	16QAM	1	0	0	0	1	0	10.23	10.90
56640	56442	56640	16QAM	1	0	0	0	1	0	10.16	10.90
55340	55340	55538	64QAM	1	0	0	0	1	0	9.16	9.90
55990	55891	56089	64QAM	1	0	0	0	1	0	9.21	9.90
56640	56442	56640	64QAM	1	0	0	0	1	0	9.17	9.90
55340	55340	55538	256QAM	1	0	0	0	1	0	6.04	6.90
55990	55891	56089	256QAM	1	0	0	0	1	0	6.10	6.90
56640	56442	56640	256QAM	1	0	0	0	1	0	6.05	6.90
55340	55340	55538	QPSK	50	0	0	0	1	0	10.10	10.90
55990	55891	56089	QPSK	50	0	0	0	1	0	10.18	10.90
56640	56442	56640	QPSK	50	0	0	0	1	0	10.05	10.90

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CA_48C Ant 4											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
55340	55340	55538	QPSK	1	0	0	0	1	0	11.81	12.50
55990	55891	56089	QPSK	1	0	0	0	1	0	11.86	12.50
56640	56442	56640	QPSK	1	0	0	0	1	0	11.76	12.50
55340	55340	55538	16QAM	1	0	0	0	1	0	10.76	11.50
55990	55891	56089	16QAM	1	0	0	0	1	0	10.79	11.50
56640	56442	56640	16QAM	1	0	0	0	1	0	10.73	11.50
55340	55340	55538	64QAM	1	0	0	0	1	0	9.73	10.50
55990	55891	56089	64QAM	1	0	0	0	1	0	9.80	10.50
56640	56442	56640	64QAM	1	0	0	0	1	0	9.68	10.50
55340	55340	55538	256QAM	1	0	0	0	1	0	6.68	7.50
55990	55891	56089	256QAM	1	0	0	0	1	0	6.75	7.50
56640	56442	56640	256QAM	1	0	0	0	1	0	6.69	7.50
55340	55340	55538	QPSK	50	0	0	0	1	0	10.71	11.50
55990	55891	56089	QPSK	50	0	0	0	1	0	10.82	11.50
56640	56442	56640	QPSK	50	0	0	0	1	0	10.68	11.50

CA_48C Ant 11											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
55340	55340	55538	QPSK	1	0	0	0	1	0	9.84	10.60
55990	55891	56089	QPSK	1	0	0	0	1	0	9.89	10.60
56640	56442	56640	QPSK	1	0	0	0	1	0	9.79	10.60
55340	55340	55538	16QAM	1	0	0	0	1	0	8.79	9.60
55990	55891	56089	16QAM	1	0	0	0	1	0	8.82	9.60
56640	56442	56640	16QAM	1	0	0	0	1	0	8.76	9.60
55340	55340	55538	64QAM	1	0	0	0	1	0	7.76	8.60
55990	55891	56089	64QAM	1	0	0	0	1	0	7.83	8.60
56640	56442	56640	64QAM	1	0	0	0	1	0	7.71	8.60
55340	55340	55538	256QAM	1	0	0	0	1	0	4.71	5.60
55990	55891	56089	256QAM	1	0	0	0	1	0	4.78	5.60
56640	56442	56640	256QAM	1	0	0	0	1	0	4.72	5.60
55340	55340	55538	QPSK	50	0	0	0	1	0	8.74	9.60
55990	55891	56089	QPSK	50	0	0	0	1	0	8.85	9.60
56640	56442	56640	QPSK	50	0	0	0	1	0	8.71	9.60

CA_66B Ant 5											
Combination:15MHz+10MHz(75RB+25RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
132070	132047	132140	QPSK	1	0	0	0	1	0	18.72	19.30
132322	132398	132491	QPSK	1	0	0	0	1	0	18.76	19.30
132572	132549	132642	QPSK	1	0	0	0	1	0	18.67	19.30
132070	132047	132140	16QAM	1	0	0	0	1	0	17.60	18.30
132322	132398	132491	16QAM	1	0	0	0	1	0	17.73	18.30
132572	132549	132642	16QAM	1	0	0	0	1	0	17.64	18.30
132070	132047	132140	64QAM	1	0	0	0	1	0	16.72	17.30
132322	132398	132491	64QAM	1	0	0	0	1	0	16.84	17.30
132572	132549	132642	64QAM	1	0	0	0	1	0	16.74	17.30
132070	132047	132140	256QAM	1	0	0	0	1	0	13.64	14.30

132070	132398	132491	256QAM	1	0	0	0	1	0	13.72	14.30
132572	132549	132642	256QAM	1	0	0	0	1	0	13.65	14.30
132070	132047	132140	QPSK	36	0	0	0	1	0	17.60	18.30
132322	132398	132491	QPSK	36	0	0	0	1	0	17.69	18.30
132572	132549	132642	QPSK	36	0	0	0	1	0	17.63	18.30

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CA_66B Ant 0											
Combination:15MHz+10MHz(75RB+25RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
132070	132047	132140	QPSK	1	0	0	0	1	0	11.52	12.30
132322	132398	132491	QPSK	1	0	0	0	1	0	11.56	12.30
132572	132549	132642	QPSK	1	0	0	0	1	0	11.47	12.30
132070	132047	132140	16QAM	1	0	0	0	1	0	10.40	11.30
132322	132398	132491	16QAM	1	0	0	0	1	0	10.53	11.30
132572	132549	132642	16QAM	1	0	0	0	1	0	10.44	11.30
132070	132047	132140	64QAM	1	0	0	0	1	0	9.52	10.30
132322	132398	132491	64QAM	1	0	0	0	1	0	9.64	10.30
132572	132549	132642	64QAM	1	0	0	0	1	0	9.54	10.30
132070	132047	132140	256QAM	1	0	0	0	1	0	6.44	7.30
132322	132398	132491	256QAM	1	0	0	0	1	0	6.52	7.30
132572	132549	132642	256QAM	1	0	0	0	1	0	6.45	7.30
132070	132047	132140	QPSK	36	0	0	0	1	0	10.40	11.30
132322	132398	132491	QPSK	36	0	0	0	1	0	10.49	11.30
132572	132549	132642	QPSK	36	0	0	0	1	0	10.43	11.30

CA_66C Ant 5											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
132070	132072	132270	QPSK	1	0	0	0	1	0	18.57	19.30
132322	132323	132521	QPSK	1	0	0	0	1	0	18.61	19.30
132572	132374	132572	QPSK	1	0	0	0	1	0	18.52	19.30
132070	132072	132270	16QAM	1	0	0	0	1	0	17.54	18.30
132322	132323	132521	16QAM	1	0	0	0	1	0	17.67	18.30
132572	132374	132572	16QAM	1	0	0	0	1	0	17.58	18.30
132070	132072	132270	64QAM	1	0	0	0	1	0	16.57	17.30
132322	132323	132521	64QAM	1	0	0	0	1	0	16.69	17.30
132572	132374	132572	64QAM	1	0	0	0	1	0	16.59	17.30
132070	132072	132270	256QAM	1	0	0	0	1	0	13.64	14.30
132322	132323	132521	256QAM	1	0	0	0	1	0	13.69	14.30
132572	132374	132572	256QAM	1	0	0	0	1	0	13.58	14.30
132070	132072	132270	QPSK	50	0	0	0	1	0	17.45	18.00
132322	132323	132521	QPSK	50	0	0	0	1	0	17.54	18.00
132572	132374	132572	QPSK	50	0	0	0	1	0	17.48	18.00

CA_66C Ant 0											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
132070	132072	132270	QPSK	1	0	0	0	1	0	11.59	12.30
132322	132323	132521	QPSK	1	0	0	0	1	0	11.63	12.30
132572	132374	132572	QPSK	1	0	0	0	1	0	11.54	12.30
132070	132072	132270	16QAM	1	0	0	0	1	0	10.47	11.30
132322	132323	132521	16QAM	1	0	0	0	1	0	10.60	11.30
132572	132374	132572	16QAM	1	0	0	0	1	0	10.51	11.30
132070	132072	132270	64QAM	1	0	0	0	1	0	9.59	10.30
132322	132323	132521	64QAM	1	0	0	0	1	0	9.71	10.30
132572	132374	132572	64QAM	1	0	0	0	1	0	9.61	10.30
132070	132072	132270	256QAM	1	0	0	0	1	0	6.55	7.30
132322	132323	132521	256QAM	1	0	0	0	1	0	6.61	7.30
132572	132374	132572	256QAM	1	0	0	0	1	0	6.53	7.30
132070	132072	132270	QPSK	50	0	0	0	1	0	10.47	11.30
132322	132323	132521	QPSK	50	0	0	0	1	0	10.56	11.30
132572	132374	132572	QPSK	50	0	0	0	1	0	10.50	11.30

n2 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	10.77	10.72	10.47	11.8
20		1	53	10.74	10.69	10.58	
20		1	104	10.76	10.55	10.60	
20		50	1	10.17	9.97	9.84	11.8
20	DFT-s-OFDM QPSK	50	25	10.75	10.59	10.50	
20		50	50	10.15	9.95	9.93	
20		100	0	10.26	10.07	9.99	
20		1	1	10.83	10.91	10.85	11.8
20	DFT-s-OFDM 16QAM	1	53	10.77	10.68	10.53	
20		1	104	10.77	10.54	10.27	
20		50	1	9.95	9.91	9.84	11.8
20		50	25	10.80	10.86	10.76	
20	DFT-s-OFDM 64QAM	50	50	9.99	9.98	9.90	
20		100	0	10.60	10.70	10.65	
20	DFT-s-OFDM 256QAM	1	1	9.85	9.91	9.77	10.8
20	CP-OFDM QPSK	1	1	7.76	7.92	7.67	8.8
20	CP-OFDM 16QAM	1	1	5.67	5.57	5.45	6.8
20	CP-OFDM 64QAM	1	1	9.10	9.23	9.15	9.8
20	CP-OFDM 256QAM	1	1	8.56	8.54	8.37	9.8
20		1	1	6.66	6.55	6.39	7.8
20		1	1	3.62	3.57	3.47	4.8
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	10.80	10.72	10.54	11.8
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	10.44	10.65	10.55	11.8
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	10.58	10.73	10.20	11.8

n2 (PC3)(ANT4)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	10.37	10.31	10.16	11.2
20		1	53	10.35	10.29	10.15	
20		1	104	10.28	10.18	10.24	
20		50	1	9.73	9.70	9.63	11.2
20	DFT-s-OFDM QPSK	50	25	10.33	10.29	10.17	
20		50	50	9.76	9.66	9.58	
20		100	0	9.81	9.76	9.65	
20		1	1	10.38	10.40	10.35	11.2
20	DFT-s-OFDM 16QAM	1	53	10.29	10.27	9.88	
20		1	104	10.38	10.24	10.26	
20		50	1	9.24	9.25	9.29	11.2
20		50	25	10.36	10.37	10.31	
20	DFT-s-OFDM 64QAM	50	50	9.28	9.22	10.23	
20		100	0	10.24	10.26	10.10	
20	DFT-s-OFDM 256QAM	1	1	9.02	9.13	8.88	10.2
20	CP-OFDM QPSK	1	1	7.44	7.50	7.34	9.2
20	CP-OFDM 16QAM	1	1	5.24	5.15	5.04	6.2
20	CP-OFDM 64QAM	1	1	8.83	8.89	8.71	10.2
20	CP-OFDM 256QAM	1	1	8.18	8.23	8.00	9.2
20		1	1	6.29	6.25	6.04	7.2
20		1	1	3.26	3.27	3.13	4.2
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	10.27	10.23	10.16	11.2
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	10.33	10.24	10.09	11.2
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	10.20	10.06	10.02	11.2

n2 (PC3)(ANT5)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	19.69	19.69	19.57	20.7
20		1	53	19.70	19.65	19.55	
20		1	104	19.63	19.58	19.62	
20		50	1	19.11	19.10	18.93	20.7
20		50	25	19.67	19.69	19.64	
20		50	50	19.06	18.88	18.98	
20		100	0	19.18	19.06	19.04	
20	DFT-s-OFDM QPSK	1	1	19.70	19.75	19.68	20.7
20		1	53	19.67	19.64	19.56	
20		1	104	19.61	19.53	19.51	
20		50	1	18.81	18.87	18.70	20.7
20		50	25	19.68	19.70	19.66	
20		50	50	18.88	18.93	18.84	
20		100	0	19.51	19.59	19.57	
20	DFT-s-OFDM 16QAM	1	1	18.50	18.51	18.32	19.7
20	DFT-s-OFDM 64QAM	1	1	16.99	17.03	16.84	17.7
20	DFT-s-OFDM 256QAM	1	1	14.72	14.75	14.53	15.7
20	CP-OFDM QPSK	1	1	18.33	18.38	18.16	19.7
20	CP-OFDM 16QAM	1	1	17.65	17.71	17.54	18.7
20	CP-OFDM 64QAM	1	1	15.74	15.69	15.54	16.7
20	CP-OFDM 256QAM	1	1	12.64	12.67	12.55	13.7
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	19.69	19.64	19.55	20.7
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	19.65	19.68	19.51	20.7
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	19.66	19.53	19.36	20.7

n2 (PC3)(ANT6)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	10.94	10.83	10.68	11.7
20		1	53	10.92	10.81	10.70	
20		1	104	10.93	10.71	10.78	
20		50	1	10.40	10.24	10.11	11.7
20		50	25	11.00	10.73	10.67	
20		50	50	10.36	10.23	10.03	
20		100	0	10.48	10.26	10.09	
20	DFT-s-OFDM QPSK	1	1	10.98	11.04	10.90	11.7
20		1	53	10.89	10.90	10.60	
20		1	104	10.94	10.97	10.85	
20		50	1	9.82	9.89	9.76	11.7
20		50	25	10.92	10.96	10.82	
20		50	50	9.87	9.85	9.78	
20		100	0	10.83	10.86	10.72	
20	DFT-s-OFDM 16QAM	1	1	9.77	9.72	9.46	10.7
20	DFT-s-OFDM 64QAM	1	1	8.14	8.14	7.82	8.7
20	DFT-s-OFDM 256QAM	1	1	5.85	5.78	5.56	6.7
20	CP-OFDM QPSK	1	1	9.58	9.46	9.32	10.7
20	CP-OFDM 16QAM	1	1	8.81	8.83	8.56	9.7
20	CP-OFDM 64QAM	1	1	6.90	6.81	6.55	7.7
20	CP-OFDM 256QAM	1	1	3.88	3.78	3.58	4.7
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	11.00	10.86	10.68	11.7
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	10.96	10.82	10.49	11.7
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	10.79	10.68	10.42	11.7

n5 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	15
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	13.93	13.88	13.86	15
20		1	53	13.77	13.81	13.79	
20		1	104	13.81	13.80	13.74	
20		50	1	13.10	13.06	13.11	15
20	DFT-s-OFDM QPSK	50	25	13.74	13.65	13.61	
20		50	50	13.10	13.06	13.04	
20		100	0	13.23	13.28	13.25	
20		1	1	13.88	13.96	13.90	15
20	DFT-s-OFDM 16QAM	1	53	13.72	13.74	13.74	
20		1	104	13.70	13.80	13.81	
20		50	1	13.28	13.26	13.25	15
20		50	25	13.81	13.84	13.73	
20	DFT-s-OFDM 64QAM	50	50	13.25	13.21	13.20	
20		100	0	13.81	13.78	13.76	
20	CP-OFDM QPSK	1	1	12.31	12.35	12.35	13
20	CP-OFDM 16QAM	1	1	10.94	11.00	10.96	12
20	CP-OFDM 64QAM	1	1	8.48	8.40	8.45	9
20	CP-OFDM 256QAM	1	1	12.04	11.98	12.01	13
20	CP-OFDM 16QAM	1	1	11.42	11.41	11.43	12
20	CP-OFDM 64QAM	1	1	9.53	9.49	9.45	10
20	CP-OFDM 256QAM	1	1	6.41	6.45	6.44	7
Channel				166300	167300	168300	15
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	13.90	13.87	13.80	15
Channel				165800	167300	168800	15
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	13.84	13.76	13.78	15
Channel				165300	167300	169300	15
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	13.77	13.67	13.62	15

n7 (PC3) (ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	DFT-s-OFDM PI/2 BPSK	1	1	8.43	8.51	8.65	10.2
40		1	108	8.39	8.48	8.46	
40		1	214	8.66	8.65	8.58	
40		108	1	8.20	8.30	8.39	10.2
40		108	54	8.56	8.66	8.62	
40		108	108	8.27	8.33	8.22	
40		216	0	8.30	8.33	8.42	
40	DFT-s-OFDM QPSK	1	1	9.25	9.32	9.27	10.2
40		1	108	9.22	9.20	9.25	
40		1	214	9.14	9.23	9.10	
40		108	1	8.25	8.31	8.21	10.2
40		108	54	9.12	9.15	8.99	
40		108	108	8.23	8.27	8.17	
40		216	0	8.72	8.74	8.71	
40	DFT-s-OFDM 16QAM	1	1	8.05	7.90	8.43	9.2
40	DFT-s-OFDM 64QAM	1	1	5.70	6.00	5.70	7.2
40	DFT-s-OFDM 256QAM	1	1	4.03	4.12	3.70	6.2
40	CP-OFDM QPSK	1	1	6.70	6.75	6.73	8.2
40	CP-OFDM 16QAM	1	1	5.76	5.85	5.72	7.2
40	CP-OFDM 64QAM	1	1	5.25	5.43	5.48	6.2
40	CP-OFDM 256QAM	1	1	1.75	1.72	2.05	3.2
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	DFT-s-OFDM QPSK	1	1	8.96	9.18	8.89	10.2
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	DFT-s-OFDM QPSK	1	1	8.82	9.21	8.93	10.2
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	DFT-s-OFDM QPSK	1	1	8.92	9.28	8.92	10.2
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	DFT-s-OFDM QPSK	1	1	9.00	9.23	9.21	10.2
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	DFT-s-OFDM QPSK	1	1	9.04	9.30	9.29	10.2
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	DFT-s-OFDM QPSK	1	1	8.95	9.23	9.22	10.2

n7 (PC3)(ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	DFT-s-OFDM PI/2 BPSK	1	1	11.20	11.30	11.35	12.7
40		1	108	11.23	11.27	11.24	
40		1	214	11.48	11.48	11.38	
40		108	1	10.70	10.79	10.85	12.7
40		108	54	11.35	11.48	11.43	
40		108	108	10.83	10.76	10.80	
40		216	0	10.87	10.88	10.88	
40	DFT-s-OFDM QPSK	1	1	11.95	12.02	11.93	12.7
40		1	108	11.83	11.73	11.63	
40		1	214	11.48	11.82	11.55	
40		108	1	10.77	11.12	10.81	12.7
40		108	54	11.80	11.85	11.83	
40		108	108	11.03	10.74	10.83	
40		216	0	11.72	11.75	11.76	
40	DFT-s-OFDM 16QAM	1	1	10.35	10.58	10.95	11.7
40	DFT-s-OFDM 64QAM	1	1	8.69	9.02	9.34	9.7
40	DFT-s-OFDM 256QAM	1	1	6.79	7.12	7.22	7.7
40	CP-OFDM QPSK	1	1	9.88	10.07	10.03	10.7
40	CP-OFDM 16QAM	1	1	9.55	9.56	10.12	10.7
40	CP-OFDM 64QAM	1	1	7.86	7.99	8.14	8.7
40	CP-OFDM 256QAM	1	1	4.94	5.00	5.18	5.7
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	DFT-s-OFDM QPSK	1	1	11.73	11.90	11.86	12.7
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	DFT-s-OFDM QPSK	1	1	11.82	12.01	11.93	12.7
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	DFT-s-OFDM QPSK	1	1	11.69	11.97	11.81	12.7
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	DFT-s-OFDM QPSK	1	1	11.75	12.00	11.98	12.7
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	DFT-s-OFDM QPSK	1	1	11.60	12.01	12.00	12.7
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	DFT-s-OFDM QPSK	1	1	11.75	11.83	11.78	12.7

n12 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	DFT-s-OFDM PI/2 BPSK	1	1	15.31	15.21	15.21	16.5
15		1	39	15.28	15.28	15.21	
15		1	77	15.22	15.18	15.22	
15		36	1	14.70	14.74	14.67	16.5
15		36	18	15.34	15.37	15.31	
15		36	37	14.70	14.73	14.66	
15		75	0	14.66	14.70	14.66	
15	DFT-s-OFDM QPSK	1	1	14.86	15.12	15.16	16.5
15		1	39	15.28	15.40	15.39	
15		1	77	15.29	15.24	15.24	
15		36	1	14.61	14.53	14.63	16.5
15		36	18	15.26	15.39	15.34	
15		36	37	14.61	14.64	14.57	
15		75	0	15.12	15.16	15.12	
15	DFT-s-OFDM 16QAM	1	1	13.56	13.69	13.60	15.5
15	DFT-s-OFDM 64QAM	1	1	12.00	11.96	11.93	13.5
15	DFT-s-OFDM 256QAM	1	1	9.88	9.86	9.81	11.5
15	CP-OFDM QPSK	1	1	13.12	13.19	13.16	14.5
15	CP-OFDM 16QAM	1	1	12.55	12.53	12.49	13.5
15	CP-OFDM 64QAM	1	1	10.72	10.71	10.68	11.5
15	CP-OFDM 256QAM	1	1	7.82	7.79	7.79	8.5
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	DFT-s-OFDM QPSK	1	1	15.31	15.25	15.26	16.5
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	DFT-s-OFDM QPSK	1	1	15.26	15.25	15.14	16.5

n25 (PC3)(ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				374000	376500	380000	
Frequency (MHz)				1870	1882.5	1900	
40	DFT-s-OFDM PI/2 BPSK	1	1	11.20	11.07	10.97	12.1
40		1	108	11.21	10.88	10.95	
40		1	214	11.14	10.98	11.02	
40		108	1	10.62	10.41	10.33	12.1
40		108	54	11.22	10.95	10.97	
40		108	108	10.57	10.38	10.38	
40		216	0	10.69	10.42	10.44	
40	DFT-s-OFDM QPSK	1	1	11.27	11.07	10.97	12.1
40		1	108	11.24	10.84	10.96	
40		1	214	11.12	10.94	10.91	
40		108	1	10.12	10.14	10.12	12.1
40		108	54	11.19	10.99	10.91	
40		108	108	10.13	10.20	10.14	
40		216	0	11.06	11.08	11.09	
40	DFT-s-OFDM 16QAM	1	1	10.01	9.74	9.72	11.1
40	DFT-s-OFDM 64QAM	1	1	8.50	8.17	8.24	9.1
40	DFT-s-OFDM 256QAM	1	1	6.23	6.05	5.93	7.1
40	CP-OFDM QPSK	1	1	9.84	9.58	9.56	11.1
40	CP-OFDM 16QAM	1	1	9.16	8.95	8.94	10.1
40	CP-OFDM 64QAM	1	1	7.25	7.11	6.94	8.1
40	CP-OFDM 256QAM	1	1	4.15	4.02	3.95	5.1
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	DFT-s-OFDM QPSK	1	1	11.06	10.95	10.82	12.1
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	DFT-s-OFDM QPSK	1	1	11.06	11.10	10.94	12.1
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM QPSK	1	1	11.03	10.94	10.80	12.1
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	11.08	10.97	10.87	12.1
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	11.09	10.88	10.79	12.1
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	DFT-s-OFDM QPSK	1	1	10.90	10.76	10.71	12.1

n25 (PC3)(ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	DFT-s-OFDM PI/2 BPSK	1	1	11.97	12.01	11.94	13
40		1	108	11.98	11.79	11.92	
40		1	214	11.91	11.87	11.99	
40		108	1	11.39	11.37	11.30	13
40		108	54	11.99	12.00	11.94	
40		108	108	11.34	11.30	11.35	
40		216	0	11.46	11.36	11.41	
40	DFT-s-OFDM QPSK	1	1	12.04	11.92	11.94	13
40		1	108	12.01	11.79	11.93	
40		1	214	11.89	11.87	11.88	
40		108	1	11.09	11.19	11.07	13
40		108	54	11.96	11.90	11.88	
40		108	108	11.06	11.13	11.01	
40		216	0	11.82	11.91	11.90	
40	DFT-s-OFDM 16QAM	1	1	10.78	10.78	10.69	12
40	DFT-s-OFDM 64QAM	1	1	9.27	9.22	9.21	10
40	DFT-s-OFDM 256QAM	1	1	7.00	7.08	6.90	8
40	CP-OFDM QPSK	1	1	10.61	10.61	10.53	12
40	CP-OFDM 16QAM	1	1	9.93	10.00	9.91	11
40	CP-OFDM 64QAM	1	1	8.02	8.13	7.91	9
40	CP-OFDM 256QAM	1	1	4.92	4.98	4.92	6
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	DFT-s-OFDM QPSK	1	1	11.92	11.81	11.68	13
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	DFT-s-OFDM QPSK	1	1	11.92	11.96	11.80	13
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM QPSK	1	1	11.89	11.80	11.66	13
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	11.94	11.83	11.73	13
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	11.95	11.74	11.65	13
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	DFT-s-OFDM QPSK	1	1	11.76	11.62	11.57	13

n26(814-824MHz) (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					163800		
Frequency (MHz)					819		
10	DFT-s-OFDM PI/2 BPSK	1	1		14.87		16
10		1	26		14.81		
10		1	50		14.79		
10		25	1		14.21		16
10		25	12		14.86		
10		25	25		14.22		
10		50	0		14.26		
10	DFT-s-OFDM QPSK	1	1		14.90		16
10		1	26		14.89		
10		1	50		14.87		
10		25	1		14.09		16
10		25	12		14.87		
10		25	25		14.04		
10		50	0		14.68		
10	DFT-s-OFDM 16QAM	1	1		13.60		14
10	DFT-s-OFDM 64QAM	1	1		12.22		13
10	DFT-s-OFDM 256QAM	1	1		9.79		11
10	CP-OFDM QPSK	1	1		13.10		14
10	CP-OFDM 16QAM	1	1		11.88		13
10	CP-OFDM 64QAM	1	1		10.81		12
10	CP-OFDM 256QAM	1	1		7.83		9
Channel				163300	163800	164300	Tune-up limit (dBm)
Frequency (MHz)				816.5	819	821.5	
5	DFT-s-OFDM QPSK	1	1	14.66	14.80	14.70	16

n26(824-849MHz) (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	14.18	14.34	14.22	15.5
20		1	53	14.17	14.25	14.14	
20		1	104	14.18	14.19	14.12	
20		50	1	13.59	13.61	13.61	15.5
20		50	25	14.23	14.23	14.17	
20		50	50	13.53	13.56	13.62	
20		100	0	13.74	13.75	13.66	
20	DFT-s-OFDM QPSK	1	1	14.37	14.34	14.32	15.5
20		1	53	14.25	14.32	14.29	
20		1	104	14.27	14.27	14.19	
20		50	1	13.69	13.50	13.53	15.5
20		50	25	14.28	14.26	14.17	
20		50	50	13.66	13.69	13.69	
20		100	0	14.05	14.16	14.11	
20	DFT-s-OFDM 16QAM	1	1	12.89	12.70	12.67	13.5
20	DFT-s-OFDM 64QAM	1	1	11.15	11.15	11.09	12.5
20	DFT-s-OFDM 256QAM	1	1	8.73	8.79	8.85	10.5
20	CP-OFDM QPSK	1	1	12.44	12.39	12.41	12.5
20	CP-OFDM 16QAM	1	1	11.75	11.80	11.69	12.5
20	CP-OFDM 64QAM	1	1	9.85	9.87	9.79	10.5
20	CP-OFDM 256QAM	1	1	6.78	6.90	6.74	7.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	14.32	14.31	14.27	15.5
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	14.23	14.05	14.06	15.5
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	14.29	14.12	14.12	15.5

n30 (PC3)(ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	DFT-s-OFDM PI/2 BPSK	1	1		11.35		12.7
10		1	26		11.50		
10		1	50		11.46		
10		25	1		10.84		12.7
10		25	12		11.51		
10		25	25		10.94		
10		50	0		11.24		
10	DFT-s-OFDM QPSK	1	1		11.24		12.7
10		1	26		11.53		
10		1	50		11.15		
10		25	1		10.72		12.7
10		25	12		11.49		
10		25	25		10.90		
10		50	0		11.33		
10	DFT-s-OFDM 16QAM	1	1		10.26		11.7
10	DFT-s-OFDM 64QAM	1	1		8.62		9.7
10	DFT-s-OFDM 256QAM	1	1		6.47		7.7
10	CP-OFDM QPSK	1	1		9.88		10.7
10	CP-OFDM 16QAM	1	1		9.27		9.7
10	CP-OFDM 64QAM	1	1		7.42		8.7
10	CP-OFDM 256QAM	1	1		4.43		5.7
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	DFT-s-OFDM QPSK	1	1	11.11	11.39	11.40	12.7

n38 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	11.44	11.53	11.56	12.7
40		1	53	11.29	11.19	11.25	
40		1	104	11.25	11.13	11.27	
40		50	1	10.93	10.90	10.91	12.7
40		50	25	11.49	11.36	11.46	
40		50	50	10.77	10.67	10.76	
40		100	0	11.01	10.94	10.93	
40	DFT-s-OFDM QPSK	1	1	11.55	11.59	11.62	12.7
40		1	53	11.26	11.18	11.22	
40		1	104	11.26	11.03	11.25	
40		50	1	10.76	10.72	10.73	12.7
40		50	25	11.48	11.50	11.51	
40		50	50	10.72	10.74	10.70	
40		100	0	11.50	11.50	11.45	
40	DFT-s-OFDM 16QAM	1	1	10.15	10.54	10.40	11.7
40	DFT-s-OFDM 64QAM	1	1	8.76	8.87	8.89	9.7
40	DFT-s-OFDM 256QAM	1	1	6.59	6.75	6.71	7.7
40	CP-OFDM QPSK	1	1	10.06	10.11	10.12	10.7
40	CP-OFDM 16QAM	1	1	9.44	9.45	9.53	9.7
40	CP-OFDM 64QAM	1	1	7.42	7.74	7.59	8.7
40	CP-OFDM 256QAM	1	1	4.58	4.77	4.43	5.7
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	DFT-s-OFDM QPSK	1	1	11.50	11.60	11.55	12.7
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	DFT-s-OFDM QPSK	1	1	11.39	11.51	11.45	12.7
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	DFT-s-OFDM QPSK	1	1	11.41	11.41	11.38	12.7
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	DFT-s-OFDM QPSK	1	1	11.44	11.44	11.39	12.7

n38 (PC3)(ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	9.00	9.11	9.12	10.1
40		1	53	8.85	8.88	8.81	
40		1	104	8.81	8.87	8.83	
40		50	1	8.49	8.61	8.47	10.1
40	DFT-s-OFDM QPSK	50	25	9.05	9.06	9.02	
40		50	50	8.33	8.41	8.32	
40		100	0	8.57	8.58	8.49	
40		1	1	9.11	9.14	9.18	10.1
40	DFT-s-OFDM 16QAM	1	53	8.82	8.98	8.78	
40		1	104	8.82	8.84	8.81	
40		50	1	8.22	8.19	8.19	10.1
40		50	25	9.04	9.04	9.07	
40	DFT-s-OFDM 64QAM	50	50	8.18	8.11	8.16	
40		100	0	8.95	8.96	8.89	
40	DFT-s-OFDM 256QAM	1	1	7.41	7.76	7.66	9.1
40	DFT-s-OFDM 64QAM	1	1	6.02	6.34	6.15	8.1
40	DFT-s-OFDM 256QAM	1	1	3.85	3.91	3.97	5.1
40	CP-OFDM QPSK	1	1	7.32	7.40	7.38	9.1
40	CP-OFDM 16QAM	1	1	6.70	5.83	6.79	7.1
40	CP-OFDM 64QAM	1	1	4.68	4.86	4.85	6.1
40	CP-OFDM 256QAM	1	1	1.84	1.92	1.73	3.1
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	DFT-s-OFDM QPSK	1	1	8.58	8.68	8.63	10.1
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	DFT-s-OFDM QPSK	1	1	8.77	8.89	8.92	10.1
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	DFT-s-OFDM QPSK	1	1	8.79	8.79	8.76	10.1
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	DFT-s-OFDM QPSK	1	1	8.82	8.82	8.77	10.1

n38 (PC3)(ANT5)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	Tune-up limit (dBm)
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	19.04	19.16	19.16	20.2
40		1	53	18.89	18.86	18.85	
40		1	104	18.85	18.86	18.87	
40		50	1	18.53	18.53	18.51	20.2
40		50	25	19.09	19.02	19.06	
40		50	50	18.37	18.36	18.36	
40		100	0	18.61	18.59	18.53	
40	DFT-s-OFDM QPSK	1	1	19.15	19.19	19.22	20.2
40		1	53	18.86	18.86	18.82	
40		1	104	18.86	18.84	18.85	
40		50	1	18.36	18.31	18.33	20.2
40		50	25	19.08	19.04	19.11	
40		50	50	18.42	18.38	18.40	
40		100	0	18.93	18.90	18.97	
40	DFT-s-OFDM 16QAM	1	1	17.75	17.86	18.00	19.2
40	DFT-s-OFDM 64QAM	1	1	16.36	16.39	16.49	17.2
40	DFT-s-OFDM 256QAM	1	1	14.19	14.19	14.31	15.2
40	CP-OFDM QPSK	1	1	17.66	17.73	17.72	19.2
40	CP-OFDM 16QAM	1	1	17.04	17.14	17.13	18.2
40	CP-OFDM 64QAM	1	1	15.02	15.15	15.19	16.2
40	CP-OFDM 256QAM	1	1	12.18	12.23	12.07	13.2
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	DFT-s-OFDM QPSK	1	1	19.10	19.20	19.15	20.2
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	DFT-s-OFDM QPSK	1	1	18.99	19.11	19.05	20.2
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	DFT-s-OFDM QPSK	1	1	19.01	19.01	18.98	20.2
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	DFT-s-OFDM QPSK	1	1	19.04	19.04	18.99	20.2

n38 (PC3)(ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	12.96	13.09	13.08	13.8
40		1	53	12.81	13.00	12.77	
40		1	104	12.77	13.11	12.79	
40		50	1	12.45	12.80	12.43	13.8
40	DFT-s-OFDM QPSK	50	25	13.01	13.11	12.98	
40		50	50	12.29	12.60	12.28	
40		100	0	12.53	12.81	12.45	
40		1	1	13.07	13.11	13.14	13.8
40	DFT-s-OFDM 16QAM	1	53	12.78	13.07	12.74	
40		1	104	12.78	13.06	12.77	
40		50	1	11.98	12.25	11.95	13.8
40		50	25	13.00	13.02	13.03	
40	DFT-s-OFDM 64QAM	50	50	12.04	12.17	12.02	
40		100	0	12.66	12.79	12.76	
40	DFT-s-OFDM 256QAM	1	1	11.67	12.21	11.92	23.4
40	DFT-s-OFDM 64QAM	1	1	10.28	10.84	10.41	11.8
40	DFT-s-OFDM 256QAM	1	1	8.11	8.52	8.23	8.8
40	CP-OFDM QPSK	1	1	11.58	11.71	11.64	12.8
40	CP-OFDM 16QAM	1	1	10.96	10.97	11.05	11.8
40	CP-OFDM 64QAM	1	1	8.94	9.44	9.11	10.8
40	CP-OFDM 256QAM	1	1	5.70	5.62	5.65	6.8
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	DFT-s-OFDM QPSK	1	1	13.02	13.12	13.07	13.8
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	DFT-s-OFDM QPSK	1	1	12.91	13.03	12.97	13.8
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	DFT-s-OFDM QPSK	1	1	12.93	12.93	12.90	13.8
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	DFT-s-OFDM QPSK	1	1	12.96	12.96	12.91	13.8

n41 (PC2)(ANT0)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	12.7
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	11.11	11.54	11.48	11.50	11.44	12.7
100		1	136	11.27	11.43	11.26	11.04	11.35	
100		1	271	11.51	11.15	10.94	10.79	11.28	
100		135	1	10.73	10.79	10.79	10.79	10.75	12.7
100		135	67	11.29	11.50	11.34	11.09	11.35	
100		135	136	10.79	10.88	10.88	10.73	10.75	
100		270	0	10.77	10.73	10.78	10.75	10.70	
100	DFT-s-OFDM QPSK	1	1	11.38	11.46	11.35	11.26	11.47	12.7
100		1	136	11.40	11.55	11.56	11.54	11.47	
100		1	271	11.50	11.09	10.94	10.93	10.74	
100		135	1	10.73	10.85	10.80	10.78	10.86	12.7
100		135	67	11.36	11.51	11.53	11.35	11.46	
100		135	136	10.79	10.89	10.70	10.71	10.79	
100		270	0	11.46	11.44	11.48	11.41	11.38	
100	DFT-s-OFDM 16QAM	1	1	9.87	10.00	10.00	9.98	9.60	10.7
100	DFT-s-OFDM 64QAM	1	1	8.71	9.17	9.09	8.83	8.69	9.7
100	DFT-s-OFDM 256QAM	1	1	7.58	7.85	7.83	7.91	7.49	8.7
100	CP-OFDM QPSK	1	1	9.57	9.89	9.86	9.95	9.80	10.7
100	CP-OFDM 16QAM	1	1	9.08	9.26	9.38	9.18	9.36	9.7
100	CP-OFDM 64QAM	1	1	7.79	8.17	8.13	8.17	7.81	8.7
100	CP-OFDM 256QAM	1	1	3.75	3.70	3.72	3.60	3.70	4.7
Channel				508200	513402	518598	523800	528996	12.7
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	10.94	11.23	11.34	11.46	11.43	12.7
Channel				507204	512904	518598	524298	529998	12.7
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	10.99	11.26	11.37	11.49	11.54	12.7
Channel				506202	512400	518598	524796	531000	12.7
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	10.91	11.15	11.38	11.42	11.39	12.7
Channel				505200	511902	518598	525798	531996	12.7
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	10.83	11.28	11.32	11.43	11.36	12.7
Channel				504204	511404	518598	525798	532998	12.7
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	11.18	11.37	11.50	11.51	11.51	12.7
Channel				503202	510900	518598	526296	534000	12.7
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	11.01	11.20	11.36	11.36	11.16	12.7
Channel				502200	510402	518598	526800	534996	12.7
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	11.15	11.29	11.53	11.43	11.18	12.7
Channel				501204	509904	518598	527298	535998	12.7
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	10.99	11.19	11.27	11.29	11.00	12.7

n41 (PC2) (ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	10.6
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	9.58	9.77	9.77	9.79	9.80	10.6
100		1	136	9.69	9.67	9.73	9.75	9.54	
100		1	271	9.86	9.83	9.62	9.30	9.17	
100		135	1	8.68	8.69	8.72	8.68	8.68	10.6
100		135	67	9.75	9.79	9.88	9.79	9.78	
100		135	136	8.61	8.63	8.72	8.67	8.72	
100		270	0	8.68	8.64	8.72	8.64	8.73	
100	DFT-s-OFDM QPSK	1	1	9.67	9.65	9.81	9.87	9.82	10.6
100		1	136	9.91	9.87	9.92	9.86	9.88	
100		1	271	9.84	9.69	9.67	9.35	9.22	
100		135	1	8.66	8.74	8.78	8.82	8.79	10.6
100		135	67	9.75	9.76	9.85	9.75	9.78	
100		135	136	8.75	8.85	8.71	8.60	8.73	
100		270	0	9.49	9.34	9.56	9.49	9.44	
100	DFT-s-OFDM 16QAM	1	1	8.70	8.66	8.75	8.81	8.80	9.6
100	DFT-s-OFDM 64QAM	1	1	7.70	7.72	7.86	7.88	7.76	8.6
100	DFT-s-OFDM 256QAM	1	1	6.51	6.53	6.65	6.62	6.62	7.6
100	CP-OFDM QPSK	1	1	8.83	8.87	8.88	8.97	9.01	9.6
100	CP-OFDM 16QAM	1	1	7.23	7.21	7.22	7.41	7.30	8.6
100	CP-OFDM 64QAM	1	1	7.29	7.34	7.42	7.43	7.47	8.6
100	CP-OFDM 256QAM	1	1	4.01	4.05	4.02	4.15	4.19	5.6
Channel				508200	513402	518598	523800	528996	10.6
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	9.76	9.77	9.78	9.87	9.86	10.6
Channel				507204	512904	518598	524298	529998	10.6
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	9.73	9.86	9.89	9.88	9.85	10.6
Channel				506202	512400	518598	524796	531000	10.6
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	9.62	9.71	9.80	9.87	9.72	10.6
Channel				505200	511902	518598	525798	531996	10.6
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	9.58	9.79	9.85	9.86	9.60	10.6
Channel				504204	511404	518598	525798	532998	10.6
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	9.72	9.90	9.88	9.88	9.62	10.6
Channel				503202	510900	518598	526296	534000	10.6
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	9.54	9.73	9.88	9.63	9.34	10.6
Channel				502200	510402	518598	526800	534996	10.6
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	9.68	9.83	9.85	9.79	9.20	10.6
Channel				501204	509904	518598	527298	535998	10.6
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	9.60	9.82	9.72	9.63	9.08	10.6

n41 (PC2)(ANT5)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	22
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	20.66	20.78	20.84	20.96	20.99	22
100		1	136	20.82	20.86	20.97	20.89	20.90	
100		1	271	21.06	21.00	21.03	20.75	20.83	
100		135	1	20.08	20.18	20.12	20.28	20.20	22
100		135	67	20.84	20.93	21.08	21.02	20.90	
100		135	136	20.14	20.15	20.20	20.12	20.10	
100		270	0	20.02	20.18	20.24	20.29	20.15	
100	DFT-s-OFDM QPSK	1	1	20.65	20.69	20.76	20.47	21.02	22
100		1	136	20.93	21.02	21.09	21.00	21.02	
100		1	271	21.05	21.00	21.02	20.71	20.19	
100		135	1	20.08	20.09	20.14	20.27	20.21	22
100		135	67	20.71	20.88	20.92	20.90	20.81	
100		135	136	20.14	20.23	20.18	20.09	20.04	
100		270	0	20.61	20.79	20.82	20.88	20.77	
100	DFT-s-OFDM 16QAM	1	1	19.38	19.61	19.67	19.82	19.91	21
100	DFT-s-OFDM 64QAM	1	1	18.22	18.69	18.79	18.89	19.00	20
100	DFT-s-OFDM 256QAM	1	1	16.49	17.55	17.66	17.68	17.80	19
100	CP-OFDM QPSK	1	1	19.08	19.83	20.01	20.06	20.11	21
100	CP-OFDM 16QAM	1	1	18.59	19.34	19.41	19.58	19.67	20
100	CP-OFDM 64QAM	1	1	17.75	18.36	18.44	18.58	18.57	19
100	CP-OFDM 256QAM	1	1	15.00	15.09	14.99	15.27	15.13	16
Channel				508200	513402	518598	523800	528996	22
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	20.49	20.78	20.89	21.01	20.98	22
Channel				507204	512904	518598	524298	529998	22
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	20.54	20.81	20.92	21.04	20.99	22
Channel				506202	512400	518598	524796	531000	22
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	20.46	20.70	20.93	20.97	20.94	22
Channel				505200	511902	518598	525798	531996	22
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	20.38	20.83	20.87	20.98	20.91	22
Channel				504204	511404	518598	525798	532998	22
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	20.73	20.92	21.05	21.06	20.96	22
Channel				503202	510900	518598	526296	534000	22
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	20.56	20.75	20.81	20.91	20.71	22
Channel				502200	510402	518598	526800	534996	22
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	20.70	20.84	20.95	20.98	20.73	22
Channel				501204	509904	518598	527298	535998	22
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	20.54	20.74	20.82	20.84	20.55	22

n41 (PC2)(ANT6)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	12.6
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	11.43	11.76	11.68	11.71	11.76	12.6
100		1	136	11.59	11.69	11.75	11.77	11.67	
100		1	271	11.83	11.63	11.80	11.54	11.60	
100		135	1	10.65	10.65	10.64	10.71	10.77	12.6
100		135	67	11.61	11.77	11.85	11.82	11.67	
100		135	136	10.71	10.69	10.73	10.66	10.57	
100		270	0	10.69	10.72	10.77	10.76	10.62	
100	DFT-s-OFDM QPSK	1	1	11.42	11.76	11.63	11.69	11.79	12.6
100		1	136	11.70	11.78	11.86	11.81	11.79	
100		1	271	11.82	11.62	11.85	11.60	10.96	
100		135	1	10.75	10.68	10.58	10.77	10.88	12.6
100		135	67	11.68	11.79	11.84	11.79	11.68	
100		135	136	10.81	10.74	10.65	10.73	10.71	
100		270	0	11.72	11.54	11.78	11.41	11.41	
100	DFT-s-OFDM 16QAM	1	1	10.08	10.12	10.45	10.50	10.61	11.6
100	DFT-s-OFDM 64QAM	1	1	8.92	9.09	9.00	8.99	9.70	9.6
100	DFT-s-OFDM 256QAM	1	1	7.19	8.10	7.95	8.02	8.50	8.6
100	CP-OFDM QPSK	1	1	9.78	10.27	10.16	9.78	10.81	10.6
100	CP-OFDM 16QAM	1	1	9.29	8.82	8.64	8.56	10.37	9.6
100	CP-OFDM 64QAM	1	1	8.45	9.08	8.96	9.09	9.27	9.6
100	CP-OFDM 256QAM	1	1	5.70	5.49	5.36	5.37	5.83	6.6
Channel				508200	513402	518598	523800	528996	12.6
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	11.26	11.55	11.66	11.78	11.75	12.6
Channel				507204	512904	518598	524298	529998	12.6
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	11.31	11.58	11.69	11.81	11.31	12.6
Channel				506202	512400	518598	524796	531000	12.6
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	11.23	11.47	11.70	11.74	11.71	12.6
Channel				505200	511902	518598	525798	531996	12.6
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	11.15	11.60	11.64	11.75	11.68	12.6
Channel				504204	511404	518598	525798	532998	12.6
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	11.50	11.69	11.82	11.83	11.83	12.6
Channel				503202	510900	518598	526296	534000	12.6
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	11.33	11.52	11.68	11.68	11.48	12.6
Channel				502200	510402	518598	526800	534996	12.6
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	11.47	11.61	11.40	11.75	11.50	12.6
Channel				501204	509904	518598	527298	535998	12.6
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	11.31	11.51	11.59	11.61	11.32	12.6

n41 (PC3)(ANT0)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	12.7
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	11.29	11.62	11.54	11.57	11.62	12.7
100		1	136	11.45	11.55	11.61	11.63	11.53	
100		1	271	11.69	11.49	11.66	11.40	11.46	
100		135	1	10.91	11.01	11.00	11.07	11.03	12.7
100		135	67	11.47	11.63	11.71	11.68	11.53	
100		135	136	10.97	11.05	11.09	11.02	10.93	
100		270	0	10.85	11.08	11.13	11.12	10.98	
100	DFT-s-OFDM QPSK	1	1	11.28	11.62	11.49	11.55	11.65	12.7
100		1	136	11.56	11.64	11.72	11.67	11.65	
100		1	271	11.68	11.48	11.71	11.46	10.82	
100		135	1	10.91	10.84	10.74	10.93	11.04	12.7
100		135	67	11.54	11.65	11.70	11.65	11.54	
100		135	136	10.97	10.90	10.81	10.89	10.87	
100		270	0	11.58	11.40	11.64	11.60	11.60	
100	DFT-s-OFDM 16QAM	1	1	9.94	9.98	10.31	10.36	10.47	10.7
100	DFT-s-OFDM 64QAM	1	1	8.78	8.95	8.86	8.85	9.56	9.7
100	DFT-s-OFDM 256QAM	1	1	7.05	7.96	7.81	7.88	8.36	8.7
100	CP-OFDM QPSK	1	1	9.64	10.13	10.02	9.64	10.67	10.7
100	CP-OFDM 16QAM	1	1	9.15	8.68	8.50	8.42	8.60	9.7
100	CP-OFDM 64QAM	1	1	8.31	8.94	8.82	8.95	9.13	9.7
100	CP-OFDM 256QAM	1	1	5.56	5.35	5.22	5.23	5.69	6.7
Channel				508200	513402	518598	523800	528996	12.7
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	11.12	11.41	11.52	11.64	11.61	12.7
Channel				507204	512904	518598	524298	529998	12.7
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	11.17	11.44	11.55	11.67	11.61	12.7
Channel				506202	512400	518598	524796	531000	12.7
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	11.09	11.33	11.56	11.60	11.57	12.7
Channel				505200	511902	518598	525798	531996	12.7
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	11.01	11.46	11.50	11.61	11.54	12.7
Channel				504204	511404	518598	525798	532998	12.7
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	11.36	11.55	11.68	11.69	11.69	12.7
Channel				503202	510900	518598	526296	534000	12.7
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	11.19	11.38	11.54	11.54	11.34	12.7
Channel				502200	510402	518598	526800	534996	12.7
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	11.33	11.47	11.62	11.61	11.36	12.7
Channel				501204	509904	518598	527298	535998	12.7
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	11.17	11.37	11.45	11.47	11.18	12.7

n41 (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	11.1
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	9.65	9.98	9.90	9.93	9.98	11.1
100		1	136	9.81	9.91	9.97	9.99	9.89	
100		1	271	10.05	9.85	10.02	9.76	9.82	
100		135	1	9.37	9.37	9.36	9.43	9.49	11.1
100		135	67	9.83	9.99	10.07	10.04	9.89	
100		135	136	9.43	9.41	9.45	9.38	9.39	
100		270	0	9.31	9.44	9.49	9.48	9.44	
100	DFT-s-OFDM QPSK	1	1	9.64	9.98	9.85	9.91	10.01	11.1
100		1	136	9.92	10.00	10.08	10.03	10.01	
100		1	271	10.04	9.84	10.07	9.82	9.18	
100		135	1	9.37	9.30	9.20	9.39	9.50	11.1
100		135	67	9.90	10.01	10.06	10.01	9.90	
100		135	136	9.43	9.36	9.27	9.35	9.33	
100		270	0	9.94	9.76	10.00	9.63	9.63	
100	DFT-s-OFDM 16QAM	1	1	8.30	8.34	8.67	8.72	8.83	9.1
100	DFT-s-OFDM 64QAM	1	1	7.14	7.31	7.22	7.21	7.92	8.1
100	DFT-s-OFDM 256QAM	1	1	5.41	6.32	6.17	6.24	6.72	7.1
100	CP-OFDM QPSK	1	1	8.00	8.49	8.38	8.00	8.30	9.1
100	CP-OFDM 16QAM	1	1	7.51	7.04	6.86	6.78	6.96	8.1
100	CP-OFDM 64QAM	1	1	6.67	7.30	7.18	7.31	7.49	8.1
100	CP-OFDM 256QAM	1	1	3.12	3.71	3.58	3.59	3.45	5.1
Channel				508200	513402	518598	523800	528996	11.1
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	9.48	9.77	9.88	10.00	9.97	11.1
Channel				507204	512904	518598	524298	529998	11.1
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	9.53	9.80	9.91	10.03	10.02	11.1
Channel				506202	512400	518598	524796	531000	11.1
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	9.45	9.69	9.92	9.96	9.93	11.1
Channel				505200	511902	518598	525798	531996	11.1
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	9.37	9.82	9.86	9.97	9.90	11.1
Channel				504204	511404	518598	525798	532998	11.1
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	9.72	9.91	10.04	10.05	10.05	11.1
Channel				503202	510900	518598	526296	534000	11.1
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	9.55	9.74	9.90	9.90	9.70	11.1
Channel				502200	510402	518598	526800	534996	11.1
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	9.69	9.83	10.00	9.97	9.72	11.1
Channel				501204	509904	518598	527298	535998	11.1
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	9.53	9.73	9.81	9.83	9.54	11.1

n41 (PC3)(ANT5)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	20
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	18.40	18.48	18.54	18.73	18.73	20
100		1	136	18.47	18.63	18.64	18.62	18.54	
100		1	271	18.71	18.65	18.55	18.32	18.44	
100		135	1	18.45	18.56	18.60	18.67	18.62	20
100		135	67	18.56	18.72	18.73	18.58	18.55	
100		135	136	18.67	18.69	18.63	18.48	18.36	
100		270	0	18.53	18.67	18.70	18.66	18.63	
100	DFT-s-OFDM QPSK	1	1	18.38	18.39	18.51	18.71	18.70	20
100		1	136	18.62	18.65	18.77	18.65	18.58	
100		1	271	18.68	18.68	18.58	18.55	18.56	
100		135	1	18.36	18.46	18.61	18.68	18.63	20
100		135	67	18.65	18.70	18.75	18.74	18.66	
100		135	136	18.72	18.70	18.57	18.59	18.54	
100		270	0	18.47	18.68	18.69	18.67	18.62	
100	DFT-s-OFDM 16QAM	1	1	18.34	18.35	18.42	18.65	18.68	20
100	DFT-s-OFDM 64QAM	1	1	18.38	18.44	18.53	18.68	18.70	20
100	DFT-s-OFDM 256QAM	1	1	16.83	17.24	17.35	17.51	17.54	19
100	CP-OFDM QPSK	1	1	18.48	18.53	18.69	18.67	18.70	20
100	CP-OFDM 16QAM	1	1	18.48	18.53	18.66	18.63	18.70	20
100	CP-OFDM 64QAM	1	1	17.88	18.02	18.16	18.32	18.33	19
100	CP-OFDM 256QAM	1	1	14.74	14.79	14.85	15.06	15.05	16
Channel				508200	513402	518598	523800	528996	20
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	18.44	18.49	18.44	18.57	18.65	20
Channel				507204	512904	518598	524298	529998	20
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	18.49	18.51	18.60	18.66	18.67	20
Channel				506202	512400	518598	524796	531000	20
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	18.44	18.53	18.59	18.64	18.52	20
Channel				505200	511902	518598	525798	531996	20
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	18.36	18.53	18.64	18.66	18.57	20
Channel				504204	511404	518598	525798	532998	20
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	18.53	18.68	18.70	18.73	18.60	20
Channel				503202	510900	518598	526296	534000	20
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	18.32	18.47	18.46	18.51	18.30	20
Channel				502200	510402	518598	526800	534996	20
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	18.42	18.52	18.73	18.57	18.35	20
Channel				501204	509904	518598	527298	535998	20
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	18.25	18.48	18.42	18.41	18.32	20

n41 (PC3)(ANT6)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	13.9
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	12.37	12.70	12.62	12.65	12.70	13.9
100		1	136	12.53	12.63	12.69	12.71	12.61	
100		1	271	12.77	12.57	12.74	12.48	12.54	
100		135	1	12.09	11.99	11.98	12.05	12.11	13.9
100		135	67	12.55	12.71	12.79	12.76	12.61	
100		135	136	12.15	12.03	12.07	12.00	12.01	
100		270	0	12.03	12.06	12.11	12.10	12.06	
100	DFT-s-OFDM QPSK	1	1	12.36	12.70	12.57	12.63	12.73	13.9
100		1	136	12.64	12.72	12.80	12.75	12.73	
100		1	271	12.76	12.56	12.79	12.54	11.90	
100		135	1	11.99	11.92	12.02	12.01	12.12	13.9
100		135	67	12.62	12.73	12.78	12.73	12.62	
100		135	136	12.05	11.98	11.99	11.97	11.95	
100		270	0	12.66	12.48	12.72	12.35	12.35	
100	DFT-s-OFDM 16QAM	1	1	11.02	11.06	11.39	11.44	11.55	12.9
100	DFT-s-OFDM 64QAM	1	1	9.86	10.03	9.94	9.93	9.75	10.9
100	DFT-s-OFDM 256QAM	1	1	8.75	9.04	8.89	8.96	8.75	10.9
100	CP-OFDM QPSK	1	1	10.72	11.21	11.10	10.72	11.02	11.9
100	CP-OFDM 16QAM	1	1	10.23	9.76	9.58	9.50	9.68	10.9
100	CP-OFDM 64QAM	1	1	9.39	10.02	9.90	10.03	10.21	10.9
100	CP-OFDM 256QAM	1	1	5.84	6.43	6.30	6.31	6.17	7.9
Channel				508200	513402	518598	523800	528996	13.9
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	12.20	12.49	12.60	12.72	12.69	13.9
Channel				507204	512904	518598	524298	529998	13.9
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	12.25	12.52	12.63	12.75	12.74	13.9
Channel				506202	512400	518598	524796	531000	13.9
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	12.17	12.41	12.64	12.68	12.65	13.9
Channel				505200	511902	518598	525798	531996	13.9
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	12.09	12.54	12.58	12.69	12.62	13.9
Channel				504204	511404	518598	525798	532998	13.9
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	12.44	12.63	12.76	12.77	12.77	13.9
Channel				503202	510900	518598	526296	534000	13.9
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	12.27	12.46	12.62	12.62	12.42	13.9
Channel				502200	510402	518598	526800	534996	13.9
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	12.41	12.55	12.72	12.69	12.44	13.9
Channel				501204	509904	518598	527298	535998	13.9
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	12.25	12.45	12.53	12.55	12.26	13.9

n48 (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				638000	639834	641666	643500	645332	9.9
Frequency (MHz)				3570	3597.51	3624.99	3652.5	3679.98	
40	DFT-s-OFDM PI/2 BPSK	1	1	8.34	8.39	8.69	8.79	8.69	9.9
40		1	53	8.42	8.80	8.62	8.77	8.73	
40		1	104	8.60	8.72	8.81	8.75	8.83	
40		50	1	7.97	8.09	8.18	8.30	8.25	9.9
40		50	25	8.50	8.91	8.70	8.94	8.86	
40		50	50	7.99	8.30	8.26	8.27	8.21	
40		100	0	7.93	8.30	8.12	8.33	8.29	
40	DFT-s-OFDM QPSK	1	1	8.68	8.77	8.87	8.82	8.86	9.9
40		1	53	8.49	8.80	8.72	8.81	8.85	
40		1	104	8.79	8.80	8.77	8.72	8.80	
40		50	1	8.20	8.16	8.27	8.20	8.14	9.9
40		50	25	8.62	8.63	8.73	8.71	8.73	
40		50	50	8.10	8.27	8.27	8.22	8.15	
40		100	0	8.64	8.63	8.72	8.71	8.71	
40	DFT-s-OFDM 16QAM	1	1	7.13	7.17	7.48	7.47	7.48	8.9
40	DFT-s-OFDM 64QAM	1	1	5.69	5.60	6.19	6.05	6.04	6.9
40	DFT-s-OFDM 256QAM	1	1	3.48	3.49	3.93	4.01	3.85	4.9
40	CP-OFDM QPSK	1	1	6.81	6.83	7.19	7.14	7.18	7.9
40	CP-OFDM 16QAM	1	1	6.21	6.29	6.58	6.53	6.57	7.9
40	CP-OFDM 64QAM	1	1	4.32	4.36	4.71	4.66	4.69	5.9
40	CP-OFDM 256QAM	1	1	1.54	1.56	1.94	1.85	1.90	2.9
Channel				637668	639668	641666	643666	645666	9.9
Frequency (MHz)				3565.02	3595.02	3624.99	3654.99	3684.99	
30	DFT-s-OFDM QPSK	1	1	8.37	8.45	8.81	8.76	8.75	9.9
Channel				637334	639500	641666	643832	646000	9.9
Frequency (MHz)				3560.01	3592.5	3624.99	3657.48	3690	
20	DFT-s-OFDM QPSK	1	1	7.82	8.37	8.70	8.65	8.69	9.9
Channel				637168	639418	641666	643916	646166	9.9
Frequency (MHz)				3557.52	3591.27	3624.99	3658.74	3692.49	
15	DFT-s-OFDM QPSK	1	1	7.87	8.45	8.83	8.78	8.63	9.9
Channel				637000	639334	641666	644000	646332	9.9
Frequency (MHz)				3555	3590.01	3624.99	3660	3694.98	
10	DFT-s-OFDM QPSK	1	1	7.80	8.30	8.84	8.79	8.70	9.9

n48 (PC3)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				638000	639834	641666	643500	645332	
Frequency (MHz)				3570	3597.51	3624.99	3652.5	3679.98	
40	DFT-s-OFDM PI/2 BPSK	1	1	6.61	6.66	6.96	7.06	6.96	25.2
40		1	53	6.69	7.07	6.89	7.04	7.00	
40		1	104	6.87	6.99	7.08	7.02	7.10	
40		50	1	6.25	6.27	6.36	6.28	6.23	25.2
40		50	25	6.08	6.49	6.28	6.42	6.44	
40		50	50	6.27	6.28	6.24	6.25	6.29	
40		100	0	6.21	6.28	6.20	6.31	6.27	
40	DFT-s-OFDM QPSK	1	1	7.16	7.15	7.22	7.19	7.20	25.2
40		1	53	6.56	6.97	6.79	6.98	6.92	
40		1	104	6.86	6.87	7.04	6.99	7.07	
40		50	1	6.31	6.24	6.25	6.38	6.32	25.2
40		50	25	7.08	7.10	7.15	7.10	7.12	
40		50	50	6.28	6.35	6.35	6.30	6.28	
40		100	0	6.96	6.99	7.05	7.03	7.01	
40	DFT-s-OFDM 16QAM	1	1	5.40	5.44	5.75	5.74	5.75	6.2
40	DFT-s-OFDM 64QAM	1	1	3.96	4.50	4.46	4.32	4.31	5.2
40	DFT-s-OFDM 256QAM	1	1	1.75	1.76	2.20	2.28	2.12	3.2
40	CP-OFDM QPSK	1	1	5.08	5.10	5.46	5.41	5.45	6.2
40	CP-OFDM 16QAM	1	1	4.48	4.56	4.85	4.80	4.84	5.2
40	CP-OFDM 64QAM	1	1	2.59	2.63	2.98	2.93	2.96	4.2
40	CP-OFDM 256QAM	1	1	0.15	0.13	0.21	0.12	0.17	1.2
Channel				637668	639668	641666	643666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3595.02	3624.99	3654.99	3684.99	
30	DFT-s-OFDM QPSK	1	1	6.64	6.72	7.09	7.08	7.02	8.2
Channel				637334	639500	641666	643832	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3592.5	3624.99	3657.48	3690	
20	DFT-s-OFDM QPSK	1	1	6.88	6.64	6.71	6.97	6.96	8.2
Channel				637168	639418	641666	643916	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3591.27	3624.99	3658.74	3692.49	
15	DFT-s-OFDM QPSK	1	1	6.84	6.72	7.11	7.10	6.90	8.2
Channel				637000	639334	641666	644000	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3590.01	3624.99	3660	3694.98	
10	DFT-s-OFDM QPSK	1	1	6.96	6.57	6.64	7.11	6.97	8.2

n48 (PC3)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				638000	639834	641666	643500	645332	
Frequency (MHz)				3570	3597.51	3624.99	3652.5	3679.98	
40	DFT-s-OFDM PI/2 BPSK	1	1	8.54	9.05	9.69	9.89	9.98	11.2
40		1	53	8.98	9.65	9.68	9.99	10.09	
40		1	104	9.36	9.66	9.94	10.03	9.95	
40		50	1	9.26	9.24	9.38	9.43	9.56	11.2
40		50	25	9.35	9.77	9.81	9.91	9.81	
40		50	50	9.29	9.34	9.39	9.56	9.77	
40		100	0	9.25	9.29	9.38	9.51	9.65	
40	DFT-s-OFDM QPSK	1	1	9.93	10.01	10.13	9.97	9.95	11.2
40		1	53	9.44	9.54	9.56	9.90	10.02	
40		1	104	9.56	9.64	9.88	9.99	9.81	
40		50	1	9.47	9.46	9.51	9.51	9.44	11.2
40		50	25	9.81	9.81	9.87	9.85	9.82	
40		50	50	9.42	9.41	9.57	9.54	9.43	
40		100	0	9.82	9.72	9.80	9.71	9.84	
40	DFT-s-OFDM 16QAM	1	1	8.27	8.47	8.55	8.31	8.46	10.2
40	DFT-s-OFDM 64QAM	1	1	6.94	6.81	7.06	6.92	7.01	8.2
40	DFT-s-OFDM 256QAM	1	1	3.78	4.24	4.93	4.71	4.81	6.2
40	CP-OFDM QPSK	1	1	7.03	7.49	8.13	7.99	8.06	9.2
40	CP-OFDM 16QAM	1	1	7.02	7.25	7.58	7.52	7.62	9.2
40	CP-OFDM 64QAM	1	1	4.53	5.02	5.65	5.54	5.55	6.2
40	CP-OFDM 256QAM	1	1	2.43	3.50	2.88	2.74	2.85	4.2
Channel				637668	639668	641666	643666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3595.02	3624.99	3654.99	3684.99	
30	DFT-s-OFDM QPSK	1	1	9.75	9.17	9.73	9.96	10.08	11.2
Channel				637334	639500	641666	643832	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3592.5	3624.99	3657.48	3690	
20	DFT-s-OFDM QPSK	1	1	9.71	9.10	9.75	9.88	10.06	11.2
Channel				637168	639418	641666	643916	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3591.27	3624.99	3658.74	3692.49	
15	DFT-s-OFDM QPSK	1	1	9.72	9.70	9.80	9.70	9.80	11.2
Channel				637000	639334	641666	644000	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3590.01	3624.99	3660	3694.98	
10	DFT-s-OFDM QPSK	1	1	9.82	9.80	9.82	9.85	9.70	11.2

n48 (PC3)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				638000	639834	641666	643500	645332	10
Frequency (MHz)				3570	3597.51	3624.99	3652.5	3679.98	
40	DFT-s-OFDM PI/2 BPSK	1	1	8.36	8.37	8.53	8.35	8.31	10
40		1	53	8.40	8.66	8.35	8.47	8.38	
40		1	104	8.53	8.40	8.51	8.45	8.49	
40		50	1	8.05	8.12	8.08	8.19	8.07	10
40		50	25	8.46	8.10	8.47	8.58	8.54	
40		50	50	8.10	8.11	8.12	8.06	8.08	
40		100	0	8.05	8.18	8.07	8.09	8.03	
40	DFT-s-OFDM QPSK	1	1	8.68	8.72	8.88	8.78	8.72	10
40		1	53	8.32	8.60	8.29	8.37	8.29	
40		1	104	8.50	8.34	8.46	8.38	8.43	
40		50	1	8.00	8.09	8.06	8.08	8.08	10
40		50	25	8.53	8.68	8.79	8.69	8.71	
40		50	50	8.07	8.02	8.09	8.06	8.04	
40		100	0	8.45	8.59	8.68	8.45	8.42	
40	DFT-s-OFDM 16QAM	1	1	7.18	7.09	7.33	7.17	7.10	8
40	DFT-s-OFDM 64QAM	1	1	5.73	5.72	5.94	5.72	5.69	7
40	DFT-s-OFDM 256QAM	1	1	3.58	3.54	3.76	3.67	3.59	4
40	CP-OFDM QPSK	1	1	6.84	6.80	7.01	6.82	6.84	8
40	CP-OFDM 16QAM	1	1	6.25	6.34	6.48	6.28	6.25	7
40	CP-OFDM 64QAM	1	1	5.12	5.00	5.10	5.10	5.00	6
40	CP-OFDM 256QAM	1	1	2.88	2.85	3.06	2.99	2.90	4
Channel				637668	639668	641666	643666	645666	10
Frequency (MHz)				3565.02	3595.02	3624.99	3654.99	3684.99	
30	DFT-s-OFDM QPSK	1	1	7.92	7.93	8.03	8.01	7.95	10
Channel				637334	639500	641666	643832	646000	10
Frequency (MHz)				3560.01	3592.5	3624.99	3657.48	3690	
20	DFT-s-OFDM QPSK	1	1	7.88	7.85	7.83	8.05	7.72	10
Channel				637168	639418	641666	643916	646166	10
Frequency (MHz)				3557.52	3591.27	3624.99	3658.74	3692.49	
15	DFT-s-OFDM QPSK	1	1	7.62	7.95	7.97	8.11	7.84	10
Channel				637000	639334	641666	644000	646332	10
Frequency (MHz)				3555	3590.01	3624.99	3660	3694.98	
10	DFT-s-OFDM QPSK	1	1	7.84	7.44	7.84	7.86	8.04	10

n66 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	14.2
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	13.29	13.39	13.35	14.2
40		1	108	13.23	13.22	13.04	
40		1	214	13.22	13.23	13.14	
40		108	1	12.75	12.75	12.65	14.2
40		108	54	13.33	13.27	13.15	
40		108	108	12.74	12.66	12.62	
40		216	0	12.73	12.78	12.68	
40	DFT-s-OFDM QPSK	1	1	13.40	13.35	13.38	14.2
40		1	108	13.20	13.16	12.94	
40		1	214	13.31	13.25	13.08	
40		108	1	12.45	12.28	12.42	14.2
40		108	54	13.33	13.31	13.32	
40		108	108	12.46	12.23	12.37	
40		216	0	13.30	13.22	13.19	
40	DFT-s-OFDM 16QAM	1	1	12.21	12.28	12.21	13.2
40	DFT-s-OFDM 64QAM	1	1	10.56	10.64	10.57	12.2
40	DFT-s-OFDM 256QAM	1	1	8.17	8.26	8.31	9.2
40	CP-OFDM QPSK	1	1	11.98	11.81	11.83	12.7
40	CP-OFDM 16QAM	1	1	11.24	11.27	11.14	12.2
40	CP-OFDM 64QAM	1	1	9.22	9.23	9.22	10.2
40	CP-OFDM 256QAM	1	1	6.34	6.31	6.22	7.2
Channel				345000	349000	353000	14.2
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	13.29	13.31	13.22	14.2
Channel				344000	349000	354000	14.2
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	13.23	13.18	13.14	14.2
Channel				343500	349000	354500	14.2
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	13.37	13.32	13.21	14.2
Channel				343000	349000	355000	14.2
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	13.32	13.36	13.15	14.2
Channel				342500	349000	355500	14.2
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	13.18	13.23	13.07	14.2

n66 (PC3)(ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	11.7
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	10.46	10.55	10.52	11.7
40		1	108	10.40	10.35	10.21	
40		1	214	10.39	10.51	10.31	
40		108	1	9.92	9.93	9.82	11.7
40		108	54	10.50	10.45	10.32	
40		108	108	9.91	9.91	9.79	
40		216	0	9.90	9.94	9.85	
40	DFT-s-OFDM QPSK	1	1	10.59	10.58	10.55	11.7
40		1	108	10.37	10.33	10.11	
40		1	214	10.48	10.46	10.25	
40		108	1	9.82	9.79	9.79	11.7
40		108	54	10.52	10.51	10.49	
40		108	108	9.83	9.77	9.74	
40		216	0	10.47	10.42	10.38	
40	DFT-s-OFDM 16QAM	1	1	9.38	9.48	9.38	10.7
40	DFT-s-OFDM 64QAM	1	1	7.73	7.86	7.74	8.7
40	DFT-s-OFDM 256QAM	1	1	5.34	5.50	5.48	6.7
40	CP-OFDM QPSK	1	1	9.15	9.07	9.00	9.7
40	CP-OFDM 16QAM	1	1	8.41	8.49	8.31	8.7
40	CP-OFDM 64QAM	1	1	6.39	6.50	6.39	7.7
40	CP-OFDM 256QAM	1	1	3.51	3.55	3.39	4.7
Channel				345000	349000	353000	11.7
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	10.46	10.48	10.39	11.7
Channel				344000	349000	354000	11.7
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	10.40	10.35	10.31	11.7
Channel				343500	349000	354500	11.7
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	10.54	10.49	10.38	11.7
Channel				343000	349000	355000	11.7
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	10.49	10.53	10.32	11.7
Channel				342500	349000	355500	11.7
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	10.35	10.40	10.24	11.7

n66 (PC3)(ANT5)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	21.1
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	19.86	19.95	19.92	21.1
40		1	108	19.80	19.72	19.61	
40		1	214	19.79	19.75	19.71	
40		108	1	19.32	19.30	19.22	21.1
40		108	54	19.90	19.86	19.72	
40		108	108	19.31	19.21	19.19	
40		216	0	19.30	19.36	19.25	
40	DFT-s-OFDM QPSK	1	1	19.97	19.92	19.95	21.1
40		1	108	19.77	19.73	19.51	
40		1	214	19.88	19.69	19.65	
40		108	1	19.22	19.21	19.19	21.1
40		108	54	19.90	19.84	19.89	
40		108	108	19.23	19.23	19.14	
40		216	0	19.82	19.78	19.77	
40	DFT-s-OFDM 16QAM	1	1	18.88	18.81	18.88	20.1
40	DFT-s-OFDM 64QAM	1	1	17.13	17.08	17.14	18.1
40	DFT-s-OFDM 256QAM	1	1	14.74	14.83	14.88	16.1
40	CP-OFDM QPSK	1	1	18.55	18.55	18.40	19.1
40	CP-OFDM 16QAM	1	1	17.81	17.71	17.71	18.1
40	CP-OFDM 64QAM	1	1	15.79	15.80	15.79	17.1
40	CP-OFDM 256QAM	1	1	12.91	12.91	12.79	14.1
Channel				345000	349000	353000	21.1
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	19.86	19.88	19.79	21.1
Channel				344000	349000	354000	21.1
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	19.80	19.75	19.71	21.1
Channel				343500	349000	354500	21.1
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	19.94	19.89	19.78	21.1
Channel				343000	349000	355000	21.1
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	19.89	19.93	19.72	21.1
Channel				342500	349000	355500	21.1
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	19.75	19.80	19.64	21.1

n66 (PC3)(ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	12
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	11.06	11.12	11.12	12
40		1	108	11.00	10.99	10.81	
40		1	214	10.99	11.14	10.91	
40		108	1	10.52	10.57	10.42	12
40		108	54	11.10	11.11	10.92	
40		108	108	10.51	10.56	10.39	
40		216	0	10.50	10.58	10.45	
40	DFT-s-OFDM QPSK	1	1	11.15	11.12	11.10	12
40		1	108	10.97	10.97	10.71	
40		1	214	11.08	11.09	10.85	
40		108	1	10.22	10.15	10.19	12
40		108	54	11.12	11.11	11.09	
40		108	108	10.23	10.01	10.14	
40		216	0	11.09	11.05	11.02	
40	DFT-s-OFDM 16QAM	1	1	9.98	10.10	9.98	11
40	DFT-s-OFDM 64QAM	1	1	8.33	8.49	8.34	9
40	DFT-s-OFDM 256QAM	1	1	5.94	6.13	6.08	7
40	CP-OFDM QPSK	1	1	9.75	9.81	9.60	11
40	CP-OFDM 16QAM	1	1	9.01	9.24	8.91	10
40	CP-OFDM 64QAM	1	1	6.99	7.15	6.99	8
40	CP-OFDM 256QAM	1	1	4.21	4.28	3.99	5
Channel				345000	349000	353000	12
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	11.06	11.08	10.99	12
Channel				344000	349000	354000	12
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	11.00	10.95	10.91	12
Channel				343500	349000	354500	12
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	11.14	11.09	10.98	12
Channel				343000	349000	355000	12
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	11.09	11.13	10.92	12
Channel				342500	349000	355500	12
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	10.95	11.00	10.84	12

n71 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				134600	136100	137600	17.4
Frequency (MHz)				673	680.5	688	
20	DFT-s-OFDM PI/2 BPSK	1	1	15.82	15.73	15.87	17.4
20		1	53	15.92	15.81	15.76	
20		1	104	15.87	15.72	15.72	
20		50	1	15.48	15.60	15.61	17.4
20		50	25	16.09	16.18	16.15	
20		50	50	15.60	15.60	15.48	
20		100	0	15.64	15.71	15.67	
20	DFT-s-OFDM QPSK	1	1	15.99	16.07	16.16	17.4
20		1	53	16.18	16.22	16.20	
20		1	104	16.13	16.08	16.07	
20		50	1	15.66	15.71	15.75	17.4
20		50	25	16.17	16.19	16.12	
20		50	50	15.67	15.74	15.63	
20		100	0	16.00	16.07	15.99	
20	DFT-s-OFDM 16QAM	1	1	14.91	14.96	15.06	16.4
20	DFT-s-OFDM 64QAM	1	1	13.31	13.34	13.43	14.4
20	DFT-s-OFDM 256QAM	1	1	10.94	11.07	11.24	12.4
20	CP-OFDM QPSK	1	1	14.59	14.60	14.71	15.4
20	CP-OFDM 16QAM	1	1	14.01	14.03	14.12	14.4
20	CP-OFDM 64QAM	1	1	11.90	12.08	12.16	13.4
20	CP-OFDM 256QAM	1	1	9.05	9.08	9.20	10.4
Channel				134100	136100	138100	17.4
Frequency (MHz)				670.5	680.5	690.5	
15	DFT-s-OFDM QPSK	1	1	15.04	16.01	15.97	17.4
Channel				133600	136100	138600	17.4
Frequency (MHz)				668	680.5	693	
10	DFT-s-OFDM QPSK	1	1	15.21	15.93	15.91	17.4
Channel				133100	136100	139100	17.4
Frequency (MHz)				665.5	680.5	695.5	
5	DFT-s-OFDM QPSK	1	1	15.82	15.93	15.89	17.4

n77(3450-3550MHz) (PC2)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			11.49			12.5
100		1	136			11.55			
100		1	271			11.30			
100		135	1			11.30			12.5
100		135	67			11.56			
100		135	136			10.69			
100	DFT-s-OFDM QPSK	270	0			11.26			12.5
100		1	1			11.58			
100		1	136			11.49			
100		1	271			11.27			12.5
100		135	1			10.96			
100		135	67			11.48			
100		135	136			10.59			12.5
100		270	0			11.43			
100	DFT-s-OFDM 16QAM	1	1			11.02			11.5
100	DFT-s-OFDM 64QAM	1	1			9.58			10.5
100	DFT-s-OFDM 256QAM	1	1			7.41			8.5
100	CP-OFDM QPSK	1	1			10.77			12.5
100	CP-OFDM 16QAM	1	1			10.20			11.5
100	CP-OFDM 64QAM	1	1			8.23			9.5
100	CP-OFDM 256QAM	1	1			5.38			6.5
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	11.40	11.39	11.37	11.32	11.39	12.5
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	11.42	11.36	11.36	11.27	11.30	12.5
Channel				632334	632634	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	11.41	11.33	11.38	11.28	11.21	12.5
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	11.23	11.20	11.09	11.10	11.07	12.5
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	11.45	11.43	11.36	11.29	11.23	12.5
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	11.36	11.34	11.13	11.05	10.82	12.5
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	11.35	11.34	11.24	11.10	10.84	12.5
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	11.20	11.10	11.05	11.01	10.81	12.5
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	11.14	11.17	11.11	10.69	10.78	12.5
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	11.11	11.14	11.16	10.63	10.79	12.5

n77(3700-3980MHz) (PC2)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	12.4
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	11.15	11.53	11.56	11.57	11.21	12.4
100		1	136	11.31	11.47	11.58	11.58	10.83	
100		1	271	11.34	11.53	11.50	11.36	11.45	
100		135	1	11.03	10.86	10.92	10.82	10.43	12.4
100		135	67	11.31	11.43	11.57	11.57	10.88	
100		135	136	10.69	10.93	10.85	10.84	10.63	
100		270	0	10.85	10.94	11.22	11.14	10.52	
100	DFT-s-OFDM QPSK	1	1	11.45	11.54	11.62	11.57	11.44	12.4
100		1	136	11.32	11.41	11.54	11.50	11.47	
100		1	271	11.34	11.55	11.55	11.23	11.46	
100		135	1	10.46	10.47	10.52	10.41	10.49	12.4
100		135	67	11.41	11.47	11.56	11.50	11.49	
100		135	136	10.55	10.66	10.53	10.51	10.44	
100		270	0	11.26	11.38	11.54	11.53	11.50	
100	DFT-s-OFDM 16QAM	1	1	10.16	10.33	10.37	10.49	10.20	11.4
100	DFT-s-OFDM 64QAM	1	1	8.67	9.05	9.06	9.16	8.91	10.4
100	DFT-s-OFDM 256QAM	1	1	6.56	6.77	6.93	6.91	6.72	7.4
100	CP-OFDM QPSK	1	1	9.92	10.10	10.11	10.23	9.84	15.5
100	CP-OFDM 16QAM	1	1	9.11	9.59	9.63	9.75	9.37	14.5
100	CP-OFDM 64QAM	1	1	7.15	7.62	7.65	7.82	7.37	13.5
100	CP-OFDM 256QAM	1	1	4.50	4.84	4.84	4.99	4.74	9.5
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	11.45	11.44	11.42	11.37	11.44	12.4
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	11.47	11.41	11.41	11.32	11.35	12.4
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	11.46	11.38	11.43	11.33	11.26	12.4
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	11.28	11.25	11.14	11.15	11.12	12.4
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	11.50	11.48	11.56	11.34	11.28	12.4
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	11.41	11.39	11.18	11.10	10.87	12.4
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	11.40	11.39	11.29	11.15	10.89	12.4
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	11.25	11.15	11.10	11.06	10.86	12.4
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	11.19	11.22	11.16	10.89	10.83	12.4
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	11.16	11.19	11.21	10.83	10.84	12.4

n77(3450-3550MHz) (PC2)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			5.9
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			4.86			5.9
100		1	136			4.80			
100		1	271			4.46			
100		135	1			4.49			5.9
100		135	67			4.85			
100		135	136			4.09			
100	DFT-s-OFDM QPSK	270	0			4.34			5.9
100		1	1			4.89			
100		1	136			4.76			
100		1	271			4.43			5.9
100		135	1			4.14			
100		135	67			4.80			
100		135	136			4.19			5.9
100		270	0			4.71			
100	DFT-s-OFDM 16QAM	1	1			3.66			4.9
100	DFT-s-OFDM 64QAM	1	1			2.79			3.9
100	DFT-s-OFDM 256QAM	1	1			0.79			1.9
100	CP-OFDM QPSK	1	1			3.82			4.9
100	CP-OFDM 16QAM	1	1			3.18			3.9
100	CP-OFDM 64QAM	1	1			1.21			1.9
100	CP-OFDM 256QAM	1	1			0.18			1
Channel				633000	633168	633334	633500	633666	5.9
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	4.81	4.80	4.78	4.73	4.80	5.9
Channel				632668	633000	633334	633666	634000	5.9
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	4.83	4.77	4.77	4.68	4.71	5.9
Channel				632334	632834	633334	633832	634332	5.9
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	4.82	4.74	4.79	4.69	4.62	5.9
Channel				632000	632668	633334	634000	634666	5.9
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	4.64	4.61	4.50	4.51	4.48	5.9
Channel				631668	632500	633334	634166	635000	5.9
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	4.86	4.84	4.77	4.70	4.64	5.9
Channel				631334	632334	633334	634332	635332	5.9
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	4.77	4.75	4.54	4.46	4.43	5.9
Channel				631000	632168	633334	634500	635666	5.9
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	4.76	4.75	4.65	4.51	4.45	5.9
Channel				630668	632000	633334	634666	636000	5.9
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	4.61	4.51	4.46	4.42	4.42	5.9
Channel				630500	631916	633334	634750	636166	5.9
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	4.55	4.58	4.52	4.40	4.49	5.9
Channel				630334	631834	633334	634834	636332	5.9
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	4.82	4.85	4.87	4.34	4.50	5.9

n77(3700-3980MHz) (PC2)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	5.9
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	4.35	4.53	4.59	4.69	4.41	5.9
100		1	136	4.51	4.49	4.63	4.34	4.03	
100		1	271	4.54	4.67	4.43	4.16	4.65	
100		135	1	4.23	3.98	4.06	3.95	3.93	5.9
100		135	67	4.51	4.47	4.62	4.36	4.08	
100		135	136	4.09	4.13	4.00	3.97	4.03	
100	DFT-s-OFDM QPSK	270	0	4.05	3.99	4.15	3.94	3.92	5.9
100		1	1	4.55	4.58	4.76	4.70	4.64	
100		1	136	4.52	4.54	4.57	4.38	4.17	
100		1	271	4.54	4.66	4.40	4.26	4.66	5.9
100		135	1	3.96	4.05	4.15	3.95	4.09	
100		135	67	4.61	4.56	4.63	4.57	4.59	
100	DFT-s-OFDM 16QAM	1	1	3.36	3.43	3.53	3.69	3.40	4.9
100		1	1	1.87	2.09	2.17	2.30	2.11	2.9
100	DFT-s-OFDM 256QAM	1	1	-0.34	-0.14	-0.05	0.07	-0.18	0.9
100	CP-OFDM QPSK	1	1	3.22	3.28	3.32	3.38	3.14	3.9
100	CP-OFDM 16QAM	1	1	2.41	2.71	2.77	2.91	2.67	3.9
100	CP-OFDM 64QAM	1	1	0.45	0.70	0.77	0.92	0.67	1.9
100	CP-OFDM 256QAM	1	1	0.10	0.08	0.11	0.15	0.18	1
Channel				649666	652834	656000	659166	662332	5.9
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	4.39	4.47	4.55	4.67	4.37	5.9
Channel				649334	652668	656000	659332	662666	5.9
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	4.46	4.48	4.65	4.52	4.28	5.9
Channel				649000	652500	656000	659500	663000	5.9
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	4.42	4.46	4.63	4.45	4.20	5.9
Channel				648668	652334	656000	659666	663332	5.9
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	4.26	4.40	4.42	4.20	3.94	5.9
Channel				648334	652168	656000	659832	663666	5.9
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	4.50	4.53	4.63	4.56	3.85	5.9
Channel				648000	652000	656000	660000	664000	5.9
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	4.38	4.34	4.43	4.38	3.96	5.9
Channel				647668	651834	656000	660166	664332	5.9
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	4.44	4.43	4.58	4.40	4.11	5.9
Channel				647334	651668	656000	660332	664666	5.9
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	4.32	4.30	4.43	4.11	4.26	5.9
Channel				647168	651584	656000	660416	664832	5.9
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	4.36	4.35	4.51	4.11	4.32	5.9
Channel				647000	651500	656000	660500	665000	5.9
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	4.38	4.37	4.53	4.16	4.53	5.9

n77(3450-3550MHz) (PC2)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			8.36			9.5
100		1	136			7.75			
100		1	271			7.85			
100		135	1			7.80			9.5
100		135	67			8.05			
100		135	136			7.76			
100		270	0			8.02			
100	DFT-s-OFDM QPSK	1	1			8.41			9.5
100		1	136			7.60			
100		1	271			7.80			
100		135	1			7.80			9.5
100		135	67			8.36			
100		135	136			7.58			
100		270	0			8.12			
100	DFT-s-OFDM 16QAM	1	1			7.21			8.5
100	DFT-s-OFDM 64QAM	1	1			5.77			6.5
100	DFT-s-OFDM 256QAM	1	1			3.55			4.5
100	CP-OFDM QPSK	1	1			6.94			8.5
100	CP-OFDM 16QAM	1	1			6.42			7.5
100	CP-OFDM 64QAM	1	1			4.38			6.5
100	CP-OFDM 256QAM	1	1			1.58			2.5
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	8.21	8.20	8.28	8.13	8.20	9.5
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	8.23	8.17	8.17	8.08	8.11	9.5
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	8.22	8.14	8.19	8.09	8.02	9.5
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	8.04	8.01	7.90	7.91	7.88	9.5
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	8.26	8.24	8.17	8.10	8.04	9.5
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	8.17	8.15	7.94	7.86	7.83	9.5
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	8.16	8.15	8.05	7.91	7.85	9.5
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	8.01	7.91	7.86	7.82	7.82	9.5
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	7.95	7.98	7.92	7.70	7.79	9.5
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	7.92	7.95	7.97	7.64	7.60	9.5

n77(3700-3980MHz) (PC2)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	9.5
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	8.05	8.08	8.24	8.38	8.11	9.5
100		1	136	8.21	8.16	8.29	8.22	7.73	
100		1	271	8.24	8.31	8.32	8.01	8.35	
100		135	1	7.93	7.65	7.70	7.63	7.53	9.5
100		135	67	8.21	8.14	8.26	8.25	7.98	
100		135	136	7.59	7.68	7.51	7.51	7.73	
100		270	0	7.75	7.61	7.87	7.70	7.62	
100	DFT-s-OFDM QPSK	1	1	8.26	8.25	8.39	8.38	8.24	9.5
100		1	136	8.22	8.10	8.23	8.17	7.87	
100		1	271	8.24	8.37	8.28	8.01	8.36	
100		135	1	7.87	7.74	7.82	7.69	7.80	9.5
100		135	67	8.22	8.19	8.29	8.25	8.20	
100		135	136	7.76	7.84	7.69	7.71	7.65	
100		270	0	8.09	7.99	8.21	8.16	8.01	
100	DFT-s-OFDM 16QAM	1	1	6.96	6.97	7.06	7.19	7.00	8.5
100	DFT-s-OFDM 64QAM	1	1	5.47	5.59	5.75	5.80	5.71	6.5
100	DFT-s-OFDM 256QAM	1	1	3.26	3.44	3.48	3.65	3.42	4.5
100	CP-OFDM QPSK	1	1	6.82	6.70	6.79	6.92	6.74	7.5
100	CP-OFDM 16QAM	1	1	6.01	6.11	6.32	6.44	6.27	7.5
100	CP-OFDM 64QAM	1	1	4.05	4.17	4.32	4.47	4.27	5.5
100	CP-OFDM 256QAM	1	1	1.30	1.44	1.52	1.60	1.64	2.5
Channel				633000	633168	633334	633500	633666	9.5
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	8.16	8.15	8.23	8.08	8.15	9.5
Channel				632668	633000	633334	633666	634000	9.5
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	8.18	8.12	8.12	8.03	8.06	9.5
Channel				632334	632834	633334	633832	634332	9.5
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	8.17	8.09	8.14	8.04	7.97	9.5
Channel				632000	632668	633334	634000	634666	9.5
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	7.99	7.96	7.85	7.86	7.83	9.5
Channel				631668	632500	633334	634166	635000	9.5
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	8.21	8.19	8.12	8.05	7.99	9.5
Channel				631334	632334	633334	634332	635332	9.5
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	8.12	8.10	7.89	7.81	7.78	9.5
Channel				631000	632168	633334	634500	635666	9.5
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	8.11	8.10	8.00	7.86	7.80	9.5
Channel				630668	632000	633334	634666	636000	9.5
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	7.96	7.86	7.81	7.77	7.77	9.5
Channel				630500	631916	633334	634750	636166	9.5
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	7.90	7.93	7.87	7.65	7.74	9.5
Channel				630334	631834	633334	634834	636332	9.5
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	7.87	7.90	7.92	7.59	7.55	9.5

n77(3450-3550MHz) (PC2)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			11.30			21.8
100		1	136			11.07			
100		1	271			10.87			
100		135	1			10.61			21.8
100		135	67			11.07			
100		135	136			10.59			
100		270	0			10.58			
100	DFT-s-OFDM QPSK	1	1			11.31			21.8
100		1	136			11.01			
100		1	271			10.87			
100		135	1			10.49			21.8
100		135	67			11.27			
100		135	136			10.65			
100		270	0			11.19			
100	DFT-s-OFDM 16QAM	1	1			10.19			11.3
100	DFT-s-OFDM 64QAM	1	1			8.77			10.3
100	DFT-s-OFDM 256QAM	1	1			6.55			7.3
100	CP-OFDM QPSK	1	1			9.94			11.3
100	CP-OFDM 16QAM	1	1			9.26			10.3
100	CP-OFDM 64QAM	1	1			7.32			9.3
100	CP-OFDM 256QAM	1	1			4.54			5.3
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	11.14	11.13	11.11	11.06	11.13	12.3
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	11.16	11.10	11.10	11.01	11.04	12.3
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	11.15	11.07	11.12	11.02	10.95	12.3
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	10.97	10.94	10.83	10.84	10.81	12.3
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	11.19	11.17	11.25	11.03	10.97	12.3
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	11.10	11.08	10.87	10.79	10.56	12.3
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	11.09	11.08	10.98	10.84	10.58	12.3
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	10.94	10.84	10.79	10.75	10.55	12.3
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	10.88	10.91	10.85	10.58	10.52	12.3
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	10.85	10.88	10.90	10.52	10.53	12.3

n77(3700-3980MHz) (PC2)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	12.3
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	10.85	11.09	11.17	11.22	10.91	12.3
100		1	136	11.01	11.06	11.14	11.14	10.63	
100		1	271	11.04	11.22	11.21	10.94	11.15	
100		135	1	10.73	10.63	10.70	10.57	10.53	12.3
100		135	67	11.01	11.22	11.24	11.25	10.98	
100		135	136	10.39	10.76	10.62	10.62	10.53	
100		270	0	10.55	10.76	11.00	10.93	10.42	
100	DFT-s-OFDM QPSK	1	1	11.25	11.28	11.33	11.25	11.24	12.3
100		1	136	11.02	11.17	11.31	11.26	11.17	
100		1	271	11.04	11.23	11.23	11.18	11.16	
100		135	1	10.36	10.35	10.38	10.31	10.39	12.3
100		135	67	11.11	11.14	11.26	11.25	11.19	
100		135	136	10.45	10.42	10.49	10.31	10.34	
100		270	0	11.10	11.14	11.16	11.11	11.07	
100	DFT-s-OFDM 16QAM	1	1	10.06	10.10	10.12	10.28	10.10	11.3
100	DFT-s-OFDM 64QAM	1	1	8.57	8.81	8.80	8.93	8.81	10.3
100	DFT-s-OFDM 256QAM	1	1	6.46	6.65	6.66	6.74	6.62	7.3
100	CP-OFDM QPSK	1	1	9.82	9.87	9.93	9.99	9.74	11.3
100	CP-OFDM 16QAM	1	1	9.01	9.35	9.29	9.53	9.27	10.3
100	CP-OFDM 64QAM	1	1	7.05	7.33	7.36	7.58	7.27	9.3
100	CP-OFDM 256QAM	1	1	4.40	4.61	4.63	4.73	4.64	5.3
Channel				633000	633168	633334	633500	633666	12.3
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	11.45	11.44	11.42	11.37	11.44	12.3
Channel				632668	633000	633334	633666	634000	12.3
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	11.47	11.41	11.41	11.32	11.35	12.3
Channel				632334	632834	633334	633832	634332	12.3
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	11.46	11.38	11.43	11.33	11.26	12.3
Channel				632000	632668	633334	634000	634666	12.3
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	11.28	11.25	11.14	11.15	11.12	12.3
Channel				631668	632500	633334	634166	635000	12.3
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	11.50	11.48	11.56	11.34	11.28	12.3
Channel				631334	632334	633334	634332	635332	12.3
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	11.41	11.39	11.18	11.10	10.87	12.3
Channel				631000	632168	633334	634500	635666	12.3
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	11.40	11.39	11.29	11.15	10.89	12.3
Channel				630668	632000	633334	634666	636000	12.3
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	11.25	11.15	11.10	11.06	10.86	12.3
Channel				630500	631916	633334	634750	636166	12.3
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	11.19	11.22	11.16	10.89	10.83	12.3
Channel				630334	631834	633334	634834	636332	12.3
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	11.16	11.19	11.21	10.83	10.84	12.3

n77(3450-3550MHz) (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			14.5
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			13.22			14.5
100		1	136			13.21			
100		1	271			13.27			
100		135	1			13.27			14.5
100		135	67			13.19			
100		135	136			13.29			
100	DFT-s-OFDM QPSK	270	0			13.30			14.5
100		1	1			13.32			
100		1	136			13.21			
100		1	271			13.26			14.5
100		135	1			13.15			
100		135	67			13.26			
100	DFT-s-OFDM 16QAM	135	136			13.14			14.5
100		270	0			13.24			
100		1	1			13.13			
100	DFT-s-OFDM 64QAM	1	1			11.38			12.5
100	DFT-s-OFDM 256QAM	1	1			9.56			10.5
100	CP-OFDM QPSK	1	1			12.80			14.5
100	CP-OFDM 16QAM	1	1			12.26			13.5
100	CP-OFDM 64QAM	1	1			10.54			11.5
100	CP-OFDM 256QAM	1	1			7.66			9.5
Channel				633000	633168	633334	633500	633666	14.5
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	13.10	13.14	13.16	13.11	13.24	14.5
Channel				632668	633000	633334	633666	634000	14.5
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	13.30	13.23	13.26	13.28	13.17	14.5
Channel				632334	632834	633334	633832	634332	14.5
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	13.22	13.19	13.25	13.26	13.24	14.5
Channel				632000	632668	633334	634000	634666	14.5
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	13.15	13.21	13.21	13.21	13.26	14.5
Channel				631668	632500	633334	634166	635000	14.5
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	13.29	13.29	13.21	13.28	13.21	14.5
Channel				631334	632334	633334	634332	635332	14.5
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	13.22	13.23	13.26	13.22	13.26	14.5
Channel				631000	632168	633334	634500	635666	14.5
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	13.23	13.19	13.25	13.22	13.26	14.5
Channel				630668	632000	633334	634666	636000	14.5
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	13.10	13.19	13.23	13.24	13.28	14.5
Channel				630500	631916	633334	634750	636166	14.5
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	13.08	13.19	13.25	13.28	13.27	14.5
Channel				630334	631834	633334	634834	636332	14.5
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	13.06	13.16	13.17	13.26	13.24	14.5

n77(3700-3980MHz) (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	14.5
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	13.17	13.16	13.25	13.14	13.30	14.5
100		1	136	13.12	13.13	13.15	13.13	13.20	
100		1	271	13.11	13.30	13.21	13.16	13.20	
100		135	1	13.06	13.06	13.11	13.12	13.22	14.5
100		135	67	13.06	13.14	13.10	13.00	13.20	
100		135	136	13.11	13.24	13.15	13.21	13.16	
100	DFT-s-OFDM QPSK	270	0	13.09	13.24	13.20	13.23	13.24	14.5
100		1	1	13.16	13.22	13.34	13.19	13.29	
100		1	136	13.04	13.05	13.03	13.06	13.13	
100		1	271	13.26	13.20	13.30	13.22	13.23	14.5
100		135	1	13.05	13.02	13.08	13.13	13.19	
100		135	67	13.20	13.23	13.26	13.21	13.11	
100	DFT-s-OFDM 16QAM	1	1	12.93	13.03	13.09	13.03	13.14	14.5
100		1	1	11.27	11.40	11.49	11.40	11.52	12.5
100	DFT-s-OFDM 256QAM	1	1	9.34	9.56	9.61	9.53	9.66	10.5
100	CP-OFDM QPSK	1	1	12.71	12.60	11.91	12.76	11.94	14.5
100	CP-OFDM 16QAM	1	1	12.01	12.13	12.24	12.18	12.30	13.5
100	CP-OFDM 64QAM	1	1	10.47	10.61	10.66	10.66	10.77	11.5
100	CP-OFDM 256QAM	1	1	7.42	7.63	7.69	7.66	7.76	9.5
Channel				649666	652834	656000	659166	662332	14.5
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	13.11	13.20	13.06	12.98	13.25	14.5
Channel				649334	652668	656000	659332	662666	14.5
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	13.03	13.04	13.03	13.07	13.20	14.5
Channel				649000	652500	656000	659500	663000	14.5
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	12.93	13.02	13.05	13.12	13.13	14.5
Channel				648668	652334	656000	659666	663332	14.5
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	12.86	12.82	12.90	13.01	13.06	14.5
Channel				648334	652168	656000	659832	663666	14.5
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	12.96	13.09	13.11	13.16	13.13	14.5
Channel				648000	652000	656000	660000	664000	14.5
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	12.97	12.97	12.95	13.03	12.93	14.5
Channel				647668	651834	656000	660166	664332	14.5
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	13.07	13.08	13.06	13.20	13.02	14.5
Channel				647334	651668	656000	660332	664666	14.5
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	12.98	12.89	12.82	12.91	12.87	14.5
Channel				647168	651584	656000	660416	664832	14.5
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	12.92	13.03	12.91	12.93	12.92	14.5
Channel				647000	651500	656000	660500	665000	14.5
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	12.88	13.00	12.88	13.03	12.85	14.5

n77(3450-3550MHz) (PC3)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			5.9
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			4.82			5.9
100		1	136			4.81			
100		1	271			4.87			
100		135	1			4.87			5.9
100		135	67			4.79			
100		135	136			4.89			
100	DFT-s-OFDM QPSK	270	0			4.90			5.9
100		1	1			4.92			
100		1	136			4.81			
100		1	271			4.86			5.9
100		135	1			4.75			
100		135	67			4.86			
100		135	136			4.74			5.9
100		270	0			4.84			
100	DFT-s-OFDM 16QAM	1	1			4.73			5.9
100	DFT-s-OFDM 64QAM	1	1			2.98			3.9
100	DFT-s-OFDM 256QAM	1	1			1.16			1.9
100	CP-OFDM QPSK	1	1			4.40			5.9
100	CP-OFDM 16QAM	1	1			3.86			4.9
100	CP-OFDM 64QAM	1	1			2.14			2.9
100	CP-OFDM 256QAM	1	1			0.99			1.9
Channel				633000	633168	633334	633500	633666	5.9
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	4.70	4.74	4.76	4.71	4.84	5.9
Channel				632668	633000	633334	633666	634000	5.9
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	4.90	4.83	4.86	4.88	4.77	5.9
Channel				632334	632834	633334	633832	634332	5.9
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	4.82	4.79	4.85	4.86	4.84	5.9
Channel				632000	632668	633334	634000	634666	5.9
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	4.75	4.81	4.81	4.81	4.86	5.9
Channel				631668	632500	633334	634166	635000	5.9
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	4.89	4.89	4.81	4.88	4.81	5.9
Channel				631334	632334	633334	634332	635332	5.9
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	4.82	4.83	4.86	4.82	4.86	5.9
Channel				631000	632168	633334	634500	635666	5.9
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	4.83	4.79	4.85	4.82	4.86	5.9
Channel				630668	632000	633334	634666	636000	5.9
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	4.70	4.79	4.83	4.84	4.88	5.9
Channel				630500	631916	633334	634750	636166	5.9
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	4.68	4.79	4.85	4.88	4.87	5.9
Channel				630334	631834	633334	634834	636332	5.9
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	4.66	4.76	4.77	4.86	4.84	5.9

n77(3700-3980MHz) (PC3)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	5.9
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	4.77	4.76	4.85	4.74	4.90	5.9
100		1	136	4.72	4.73	4.75	4.73	4.80	
100		1	271	4.71	4.90	4.81	4.76	4.80	
100		135	1	4.66	4.66	4.71	4.72	4.82	5.9
100		135	67	4.66	4.74	4.70	4.60	4.80	
100		135	136	4.71	4.84	4.75	4.81	4.76	
100	DFT-s-OFDM QPSK	270	0	4.69	4.84	4.80	4.83	4.84	5.9
100		1	1	4.76	4.82	4.94	4.79	4.89	
100		1	136	4.64	4.65	4.63	4.66	4.73	
100		1	271	4.86	4.80	4.90	4.82	4.83	5.9
100		135	1	4.65	4.62	4.68	4.73	4.79	
100		135	67	4.80	4.83	4.86	4.81	4.71	
100	DFT-s-OFDM 16QAM	135	136	4.66	4.64	4.64	4.66	4.73	5.9
100		270	0	4.75	4.79	4.76	4.81	4.86	
100	DFT-s-OFDM 64QAM	1	1	4.53	4.63	4.69	4.63	4.74	5.7
100	DFT-s-OFDM 256QAM	1	1	2.87	3.00	3.09	3.00	3.12	3.7
100	CP-OFDM QPSK	1	1	0.94	1.16	1.21	1.13	1.26	2.2
100	CP-OFDM 16QAM	1	1	4.31	4.20	3.51	4.36	3.54	5.2
100	CP-OFDM 64QAM	1	1	3.61	3.73	3.84	3.78	3.90	4.7
100	CP-OFDM 256QAM	1	1	2.07	2.21	2.26	2.26	2.37	3.2
100	CP-OFDM 256QAM	1	1	1.08	1.11	1.12	1.22	1.28	2.2
Channel				649666	652834	656000	659166	662332	5.9
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	4.71	4.80	4.66	4.58	4.85	5.9
Channel				649334	652668	656000	659332	662666	5.9
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	4.63	4.64	4.63	4.67	4.80	5.9
Channel				649000	652500	656000	659500	663000	5.9
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	4.53	4.62	4.65	4.72	4.73	5.9
Channel				648668	652334	656000	659666	663332	5.9
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	4.46	4.42	4.50	4.61	4.66	5.9
Channel				648334	652168	656000	659832	663666	5.9
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	4.56	4.69	4.71	4.76	4.73	5.9
Channel				648000	652000	656000	660000	664000	5.9
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	4.57	4.57	4.55	4.63	4.53	5.9
Channel				647668	651834	656000	660166	664332	5.9
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	4.67	4.68	4.66	4.80	4.62	5.9
Channel				647334	651668	656000	660332	664666	5.9
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	4.58	4.49	4.42	4.51	4.47	5.9
Channel				647168	651584	656000	660416	664832	5.9
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	4.52	4.63	4.51	4.53	4.52	5.9
Channel				647000	651500	656000	660500	665000	5.9
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	4.48	4.60	4.48	4.63	4.45	5.9

n77(3450-3550MHz) (PC3)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			10
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			8.97			10
100		1	136			8.96			
100		1	271			9.02			
100		135	1			9.02			10
100		135	67			8.94			
100		135	136			9.04			
100	DFT-s-OFDM QPSK	270	0			9.05			10
100		1	1			9.07			
100		1	136			8.96			
100		1	271			9.01			10
100		135	1			8.90			
100		135	67			9.01			
100	DFT-s-OFDM 16QAM	135	136			8.89			10
100		270	0			8.99			
100		1	1			8.88			
100	DFT-s-OFDM 64QAM	1	1			7.13			8
100	DFT-s-OFDM 256QAM	1	1			5.31			6
100	CP-OFDM QPSK	1	1			8.55			10
100	CP-OFDM 16QAM	1	1			8.01			9
100	CP-OFDM 64QAM	1	1			6.29			7
100	CP-OFDM 256QAM	1	1			3.41			4
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	8.85	8.89	8.91	8.86	8.99	10
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	9.05	8.98	9.01	9.03	8.92	10
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	8.97	8.94	9.00	9.01	8.99	10
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	8.90	8.96	8.96	8.96	9.01	10
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	9.04	9.04	8.96	9.03	8.96	10
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	8.97	8.98	9.01	8.97	9.01	10
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	8.98	8.94	9.00	8.97	9.01	10
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	8.85	8.94	8.98	8.99	9.03	10
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	8.83	8.94	9.00	9.03	9.02	10
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	8.81	8.91	8.92	9.01	8.99	10

n77(3700-3980MHz) (PC3)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	10
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	8.87	8.86	8.95	8.84	9.00	10
100		1	136	8.82	8.83	8.85	8.83	8.90	
100		1	271	8.81	9.00	8.91	8.86	8.90	
100		135	1	8.76	8.76	8.81	8.82	8.92	10
100		135	67	8.76	8.84	8.80	8.70	8.90	
100		135	136	8.81	8.94	8.85	8.91	8.86	
100	DFT-s-OFDM QPSK	270	0	8.79	8.94	8.90	8.93	8.94	10
100		1	1	8.86	8.92	9.04	8.89	8.99	
100		1	136	8.74	8.75	8.73	8.76	8.83	
100		1	271	8.96	8.90	9.00	8.92	8.93	10
100		135	1	8.75	8.72	8.78	8.83	8.89	
100		135	67	8.90	8.93	8.96	8.91	8.81	
100	DFT-s-OFDM 16QAM	135	136	8.76	8.74	8.74	8.76	8.83	10
100		270	0	8.85	8.89	8.86	8.91	8.96	
100	DFT-s-OFDM 64QAM	1	1	8.63	8.73	8.79	8.73	8.84	10
100	DFT-s-OFDM 256QAM	1	1	6.97	7.10	7.19	7.10	7.22	8
100	CP-OFDM QPSK	1	1	5.04	5.26	5.31	5.23	5.36	6
100	CP-OFDM 16QAM	1	1	8.41	8.30	7.61	8.46	7.64	10
100	CP-OFDM 64QAM	1	1	7.71	7.83	7.94	7.88	8.00	9
100	CP-OFDM 256QAM	1	1	6.17	6.31	6.36	6.36	6.47	7
100	CP-OFDM 256QAM	1	1	3.12	3.33	3.39	3.36	3.46	4
Channel				649666	652834	656000	659166	662332	10
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	8.81	8.90	8.76	8.68	8.95	10
Channel				649334	652668	656000	659332	662666	10
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	8.73	8.74	8.73	8.77	8.90	10
Channel				649000	652500	656000	659500	663000	10
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	8.63	8.72	8.75	8.82	8.83	10
Channel				648668	652334	656000	659666	663332	10
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	8.56	8.52	8.60	8.71	8.76	10
Channel				648334	652168	656000	659832	663666	10
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	8.66	8.79	8.81	8.86	8.83	10
Channel				648000	652000	656000	660000	664000	10
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	8.67	8.67	8.65	8.73	8.63	10
Channel				647668	651834	656000	660166	664332	10
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	8.77	8.78	8.76	8.90	8.72	10
Channel				647334	651668	656000	660332	664666	10
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	8.68	8.59	8.52	8.61	8.57	10
Channel				647168	651584	656000	660416	664832	10
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	8.62	8.73	8.61	8.63	8.62	10
Channel				647000	651500	656000	660500	665000	10
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	8.58	8.70	8.58	8.73	8.55	10

n77(3450-3550MHz) (PC3)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			10.3
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			9.01			10.3
100		1	136			9.00			
100		1	271			9.06			
100		135	1			9.06			10.3
100		135	67			8.98			
100		135	136			9.08			
100	DFT-s-OFDM QPSK	270	0			9.09			10.3
100		1	1			9.11			
100		1	136			9.00			
100		1	271			9.05			10.3
100		135	1			8.94			
100		135	67			9.05			
100	DFT-s-OFDM 16QAM	135	136			8.93			10.3
100		270	0			9.03			
100		1	1			8.92			
100	DFT-s-OFDM 64QAM	1	1			7.17			8.3
100	DFT-s-OFDM 256QAM	1	1			5.35			6.3
100	CP-OFDM QPSK	1	1			8.59			10.3
100	CP-OFDM 16QAM	1	1			8.05			9.3
100	CP-OFDM 64QAM	1	1			6.33			7.3
100	CP-OFDM 256QAM	1	1			3.45			5.3
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	8.89	8.93	8.95	8.90	9.03	10.3
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	9.09	9.02	9.05	9.07	8.96	10.3
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	9.01	8.98	9.04	9.05	9.03	10.3
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	8.94	9.00	9.00	9.00	9.05	10.3
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	9.08	9.08	9.00	9.07	9.00	10.3
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	9.01	9.02	9.05	9.01	9.05	10.3
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	9.02	8.98	9.04	9.01	9.05	10.3
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	8.89	8.98	9.02	9.03	9.07	10.3
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	8.87	8.98	9.04	9.07	9.06	10.3
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	8.85	8.95	8.96	9.05	9.03	10.3

n77(3700-3980MHz) (PC3)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	10.3
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	8.98	8.97	9.06	8.95	9.11	10.3
100		1	136	8.93	8.94	8.96	8.94	9.01	
100		1	271	8.92	9.11	9.02	8.97	9.01	
100		135	1	8.87	8.87	8.92	8.93	9.03	10.3
100		135	67	8.87	8.95	8.91	8.81	9.01	
100		135	136	8.92	9.05	8.96	9.02	8.97	
100	DFT-s-OFDM QPSK	270	0	8.90	9.05	9.01	9.04	9.05	10.3
100		1	1	8.97	9.03	9.15	9.00	9.10	
100		1	136	8.85	8.86	8.84	8.87	8.94	
100		1	271	9.07	9.01	9.11	9.03	9.04	10.3
100		135	1	8.86	8.83	8.89	8.94	9.00	
100		135	67	9.01	9.04	9.07	9.02	8.92	
100	DFT-s-OFDM 16QAM	135	136	8.87	8.85	8.85	8.87	8.94	10.3
100		270	0	8.96	9.00	8.97	9.02	9.07	
100	DFT-s-OFDM 64QAM	1	1	8.74	8.84	8.90	8.84	8.95	10.3
100	DFT-s-OFDM 256QAM	1	1	7.08	7.21	7.30	7.21	7.33	8.3
100	CP-OFDM QPSK	1	1	5.15	5.37	5.42	5.34	5.47	6.3
100	CP-OFDM 16QAM	1	1	8.52	8.41	7.72	8.57	7.75	10.3
100	CP-OFDM 64QAM	1	1	7.82	7.94	8.05	7.99	8.11	9.3
100	CP-OFDM 256QAM	1	1	6.28	6.42	6.47	6.47	6.58	7.3
100	CP-OFDM 256QAM	1	1	3.23	3.44	3.50	3.47	3.57	5.3
Channel				649666	652834	656000	659166	662332	Tune-up limit (dBm)
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	8.92	9.01	8.87	8.79	9.06	10.3
Channel				649334	652668	656000	659332	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	8.84	8.85	8.84	8.88	9.01	10.3
Channel				649000	652500	656000	659500	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	8.74	8.83	8.86	8.93	8.94	10.3
Channel				648668	652334	656000	659666	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	8.67	8.63	8.71	8.82	8.87	10.3
Channel				648334	652168	656000	659832	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	8.77	8.90	8.92	8.97	8.94	10.3
Channel				648000	652000	656000	660000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	8.78	8.78	8.76	8.84	8.74	10.3
Channel				647668	651834	656000	660166	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	8.88	8.89	8.87	9.01	8.83	10.3
Channel				647334	651668	656000	660332	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	8.79	8.70	8.63	8.72	8.68	10.3
Channel				647168	651584	656000	660416	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	8.73	8.84	8.72	8.74	8.73	10.3
Channel				647000	651500	656000	660500	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	8.69	8.81	8.69	8.84	8.66	10.3

n78(3450-3550MHz) (PC2)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			10.68			11.7
100		1	136			10.62			
100		1	271			10.59			
100		135	1			10.57			11.7
100		135	67			10.54			
100		135	136			10.01			
100		270	0			10.58			
100	DFT-s-OFDM QPSK	1	1			10.70			11.7
100		1	136			10.68			
100		1	271			10.48			
100		135	1			10.26			11.7
100		135	67			10.67			
100		135	136			9.73			
100		270	0			10.56			
100	DFT-s-OFDM 16QAM	1	1			10.19			10.7
100	DFT-s-OFDM 64QAM	1	1			8.99			9.7
100	DFT-s-OFDM 256QAM	1	1			6.71			7.7
100	CP-OFDM QPSK	1	1			10.11			11.7
100	CP-OFDM 16QAM	1	1			9.51			10.7
100	CP-OFDM 64QAM	1	1			7.57			9.7
100	CP-OFDM 256QAM	1	1			4.88			5.7
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	10.59	10.56	10.53	10.55	10.58	11.7
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	10.60	10.49	10.57	10.61	10.47	11.7
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	10.56	10.54	10.55	10.44	10.46	11.7
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	10.45	10.39	10.38	10.25	10.22	11.7
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	10.52	10.42	10.38	10.53	10.40	11.7
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	10.49	9.45	10.22	10.26	10.00	11.7
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	10.55	10.46	10.39	10.31	10.23	11.7
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	10.46	10.33	10.34	10.33	10.25	11.7
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	10.48	10.44	10.31	10.31	10.19	11.7
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	10.50	10.49	10.37	10.16	10.40	11.7

n78(3700-3800MHz) (PC2)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			10.32			11.7
100		1	136			10.41			
100		1	271			10.48			
100		135	1			10.19			11.7
100		135	67			10.41			
100		135	136			9.86			
100		270	0			10.04			
100	DFT-s-OFDM QPSK	1	1			10.54			11.7
100		1	136			10.35			
100		1	271			10.41			
100		135	1			9.98			11.7
100		135	67			10.45			
100		135	136			9.88			
100		270	0			10.40			
100	DFT-s-OFDM 16QAM	1	1			9.72			10.7
100	DFT-s-OFDM 64QAM	1	1			8.33			9.7
100	DFT-s-OFDM 256QAM	1	1			6.09			6.7
100	CP-OFDM QPSK	1	1			9.46			10.7
100	CP-OFDM 16QAM	1	1			8.91			9.7
100	CP-OFDM 64QAM	1	1			6.87			7.7
100	CP-OFDM 256QAM	1	1			4.11			4.7
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	10.39	10.36	10.43	10.35	10.38	11.7
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	10.40	10.29	10.37	10.41	10.27	11.7
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	10.36	10.34	10.35	10.24	10.26	11.7
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	10.25	10.19	10.18	10.05	10.02	11.7
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	10.32	10.22	10.18	10.33	10.20	11.7
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	10.29	9.25	10.02	10.06	9.80	11.7
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	10.35	10.26	10.19	10.11	10.03	11.7
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	10.26	10.13	10.14	10.13	10.05	11.7
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	10.28	10.24	10.11	10.11	9.99	11.7
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	10.30	10.29	10.17	9.96	10.20	11.7

n78(3450-3550MHz) (PC2)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			6.3
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			5.30			6.3
100		1	136			5.28			
100		1	271			4.91			
100		135	1			4.92			6.3
100		135	67			5.28			
100		135	136			4.31			
100	DFT-s-OFDM QPSK	270	0			4.81			6.3
100		1	1			5.35			
100		1	136			5.20			
100		1	271			4.89			6.3
100		135	1			4.41			
100		135	67			5.22			
100		135	136			4.32			6.3
100		270	0			4.30			
100	DFT-s-OFDM 16QAM	1	1			4.50			5.3
100	DFT-s-OFDM 64QAM	1	1			2.74			3.6
100	DFT-s-OFDM 256QAM	1	1			0.86			1.6
100	CP-OFDM QPSK	1	1			4.26			5.3
100	CP-OFDM 16QAM	1	1			3.67			4.3
100	CP-OFDM 64QAM	1	1			1.76			2.3
100	CP-OFDM 256QAM	1	1			0.88			1.3
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	5.34	5.21	5.28	5.30	5.33	6.3
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	5.30	5.24	5.32	5.30	5.22	6.3
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	5.31	5.29	5.30	5.19	5.21	6.3
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	5.20	5.14	5.13	5.00	4.97	6.3
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	5.17	5.17	5.13	5.28	5.15	6.3
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	5.24	4.20	4.97	5.01	4.75	6.3
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	5.30	5.21	5.14	5.06	4.58	6.3
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	5.21	5.08	5.09	4.68	4.60	6.3
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	5.23	5.19	5.06	4.66	4.54	6.3
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	5.25	5.24	5.12	4.91	4.75	6.3

n78(3700-3800MHz) (PC2)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			6.3
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			5.02			6.3
100		1	136			5.03			
100		1	271			5.09			
100		135	1			4.75			6.3
100		135	67			5.05			
100		135	136			4.43			
100	DFT-s-OFDM QPSK	270	0			4.60			6.3
100		1	1			5.18			
100		1	136			5.06			
100		1	271			5.11			6.3
100		135	1			4.57			
100		135	67			5.02			
100	DFT-s-OFDM 16QAM	135	136			4.41			6.3
100		270	0			4.98			
100	DFT-s-OFDM 64QAM	1	1			3.79			4.3
100	DFT-s-OFDM 256QAM	1	1			2.39			3.3
100	CP-OFDM QPSK	1	1			0.15			1.3
100	CP-OFDM 16QAM	1	1			3.58			4.3
100	CP-OFDM 64QAM	1	1			3.01			3.3
100	CP-OFDM 256QAM	1	1			1.62			2.3
100		1	1			0.79			1.3
Channel				649668	649834	650000	650166	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	4.91	5.00	4.99	5.05	5.08	6.3
Channel				649334	649666	650000	650334	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	5.00	4.95	5.07	5.13	5.14	6.3
Channel				649000	649500	650000	650500	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	4.95	5.06	5.14	5.10	5.11	6.3
Channel				648668	649334	650000	650666	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	4.78	4.95	4.99	5.05	4.95	6.3
Channel				648334	649166	650000	650834	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	5.00	5.11	5.18	5.18	5.11	6.3
Channel				648000	649000	650000	651000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	4.87	5.13	5.10	4.98	4.97	6.3
Channel				647668	648834	650000	651166	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	4.90	5.13	5.17	4.98	4.93	6.3
Channel				647334	648666	650000	651334	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	4.78	5.14	5.03	4.88	4.72	6.3
Channel				647168	648584	650000	651416	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	4.86	5.14	5.12	4.96	4.82	6.3
Channel				647000	648500	650000	651500	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	4.89	5.10	5.10	4.95	4.97	6.3

n78(3450-3550MHz) (PC2)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			8.73			9.9
100		1	136			8.06			
100		1	271			8.19			
100		135	1			7.94			9.9
100		135	67			7.92			
100		135	136			7.99			
100		270	0			8.14			
100	DFT-s-OFDM QPSK	1	1			8.88			9.9
100		1	136			8.06			
100		1	271			8.45			
100		135	1			8.47			9.9
100		135	67			8.84			
100		135	136			7.92			
100		270	0			8.69			
100	DFT-s-OFDM 16QAM	1	1			7.56			8.9
100	DFT-s-OFDM 64QAM	1	1			6.18			6.9
100	DFT-s-OFDM 256QAM	1	1			3.94			4.9
100	CP-OFDM QPSK	1	1			7.31			8.9
100	CP-OFDM 16QAM	1	1			6.68			7.9
100	CP-OFDM 64QAM	1	1			4.74			5.9
100	CP-OFDM 256QAM	1	1			2.06			2.9
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	8.77	8.84	8.71	8.73	8.76	9.9
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	8.78	8.67	8.75	8.79	8.65	9.9
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	8.74	8.72	8.73	8.62	8.64	9.9
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	8.63	8.57	8.56	8.43	8.40	9.9
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	8.80	8.80	8.56	8.71	8.58	9.9
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	8.67	7.63	8.40	8.44	8.18	9.9
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	8.73	8.64	8.57	8.49	8.01	9.9
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	8.64	8.51	8.52	8.11	8.03	9.9
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	8.66	8.62	8.49	8.09	7.97	9.9
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	8.68	8.67	8.55	8.34	8.18	9.9

n78(3700-3800MHz) (PC2)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			8.66			9.9
100		1	136			8.25			
100		1	271			8.46			
100		135	1			8.51			9.9
100		135	67			8.36			
100		135	136			8.37			
100		270	0			8.43			
100	DFT-s-OFDM QPSK	1	1			8.81			9.9
100		1	136			8.29			
100		1	271			8.43			
100		135	1			8.01			9.9
100		135	67			8.77			
100		135	136			7.85			
100		270	0			8.64			
100	DFT-s-OFDM 16QAM	1	1			6.58			7.9
100	DFT-s-OFDM 64QAM	1	1			5.22			6.9
100	DFT-s-OFDM 256QAM	1	1			2.87			3.9
100	CP-OFDM QPSK	1	1			6.36			7.9
100	CP-OFDM 16QAM	1	1			5.72			6.9
100	CP-OFDM 64QAM	1	1			3.78			4.9
100	CP-OFDM 256QAM	1	1			1.01			1.9
Channel				649668	649834	650000	650166	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	8.49	8.58	8.57	8.63	8.66	9.9
Channel				649334	649666	650000	650334	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	8.58	8.53	8.65	8.71	8.76	9.9
Channel				649000	649500	650000	650500	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	8.33	8.44	8.52	8.67	8.69	9.9
Channel				648668	649334	650000	650666	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	8.16	8.33	8.37	8.43	8.33	9.9
Channel				648334	649166	650000	650834	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	8.38	8.59	8.66	8.56	8.49	9.9
Channel				648000	649000	650000	651000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	8.25	8.51	8.58	8.56	8.55	9.9
Channel				647668	648834	650000	651166	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	8.28	8.51	8.55	8.56	8.51	9.9
Channel				647334	648666	650000	651334	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	8.16	8.52	8.41	8.46	8.30	9.9
Channel				647168	648584	650000	651416	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	8.24	8.52	8.50	8.54	8.40	9.9
Channel				647000	648500	650000	651500	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	8.27	8.58	8.48	8.53	8.55	9.9

n78(3450-3550MHz) (PC2)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			9.94			11
100		1	136			9.77			
100		1	271			9.84			
100		135	1			9.63			11
100		135	67			9.95			
100		135	136			9.16			
100		270	0			9.56			
100	DFT-s-OFDM QPSK	1	1			10.00			11
100		1	136			9.70			
100		1	271			9.74			
100		135	1			9.40			11
100		135	67			9.95			
100		135	136			9.18			
100		270	0			9.89			
100	DFT-s-OFDM 16QAM	1	1			9.21			10
100	DFT-s-OFDM 64QAM	1	1			7.79			9
100	DFT-s-OFDM 256QAM	1	1			5.59			6
100	CP-OFDM QPSK	1	1			8.94			10
100	CP-OFDM 16QAM	1	1			8.33			9
100	CP-OFDM 64QAM	1	1			6.43			7
100	CP-OFDM 256QAM	1	1			3.71			5
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	9.89	9.86	9.93	9.85	9.88	11
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	9.90	9.79	9.87	9.91	9.77	11
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	9.86	9.84	9.85	9.74	9.76	11
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	9.75	9.69	9.68	9.55	9.52	11
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	9.82	9.72	9.68	9.83	9.70	11
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	9.79	8.75	9.52	9.56	9.30	11
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	9.85	9.76	9.69	9.61	9.53	11
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	9.76	9.63	9.64	9.63	9.55	11
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	9.78	9.74	9.61	9.61	9.49	11
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	9.80	9.79	9.67	9.46	9.70	11

n78(3700-3800MHz) (PC2)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			9.79			22.3
100		1	136			9.79			
100		1	271			9.81			
100		135	1			9.58			22.3
100		135	67			9.80			
100		135	136			9.33			
100		270	0			9.48			
100	DFT-s-OFDM QPSK	1	1			9.85			22.3
100		1	136			9.82			
100		1	271			9.83			
100		135	1			9.07			22.3
100		135	67			9.78			
100		135	136			8.83			
100		270	0			9.73			
100	DFT-s-OFDM 16QAM	1	1			9.17			10
100	DFT-s-OFDM 64QAM	1	1			8.13			9
100	DFT-s-OFDM 256QAM	1	1			5.84			7
100	CP-OFDM QPSK	1	1			9.26			10
100	CP-OFDM 16QAM	1	1			8.26			9
100	CP-OFDM 64QAM	1	1			6.40			7
100	CP-OFDM 256QAM	1	1			3.92			5
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	9.69	9.66	9.73	9.65	9.68	11
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	9.70	9.59	9.67	9.71	9.57	11
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	9.66	9.64	9.65	9.54	9.56	11
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	9.55	9.49	9.48	9.35	9.32	11
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	9.62	9.52	9.48	9.63	9.50	11
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	9.59	8.55	9.32	9.36	9.10	11
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	9.65	9.56	9.49	9.41	9.33	11
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	9.56	9.43	9.44	9.43	9.35	11
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	9.58	9.54	9.41	9.41	9.29	11
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	9.60	9.59	9.47	9.26	9.50	11

n78(3450-3550MHz) (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			11.2
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			10.30			11.2
100		1	136			10.23			
100		1	271			10.27			
100		135	1			10.25			11.2
100		135	67			10.36			
100		135	136			6.45			
100	DFT-s-OFDM QPSK	270	0			10.32			11.2
100		1	1			10.38			
100		1	136			10.18			
100		1	271			10.28			11.2
100		135	1			10.22			
100		135	67			10.31			
100	DFT-s-OFDM 16QAM	135	136			10.21			11.2
100		270	0			10.24			
100		1	1			10.24			
100	DFT-s-OFDM 64QAM	1	1			9.49			10.2
100	DFT-s-OFDM 256QAM	1	1			7.58			8.2
100	CP-OFDM QPSK	1	1			10.34			11.2
100	CP-OFDM 16QAM	1	1			9.18			10.2
100	CP-OFDM 64QAM	1	1			10.22			11.2
100	CP-OFDM 256QAM	1	1			5.76			7.2
Channel				633000	633166	633334	633500	633666	11.2
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	10.20	10.18	10.27	10.32	10.33	11.2
Channel				632668	633000	633334	633666	634000	11.2
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	10.19	10.16	10.20	10.27	10.26	11.2
Channel				632334	632834	633334	633832	634332	11.2
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	10.10	10.29	10.25	10.18	10.31	11.2
Channel				632000	632666	633334	634000	634666	11.2
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	10.10	10.12	10.12	10.09	10.17	11.2
Channel				631668	632500	633334	634166	635000	11.2
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	10.06	10.12	10.26	10.27	10.24	11.2
Channel				631334	636672	633334	634334	635332	11.2
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	10.07	10.06	10.11	10.11	10.28	11.2
Channel				631000	632166	633334	634500	635666	11.2
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	10.11	10.11	10.35	10.27	10.26	11.2
Channel				630668	632000	633334	634668	636000	11.2
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	10.01	10.12	10.15	10.25	10.18	11.2
Channel				630500	631916	633334	634750	636166	11.2
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	9.91	10.00	10.18	10.28	10.34	11.2
Channel				630334	631834	633334	634834	636332	11.2
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	9.90	10.05	10.25	10.30	10.31	11.2

n78(3700-3800MHz) (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			11.2
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			10.20			11.2
100		1	136			10.16			
100		1	271			10.15			
100		135	1			10.21			11.2
100		135	67			10.14			
100		135	136			10.14			
100	DFT-s-OFDM QPSK	270	0			10.17			11.2
100		1	1			10.31			
100		1	136			10.15			
100		1	271			10.17			11.2
100		135	1			10.19			
100		135	67			10.08			
100	DFT-s-OFDM 16QAM	135	136			9.17			11.2
100		270	0			10.17			
100	DFT-s-OFDM 64QAM	1	1			10.01			11.2
100	DFT-s-OFDM 256QAM	1	1			9.32			10.2
100	CP-OFDM QPSK	1	1			7.38			8.2
100	CP-OFDM 16QAM	1	1			9.25			10.2
100	CP-OFDM 64QAM	1	1			10.16			11.2
100	CP-OFDM 256QAM	1	1			8.50			9.2
100		1	1			5.77			7.2
Channel				649668	649834	650000	650166	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	10.06	10.12	10.20	10.22	10.25	11.2
Channel				649334	649666	650000	650334	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	10.09	10.28	10.17	10.10	10.18	11.2
Channel				649000	649500	650000	650500	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	10.09	10.30	10.17	10.19	10.18	11.2
Channel				648668	649334	650000	650666	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	10.18	10.01	10.04	10.08	10.19	11.2
Channel				648334	649166	650000	650834	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	10.27	10.23	10.27	10.24	10.27	11.2
Channel				648000	649000	650000	651000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	10.27	10.22	10.24	10.22	10.21	11.2
Channel				647668	648834	650000	651166	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	10.26	10.21	10.25	10.22	10.21	11.2
Channel				647334	648666	650000	651334	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	10.17	10.29	10.30	10.24	10.30	11.2
Channel				647168	648584	650000	651416	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	10.22	10.30	10.25	10.23	10.24	11.2
Channel				647000	648500	650000	651500	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	10.16	10.23	10.20	10.25	10.17	11.2

n78(3450-3550MHz) (PC3)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			6.8
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			5.75			6.8
100		1	136			5.68			
100		1	271			5.72			
100		135	1			5.70			6.8
100		135	67			5.81			
100		135	136			1.90			
100	DFT-s-OFDM QPSK	270	0			5.77			6.8
100		1	1			5.83			
100		1	136			5.63			
100		1	271			5.73			6.8
100		135	1			5.67			
100		135	67			5.76			
100		135	136			5.66			6.8
100		270	0			5.69			
100	DFT-s-OFDM 16QAM	1	1			5.69			6.8
100	DFT-s-OFDM 64QAM	1	1			4.94			5.8
100	DFT-s-OFDM 256QAM	1	1			3.03			3.8
100	CP-OFDM QPSK	1	1			5.79			6.8
100	CP-OFDM 16QAM	1	1			4.63			5.8
100	CP-OFDM 64QAM	1	1			5.67			6.8
100	CP-OFDM 256QAM	1	1			1.21			1.8
Channel				633000	633166	633334	633500	633666	6.8
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	5.65	5.63	5.72	5.77	5.78	6.8
Channel				632668	633000	633334	633666	634000	6.8
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	5.64	5.61	5.65	5.72	5.71	6.8
Channel				632334	632834	633334	633832	634332	6.8
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	5.55	5.74	5.70	5.63	5.76	6.8
Channel				632000	632666	633334	634000	634666	6.8
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	5.55	5.57	5.57	5.54	5.62	6.8
Channel				631668	632500	633334	634166	635000	6.8
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	5.51	5.57	5.71	5.72	5.69	6.8
Channel				631334	636672	633334	634334	635332	6.8
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	5.52	5.51	5.56	5.56	5.73	6.8
Channel				631000	632166	633334	634500	635666	6.8
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	5.56	5.56	5.80	5.72	5.71	6.8
Channel				630668	632000	633334	634668	636000	6.8
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	5.46	5.57	5.60	5.70	5.63	6.8
Channel				630500	631916	633334	634750	636166	6.8
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	5.36	5.45	5.63	5.73	5.79	6.8
Channel				630334	631834	633334	634834	636332	6.8
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	5.35	5.50	5.70	5.75	5.76	6.8

n78(3700-3800MHz) (PC3)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			6.8
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			5.65			6.8
100		1	136			5.61			
100		1	271			5.60			
100		135	1			5.66			6.8
100		135	67			5.59			
100		135	136			5.59			
100	DFT-s-OFDM QPSK	270	0			5.62			6.8
100		1	1			5.76			
100		1	136			5.60			
100		1	271			5.62			6.8
100		135	1			5.64			
100		135	67			5.53			
100	DFT-s-OFDM 16QAM	135	136			4.62			6.8
100		270	0			5.62			
100		1	1			5.46			
100	DFT-s-OFDM 64QAM	1	1			4.77			5.8
100	DFT-s-OFDM 256QAM	1	1			2.83			3.8
100	CP-OFDM QPSK	1	1			4.70			5.8
100	CP-OFDM 16QAM	1	1			5.61			6.8
100	CP-OFDM 64QAM	1	1			3.95			4.8
100	CP-OFDM 256QAM	1	1			1.02			1.8
Channel				649668	649834	650000	650166	650332	6.8
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	5.51	5.57	5.65	5.67	5.70	6.8
Channel				649334	649666	650000	650334	650666	6.8
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	5.54	5.73	5.62	5.55	5.63	6.8
Channel				649000	649500	650000	650500	651000	6.8
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	5.54	5.75	5.62	5.64	5.63	6.8
Channel				648668	649334	650000	650666	651332	6.8
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	5.63	5.46	5.49	5.53	5.64	6.8
Channel				648334	649166	650000	650834	651666	6.8
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	5.72	5.68	5.72	5.69	5.72	6.8
Channel				648000	649000	650000	651000	652000	6.8
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	5.72	5.67	5.69	5.67	5.66	6.8
Channel				647668	648834	650000	651166	652332	6.8
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	5.71	5.66	5.70	5.67	5.66	6.8
Channel				647334	648666	650000	651334	652666	6.8
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	5.62	5.74	5.75	5.69	5.75	6.8
Channel				647168	648584	650000	651416	652832	6.8
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	5.67	5.75	5.70	5.68	5.69	6.8
Channel				647000	648500	650000	651500	653000	6.8
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	5.61	5.68	5.65	5.70	5.62	6.8

n78(3450-3550MHz) (PC3)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			6.4
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			5.30			6.4
100		1	136			5.23			
100		1	271			5.27			
100		135	1			5.25			6.4
100		135	67			5.36			
100		135	136			1.45			
100	DFT-s-OFDM QPSK	270	0			5.32			6.4
100		1	1			5.38			
100		1	136			5.18			
100		1	271			5.28			6.4
100		135	1			5.22			
100		135	67			5.31			
100	DFT-s-OFDM 16QAM	135	136			5.21			6.4
100		270	0			5.24			
100		1	1			5.24			
100	DFT-s-OFDM 64QAM	1	1			4.49			5.4
100	DFT-s-OFDM 256QAM	1	1			2.58			3.4
100	CP-OFDM QPSK	1	1			5.34			6.4
100	CP-OFDM 16QAM	1	1			4.18			5.4
100	CP-OFDM 64QAM	1	1			5.22			6.4
100	CP-OFDM 256QAM	1	1			0.76			1.4
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	6.4
90	DFT-s-OFDM QPSK	1	1	5.20	5.18	5.27	5.32	5.33	6.4
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	6.4
80	DFT-s-OFDM QPSK	1	1	5.19	5.16	5.20	5.27	5.26	6.4
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	6.4
70	DFT-s-OFDM QPSK	1	1	5.10	5.29	5.25	5.18	5.31	6.4
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	6.4
60	DFT-s-OFDM QPSK	1	1	5.10	5.12	5.12	5.09	5.17	6.4
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	6.4
50	DFT-s-OFDM QPSK	1	1	5.06	5.12	5.26	5.27	5.24	6.4
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	6.4
40	DFT-s-OFDM QPSK	1	1	5.07	5.06	5.11	5.11	5.28	6.4
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	6.4
30	DFT-s-OFDM QPSK	1	1	5.11	5.11	5.35	5.27	5.26	6.4
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	6.4
20	DFT-s-OFDM QPSK	1	1	5.01	5.12	5.15	5.25	5.18	6.4
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	6.4
15	DFT-s-OFDM QPSK	1	1	4.91	5.00	5.18	5.28	5.34	6.4
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	6.4
10	DFT-s-OFDM QPSK	1	1	4.90	5.05	5.25	5.30	5.31	6.4

n78(3700-3800MHz) (PC3)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			6.4
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			5.21			6.4
100		1	136			5.17			
100		1	271			5.16			
100		135	1			5.22			6.4
100		135	67			5.15			
100		135	136			5.15			
100	DFT-s-OFDM QPSK	270	0			5.18			6.4
100		1	1			5.32			
100		1	136			5.16			
100		1	271			5.18			6.4
100		135	1			5.20			
100		135	67			5.09			
100	DFT-s-OFDM 16QAM	1	1			5.02			6.4
100		1	1			4.33			5.4
100	DFT-s-OFDM 256QAM	1	1			2.39			3.4
100	CP-OFDM QPSK	1	1			4.26			6.4
100	CP-OFDM 16QAM	1	1			5.17			5.4
100	CP-OFDM 64QAM	1	1			3.51			6.4
100	CP-OFDM 256QAM	1	1			0.58			1.4
Channel				649668	649834	650000	650166	650332	6.4
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	5.07	5.13	5.21	5.23	5.26	6.4
Channel				649334	649666	650000	650334	650666	6.4
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	5.10	5.29	5.18	5.11	5.19	6.4
Channel				649000	649500	650000	650500	651000	6.4
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	5.10	5.31	5.18	5.20	5.19	6.4
Channel				648668	649334	650000	650666	651332	6.4
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	5.19	5.02	5.05	5.09	5.20	6.4
Channel				648334	649166	650000	650834	651666	6.4
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	5.28	5.24	5.28	5.25	5.28	6.4
Channel				648000	649000	650000	651000	652000	6.4
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	5.28	5.23	5.25	5.23	5.22	6.4
Channel				647668	648834	650000	651166	652332	6.4
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	5.27	5.22	5.26	5.23	5.22	6.4
Channel				647334	648666	650000	651334	652666	6.4
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	5.18	5.30	5.31	5.25	5.31	6.4
Channel				647168	648584	650000	651416	652832	6.4
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	5.23	5.31	5.26	5.24	5.25	6.4
Channel				647000	648500	650000	651500	653000	6.4
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	5.17	5.24	5.21	5.26	5.18	6.4

n78(3450-3550MHz) (PC3)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			10
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			8.92			10
100		1	136			8.85			
100		1	271			8.89			
100		135	1			8.87			10
100		135	67			8.98			
100		135	136			5.07			
100	DFT-s-OFDM QPSK	270	0			8.94			10
100		1	1			9.00			
100		1	136			8.80			
100		1	271			8.90			10
100		135	1			8.84			
100		135	67			8.93			
100		135	136			8.83			10
100		270	0			8.86			
100	DFT-s-OFDM 16QAM	1	1			8.86			10
100	DFT-s-OFDM 64QAM	1	1			8.11			9
100	DFT-s-OFDM 256QAM	1	1			6.20			7
100	CP-OFDM QPSK	1	1			8.96			10
100	CP-OFDM 16QAM	1	1			7.80			9
100	CP-OFDM 64QAM	1	1			8.84			9
100	CP-OFDM 256QAM	1	1			4.38			6
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	8.80	8.78	8.87	8.92	8.93	10
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	8.79	8.76	8.80	8.87	8.86	10
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	8.70	8.89	8.85	8.91		10
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	8.70	8.72	8.72	8.69	8.77	10
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	8.66	8.72	8.86	8.87	8.84	10
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	8.67	8.66	8.71	8.71	8.88	10
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	8.71	8.71	8.95	8.87	8.86	10
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	8.61	8.72	8.75	8.85	8.78	-0.3
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	8.51	8.60	8.78	8.88	8.94	10
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	8.50	8.65	8.85	8.90	8.91	10

n78(3700-3800MHz) (PC3)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			10
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			8.83			10
100		1	136			8.79			
100		1	271			8.78			
100		135	1			8.84			10
100		135	67			8.77			
100		135	136			8.77			
100	DFT-s-OFDM QPSK	270	0			8.80			10
100		1	1			8.94			
100		1	136			8.78			
100		1	271			8.80			10
100		135	1			8.82			
100		135	67			8.71			
100	DFT-s-OFDM 16QAM	135	136			7.80			10
100		270	0			8.80			
100		1	1			8.64			10
100	DFT-s-OFDM 64QAM	1	1			7.95			9
100	DFT-s-OFDM 256QAM	1	1			6.01			7
100	CP-OFDM QPSK	1	1			7.88			10
100	CP-OFDM 16QAM	1	1			8.79			9
100	CP-OFDM 64QAM	1	1			7.13			9
100	CP-OFDM 256QAM	1	1			4.40			6
Channel				649668	649834	650000	650166	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	8.69	8.75	8.83	8.85	8.88	10
Channel				649334	649666	650000	650334	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	8.72	8.91	8.80	8.73	8.81	10
Channel				649000	649500	650000	650500	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	8.72	8.93	8.80	8.82	8.81	10
Channel				648668	649334	650000	650666	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	8.81	8.64	8.67	8.71	8.82	10
Channel				648334	649166	650000	650834	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	8.90	8.86	8.90	8.87	8.90	10
Channel				648000	649000	650000	651000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	8.90	8.85	8.87	8.85	8.84	10
Channel				647668	648834	650000	651166	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	8.89	8.84	8.88	8.85	8.84	10
Channel				647334	648666	650000	651334	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	8.80	8.92	8.93	8.87	8.93	10
Channel				647168	648584	650000	651416	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	8.85	8.93	8.88	8.86	8.87	10
Channel				647000	648500	650000	651500	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	8.79	8.86	8.83	8.88	8.80	10

Reduced Power Level 6

Band 2 (1900MHz Band) (dBm)-ANT 5							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1880	1880	1900	
20	QPSK	1	0	14.75	14.77	14.70	15.5
20	QPSK	1	49	14.74	14.76	14.69	
20	QPSK	1	99	14.66	14.73	14.70	
20	QPSK	50	0	13.80	13.92	13.81	14.5
20	QPSK	50	24	13.84	13.78	13.76	
20	QPSK	50	50	13.81	13.84	13.77	
20	QPSK	100	0	13.84	13.85	13.74	14.5
20	16QAM	1	0	14.11	14.02	13.85	
20	16QAM	1	49	13.99	14.08	14.03	
20	16QAM	1	99	14.09	13.86	14.13	13.5
20	16QAM	50	0	12.92	12.87	12.91	
20	16QAM	50	24	13.01	12.86	12.85	
20	16QAM	50	50	12.88	12.91	12.93	13.5
20	16QAM	100	0	12.86	12.88	12.84	
20	64QAM	1	0	12.96	13.10	13.05	
20	64QAM	1	49	12.99	13.03	12.93	13.5
20	64QAM	1	99	13.09	12.97	12.79	
20	64QAM	50	0	12.94	12.83	12.83	
20	64QAM	50	24	12.77	12.78	12.85	13.5
20	64QAM	50	50	12.90	12.83	12.88	
20	64QAM	100	0	12.82	12.85	12.84	
20	256QAM	1	0	8.97	9.12	9.07	9.5
20	256QAM	1	49	9.00	9.05	8.95	
20	256QAM	1	99	9.10	8.99	8.81	
20	256QAM	50	0	8.95	8.85	8.85	9.5
20	256QAM	50	24	8.78	8.80	8.87	
20	256QAM	50	50	8.91	8.85	8.90	
20	256QAM	100	0	8.83	8.87	8.86	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	14.67	14.72	14.63	15.5
15	QPSK	1	37	14.71	14.72	14.66	
15	QPSK	1	74	14.57	14.72	14.69	
15	QPSK	36	0	13.76	13.82	13.71	14.5
15	QPSK	36	20	13.90	13.71	13.72	
15	QPSK	36	39	13.80	13.77	13.68	
15	QPSK	75	0	13.79	13.77	13.64	14.5
15	16QAM	1	0	14.07	13.96	13.79	
15	16QAM	1	37	14.06	14.18	13.98	
15	16QAM	1	74	14.11	14.26	14.12	13.5
15	16QAM	36	0	12.91	12.78	12.85	
15	16QAM	36	20	12.97	12.77	12.77	
15	16QAM	36	39	12.84	12.89	12.91	13.5
15	16QAM	75	0	12.76	12.84	12.83	
15	64QAM	1	0	12.93	13.09	13.00	
15	64QAM	1	37	12.93	12.93	12.88	13.5
15	64QAM	1	74	13.07	12.92	12.73	
15	64QAM	36	0	12.91	12.73	12.76	
15	64QAM	36	20	12.68	12.75	12.78	13.5
15	64QAM	36	39	12.86	12.81	12.80	
15	64QAM	75	0	12.76	12.82	12.83	
15	256QAM	1	0	8.96	9.04	8.99	9.5
15	256QAM	1	37	8.91	9.02	8.85	
15	256QAM	1	74	9.04	8.89	8.76	
15	256QAM	36	0	8.92	8.82	8.80	9.5
15	256QAM	36	20	8.71	8.75	8.85	
15	256QAM	36	39	8.81	8.75	8.83	
15	256QAM	75	0	8.73	8.81	8.79	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	14.74	14.75	14.68	15.5
10	QPSK	1	25	14.67	14.71	14.63	
10	QPSK	1	49	14.58	14.72	14.62	
10	QPSK	25	0	13.74	13.91	13.76	14.5
10	QPSK	25	12	13.82	13.69	13.75	
10	QPSK	25	25	13.72	13.82	13.70	
10	QPSK	50	0	13.75	13.81	13.68	14.5
10	16QAM	1	0	14.05	13.97	13.78	
10	16QAM	1	25	14.05	14.22	14.02	
10	16QAM	1	49	14.07	14.27	14.08	13.5
10	16QAM	25	0	12.84	12.83	12.86	
10	16QAM	25	12	12.93	12.79	12.81	
10	16QAM	25	25	12.87	12.82	12.89	13.5
10	16QAM	50	0	12.85	12.82	12.75	
10	64QAM	1	0	12.86	13.01	13.03	
10	64QAM	1	25	12.97	13.02	12.91	13.5
10	64QAM	1	49	13.04	12.90	12.69	
10	64QAM	25	0	12.93	12.73	12.74	
10	64QAM	25	12	12.69	12.75	12.79	13.5
10	64QAM	25	25	12.86	12.81	12.82	
10	64QAM	50	0	12.75	12.76	12.82	
10	256QAM	1	0	8.88	9.03	8.97	9.5
10	256QAM	1	25	8.98	9.01	8.88	
10	256QAM	1	49	9.07	8.96	8.76	
10	256QAM	25	0	8.91	8.83	8.79	9.5
10	256QAM	25	12	8.72	8.72	8.79	
10	256QAM	25	25	8.85	8.83	8.85	
10	256QAM	50	0	8.78	8.84	8.82	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	14.73	14.73	14.64	15.5
5	QPSK	1	12	14.64	14.66	14.68	
5	QPSK	1	24	14.65	14.71	14.61	
5	QPSK	12	0	13.71	13.87	13.75	

Band 2 (1900MHz Band) (dBm)-ANT 0							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1880	1880	1900	
20	QPSK	1	0	15.75	15.77	15.70	16.6
20	QPSK	1	49	15.74	15.76	15.69	
20	QPSK	1	99	15.66	15.73	15.70	
20	QPSK	50	0	14.80	14.92	14.81	15.6
20	QPSK	50	24	14.84	14.78	14.76	
20	QPSK	50	50	14.81	14.84	14.77	
20	QPSK	100	0	14.84	14.85	14.74	15.6
20	16QAM	1	0	15.11	15.02	14.85	
20	16QAM	1	49	14.99	15.08	15.03	
20	16QAM	1	99	15.09	14.86	15.13	14.6
20	16QAM	50	0	13.80	13.75	13.79	
20	16QAM	50	24	14.01	13.86	13.85	
20	16QAM	50	50	13.88	13.91	13.93	14.6
20	16QAM	100	0	13.86	13.88	13.84	
20	64QAM	1	0	13.96	14.10	14.05	
20	64QAM	1	49	13.99	14.03	13.93	14.6
20	64QAM	1	99	14.09	13.97	13.79	
20	64QAM	50	0	13.94	13.83	13.83	
20	64QAM	50	24	13.77	13.78	13.85	14.6
20	64QAM	50	50	13.90	13.83	13.88	
20	64QAM	100	0	13.82	13.85	13.84	
20	256QAM	1	0	9.97	10.12	10.07	10.6
20	256QAM	1	49	10.00	10.05	9.95	
20	256QAM	1	99	10.10	9.99	9.81	
20	256QAM	50	0	9.95	9.85	9.85	10.6
20	256QAM	50	24	9.78	9.80	9.87	
20	256QAM	50	50	9.91	9.85	9.90	
20	256QAM	100	0	9.83	9.87	9.86	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	15.79	15.84	15.75	16.6
15	QPSK	1	37	15.83	15.84	15.78	
15	QPSK	1	74	15.69	15.84	15.81	
15	QPSK	36	0	14.88	14.94	14.83	15.6
15	QPSK	36	20	15.02	14.83	14.84	
15	QPSK	36	39	14.82	14.89	14.80	
15	QPSK	75	0	14.91	14.89	14.76	15.6
15	16QAM	1	0	15.07	14.96	14.79	
15	16QAM	1	37	15.06	15.18	14.98	
15	16QAM	1	74	15.11	15.26	15.12	14.6
15	16QAM	36	0	13.91	13.78	13.85	
15	16QAM	36	20	13.97	13.77	13.77	
15	16QAM	36	39	13.84	13.89	13.91	14.6
15	16QAM	75	0	13.76	13.84	13.83	
15	64QAM	1	0	13.93	14.09	14.00	
15	64QAM	1	37	13.93	13.93	13.88	14.6
15	64QAM	1	74	14.07	13.92	13.73	
15	64QAM	36	0	13.91	13.73	13.76	
15	64QAM	36	20	13.68	13.75	13.78	14.6
15	64QAM	36	39	13.86	13.81	13.80	
15	64QAM	75	0	13.76	13.82	13.83	
15	256QAM	1	0	9.96	10.04	9.99	10.6
15	256QAM	1	37	9.91	10.02	9.85	
15	256QAM	1	74	10.04	9.89	9.76	
15	256QAM	36	0	9.92	9.82	9.80	10.6
15	256QAM	36	20	9.71	9.75	9.85	
15	256QAM	36	39	9.81	9.75	9.83	
15	256QAM	75	0	9.85	9.93	9.91	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	15.86	15.87	15.80	

5	QPSK	12	7	13.85	13.73	13.67	14.5
5	QPSK	12	13	13.78	13.78	13.67	
5	QPSK	25	0	13.82	13.81	13.66	
5	16QAM	1	0	13.77	13.76	13.57	14.5
5	16QAM	1	12	13.80	13.96	13.77	
5	16QAM	1	24	13.85	13.96	13.81	
5	16QAM	12	0	12.66	12.56	12.63	13.5
5	16QAM	12	7	12.67	12.57	12.53	
5	16QAM	12	13	12.59	12.59	12.65	
5	16QAM	25	0	12.53	12.55	12.51	13.5
5	64QAM	1	0	12.63	12.83	12.75	
5	64QAM	1	12	12.66	12.74	12.64	
5	64QAM	1	24	12.82	12.70	12.51	13.5
5	64QAM	12	0	12.92	12.82	12.80	
5	64QAM	12	7	12.74	12.71	12.79	
5	64QAM	12	13	12.86	12.74	12.87	9.5
5	64QAM	25	0	12.81	12.82	12.75	
5	256QAM	1	0	8.96	9.04	9.04	
5	256QAM	1	12	8.95	8.97	8.92	9.5
5	256QAM	1	24	9.00	8.90	8.77	
5	256QAM	12	0	8.94	8.82	8.82	
5	256QAM	12	7	8.70	8.70	8.82	9.5
5	256QAM	12	13	8.84	8.78	8.81	
5	256QAM	25	0	8.73	8.84	8.79	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	14.64	14.74	14.60	15.5
3	QPSK	1	8	14.68	14.73	14.64	
3	QPSK	1	14	14.60	14.63	14.61	
3	QPSK	8	0	13.73	13.85	13.77	14.5
3	QPSK	8	4	13.81	13.75	13.74	
3	QPSK	8	7	13.77	13.76	13.74	
3	QPSK	15	0	13.74	13.76	13.68	14.5
3	16QAM	1	0	13.77	13.77	13.54	
3	16QAM	1	8	13.81	13.95	13.77	
3	16QAM	1	14	13.87	13.98	13.86	13.5
3	16QAM	8	0	12.61	12.54	12.60	
3	16QAM	8	4	12.74	12.54	12.55	
3	16QAM	8	7	12.54	12.60	12.66	13.5
3	16QAM	15	0	12.53	12.56	12.57	
3	64QAM	1	0	12.71	12.79	12.79	
3	64QAM	1	8	12.71	12.73	12.60	13.5
3	64QAM	1	14	12.83	12.68	12.45	
3	64QAM	8	0	12.88	12.73	12.73	
3	64QAM	8	4	12.72	12.71	12.75	22.3
3	64QAM	8	7	12.81	12.75	12.84	
3	64QAM	15	0	12.75	12.77	12.81	
3	256QAM	1	0	8.90	9.02	9.06	18.3
3	256QAM	1	8	8.97	9.01	8.92	
3	256QAM	1	14	9.05	8.95	8.76	
3	256QAM	8	0	8.89	8.80	8.76	18.3
3	256QAM	8	4	8.69	8.77	8.78	
3	256QAM	8	7	8.89	8.84	8.81	
3	256QAM	15	0	8.73	8.82	8.77	Tune-up limit (dBm)
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	15.5
1.4	QPSK	1	0	14.64	14.72	14.61	
1.4	QPSK	1	3	14.64	14.67	14.60	
1.4	QPSK	1	5	14.60	14.71	14.65	
1.4	QPSK	3	0	14.74	14.69	14.74	
1.4	QPSK	3	1	14.73	14.73	14.71	
1.4	QPSK	3	3	14.71	14.75	14.75	14.5
1.4	QPSK	6	0	13.75	13.75	13.64	
1.4	16QAM	1	0	13.78	13.75	13.52	
1.4	16QAM	1	3	13.87	13.95	13.78	14.5
1.4	16QAM	1	5	13.82	13.98	13.88	
1.4	16QAM	3	0	13.60	13.60	13.63	
1.4	16QAM	3	1	13.75	13.54	13.51	13.5
1.4	16QAM	3	3	13.57	13.64	13.59	
1.4	16QAM	6	0	12.55	12.54	12.51	
1.4	64QAM	1	0	12.62	12.77	12.80	13.5
1.4	64QAM	1	3	12.72	12.74	12.66	
1.4	64QAM	1	5	12.78	12.72	12.50	
1.4	64QAM	3	0	12.62	12.55	12.58	13.5
1.4	64QAM	3	1	12.49	12.53	12.59	
1.4	64QAM	3	3	12.59	12.52	12.59	
1.4	64QAM	6	0	12.73	12.75	12.76	13.5
1.4	256QAM	1	0	8.94	9.04	9.02	
1.4	256QAM	1	3	8.98	9.03	8.88	
1.4	256QAM	1	5	9.03	8.97	8.73	9.5
1.4	256QAM	3	0	8.88	8.84	8.80	
1.4	256QAM	3	1	8.70	8.71	8.80	
1.4	256QAM	3	3	8.84	8.81	8.85	9.5
1.4	256QAM	6	0	8.77	8.86	8.84	

5	QPSK	12	7	14.85	14.73	14.67	15.6
5	QPSK	12	13	14.78	14.78	14.67	
5	QPSK	25	0	14.82	14.81	14.66	
5	16QAM	1	0	14.77	14.76	14.57	15.6
5	16QAM	1	12	14.80	14.96	14.77	
5	16QAM	1	24	14.85	14.96	14.81	
5	16QAM	12	0	13.66	13.56	13.63	14.6
5	16QAM	12	7	13.67	13.57	13.53	
5	16QAM	12	13	13.59	13.59	13.65	
5	16QAM	25	0	13.53	13.55	13.51	14.6
5	64QAM	1	0	13.63	13.83	13.75	
5	64QAM	1	12	13.66	13.74	13.64	
5	64QAM	1	24	13.82	13.70	13.51	14.6
5	64QAM	12	0	13.92	13.82	13.80	
5	64QAM	12	7	13.74	13.71	13.79	
5	64QAM	12	13	13.86	13.74	13.87	10.6
5	64QAM	25	0	13.81	13.82	13.75	
5	256QAM	1	0	9.96	10.04	10.04	
5	256QAM	1	12	9.95	9.97	9.92	10.6
5	256QAM	1	24	10.00	9.90	9.77	
5	256QAM	12	0	9.94	9.82	9.82	
5	256QAM	12	7	9.70	9.70	9.82	10.6
5	256QAM	12	13	9.84	9.78	9.81	
5	256QAM	25	0	9.73	9.84	9.79	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	15.76	15.86	15.72	16.6
3	QPSK	1	8	15.80	15.85	15.76	
3	QPSK	1	14	15.60	15.63	15.61	
3	QPSK	8	0	14.73	14.85	14.77	15.6
3	QPSK	8	4	14.81	14.75	14.74	
3	QPSK	8	7	14.77	14.76	14.74	
3	QPSK	15	0	14.74	14.76	14.68	15.6
3	16QAM	1	0	14.77	14.77	14.54	
3	16QAM	1	8	14.81	14.95	14.77	
3	16QAM	1	14	14.87	14.98	14.86	14.6
3	16QAM	8	0	13.61	13.54	13.60	
3	16QAM	8	4	13.74	13.54	13.55	
3	16QAM	8	7	13.54	13.60	13.66	14.6
3	16QAM	15	0	13.53	13.56	13.57	
3	64QAM	1	0	13.71	13.79	13.79	
3	64QAM	1	8	13.71	13.73	13.60	14.6
3	64QAM	1	14	13.83	13.68	13.45	
3	64QAM	8	0	13.88	13.73	13.73	
3	64QAM	8	4	13.72	13.71	13.75	22.3
3	64QAM	8	7	13.81	13.75	13.84	
3	64QAM	15	0	13.75	13.77	13.81	
3	256QAM	1	0	9.90	10.02	10.06	18.3
3	256QAM	1	8	9.97	10.01	9.92	
3	256QAM	1	14	10.05	9.95	9.76	
3	256QAM	8	0	9.89	9.80	9.76	18.3
3	256QAM	8	4	9.69	9.77	9.78	
3	256QAM	8	7	9.89	9.84	9.81	
3	256QAM	15	0	9.73	9.82	9.77	Tune-up limit (dBm)
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	16.6
1.4	QPSK	1	0	15.76	15.84	15.73	
1.4	QPSK	1	3	15.76	15.79	15.72	
1.4	QPSK	1	5	15.60	15.71	15.65	
1.4	QPSK	3	0	15.74	15.69	15.74	
1.4	QPSK	3	1	15.73	15.73	15.71	
1.4	QPSK	3	3	15.71	15.75	15.75	15.6
1.4	QPSK	6	0	14.75	14.75	14.64	
1.4	16QAM	1	0	14.78	14.75	14.52	
1.4	16QAM	1	3	14.87	14.95	14.78	15.6
1.4	16QAM	1	5	14.82	14.98	14.88	
1.4	16QAM	3	0	14.60	14.60	14.63	
1.4	16QAM	3	1	14.75	14.54	14.51	14.6
1.4	16QAM	3	3	14.57	14.64	14.59	
1.4	16QAM	6	0	13.55	13.54	13.51	
1.4	64QAM	1	0	13.62	13.77	13.80	14.6
1.4	64QAM	1	3	13.72	13.74	13.66	
1.4	64QAM	1	5	13.78	13.72	13.50	
1.4	64QAM	3	0	13.62	13.55	13.58	14.6
1.4	64QAM	3	1	13.49	13.53	13.59	
1.4	64QAM	3	3	13.59	13.52	13.59	
1.4	64QAM	6	0	13.73	13.75	13.76	14.6
1.4	256QAM	1	0	9.94	10.04	10.02	
1.4	256QAM	1	3	9.98	10.03	9.88	
1.4	256QAM	1	5	10.03	9.97	9.73	10.6
1.4	256QAM	3	0	9.88	9.84	9.80	
1.4	256QAM	3	1	9.70	9.71	9.80	

Band 2 (1900MHz Band) (dBm)-ANT 6								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	13.79	13.81	13.74	14.5	
20	QPSK	1	49	13.78	13.80	13.73		
20	QPSK	1	99	13.70	13.77	13.74		
20	QPSK	50	0	12.84	12.96	12.85	13.5	
20	QPSK	50	24	12.88	12.82	12.80		
20	QPSK	50	50	12.85	12.88	12.81		
20	QPSK	100	0	12.88	12.89	12.78	13.5	
20	16QAM	1	0	13.15	13.06	12.89		
20	16QAM	1	49	13.03	13.12	13.07		
20	16QAM	1	99	13.13	12.90	13.17	12.5	
20	16QAM	50	0	11.84	11.79	11.83		
20	16QAM	50	24	12.05	11.90	11.89		
20	16QAM	50	50	11.92	11.95	11.97	12.5	
20	16QAM	100	0	11.90	11.92	11.88		
20	64QAM	1	0	12.00	12.14	12.09		
20	64QAM	1	49	12.03	12.07	11.97	12.5	
20	64QAM	1	99	12.13	12.01	11.83		
20	64QAM	50	0	11.98	11.87	11.87		
20	64QAM	50	24	11.81	11.82	11.89	12.5	
20	64QAM	50	50	11.94	11.87	11.92		
20	64QAM	100	0	11.86	11.89	11.88		
20	256QAM	1	0	8.01	8.16	8.11	8.5	
20	256QAM	1	49	8.04	8.09	7.99		
20	256QAM	1	99	8.14	8.03	7.85		
20	256QAM	50	0	7.99	7.89	7.89	8.5	
20	256QAM	50	24	7.82	7.84	7.91		
20	256QAM	50	50	7.95	7.89	7.94		
20	256QAM	100	0	7.87	7.91	7.90		
Channel				18675	18900	19125	Tune-up limit (dBm)	
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	13.53	13.58	13.49	14.5	
15	QPSK	1	37	13.57	13.58	13.52		
15	QPSK	1	74	13.43	13.58	13.55		
15	QPSK	36	0	12.62	12.68	12.57	13.5	
15	QPSK	36	20	12.76	12.57	12.58		
15	QPSK	36	39	12.66	12.63	12.54		
15	QPSK	75	0	12.65	12.63	12.50	13.5	
15	16QAM	1	0	12.81	12.70	12.53		
15	16QAM	1	37	12.80	12.92	12.72		
15	16QAM	1	74	12.85	13.00	12.86	12.5	
15	16QAM	36	0	11.65	11.52	11.59		
15	16QAM	36	20	11.71	11.51	11.51		
15	16QAM	36	39	11.58	11.63	11.65	12.5	
15	16QAM	75	0	11.50	11.58	11.57		
15	64QAM	1	0	11.67	11.83	11.74		
15	64QAM	1	37	11.67	11.67	11.62	12.5	
15	64QAM	1	74	11.81	11.66	11.47		
15	64QAM	36	0	11.65	11.47	11.50	12.5	
15	64QAM	36	20	11.42	11.49	11.52		
15	64QAM	36	39	11.60	11.55	11.54		
15	64QAM	75	0	11.50	11.56	11.57	8.5	
15	256QAM	1	0	7.70	7.78	7.73		
15	256QAM	1	37	7.65	7.76	7.59		
15	256QAM	1	74	7.78	7.63	7.50	8.5	
15	256QAM	36	0	7.66	7.56	7.54		
15	256QAM	36	20	7.45	7.49	7.59		
15	256QAM	36	39	7.55	7.49	7.57	8.5	
15	256QAM	75	0	7.59	7.67	7.65		
Channel				18650	18900	19150	Tune-up limit (dBm)	
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	13.60	13.61	13.54	14.5	
10	QPSK	1	25	13.53	13.57	13.49		
10	QPSK	1	49	13.44	13.58	13.48		
10	QPSK	25	0	12.60	12.77	12.62	13.5	
10	QPSK	25	12	12.56	12.43	12.49		
10	QPSK	25	25	12.46	12.56	12.44		
10	QPSK	50	0	12.49	12.55	12.42	13.5	
10	16QAM	1	0	12.79	12.71	12.52		
10	16QAM	1	25	12.79	12.96	12.76		
10	16QAM	1	49	12.81	13.01	12.82	12.5	
10	16QAM	25	0	11.58	11.57	11.60		
10	16QAM	25	12	11.67	11.53	11.55		
10	16QAM	25	25	11.61	11.56	11.63	12.5	
10	16QAM	50	0	11.59	11.56	11.49		
10	64QAM	1	0	11.60	11.75	11.77		
10	64QAM	1	25	11.71	11.76	11.65	12.5	
10	64QAM	1	49	11.78	11.64	11.43		
10	64QAM	25	0	11.67	11.47	11.48		
10	64QAM	25	12	11.43	11.49	11.53	12.5	
10	64QAM	25	25	11.60	11.55	11.56		
10	64QAM	50	0	11.49	11.50	11.56		
10	256QAM	1	0	7.62	7.77	7.71	8.5	
10	256QAM	1	25	7.72	7.75	7.62		
10	256QAM	1	49	7.81	7.70	7.50		
10	256QAM	25	0	7.65	7.57	7.53	8.5	
10	256QAM	25	12	7.46	7.46	7.53		
10	256QAM	25	25	7.59	7.57	7.59		
10	256QAM	50	0	7.52	7.58	7.56		
Channel				18625	18900	19175	Tune-up limit (dBm)	
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	13.59	13.59	13.50	14.5	
5	QPSK	1	12	13.50	13.52	13.54		
5	QPSK	1	24	13.51	13.57	13.47		
5	QPSK	12	0	12.57	12.73	12.61		

Band 2 (1900MHz Band) (dBm)-ANT 4								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	12.82	12.84	12.77	13.6	
20	QPSK	1	49	12.81	12.83	12.76		
20	QPSK	1	99	12.73	12.80	12.77		
20	QPSK	50	0	11.87	11.99	11.88	12.6	
20	QPSK	50	24	11.91	11.85	11.83		
20	QPSK	50	50	11.88	11.91	11.84		
20	QPSK	100	0	11.91	11.92	11.81	12.6	
20	16QAM	1	0	12.18	12.09	11.92		
20	16QAM	1	49	12.06	12.15	12.10		
20	16QAM	1	99	12.16	11.93	12.20	11.6	
20	16QAM	50	0	10.87	10.82	10.86		
20	16QAM	50	24	11.08	10.93	10.92		
20	16QAM	50	50	10.95	10.98	11.00	11.6	
20	16QAM	100	0	10.93	10.95	10.91		
20	64QAM	1	0	11.03	11.17	11.12		
20	64QAM	1	49	11.06	11.10	11.00	11.6	
20	64QAM	1	99	11.16	11.04	10.86		
20	64QAM	50	0	11.01	10.90	10.90		
20	64QAM	50	24	10.84	10.85	10.92	11.6	
20	64QAM	50	50	10.97	10.90	10.95		
20	64QAM	100	0	10.89	10.92	10.91		
20	256QAM	1	0	7.04	7.19	7.14	7.6	
20	256QAM	1	49	7.07	7.12	7.02		
20	256QAM	1	99	7.17	7.06	6.88		
20	256QAM	50	0	7.02	6.92	6.92	7.6	
20	256QAM	50	24	6.85	6.87	6.94		
20	256QAM	50	50	6.98	6.92	6.97		
20	256QAM	100	0	6.90	6.94	6.93		
Channel				18675	18900	19125	Tune-up limit (dBm)	
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	12.56	12.61	12.52	13.6	
15	QPSK	1	37	12.60	12.61	12.55		
15	QPSK	1	74	12.46	12.61	12.58		
15	QPSK	36	0	11.65	11.71	11.60	12.6	
15	QPSK	36	20	11.79	11.60	11.61		
15	QPSK	36	39	11.69	11.66	11.57		
15	QPSK	75	0	11.68	11.66	11.53	12.6	
15	16QAM	1	0	11.84	11.73	11.56		
15	16QAM	1	37	11.83	11.95	11.75		
15	16QAM	1	74	11.88	12.03	11.89	11.6	
15	16QAM	36	0	10.68	10.55	10.62		
15	16QAM	36	20	10.74	10.54	10.54		
15	16QAM	36	39	10.61	10.66	10.68	11.6	
15	16QAM	75	0	10.53	10.61	10.60		
15	64QAM	1	0	10.70	10.86	10.77		
15	64QAM	1	37	10.70	10.70	10.65	11.6	
15	64QAM	1	74	10.84	10.69	10.50		
15	64QAM	36	0	10.68	10.50	10.53		
15	64QAM	36	20	10.45	10.52	10.55	11.6	
15	64QAM	36	39	10.63	10.58	10.57		
15	64QAM	75	0	10.53	10.59	10.60		
15	256QAM	1	0	6.73	6.81	6.76	7.6	
15	256QAM	1	37	6.68	6.79	6.62		
15	256QAM	1	74	6.81	6.66	6.53		
15	256QAM	36	0	6.69	6.59	6.57	7.6	
15	256QAM	36	20	6.48	6.52	6.62		
15	256QAM	36	39	6.58	6.52	6.60		
15	256QAM	75	0	6.62	6.70	6.68		
Channel				18650	18900	19150	Tune-up limit (dBm)	
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	12.63	12.64	12.57	13.6	
10	QPSK	1	25	12.56	12.60	12.52		
10	QPSK	1	49	12.47	12.61	12.51		
10	QPSK	25	0	11.63	11.80	11.65	12.6	
10	QPSK	25	12	11.59	11.46	11.52		
10	QPSK	25	25	11.49	11.59	11.47		
10	QPSK	50	0	11.52	11.58	11.45	12.6	
10	16QAM	1	0	11.82	11.74	11.55		
10	16QAM	1	25	11.82	11.99	11.79		
10	16QAM	1	49	11.84	12.04	11.85	11.6	
10	16QAM	25	0	10.61	10.60	10.63		
10	16QAM	25	12	10.70	10.56	10.58		
10	16QAM	25	25	10.64	10.59	10.66	11.6	
10	16QAM	50	0	10.62	10.59	10.52		
10	64QAM	1	0	10.63	10.78	10.80		
10	64QAM	1	25	10.74	10.79	10.68	11.6	
10	64QAM	1	49	10.81	10.67	10.46		
10	64QAM	25	0	10.70	10.50	10.51		
10	64QAM	25	12	10.46	10.52	10.56	11.6	
10	64QAM	25	25	10.63	10.58	10.59		
10	64QAM	50	0	10.52	10.53	10.59		
10	256QAM	1	0	6.65	6.80	6.74	7.6	
10	256QAM	1	25	6.75	6.78	6.65		
10	256QAM	1	49	6.84	6.73	6.53		
10	256QAM	25	0	6.68	6.60	6.56	7.6	
10	256QAM	25	12	6.49	6.49	6.56		
10	256QAM	25	25	6.62	6.60	6.62		
10	256QAM	50	0	6.55	6.61	6.59		
Channel				18625	18900	19175	Tune-up limit (dBm)	
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	12.62	12.62	12.53	13.6	
5	QPSK	1	12	12.53	12.55	12.57		
5	QPSK	1	24	12.54	12.60	12.50		
5	QPSK	12	0	11.60	11.76	11.64		

5	QPSK	12	7	12.59	12.47	12.41	13.5
5	QPSK	12	13	12.52	12.52	12.41	
5	QPSK	25	0	12.56	12.55	12.40	
5	16QAM	1	0	12.51	12.50	12.31	13.5
5	16QAM	1	12	12.54	12.70	12.51	
5	16QAM	1	24	12.59	12.70	12.55	
5	16QAM	12	0	11.40	11.30	11.37	12.5
5	16QAM	12	7	11.41	11.31	11.27	
5	16QAM	12	13	11.33	11.33	11.39	
5	16QAM	25	0	11.27	11.29	11.25	12.5
5	64QAM	1	0	11.37	11.57	11.49	
5	64QAM	1	12	11.40	11.48	11.38	
5	64QAM	1	24	11.56	11.44	11.25	12.5
5	64QAM	12	0	11.66	11.56	11.54	
5	64QAM	12	7	11.48	11.45	11.53	
5	64QAM	12	13	11.60	11.48	11.61	8.5
5	64QAM	25	0	11.55	11.56	11.49	
5	256QAM	1	0	7.70	7.78	7.78	
5	256QAM	1	12	7.69	7.71	7.66	8.5
5	256QAM	1	24	7.74	7.64	7.51	
5	256QAM	12	0	7.68	7.56	7.56	
5	256QAM	12	7	7.44	7.44	7.56	8.5
5	256QAM	12	13	7.58	7.52	7.55	
5	256QAM	25	0	7.47	7.58	7.53	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	13.50	13.60	13.46	14.5
3	QPSK	1	8	13.54	13.59	13.50	
3	QPSK	1	14	13.34	13.37	13.35	
3	QPSK	8	0	12.47	12.59	12.51	13.5
3	QPSK	8	4	12.55	12.49	12.48	
3	QPSK	8	7	12.51	12.50	12.48	
3	QPSK	15	0	12.48	12.50	12.42	13.5
3	16QAM	1	0	12.51	12.51	12.28	
3	16QAM	1	8	12.55	12.69	12.51	
3	16QAM	1	14	12.61	12.72	12.60	12.5
3	16QAM	8	0	11.35	11.28	11.34	
3	16QAM	8	4	11.48	11.28	11.29	
3	16QAM	8	7	11.28	11.34	11.40	12.5
3	16QAM	15	0	11.27	11.30	11.31	
3	64QAM	1	0	11.45	11.53	11.53	
3	64QAM	1	8	11.45	11.47	11.34	22.3
3	64QAM	1	14	11.57	11.42	11.19	
3	64QAM	8	0	11.62	11.47	11.47	
3	64QAM	8	4	11.46	11.45	11.49	18.3
3	64QAM	8	7	11.55	11.49	11.58	
3	64QAM	15	0	11.49	11.51	11.55	
3	256QAM	1	0	7.64	7.76	7.80	18.3
3	256QAM	1	8	7.71	7.75	7.66	
3	256QAM	1	14	7.79	7.69	7.50	
3	256QAM	8	0	7.63	7.54	7.50	18.3
3	256QAM	8	4	7.43	7.51	7.52	
3	256QAM	8	7	7.63	7.58	7.55	
3	256QAM	15	0	7.47	7.56	7.51	Tune-up limit (dBm)
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	14.5
1.4	QPSK	1	0	13.50	13.58	13.47	
1.4	QPSK	1	3	13.50	13.53	13.46	14.5
1.4	QPSK	1	5	13.34	13.45	13.39	
1.4	QPSK	3	0	13.48	13.43	13.48	
1.4	QPSK	3	1	13.47	13.47	13.45	13.5
1.4	QPSK	3	3	13.45	13.49	13.49	
1.4	QPSK	6	0	12.49	12.49	12.38	
1.4	16QAM	1	0	12.52	12.49	12.26	13.5
1.4	16QAM	1	3	12.61	12.69	12.52	
1.4	16QAM	1	5	12.56	12.72	12.62	
1.4	16QAM	3	0	12.34	12.34	12.37	12.5
1.4	16QAM	3	1	12.49	12.28	12.25	
1.4	16QAM	3	3	12.31	12.38	12.33	
1.4	16QAM	6	0	11.29	11.28	11.25	12.5
1.4	64QAM	1	0	11.36	11.51	11.54	
1.4	64QAM	1	3	11.46	11.48	11.40	
1.4	64QAM	1	5	11.52	11.46	11.24	12.5
1.4	64QAM	3	0	11.36	11.29	11.32	
1.4	64QAM	3	1	11.23	11.27	11.33	
1.4	64QAM	3	3	11.33	11.26	11.33	12.5
1.4	64QAM	6	0	11.47	11.49	11.50	
1.4	256QAM	1	0	7.68	7.78	7.76	
1.4	256QAM	1	3	7.72	7.77	7.62	8.5
1.4	256QAM	1	5	7.77	7.71	7.47	
1.4	256QAM	3	0	7.62	7.58	7.54	
1.4	256QAM	3	1	7.44	7.45	7.54	8.5
1.4	256QAM	3	3	7.58	7.55	7.59	
1.4	256QAM	6	0	7.51	7.60	7.58	

5	QPSK	12	7	11.62	11.50	11.44	12.6
5	QPSK	12	13	11.55	11.55	11.44	
5	QPSK	25	0	11.59	11.58	11.43	
5	16QAM	1	0	11.54	11.53	11.34	12.6
5	16QAM	1	12	11.57	11.73	11.54	
5	16QAM	1	24	11.62	11.73	11.58	
5	16QAM	12	0	10.43	10.33	10.40	11.6
5	16QAM	12	7	10.44	10.34	10.30	
5	16QAM	12	13	10.36	10.36	10.42	
5	16QAM	25	0	10.30	10.32	10.28	11.6
5	64QAM	1	0	10.40	10.60	10.52	
5	64QAM	1	12	10.43	10.51	10.41	
5	64QAM	1	24	10.59	10.47	10.28	11.6
5	64QAM	12	0	10.69	10.59	10.57	
5	64QAM	12	7	10.51	10.48	10.56	
5	64QAM	12	13	10.63	10.51	10.64	11.6
5	64QAM	25	0	10.58	10.59	10.52	
5	256QAM	1	0	6.73	6.81	6.81	
5	256QAM	1	12	6.72	6.74	6.69	7.6
5	256QAM	1	24	6.77	6.67	6.54	
5	256QAM	12	0	6.71	6.59	6.59	
5	256QAM	12	7	6.47	6.47	6.59	7.6
5	256QAM	12	13	6.61	6.55	6.58	
5	256QAM	25	0	6.50	6.61	6.56	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	12.53	12.63	12.49	13.6
3	QPSK	1	8	12.57	12.62	12.53	
3	QPSK	1	14	12.37	12.40	12.38	
3	QPSK	8	0	11.50	11.62	11.54	12.6
3	QPSK	8	4	11.58	11.52	11.51	
3	QPSK	8	7	11.54	11.53	11.51	
3	QPSK	15	0	11.51	11.53	11.45	12.6
3	16QAM	1	0	11.54	11.54	11.31	
3	16QAM	1	8	11.58	11.72	11.54	
3	16QAM	1	14	11.64	11.75	11.63	11.6
3	16QAM	8	0	10.38	10.31	10.37	
3	16QAM	8	4	10.51	10.31	10.32	
3	16QAM	8	7	10.31	10.37	10.43	11.6
3	16QAM	15	0	10.30	10.33	10.34	
3	64QAM	1	0	10.48	10.56	10.56	
3	64QAM	1	8	10.48	10.50	10.37	11.6
3	64QAM	1	14	10.60	10.45	10.22	
3	64QAM	8	0	10.65	10.50	10.50	
3	64QAM	8	4	10.49	10.48	10.52	22.3
3	64QAM	8	7	10.58	10.52	10.61	
3	64QAM	15	0	10.52	10.54	10.58	
3	256QAM	1	0	6.67	6.79	6.83	18.3
3	256QAM	1	8	6.74	6.78	6.69	
3	256QAM	1	14	6.82	6.72	6.53	
3	256QAM	8	0	6.66	6.57	6.53	18.3
3	256QAM	8	4	6.46	6.54	6.55	
3	256QAM	8	7	6.66	6.61	6.58	
3	256QAM	15	0	6.50	6.59	6.54	Tune-up limit (dBm)
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	13.6
1.4	QPSK	1	0	12.53	12.61	12.50	
1.4	QPSK	1	3	12.53	12.56	12.49	13.6
1.4	QPSK	1	5	12.37	12.48	12.42	
1.4	QPSK	3	0	12.51	12.46	12.51	
1.4	QPSK	3	1	12.50	12.50	12.48	12.6
1.4	QPSK	3	3	12.48	12.52	12.52	
1.4	QPSK	6	0	11.52	11.52	11.41	
1.4	16QAM	1	0	11.55	11.52	11.29	12.6
1.4	16QAM	1	3	11.64	11.72	11.55	
1.4	16QAM	1	5	11.59	11.75	11.65	
1.4	16QAM	3	0	11.37	11.37	11.40	11.6
1.4	16QAM	3	1	11.52	11.31	11.28	
1.4	16QAM	3	3	11.34	11.41	11.36	
1.4	16QAM	6	0	10.32	10.31	10.28	11.6
1.4	64QAM	1	0	10.39	10.54	10.57	
1.4	64QAM	1	3	10.49	10.51	10.43	
1.4	64QAM	1	5	10.55	10.49	10.27	11.6
1.4	64QAM	3	0	10.39	10.32	10.35	
1.4	64QAM	3	1	10.26	10.30	10.36	
1.4	64QAM	3	3	10.36	10.29	10.36	11.6
1.4	64QAM	6	0	10.50	10.52	10.53	
1.4	256QAM	1	0	6.71	6.81	6.79	
1.4	256QAM	1	3	6.75	6.80	6.65	7.6
1.4	256QAM	1	5	6.80	6.74	6.50	
1.4	256QAM	3	0	6.65	6.61	6.57	
1.4	256QAM	3	1	6.47	6.48	6.57	7.6
1.4	256QAM	3	3	6.61	6.58	6.62	
1.4	256QAM	6	0	6.54	6.63	6.61	

Band 4 (AWS Band) (dBm)-ANT 5								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	15.24	15.28	15.27	16	
20	QPSK	1	49	15.18	15.19	15.20		
20	QPSK	1	99	15.10	15.12	15.15		
20	QPSK	50	0	14.29	14.35	14.22	15	
20	QPSK	50	24	14.27	14.30	14.31		
20	QPSK	50	50	14.24	14.27	14.33		
20	QPSK	100	0	14.21	14.30	14.25	15	
20	16QAM	1	0	13.94	14.19	14.25		
20	16QAM	1	49	14.19	14.25	14.10		
20	16QAM	1	99	14.26	14.25	14.36	14	
20	16QAM	50	0	13.32	13.28	13.33		
20	16QAM	50	24	13.35	13.24	13.28		
20	16QAM	50	50	13.40	13.26	13.27	14	
20	16QAM	100	0	13.32	13.31	13.29		
20	64QAM	1	0	13.44	13.38	13.42		
20	64QAM	1	49	13.24	13.26	13.42	14	
20	64QAM	1	99	13.34	13.35	13.46		
20	64QAM	50	0	13.26	13.23	13.24		
20	64QAM	50	24	13.25	13.27	13.40	14	
20	64QAM	50	50	13.29	13.26	13.44		
20	64QAM	100	0	13.27	13.24	13.35		
20	256QAM	1	0	9.47	9.41	9.45	10	
20	256QAM	1	49	9.27	9.29	9.45		
20	256QAM	1	99	9.37	9.38	9.49		
20	256QAM	50	0	9.29	9.26	9.27	10	
20	256QAM	50	24	9.28	9.30	9.43		
20	256QAM	50	50	9.32	9.29	9.47		
20	256QAM	100	0	9.30	9.27	9.38		
Channel				20025	20175	20325	Tune-up limit (dBm)	
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	15.15	15.16	15.13	16	
15	QPSK	1	37	15.08	15.04	15.13		
15	QPSK	1	74	14.99	15.02	15.06		
15	QPSK	36	0	14.15	14.24	14.15	15	
15	QPSK	36	20	14.19	14.19	14.22		
15	QPSK	36	39	14.13	14.13	14.21		
15	QPSK	75	0	14.08	14.21	14.15	15	
15	16QAM	1	0	14.28	14.47	14.10		
15	16QAM	1	37	14.56	14.51	14.51		
15	16QAM	1	74	14.18	14.19	14.25	14	
15	16QAM	36	0	13.19	13.22	13.25		
15	16QAM	36	20	13.23	13.18	13.22		
15	16QAM	36	39	13.28	13.12	13.21	14	
15	16QAM	75	0	13.24	13.25	13.22		
15	64QAM	1	0	13.32	13.31	13.27		
15	64QAM	1	37	13.29	13.32	13.31	14	
15	64QAM	1	74	13.19	13.25	13.40		
15	64QAM	36	0	13.20	13.15	13.17	14	
15	64QAM	36	20	13.15	13.12	13.28		
15	64QAM	36	39	13.14	13.17	13.33		
15	64QAM	75	0	13.17	13.10	13.28	10	
15	256QAM	1	0	9.40	9.26	9.32		
15	256QAM	1	37	9.17	9.15	9.39		
15	256QAM	1	74	9.31	9.27	9.35	10	
15	256QAM	36	0	9.22	9.13	9.13		
15	256QAM	36	20	9.15	9.21	9.37		
15	256QAM	36	39	9.23	9.16	9.32	10	
15	256QAM	75	0	9.16	9.21	9.31		
Channel				20000	20175	20350	Tune-up limit (dBm)	
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	15.12	15.21	15.16	16	
10	QPSK	1	25	15.06	15.08	15.08		
10	QPSK	1	49	15.01	14.98	15.01		
10	QPSK	25	0	14.16	14.27	14.09	15	
10	QPSK	25	12	14.14	14.22	14.23		
10	QPSK	25	25	14.13	14.19	14.26		
10	QPSK	50	0	14.08	14.16	14.18	15	
10	16QAM	1	0	14.29	14.52	14.19		
10	16QAM	1	25	14.50	14.58	14.46		
10	16QAM	1	49	14.34	14.18	14.26	14	
10	16QAM	25	0	13.23	13.16	13.24		
10	16QAM	25	12	13.29	13.09	13.17		
10	16QAM	25	25	13.30	13.19	13.16	14	
10	16QAM	50	0	13.26	13.19	13.20		
10	64QAM	1	0	13.29	13.25	13.33		
10	64QAM	1	25	13.18	13.19	13.36	14	
10	64QAM	1	49	13.24	13.21	13.36		
10	64QAM	25	0	13.18	13.15	13.17		
10	64QAM	25	12	13.17	13.15	13.32	14	
10	64QAM	25	25	13.18	13.14	13.29		
10	64QAM	50	0	13.12	13.11	13.26		
10	256QAM	1	0	9.40	9.35	9.30	10	
10	256QAM	1	25	9.19	9.19	9.34		
10	256QAM	1	49	9.24	9.32	9.35		
10	256QAM	25	0	9.19	9.17	9.14	10	
10	256QAM	25	12	9.22	9.20	9.29		
10	256QAM	25	25	9.21	9.20	9.34		
10	256QAM	50	0	9.22	9.20	9.23		
Channel				19975	20175	20375	Tune-up limit (dBm)	
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	15.11	15.17	15.14	16	
5	QPSK	1	12	15.09	15.05	15.06		
5	QPSK	1	24	15.02	15.02	15.02		
5	QPSK	12	0	14.20	14.29	14.07		

Band 4 (AWS Band) (dBm)-ANT 0								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	15.27	15.31	15.30	23.5	
20	QPSK	1	49	15.21	15.22	15.23		
20	QPSK	1	99	15.13	15.15	15.18		
20	QPSK	50	0	14.32	14.38	14.25	22.5	
20	QPSK	50	24	14.30	14.33	14.34		
20	QPSK	50	50	14.27	14.30	14.36		
20	QPSK	100	0	14.24	14.33	14.28	22.5	
20	16QAM	1	0	13.97	14.22	14.28		
20	16QAM	1	49	14.22	14.28	14.13		
20	16QAM	1	99	14.29	14.28	14.39	21.5	
20	16QAM	50	0	13.35	13.31	13.36		
20	16QAM	50	24	13.38	13.27	13.31		
20	16QAM	50	50	13.43	13.29	13.30	21.5	
20	16QAM	100	0	13.35	13.34	13.32		
20	64QAM	1	0	13.47	13.41	13.45		
20	64QAM	1	49	13.27	13.29	13.45	21.5	
20	64QAM	1	99	13.37	13.38	13.49		
20	64QAM	50	0	13.29	13.26	13.27		
20	64QAM	50	24	13.28	13.30	13.43	21.5	
20	64QAM	50	50	13.32	13.29	13.47		
20	64QAM	100	0	13.30	13.27	13.38		
20	256QAM	1	0	9.50	9.44	9.48	17.5	
20	256QAM	1	49	9.30	9.32	9.48		
20	256QAM	1	99	9.40	9.41	9.52		
20	256QAM	50	0	9.32	9.29	9.30	17.5	
20	256QAM	50	24	9.31	9.33	9.46		
20	256QAM	50	50	9.35	9.32	9.50		
20	256QAM	100	0	9.33	9.30	9.41		
Channel				20025	20175	20325	Tune-up limit (dBm)	
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	15.18	15.19	15.16	23.5	
15	QPSK	1	37	15.11	15.07	15.16		
15	QPSK	1	74	15.02	15.05	15.09		
15	QPSK	36	0	14.18	14.27	14.18	22.5	
15	QPSK	36	20	14.22	14.22	14.25		
15	QPSK	36	39	14.16	14.16	14.24		
15	QPSK	75	0	14.11	14.24	14.18	22.5	
15	16QAM	1	0	14.31	14.50	14.13		
15	16QAM	1	37	14.59	14.54	14.54		
15	16QAM	1	74	14.21	14.22	14.28	21.5	
15	16QAM	36	0	13.22	13.25	13.28		
15	16QAM	36	20	13.26	13.21	13.25		
15	16QAM	36	39	13.31	13.15	13.24	21.5	
15	16QAM	75	0	13.27	13.28	13.25		
15	64QAM	1	0	13.35	13.34	13.30		
15	64QAM	1	37	13.32	13.35	13.34	21.5	
15	64QAM	1	74	13.22	13.28	13.43		
15	64QAM	36	0	13.23	13.18	13.20	21.5	
15	64QAM	36	20	13.18	13.15	13.31		
15	64QAM	36	39	13.17	13.20	13.36		
15	64QAM	75	0	13.20	13.13	13.31	17.5	</

5	QPSK	12	7	14.14	14.24	14.16	15
5	QPSK	12	13	14.10	14.12	14.19	
5	QPSK	25	0	14.11	14.22	14.11	
5	16QAM	1	0	14.26	14.59	14.17	15
5	16QAM	1	12	14.56	14.60	14.45	
5	16QAM	1	24	14.18	14.11	14.26	
5	16QAM	12	0	13.16	13.20	13.23	14
5	16QAM	12	7	13.20	13.11	13.17	
5	16QAM	12	13	13.32	13.19	13.13	
5	16QAM	25	0	13.20	13.20	13.14	14
5	64QAM	1	0	13.38	13.32	13.30	
5	64QAM	1	12	13.29	13.33	13.33	
5	64QAM	1	24	13.28	13.24	13.39	14
5	64QAM	12	0	13.11	13.12	13.16	
5	64QAM	12	7	13.18	13.19	13.29	
5	64QAM	12	13	13.17	13.15	13.38	14
5	64QAM	25	0	13.12	13.11	13.29	
5	256QAM	1	0	9.40	9.34	9.33	10
5	256QAM	1	12	9.19	9.23	9.37	
5	256QAM	1	24	9.23	9.26	9.38	
5	256QAM	12	0	9.22	9.16	9.18	10
5	256QAM	12	7	9.16	9.17	9.33	
5	256QAM	12	13	9.24	9.20	9.40	
5	256QAM	25	0	9.16	9.13	9.27	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	15.11	15.20	15.14	16
3	QPSK	1	8	15.12	15.05	15.14	
3	QPSK	1	14	14.98	15.03	15.06	
3	QPSK	8	0	14.15	14.25	14.14	15
3	QPSK	8	4	14.15	14.23	14.23	
3	QPSK	8	7	14.10	14.20	14.18	
3	QPSK	15	0	14.08	14.20	14.16	15
3	16QAM	1	0	14.26	14.53	14.15	
3	16QAM	1	8	14.52	14.61	14.46	
3	16QAM	1	14	14.14	14.14	14.28	14
3	16QAM	8	0	13.22	13.15	13.23	
3	16QAM	8	4	13.24	13.17	13.19	
3	16QAM	8	7	13.32	13.14	13.16	14
3	16QAM	15	0	13.20	13.19	13.20	
3	64QAM	1	0	13.33	13.29	13.27	
3	64QAM	1	8	13.32	13.32	13.32	14
3	64QAM	1	14	13.25	13.21	13.33	
3	64QAM	8	0	13.15	13.13	13.15	
3	64QAM	8	4	13.10	13.13	13.30	22.3
3	64QAM	8	7	13.21	13.15	13.34	
3	64QAM	15	0	13.21	13.16	13.20	
3	256QAM	1	0	9.33	9.35	9.33	18.3
3	256QAM	1	8	9.14	9.21	9.38	
3	256QAM	1	14	9.22	9.30	9.35	
3	256QAM	8	0	9.16	9.11	9.13	18.3
3	256QAM	8	4	9.13	9.22	9.35	
3	256QAM	8	7	9.18	9.20	9.39	
3	256QAM	15	0	9.20	9.17	9.32	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	15.13	15.14	15.14	16
1.4	QPSK	1	3	15.07	15.04	15.12	
1.4	QPSK	1	5	15.03	15.06	15.01	
1.4	QPSK	3	0	15.20	15.27	15.12	15
1.4	QPSK	3	1	15.15	15.20	15.23	
1.4	QPSK	3	3	15.18	15.18	15.18	
1.4	QPSK	6	0	14.06	14.16	14.11	15
1.4	16QAM	1	0	14.32	14.52	14.18	
1.4	16QAM	1	3	14.54	14.61	14.49	
1.4	16QAM	1	5	14.12	14.15	14.25	15
1.4	16QAM	3	0	14.24	14.22	14.18	
1.4	16QAM	3	1	14.28	14.12	14.17	
1.4	16QAM	3	3	14.25	14.20	14.17	14
1.4	16QAM	6	0	13.26	13.21	13.23	
1.4	64QAM	1	0	13.29	13.26	13.29	
1.4	64QAM	1	3	13.18	13.13	13.34	14
1.4	64QAM	1	5	13.26	13.22	13.40	
1.4	64QAM	3	0	13.12	13.12	13.18	
1.4	64QAM	3	1	13.10	13.12	13.30	14
1.4	64QAM	3	3	13.16	13.19	13.30	
1.4	64QAM	6	0	13.17	13.18	13.28	
1.4	256QAM	1	0	9.40	9.28	9.34	10
1.4	256QAM	1	3	9.14	9.15	9.32	
1.4	256QAM	1	5	9.27	9.27	9.36	
1.4	256QAM	3	0	9.16	9.17	9.19	10
1.4	256QAM	3	1	9.14	9.24	9.37	
1.4	256QAM	3	3	9.24	9.22	9.35	
1.4	256QAM	6	0	9.23	9.15	9.23	10

5	QPSK	12	7	14.17	14.27	14.19	22.5
5	QPSK	12	13	14.13	14.15	14.22	
5	QPSK	25	0	14.14	14.25	14.14	
5	16QAM	1	0	14.29	14.62	14.20	22.5
5	16QAM	1	12	14.59	14.63	14.48	
5	16QAM	1	24	14.21	14.14	14.29	
5	16QAM	12	0	13.21	13.23	13.26	21.5
5	16QAM	12	7	13.23	13.14	13.20	
5	16QAM	12	13	13.35	13.22	13.16	
5	16QAM	25	0	13.23	13.23	13.17	21.5
5	64QAM	1	0	13.41	13.35	13.33	
5	64QAM	1	12	13.32	13.36	13.36	
5	64QAM	1	24	13.31	13.27	13.42	21.5
5	64QAM	12	0	13.14	13.15	13.19	
5	64QAM	12	7	13.21	13.22	13.32	
5	64QAM	12	13	13.20	13.18	13.41	21.5
5	64QAM	25	0	13.15	13.14	13.32	
5	256QAM	1	0	9.43	9.37	9.36	17.5
5	256QAM	1	12	9.22	9.26	9.40	
5	256QAM	1	24	9.26	9.29	9.41	
5	256QAM	12	0	9.25	9.19	9.21	17.5
5	256QAM	12	7	9.19	9.20	9.36	
5	256QAM	12	13	9.27	9.23	9.43	
5	256QAM	25	0	9.19	9.16	9.30	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	15.14	15.23	15.17	23.5
3	QPSK	1	8	15.15	15.08	15.17	
3	QPSK	1	14	15.01	15.06	15.09	
3	QPSK	8	0	14.18	14.28	14.17	22.5
3	QPSK	8	4	14.18	14.26	14.26	
3	QPSK	8	7	14.13	14.23	14.21	
3	QPSK	15	0	14.11	14.23	14.19	22.5
3	16QAM	1	0	14.29	14.56	14.18	
3	16QAM	1	8	14.55	14.64	14.49	
3	16QAM	1	14	14.17	14.17	14.31	21.5
3	16QAM	8	0	13.25	13.18	13.26	
3	16QAM	8	4	13.27	13.20	13.22	
3	16QAM	8	7	13.35	13.17	13.19	21.5
3	16QAM	15	0	13.23	13.22	13.23	
3	64QAM	1	0	13.36	13.32	13.30	
3	64QAM	1	8	13.35	13.35	13.35	21.5
3	64QAM	1	14	13.28	13.24	13.36	
3	64QAM	8	0	13.18	13.16	13.18	
3	64QAM	8	4	13.13	13.16	13.33	22.3
3	64QAM	8	7	13.24	13.18	13.37	
3	64QAM	15	0	13.24	13.19	13.23	
3	256QAM	1	0	9.36	9.38	9.36	18.3
3	256QAM	1	8	9.17	9.24	9.41	
3	256QAM	1	14	9.25	9.33	9.38	
3	256QAM	8	0	9.19	9.14	9.16	18.3
3	256QAM	8	4	9.16	9.25	9.38	
3	256QAM	8	7	9.21	9.23	9.42	
3	256QAM	15	0	9.23	9.20	9.35	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	15.16	15.17	15.17	23.5
1.4	QPSK	1	3	15.10	15.07	15.15	
1.4	QPSK	1	5	15.06	15.09	15.04	
1.4	QPSK	3	0	15.23	15.30	15.15	22.5
1.4	QPSK	3	1	15.18	15.23	15.26	
1.4	QPSK	3	3	15.21	15.21	15.21	
1.4	QPSK	6	0	14.09	14.19	14.14	22.5
1.4	16QAM	1	0	14.35	14.55	14.21	
1.4	16QAM	1	3	14.57	14.64	14.52	
1.4	16QAM	1	5	14.15	14.18	14.28	22.5
1.4	16QAM	3	0	14.27	14.25	14.21	
1.4	16QAM	3	1	14.31	14.15	14.20	
1.4	16QAM	3	3	14.28	14.23	14.20	21.5
1.4	16QAM	6	0	13.29	13.24	13.26	
1.4	64QAM	1	0	13.32	13.29	13.32	
1.4	64QAM	1	3	13.21	13.16	13.37	21.5
1.4	64QAM	1	5	13.29	13.25	13.43	
1.4	64QAM	3	0	13.15	13.15	13.21	
1.4	64QAM	3	1	13.13	13.15	13.33	21.5
1.4	64QAM	3	3	13.19	13.22	13.33	
1.4	64QAM	6	0	13.20	13.21	13.31	
1.4	256QAM	1	0	9.43	9.31	9.37	17.5
1.4	256QAM	1	3	9.17	9.18	9.35	
1.4	256QAM	1	5	9.30	9.30	9.39	
1.4	256QAM	3	0	9.19	9.20	9.22	17.5
1.4	256QAM	3	1	9.17	9.27	9.40	
1.4	256QAM	3	3	9.27	9.25	9.38	
1.4	256QAM	6	0	9.26	9.18	9.26	17.5

Band 4 (AWS Band) (dBm)-ANT 6								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	14.10	14.14	14.13	14.8	
20	QPSK	1	49	14.04	14.05	14.06		
20	QPSK	1	99	13.96	13.98	14.01		
20	QPSK	50	0	13.15	13.21	13.08		
20	QPSK	50	24	13.13	13.16	13.17	13.8	
20	QPSK	50	50	13.10	13.13	13.19		
20	QPSK	100	0	13.07	13.16	13.11		
20	16QAM	1	0	12.80	13.05	13.11		
20	16QAM	1	49	13.05	13.11	12.96	13.8	
20	16QAM	1	99	13.12	13.11	13.22		
20	16QAM	50	0	12.18	12.14	12.19		
20	16QAM	50	24	12.21	12.10	12.14		
20	16QAM	50	50	12.26	12.12	12.13	12.8	
20	16QAM	100	0	12.18	12.17	12.15		
20	64QAM	1	0	12.30	12.24	12.28		
20	64QAM	1	49	12.10	12.12	12.28		
20	64QAM	1	99	12.20	12.21	12.32	12.8	
20	64QAM	50	0	12.12	12.09	12.10		
20	64QAM	50	24	12.11	12.13	12.26		
20	64QAM	50	50	12.15	12.12	12.30		
20	64QAM	100	0	12.13	12.10	12.21	8.8	
20	256QAM	1	0	8.33	8.27	8.31		
20	256QAM	1	49	8.13	8.15	8.31		
20	256QAM	1	99	8.23	8.24	8.35		
20	256QAM	50	0	8.15	8.12	8.13	8.8	
20	256QAM	50	24	8.14	8.16	8.29		
20	256QAM	50	50	8.18	8.15	8.33		
20	256QAM	100	0	8.16	8.13	8.24		
Channel				20025	20175	20325	Tune-up limit (dBm)	
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	14.01	14.02	13.99	14.8	
15	QPSK	1	37	13.94	13.90	13.99		
15	QPSK	1	74	13.85	13.88	13.92		
15	QPSK	36	0	13.01	13.10	13.01		
15	QPSK	36	20	13.05	13.05	13.08	13.8	
15	QPSK	36	39	12.99	12.99	13.07		
15	QPSK	75	0	12.94	13.07	13.01		
15	16QAM	1	0	13.14	13.33	12.96		
15	16QAM	1	37	13.42	13.37	13.37	13.8	
15	16QAM	1	74	13.04	13.05	13.11		
15	16QAM	36	0	12.05	12.08	12.11		
15	16QAM	36	20	12.09	12.04	12.08		
15	16QAM	36	39	12.14	11.98	12.07	12.8	
15	16QAM	75	0	12.10	12.11	12.08		
15	64QAM	1	0	12.18	12.17	12.13		
15	64QAM	1	37	12.15	12.18	12.17		
15	64QAM	1	74	12.05	12.11	12.26	12.8	
15	64QAM	36	0	12.06	12.01	12.03		
15	64QAM	36	20	12.01	11.98	12.14		
15	64QAM	36	39	12.00	12.03	12.19		
15	64QAM	75	0	12.03	11.96	12.14	8.8	
15	256QAM	1	0	8.26	8.12	8.18		
15	256QAM	1	37	8.03	8.01	8.25		
15	256QAM	1	74	8.17	8.13	8.21		
15	256QAM	36	0	8.08	7.99	7.99	8.8	
15	256QAM	36	20	8.01	8.07	8.23		
15	256QAM	36	39	8.09	8.02	8.18		
15	256QAM	75	0	8.02	8.07	8.17		
Channel				20000	20175	20350	Tune-up limit (dBm)	
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	13.98	14.07	14.02	14.8	
10	QPSK	1	25	13.92	13.94	13.94		
10	QPSK	1	49	13.87	13.84	13.87		
10	QPSK	25	0	13.02	13.13	12.95		
10	QPSK	25	12	13.00	13.08	13.09	13.8	
10	QPSK	25	25	12.99	13.05	13.12		
10	QPSK	50	0	12.94	13.02	13.04		
10	16QAM	1	0	13.15	13.38	13.05		
10	16QAM	1	25	13.36	13.44	13.32	13.8	
10	16QAM	1	49	13.20	13.04	13.12		
10	16QAM	25	0	12.09	12.02	12.10		
10	16QAM	25	12	12.15	11.95	12.03		
10	16QAM	25	25	12.16	12.05	12.02	12.8	
10	16QAM	50	0	12.12	12.05	12.06		
10	64QAM	1	0	12.15	12.11	12.19		
10	64QAM	1	25	12.04	12.05	12.22		
10	64QAM	1	49	12.10	12.07	12.22	12.8	
10	64QAM	25	0	12.04	12.01	12.03		
10	64QAM	25	12	12.03	12.01	12.18		
10	64QAM	25	25	12.04	12.00	12.15		
10	64QAM	50	0	11.98	11.97	12.12	8.8	
10	256QAM	1	0	8.26	8.21	8.16		
10	256QAM	1	25	8.05	8.05	8.20		
10	256QAM	1	49	8.10	8.18	8.21		
10	256QAM	25	0	8.05	8.03	8.00	8.8	
10	256QAM	25	12	8.08	8.06	8.15		
10	256QAM	25	25	8.07	8.06	8.20		
10	256QAM	50	0	8.08	8.06	8.09		
Channel				19975	20175	20375	Tune-up limit (dBm)	
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	13.97	14.03	14.00	14.8	
5	QPSK	1	12	13.95	13.91	13.92		
5	QPSK	1	24	13.88	13.88	13.88		
5	QPSK	12	0	13.06	13.15	12.93		

Band 4 (AWS Band) (dBm)-ANT 4									
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dbm)		
Channel				20050	20175	20300			
Frequency (MHz)				1720	1732.5	1745			
20	QPSK	1	0	15.12	15.16	15.15	15.9		
20	QPSK	1	49	15.06	15.07	15.08			
20	QPSK	1	99	14.98	15.00	15.03			
20	QPSK	50	0	14.17	14.23	14.10			
20	QPSK	50	24	14.15	14.18	14.19	14.9		
20	QPSK	50	50	14.12	14.15	14.21			
20	QPSK	100	0	14.09	14.18	14.13			
20	16QAM	1	0	13.82	14.07	14.13			
20	16QAM	1	49	14.07	14.13	13.98	14.9		
20	16QAM	1	99	14.14	14.13	14.24			
20	16QAM	50	0	13.20	13.16	13.21			
20	16QAM	50	24	13.23	13.12	13.16			
20	16QAM	50	50	13.28	13.14	13.15	13.9		
20	16QAM	100	0	13.20	13.19	13.17			
20	64QAM	1	0	13.32	13.26	13.30			
20	64QAM	1	49	13.12	13.14	13.30			
20	64QAM	1	99	13.22	13.23	13.34	13.9		
20	64QAM	50	0	13.14	13.11	13.12			
20	64QAM	50	24	13.13	13.15	13.28			
20	64QAM	50	50	13.17	13.14	13.32			
20	64QAM	100	0	13.15	13.12	13.23	9.9		
20	256QAM	1	0	9.35	9.29	9.33			
20	256QAM	1	49	9.15	9.17	9.33			
20	256QAM	1	99	9.25	9.26	9.37			
20	256QAM	50	0	9.17	9.14	9.15	9.9		
20	256QAM	50	24	9.16	9.18	9.31			
20	256QAM	50	50	9.20	9.17	9.35			
20	256QAM	100	0	9.18	9.15	9.28			
Channel				20025	20175	20325	Tune-up limit (dbm)		
Frequency (MHz)				1717.5	1732.5	1747.5			
15	QPSK	1	0	15.03	15.04	15.01	15.9		
15	QPSK	1	37	14.96	14.92	15.01			
15	QPSK	1	74	14.87	14.90	14.94			
15	QPSK	36	0	14.03	14.12	14.03			
15	QPSK	36	20	14.07	14.07	14.10	14.9		
15	QPSK	36	39	14.01	14.01	14.09			
15	QPSK	75	0	13.96	14.09	14.03			
15	16QAM	1	0	14.16	14.35	13.98			
15	16QAM	1	37	14.44	14.39	14.39	14.9		
15	16QAM	1	74	14.06	14.07	14.13			
15	16QAM	36	0	13.07	13.10	13.13			
15	16QAM	36	20	13.11	13.06	13.10			
15	16QAM	36	39	13.16	13.00	13.09	13.9		
15	16QAM	75	0	13.12	13.13	13.10			
15	64QAM	1	0	13.20	13.19	13.15			
15	64QAM	1	37	13.17	13.20	13.19			
15	64QAM	1	74	13.07	13.13	13.28	13.9		
15	64QAM	36	0	13.08	13.03	13.05			
15	64QAM	36	20	13.03	13.00	13.16			
15	64QAM	36	39	13.02	13.05	13.21			
15	64QAM	75	0	13.05	12.98	13.16	9.9		
15	256QAM	1	0	9.28	9.14	9.20			
15	256QAM	1	37	9.05	9.03	9.27			
15	256QAM	1	74	9.19	9.15	9.23			
15	256QAM	36	0	9.10	9.01	9.01	9.9		
15	256QAM	36	20	9.03	9.09	9.25			
15	256QAM	36	39	9.11	9.04	9.20			
15	256QAM	75	0	9.04	9.09	9.19			
Channel				20000	20175	20350	Tune-up limit (dbm)		
Frequency (MHz)				1715	1732.5	1750			
10	QPSK	1	0	15.00	15.09	15.04	15.9		
10	QPSK	1	25	14.94	14.96	14.96			
10	QPSK	1	49	14.89	14.86	14.89			
10	QPSK	25	0	14.04	14.15	13.97			
10	QPSK	25	12	14.02	14.10	14.11	14.9		
10	QPSK	25	25	14.01	14.07	14.14			
10	QPSK	50	0	13.96	14.04	14.06			
10	16QAM	1	0	14.17	14.40	14.07			
10	16QAM	1	25	14.38	14.46	14.34	14.9		
10	16QAM	1	49	14.22	14.06	14.14			
10	16QAM	25	0	13.11	13.04	13.12			
10	16QAM	25	12	13.17	12.97	13.05			
10	16QAM	25	25	13.18	13.07	13.04	13.9		
10	16QAM	50	0	13.14	13.07	13.08			
10	64QAM	1	0	13.17	13.13	13.21			
10	64QAM	1	25	13.06	13.07	13.24			
10	64QAM	1	49	13.12	13.09	13.24	13.9		
10	64QAM	25	0	13.06	13.03	13.05			
10	64QAM	25	12	13.05	13.03	13.20			
10	64QAM	25	25	13.06	13.02	13.17			
10	64QAM	50	0	13.00	12.99	13.14	9.9		
10	256QAM	1	0	9.28	9.23	9.18			
10	256QAM	1	25	9.07	9.07	9.22			
10	256QAM	1	49	9.12	9.20	9.23			
10	256QAM	25	0	9.07	9.05	9.02	9.9		
10	256QAM	25	12	9.10	9.08	9.17			
10	256QAM	25	25	9.09	9.08	9.22			
10	256QAM	50	0	9.10	9.08	9.11			
Channel				19975	20175	20375	Tune-up limit (dbm)		
Frequency (MHz)				1712.5	1732.5	1752.5			
5	QPSK	1	0	14.99	15.05	15.02	15.9		
5	QPSK	1	12	14.97	14.93	14.94			
5	QPSK	1	24	14.90	14.90	14.90			
5	QPSK	12	0	14.08	14.17	13.95			

5	QPSK	12	7	13.00	13.10	13.02	13.8
5	QPSK	12	13	12.96	12.98	13.05	
5	QPSK	25	0	12.97	13.08	12.97	
5	16QAM	1	0	13.12	13.45	13.03	13.8
5	16QAM	1	12	13.42	13.46	13.31	
5	16QAM	1	24	13.04	12.97	13.12	
5	16QAM	12	0	12.04	12.06	12.09	12.8
5	16QAM	12	7	12.06	11.97	12.03	
5	16QAM	12	13	12.18	12.05	11.99	
5	16QAM	25	0	12.06	12.06	12.00	12.8
5	64QAM	1	0	12.24	12.18	12.16	
5	64QAM	1	12	12.15	12.19	12.19	
5	64QAM	1	24	12.14	12.10	12.25	12.8
5	64QAM	12	0	11.97	11.98	12.02	
5	64QAM	12	7	12.04	12.05	12.15	
5	64QAM	12	13	12.03	12.01	12.24	12.8
5	64QAM	25	0	11.98	11.97	12.15	
5	256QAM	1	0	8.26	8.20	8.19	8.8
5	256QAM	1	12	8.05	8.09	8.23	
5	256QAM	1	24	8.09	8.12	8.24	
5	256QAM	12	0	8.08	8.02	8.04	8.8
5	256QAM	12	7	8.02	8.03	8.19	
5	256QAM	12	13	8.10	8.06	8.26	
5	256QAM	25	0	8.02	7.99	8.13	8.8
Channel				19965	20175	20385	
Frequency (MHz)				1711.5	1732.5	1753.5	Tune-up limit (dBm)
3	QPSK	1	0	13.97	14.06	14.00	
3	QPSK	1	8	13.98	13.91	14.00	14.8
3	QPSK	1	14	13.84	13.89	13.92	
3	QPSK	8	0	13.01	13.11	13.00	13.8
3	QPSK	8	4	13.01	13.09	13.09	
3	QPSK	8	7	12.96	13.06	13.04	
3	QPSK	15	0	12.94	13.06	13.02	13.8
3	16QAM	1	0	13.12	13.39	13.01	
3	16QAM	1	8	13.38	13.47	13.32	
3	16QAM	1	14	13.00	13.00	13.14	12.8
3	16QAM	8	0	12.08	12.01	12.09	
3	16QAM	8	4	12.10	12.03	12.05	
3	16QAM	8	7	12.18	12.00	12.02	12.8
3	16QAM	15	0	12.06	12.05	12.06	
3	64QAM	1	0	12.19	12.15	12.13	
3	64QAM	1	8	12.18	12.18	12.18	12.8
3	64QAM	1	14	12.11	12.07	12.19	
3	64QAM	8	0	12.01	11.99	12.01	
3	64QAM	8	4	11.96	11.99	12.16	22.3
3	64QAM	8	7	12.07	12.01	12.20	
3	64QAM	15	0	12.07	12.02	12.06	
3	256QAM	1	0	8.19	8.21	8.19	18.3
3	256QAM	1	8	8.00	8.07	8.24	
3	256QAM	1	14	8.08	8.16	8.21	
3	256QAM	8	0	8.02	7.97	7.99	18.3
3	256QAM	8	4	7.99	8.08	8.21	
3	256QAM	8	7	8.04	8.06	8.25	
3	256QAM	15	0	8.06	8.03	8.18	Tune-up limit (dBm)
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	13.99	14.00	14.00	14.8
1.4	QPSK	1	3	13.93	13.90	13.98	
1.4	QPSK	1	5	13.89	13.92	13.87	
1.4	QPSK	3	0	14.06	14.13	13.98	13.8
1.4	QPSK	3	1	14.01	14.06	14.09	
1.4	QPSK	3	3	14.04	14.04	14.04	
1.4	QPSK	6	0	12.92	13.02	12.97	12.8
1.4	16QAM	1	0	13.18	13.38	13.04	
1.4	16QAM	1	3	13.40	13.47	13.35	
1.4	16QAM	1	5	12.98	13.01	13.11	12.8
1.4	16QAM	3	0	13.10	13.08	13.04	
1.4	16QAM	3	1	13.14	12.98	13.03	
1.4	16QAM	3	3	13.11	13.06	13.03	12.8
1.4	16QAM	6	0	12.12	12.07	12.09	
1.4	64QAM	1	0	12.15	12.12	12.15	
1.4	64QAM	1	3	12.04	11.99	12.20	12.8
1.4	64QAM	1	5	12.12	12.08	12.26	
1.4	64QAM	3	0	11.98	11.98	12.04	
1.4	64QAM	3	1	11.96	11.98	12.16	12.8
1.4	64QAM	3	3	12.02	12.05	12.16	
1.4	64QAM	6	0	12.03	12.04	12.14	
1.4	256QAM	1	0	8.26	8.14	8.20	8.8
1.4	256QAM	1	3	8.00	8.01	8.18	
1.4	256QAM	1	5	8.13	8.13	8.22	
1.4	256QAM	3	0	8.02	8.03	8.05	8.8
1.4	256QAM	3	1	8.00	8.10	8.23	
1.4	256QAM	3	3	8.10	8.08	8.21	
1.4	256QAM	6	0	8.09	8.01	8.09	8.8

5	QPSK	12	7	14.02	14.12	14.04	14.9
5	QPSK	12	13	13.98	14.00	14.07	
5	QPSK	25	0	13.99	14.10	13.99	
5	16QAM	1	0	14.14	14.47	14.05	14.9
5	16QAM	1	12	14.44	14.48	14.33	
5	16QAM	1	24	14.06	13.99	14.14	
5	16QAM	12	0	13.06	13.08	13.11	13.9
5	16QAM	12	7	13.08	12.99	13.05	
5	16QAM	12	13	13.20	13.07	13.01	
5	16QAM	25	0	13.08	13.08	13.02	13.9
5	64QAM	1	0	13.26	13.20	13.18	
5	64QAM	1	12	13.17	13.21	13.21	
5	64QAM	1	24	13.16	13.12	13.27	13.9
5	64QAM	12	0	12.99	13.00	13.04	
5	64QAM	12	7	13.06	13.07	13.17	
5	64QAM	12	13	13.05	13.03	13.26	13.9
5	64QAM	25	0	13.00	12.99	13.17	
5	256QAM	1	0	9.28	9.22	9.21	9.9
5	256QAM	1	12	9.07	9.11	9.25	
5	256QAM	1	24	9.11	9.14	9.26	
5	256QAM	12	0	9.10	9.04	9.06	9.9
5	256QAM	12	7	9.04	9.05	9.21	
5	256QAM	12	13	9.12	9.08	9.28	
5	256QAM	25	0	9.04	9.01	9.15	Tune-up limit (dBm)
Channel				19965	20175	20385	
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	14.99	15.08	15.02	15.9
3	QPSK	1	8	15.00	14.93	15.02	
3	QPSK	1	14	14.86	14.91	14.94	
3	QPSK	8	0	14.03	14.13	14.02	14.9
3	QPSK	8	4	14.03	14.11	14.11	
3	QPSK	8	7	13.98	14.08	14.06	
3	QPSK	15	0	13.96	14.08	14.04	14.9
3	16QAM	1	0	14.14	14.41	14.03	
3	16QAM	1	8	14.40	14.49	14.34	
3	16QAM	1	14	14.02	14.02	14.16	13.9
3	16QAM	8	0	13.10	13.03	13.11	
3	16QAM	8	4	13.12	13.05	13.07	
3	16QAM	8	7	13.20	13.02	13.04	13.9
3	16QAM	15	0	13.08	13.07	13.08	
3	64QAM	1	0	13.21	13.17	13.15	
3	64QAM	1	8	13.20	13.20	13.20	13.9
3	64QAM	1	14	13.13	13.09	13.21	
3	64QAM	8	0	13.03	13.01	13.03	
3	64QAM	8	4	12.98	13.01	13.18	22.3
3	64QAM	8	7	13.09	13.03	13.22	
3	64QAM	15	0	13.09	13.04	13.08	
3	256QAM	1	0	9.21	9.23	9.21	18.3
3	256QAM	1	8	9.02	9.09	9.26	
3	256QAM	1	14	9.10	9.18	9.23	
3	256QAM	8	0	9.04	8.99	9.01	18.3
3	256QAM	8	4	9.01	9.10	9.23	
3	256QAM	8	7	9.06	9.08	9.27	
3	256QAM	15	0	9.08	9.05	9.20	Tune-up limit (dBm)
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	15.01	15.02	15.02	15.9
1.4	QPSK	1	3	14.95	14.92	15.00	
1.4	QPSK	1	5	14.91	14.94	14.89	
1.4	QPSK	3	0	15.08	15.15	15.00	14.9
1.4	QPSK	3	1	15.03	15.08	15.11	
1.4	QPSK	3	3	15.06	15.06	15.06	
1.4	QPSK	6	0	13.94	14.04	13.99	14.9
1.4	16QAM	1	0	14.20	14.40	14.06	
1.4	16QAM	1	3	14.42	14.49	14.37	
1.4	16QAM	1	5	14.00	14.03	14.13	14.9
1.4	16QAM	3	0	14.12	14.10	14.06	
1.4	16QAM	3	1	14.16	14.00	14.05	
1.4	16QAM	3	3	14.13	14.08	14.05	13.9
1.4	16QAM	6	0	13.14	13.09	13.11	
1.4	64QAM	1	0	13.17	13.14	13.17	
1.4	64QAM	1	3	13.06	13.01	13.22	13.9
1.4	64QAM	1	5	13.14	13.10	13.28	
1.4	64QAM	3	0	13.00	13.00	13.06	
1.4	64QAM	3	1	12.98	13.00	13.18	13.9
1.4	64QAM	3	3	13.04	13.07	13.18	
1.4	64QAM	6	0	13.05	13.06	13.16	
1.4	256QAM	1	0	9.28	9.16	9.22	9.9
1.4	256QAM	1	3	9.02	9.03	9.20	
1.4	256QAM	1	5	9.15	9.15	9.24	9.9
1.4	256QAM	3	0	9.04	9.05	9.07	
1.4	256QAM	3	1	9.02	9.12	9.25	
1.4	256QAM	3	3	9.12	9.10	9.23	9.9
1.4	256QAM	6	0	9.11	9.03	9.11	

Band 5 (Celluar Band) (dBm)-ANT 1									
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)		
Channel				20450	20525	20600			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	0	21.36	21.37	21.29	25		
10	QPSK	1	25	21.32	21.35	21.24			
10	QPSK	1	49	21.24	21.31	21.06			
10	QPSK	25	0	20.42	20.50	20.36			
10	QPSK	25	12	20.49	20.46	20.41	24		
10	QPSK	25	25	20.41	20.37	20.40			
10	QPSK	50	0	20.30	20.32	20.29			
10	16QAM	1	0	20.39	20.29	20.25			
10	16QAM	1	25	20.38	20.56	20.42	24		
10	16QAM	1	49	20.35	20.36	20.28			
10	16QAM	25	0	19.34	19.25	19.22			
10	16QAM	25	12	19.26	19.22	19.19			
10	16QAM	25	25	19.34	19.30	19.25	23		
10	16QAM	50	0	19.38	19.24	19.21			
10	64QAM	1	0	19.40	19.47	19.36			
10	64QAM	1	25	19.27	19.25	19.31			
10	64QAM	1	49	19.42	19.22	19.38	23		
10	64QAM	25	0	19.37	19.30	19.25			
10	64QAM	25	12	19.45	19.25	19.30			
10	64QAM	25	25	19.29	19.30	19.25			
10	64QAM	50	0	19.30	19.27	19.29	19		
10	256QAM	1	0	15.44	15.51	15.40			
10	256QAM	1	25	15.31	15.29	15.35			
10	256QAM	1	49	15.46	15.26	15.42			
10	256QAM	25	0	15.41	15.34	15.29	19		
10	256QAM	25	12	15.49	15.29	15.34			
10	256QAM	25	25	15.33	15.34	15.29			
10	256QAM	50	0	15.34	15.31	15.33			
Channel				20425	20525	20625	Tune-up limit (dBm)		
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	21.33	21.34	21.26	25		
5	QPSK	1	12	21.29	21.29	21.22			
5	QPSK	1	24	21.19	21.26	21.00			
5	QPSK	12	0	20.41	20.47	20.23			
5	QPSK	12	7	20.45	20.43	20.38	24		
5	QPSK	12	13	20.31	20.33	20.30			
5	QPSK	25	0	20.35	20.33	20.38			
5	16QAM	1	0	20.49	20.40	20.35			
5	16QAM	1	12	20.48	20.68	20.54	24		
5	16QAM	1	24	20.47	20.44	20.40			
5	16QAM	12	0	19.40	19.36	19.27			
5	16QAM	12	7	19.34	19.33	19.25			
5	16QAM	12	13	19.39	19.38	19.32	23		
5	16QAM	25	0	19.48	19.29	19.26			
5	64QAM	1	0	19.34	19.41	19.34			
5	64QAM	1	12	19.17	19.24	19.26			
5	64QAM	1	24	19.37	19.13	19.29	23		
5	64QAM	12	0	19.30	19.26	19.19			
5	64QAM	12	7	19.41	19.20	19.24			
5	64QAM	12	13	19.21	19.21	19.15			
5	64QAM	25	0	19.39	19.37	19.40	23		
5	256QAM	1	0	15.40	15.43	15.39			
5	256QAM	1	12	15.29	15.28	15.31			
5	256QAM	1	24	15.38	15.24	15.38			
5	256QAM	12	0	15.35	15.28	15.19	19		
5	256QAM	12	7	15.40	15.23	15.25			
5	256QAM	12	13	15.23	15.26	15.22			
5	256QAM	25	0	15.30	15.30	15.26			
Channel				20415	20525	20635	Tune-up limit (dBm)		
Frequency (MHz)				825.5	836.5	847.5			
3	QPSK	1	0	21.24	21.32	21.28	25		
3	QPSK	1	8	21.31	21.29	21.17			
3	QPSK	1	14	21.15	21.24	20.98			
3	QPSK	8	0	20.35	20.46	20.24			
3	QPSK	8	4	20.45	20.43	20.36	24		
3	QPSK	8	7	20.17	20.22	20.20			
3	QPSK	15	0	20.22	20.21	20.25			
3	16QAM	1	0	20.36	20.20	20.21			
3	16QAM	1	8	20.36	20.54	20.35	24		
3	16QAM	1	14	20.28	20.26	20.26			
3	16QAM	8	0	19.31	19.19	19.15			
3	16QAM	8	4	19.17	19.19	19.18			
3	16QAM	8	7	19.28	19.20	19.17	23		
3	16QAM	15	0	19.34	19.21	19.18			
3	64QAM	1	0	19.32	19.38	19.33			
3	64QAM	1	8	19.26	19.20	19.30			
3	64QAM	1	14	19.38	19.19	19.35	23		
3	64QAM	8	0	19.32	19.21	19.21			
3	64QAM	8	4	19.41	19.24	19.26			
3	64QAM	8	7	19.27	19.21	19.19			
3	64QAM	15	0	19.20	19.26	19.20	19		
3	256QAM	1	0	15.39	15.43	15.36			
3	256QAM	1	8	15.27	15.22	15.32			
3	256QAM	1	14	15.37	15.19	15.41			
3	256QAM	8	0	15.54	15.40	15.33	19		
3	256QAM	8	4	15.56	15.40	15.47			
3	256QAM	8	7	15.41	15.42	15.38			
3	256QAM	15	0	15.42	15.43	15.40			
Channel				20407	20525	20643	Tune-up limit (dBm)		
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	21.34	21.35	21.22	25		
1.4	QPSK	1	3	21.27	21.27	21.16			
1.4	QPSK	1	5	21.23	21.28	21.01			
1.4	QPSK	3	0	21.23	21.34	21.08			

Band 5 (Celluar Band) (dBm)-ANT 0									
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)		
Channel				20450	20525	20600			
Frequency (Mhz)				829	836.5	844			
10	QPSK	1	0	17.75	17.76	17.68	18.5		
10	QPSK	1	25	17.71	17.74	17.63			
10	QPSK	1	49	17.63	17.70	17.45			
10	QPSK	25	0	16.81	16.89	16.75			
10	QPSK	25	12	16.88	16.85	16.80	17.5		
10	QPSK	25	25	16.80	16.76	16.79			
10	QPSK	50	0	16.69	16.71	16.68			
10	16QAM	1	0	16.78	16.68	16.64			
10	16QAM	1	25	16.77	16.95	16.81	17.5		
10	16QAM	1	49	16.74	16.75	16.67			
10	16QAM	25	0	15.73	15.64	15.61			
10	16QAM	25	12	15.65	15.61	15.58			
10	16QAM	25	25	15.73	15.69	15.64	16.5		
10	16QAM	50	0	15.77	15.63	15.60			
10	64QAM	1	0	15.79	15.86	15.75			
10	64QAM	1	25	15.66	15.64	15.70			
10	64QAM	1	49	15.81	15.61	15.77	16.5		
10	64QAM	25	0	15.76	15.69	15.64			
10	64QAM	25	12	15.84	15.64	15.69			
10	64QAM	25	25	15.68	15.69	15.64			
10	84QAM	50	0	15.69	15.66	15.68	12.5		
10	256QAM	1	0	11.83	11.90	11.79			
10	256QAM	1	25	11.70	11.68	11.74			
10	256QAM	1	49	11.85	11.65	11.81			
10	256QAM	25	0	11.80	11.73	11.68	12.5		
10	256QAM	25	12	11.88	11.68	11.73			
10	256QAM	25	25	11.72	11.73	11.68	12.5		
10	256QAM	50	0	11.73	11.70	11.72			
Channel				20425	20525	20625	Tune-up limit (dBm)		
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	17.72	17.73	17.65	18.5		
5	QPSK	1	12	17.68	17.68	17.61			
5	QPSK	1	24	17.58	17.65	17.39			
5	QPSK	12	0	16.80	16.86	16.62			
5	QPSK	12	7	16.84	16.82	16.77	17.5		
5	QPSK	12	13	16.70	16.72	16.69			
5	QPSK	25	0	16.74	16.72	16.77			
5	16QAM	1	0	16.88	16.79	16.74			
5	16QAM	1	12	16.87	17.07	16.93	17.5		
5	16QAM	1	24	16.86	16.83	16.79			
5	16QAM	12	0	15.79	15.75	15.66			
5	16QAM	12	7	15.73	15.72	15.64			
5	16QAM	12	13	15.78	15.77	15.71	16.5		
5	16QAM	25	0	15.87	15.68	15.65			
5	64QAM	1	0	15.73	15.80	15.73			
5	64QAM	1	12	15.56	15.63	15.65			
5	64QAM	1	24	15.76	15.52	15.68	16.5		
5	64QAM	12	0	15.69	15.65	15.58			
5	64QAM	12	7	15.80	15.59	15.63			
5	64QAM	12	13	15.60	15.60	15.54			
5	64QAM	25	0	15.78	15.76	15.79	16.5		
5	256QAM	1	0	11.79	11.82	11.78			
5	256QAM	1	12	11.68	11.67	11.70			
5	256QAM	1	24	11.77	11.63	11.77			
5	256QAM	12	0	11.74	11.67	11.58	12.5		
5	256QAM	12	7	11.79	11.62	11.64			
5	256QAM	12	13	11.62	11.65	11.61			
5	256QAM	25	0	11.69	11.69	11.65			
Channel				20415	20525	20635	Tune-up limit (dBm)		
Frequency (MHz)				825.5	836.5	847.5			
3	QPSK	1	0	17.63	17.71	17.67	18.5		
3	QPSK	1	8	17.70	17.68	17.56			
3	QPSK	1	14	17.54	17.63	17.37			
3	QPSK	8	4	16.84	16.82	16.75			
3	QPSK	8	7	16.56	16.61	16.59	17.5		
3	QPSK	15	0	16.61	16.60	16.64			
3	16QAM	1	0	16.75	16.59	16.60			
3	16QAM	1	8	16.75	16.93	16.74			
3	16QAM	1	14	16.67	16.65	16.65	17.5		
3	16QAM	8	0	15.70	15.58	15.54			
3	16QAM	8	4	15.56	15.58	15.57			
3	16QAM	8	7	15.67	15.59	15.56			
3	16QAM	15	0	15.73	15.60	15.57	16.5		
3	64QAM	1	0	15.71	15.77	15.72			
3	64QAM	1	8	15.65	15.59	15.69			
3	64QAM	1	14	15.77	15.58	15.74			
3	64QAM	8	0	15.71	15.60	15.60	16.5		
3	64QAM	8	4	15.80	15.63	15.65			
3	64QAM	8	7	15.66	15.60	15.58			
3	64QAM	15	0	15.59	15.65	15.59			
3	256QAM	1	0	11.78	11.82	11.75	12.5		
3	256QAM	1	8	11.66	11.61	11.71			
3	256QAM	1	14	11.76	11.58	11.80			
3	256QAM	8	0	11.93	11.79	11.72			
3	256QAM	8	4	11.95	11.79	11.86	12.5		
3	256QAM	8	7	11.80	11.81	11.77			
3	256QAM	15	0	11.81	11.82	11.79	12.5		
Channel				20407	20525	20643		Tune-up limit (dBm)	
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	17.73	17.74	17.61	18.5		
1.4	QPSK	1	3	17.66	17.66	17.55			
1.4	QPSK	1	5	17.62	17.67	17.40			
1.4	QPSK	3	0	17.62	17.73	17.47			

1.4	QPSK	3	1	21.29	21.26	21.19	
1.4	QPSK	3	3	21.18	21.22	21.25	
1.4	QPSK	6	0	20.29	20.19	20.20	24
1.4	16QAM	1	0	20.36	20.24	20.17	
1.4	16QAM	1	3	20.36	20.54	20.32	
1.4	16QAM	1	5	20.34	20.31	20.23	
1.4	16QAM	3	0	20.39	20.32	20.34	
1.4	16QAM	3	1	20.38	20.33	20.27	
1.4	16QAM	3	3	20.39	20.39	20.37	
1.4	16QAM	6	0	19.50	19.36	19.33	23
1.4	64QAM	1	0	19.53	19.55	19.41	
1.4	64QAM	1	3	19.34	19.31	19.36	
1.4	64QAM	1	5	19.50	19.26	19.50	
1.4	64QAM	3	0	19.44	19.43	19.36	
1.4	64QAM	3	1	19.51	19.32	19.35	
1.4	64QAM	3	3	19.34	19.34	19.31	
1.4	64QAM	6	0	19.42	19.39	19.39	23
1.4	256QAM	1	0	15.50	15.64	15.52	
1.4	256QAM	1	3	15.40	15.38	15.39	
1.4	256QAM	1	5	15.54	15.30	15.51	
1.4	256QAM	3	0	15.46	15.39	15.39	
1.4	256QAM	3	1	15.62	15.42	15.43	
1.4	256QAM	3	3	15.43	15.40	15.34	
1.4	256QAM	6	0	15.38	15.35	15.37	19

1.4	QPSK	3	1	17.68	17.65	17.58	
1.4	QPSK	3	3	17.57	17.61	17.64	
1.4	QPSK	6	0	16.68	16.58	16.59	17.5
1.4	16QAM	1	0	16.75	16.63	16.56	
1.4	16QAM	1	3	16.75	16.93	16.71	
1.4	16QAM	1	5	16.73	16.70	16.62	
1.4	16QAM	3	0	16.78	16.71	16.73	
1.4	16QAM	3	1	16.77	16.72	16.66	
1.4	16QAM	3	3	16.78	16.78	16.76	
1.4	16QAM	6	0	15.89	15.75	15.72	16.5
1.4	64QAM	1	0	15.92	15.94	15.80	
1.4	64QAM	1	3	15.73	15.70	15.75	
1.4	64QAM	1	5	15.89	15.65	15.89	
1.4	64QAM	3	0	15.83	15.82	15.75	
1.4	64QAM	3	1	15.90	15.71	15.74	
1.4	64QAM	3	3	15.73	15.73	15.70	
1.4	64QAM	6	0	15.81	15.78	15.78	16.5
1.4	256QAM	1	0	11.89	12.03	11.91	
1.4	256QAM	1	3	11.79	11.77	11.78	
1.4	256QAM	1	5	11.93	11.69	11.90	
1.4	256QAM	3	0	11.85	11.78	11.78	
1.4	256QAM	3	1	12.01	11.81	11.82	
1.4	256QAM	3	3	11.82	11.79	11.73	
1.4	256QAM	6	0	11.77	11.74	11.76	12.5

Band 7 (2600MHz Band) (dBm)-ANT 5							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	14.07	14.13	14.09	
20	QPSK	1	49	13.99	14.06	14.11	
20	QPSK	1	99	14.10	14.11	14.12	
20	QPSK	50	0	13.20	13.33	13.32	14
20	QPSK	50	24	13.27	13.32	13.31	
20	QPSK	50	50	13.30	13.29	13.31	
20	QPSK	100	0	13.25	13.26	13.21	14
20	16QAM	1	0	13.21	13.15	13.20	
20	16QAM	1	49	13.28	13.27	13.19	
20	16QAM	1	99	13.29	13.34	13.30	13
20	16QAM	50	0	12.19	12.34	12.40	
20	16QAM	50	24	12.23	12.28	12.20	
20	16QAM	50	50	12.22	12.33	12.18	13
20	16QAM	100	0	12.21	12.26	12.31	
20	64QAM	1	0	12.24	12.28	12.32	
20	64QAM	1	49	12.28	12.34	12.09	13
20	64QAM	1	99	12.23	12.10	12.00	
20	64QAM	50	0	12.20	12.24	12.28	
20	64QAM	50	24	12.20	12.33	12.12	13
20	64QAM	50	50	12.17	12.32	12.26	
20	64QAM	100	0	12.25	12.24	12.14	
20	256QAM	1	0	8.28	8.32	8.36	9
20	256QAM	1	49	8.32	8.38	8.13	
20	256QAM	1	99	8.27	8.14	8.04	
20	256QAM	50	0	8.24	8.28	8.32	9
20	256QAM	50	24	8.24	8.37	8.16	
20	256QAM	50	50	8.21	8.36	8.30	
20	256QAM	100	0	8.29	8.28	8.18	Tune-up limit (dBm)
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	14.01	14.11	14.05	15
15	QPSK	1	37	13.91	13.98	14.03	
15	QPSK	1	74	14.03	14.08	14.10	
15	QPSK	36	0	13.17	13.32	13.24	14
15	QPSK	36	20	13.17	13.30	13.25	
15	QPSK	36	39	13.24	13.28	13.29	
15	QPSK	75	0	13.27	13.24	13.19	14
15	16QAM	1	0	13.17	13.14	13.12	
15	16QAM	1	37	13.23	13.18	13.18	
15	16QAM	1	74	13.26	13.33	13.20	13
15	16QAM	36	0	12.12	12.32	12.39	
15	16QAM	36	20	12.20	12.19	12.15	
15	16QAM	36	39	12.18	12.32	12.11	13
15	16QAM	75	0	12.19	12.25	12.30	
15	64QAM	1	0	12.20	12.18	12.30	
15	64QAM	1	37	12.19	12.29	12.05	13
15	64QAM	1	74	12.15	12.05	11.98	
15	64QAM	36	0	12.10	12.16	12.19	
15	64QAM	36	20	12.15	12.29	12.09	13
15	64QAM	36	39	12.07	12.28	12.25	
15	64QAM	75	0	12.24	12.16	12.12	
15	256QAM	1	0	8.25	8.27	8.30	9
15	256QAM	1	37	8.28	8.29	8.05	
15	256QAM	1	74	8.22	8.07	8.00	
15	256QAM	36	0	8.16	8.23	8.26	9
15	256QAM	36	20	8.22	8.33	8.13	
15	256QAM	36	39	8.19	8.29	8.28	
15	256QAM	75	0	8.28	8.26	8.17	Tune-up limit (dBm)
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	13.95	14.08	14.06	15
10	QPSK	1	25	13.95	14.04	14.01	
10	QPSK	1	49	14.02	14.02	14.05	
10	QPSK	25	0	13.12	13.31	13.22	14
10	QPSK	25	12	13.22	13.28	13.26	
10	QPSK	25	25	13.25	13.19	13.30	
10	QPSK	50	0	13.34	13.31	13.26	14
10	16QAM	1	0	13.13	13.11	13.12	
10	16QAM	1	25	13.24	13.25	13.09	
10	16QAM	1	49	13.23	13.25	13.28	13
10	16QAM	25	0	12.17	12.25	12.38	
10	16QAM	25	12	12.20	12.25	12.10	
10	16QAM	25	25	12.19	12.25	12.12	13
10	16QAM	50	0	12.16	12.25	12.30	
10	64QAM	1	0	12.23	12.26	12.31	
10	64QAM	1	25	12.19	12.29	12.06	13
10	64QAM	1	49	12.19	12.00	11.92	
10	64QAM	25	0	12.11	12.18	12.23	
10	64QAM	25	12	12.16	12.32	12.10	23
10	64QAM	25	25	12.14	12.22	12.20	
10	64QAM	50	0	12.18	12.23	12.06	
10	256QAM	1	0	8.18	8.22	8.29	19
10	256QAM	1	25	8.25	8.37	8.08	
10	256QAM	1	49	8.21	8.12	8.02	
10	256QAM	25	0	8.23	8.26	8.26	19
10	256QAM	25	12	8.21	8.30	8.09	
10	256QAM	25	25	8.15	8.28	8.24	
10	256QAM	50	0	8.21	8.18	8.10	Tune-up limit (dBm)
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	14.01	14.12	13.99	15
5	QPSK	1	12	13.96	14.02	14.08	
5	QPSK	1	24	14.04	14.07	14.06	
5	QPSK	12	0	13.17	13.29	13.25	15

Band 7 (2600MHz Band) (dBm)-ANT 0							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	14.15	14.21	14.17	15
20	QPSK	1	49	14.07	14.14	14.19	
20	QPSK	1	99	14.18	14.19	14.20	
20	QPSK	50	0	13.28	13.41	13.40	
20	QPSK	50	24	13.35	13.40	13.39	
20	QPSK	50	50	13.38	13.37	13.39	14
20	QPSK	100	0	13.33	13.35	13.30	
20	16QAM	1	0	13.29	13.23	13.28	
20	16QAM	1	49	13.36	13.35	13.27	
20	16QAM	1	99	13.37	13.42	13.38	
20	16QAM	50	0	12.27	12.42	12.48	13
20	16QAM	50	24	12.31	12.36	12.28	
20	16QAM	50	50	12.30	12.41	12.26	
20	16QAM	100	0	12.29	12.34	12.39	
20	64QAM	1	0	12.32	12.36	12.40	
20	64QAM	1	49	12.36	12.42	12.17	13
20	64QAM	1	99	12.31	12.18	12.08	
20	64QAM	50	0	12.28	12.32	12.36	
20	64QAM	50	24	12.28	12.41	12.20	
20	64QAM	50	50	12.25	12.40	12.34	
20	64QAM	100	0	12.33	12.32	12.22	9
20	256QAM	1	0	8.36	8.40	8.44	
20	256QAM	1	49	8.40	8.46	8.21	
20	256QAM	1	99	8.35	8.22	8.12	
20	256QAM	50	0	8.32	8.36	8.40	
20	256QAM	50	24	8.32	8.45	8.24	9
20	256QAM	50	50	8.29	8.44	8.38	
20	256QAM	100	0	8.37	8.36	8.26	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	14.09	14.19	14.13	15
15	QPSK	1	37	13.99	14.06	14.11	
15	QPSK	1	74	14.11	14.16	14.18	
15	QPSK	36	0	13.25	13.40	13.32	
15	QPSK	36	20	13.25	13.38	13.33	
15	QPSK	36	39	13.32	13.36	13.37	14
15	QPSK	75	0	13.35	13.32	13.27	
15	16QAM	1	0	13.25	13.22	13.20	
15	16QAM	1	37	13.31	13.26	13.26	
15	16QAM	1	74	13.34	13.41	13.28	
15	16QAM	36	0	12.20	12.40	12.47	13
15	16QAM	36	20	12.28	12.27	12.23	
15	16QAM	36	39	12.26	12.40	12.19	
15	16QAM	75	0	12.27	12.33	12.38	
15	64QAM	1	0	12.28	12.26	12.38	
15	64QAM	1	37	12.27	12.37	12.13	13
15	64QAM	1	74	12.23	12.13	12.06	
15	64QAM	36	0	12.18	12.24	12.27	
15	64QAM	36	20	12.23	12.37	12.17	
15	64QAM	36	39	12.15	12.36	12.33	
15	64QAM	75	0	12.32	12.24	12.20	9
15	256QAM	1	0	8.33	8.35	8.38	
15	256QAM	1	37	8.36	8.37	8.13	
15	256QAM	1	74	8.30	8.15	8.08	
15	256QAM	36	0	8.24	8.31	8.34	
15	256QAM	36	20	8.30	8.41	8.21	9
15	256QAM	36	39	8.27	8.37	8.36	
15	256QAM	75	0	8.36	8.34	8.25	
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	14.03	14.16	14.14	15
10	QPSK	1	25	14.03	14.12	14.09	
10	QPSK	1	49	14.10	14.10	14.13	
10	QPSK	25	0	13.20	13.39	13.30	
10	QPSK	25	12	13.30	13.36	13.34	
10	QPSK	25	25	13.33	13.27	13.38	14
10	QPSK	50	0	13.42	13.39	13.34	
10	16QAM	1	0	13.21	13.19	13.20	
10	16QAM	1	25	13.32	13.33	13.17	
10	16QAM	1	49	13.31	13.33	13.36	
10	16QAM	25	0	12.25	12.33	12.46	13
10	16QAM	25	12	12.28	12.33	12.18	
10	16QAM	25	25	12.27	12.33	12.20	
10	16QAM	50	0	12.24	12.33	12.38	
10	64QAM	1	0	12.31	12.34	12.39	
10	64QAM	1	25	12.27	12.37	12.14	13
10	64QAM	1	49	12.27	12.08	12.00	
10	64QAM	25	0	12.19	12.26	12.31	
10	64QAM	25	12	12.24	12.40	12.18	
10	64QAM	25	25	12.22	12.30	12.28	
10	64QAM	50	0	12.26	12.31	12.14	9
10	256QAM	1	0	8.26	8.30	8.37	
10	256QAM	1	25	8.33	8.45	8.16	
10	256QAM	1	49	8.29	8.20	8.10	
10	256QAM	25	0	8.31	8.34	8.34	
10	256QAM	25	12	8.29	8.38	8.17	9
10	256QAM	25	25	8.23	8.36	8.32	
10	256QAM	50	0	8.29	8.26	8.18	
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	14.09	14.20	14.07	15
5	QPSK	1	12	14.04	14.10	14.16	
5	QPSK	1	24	14.12	14.15	14.14	
5	QPSK	12	0	13.25	13.37	13.33	

5	QPSK	12	7	13.26	13.30	13.25	14
5	QPSK	12	13	13.22	13.25	13.28	
5	QPSK	25	0	13.27	13.30	13.20	
5	16QAM	1	0	13.20	13.06	13.13	14
5	16QAM	1	12	13.25	13.22	13.13	
5	16QAM	1	24	13.21	13.32	13.26	
5	16QAM	12	0	12.17	12.24	12.32	13
5	16QAM	12	7	12.15	12.24	12.14	
5	16QAM	12	13	12.14	12.24	12.11	
5	16QAM	25	0	12.12	12.16	12.25	13
5	64QAM	1	0	12.16	12.23	12.25	
5	64QAM	1	12	12.23	12.32	12.00	
5	64QAM	1	24	12.19	12.08	11.92	23
5	64QAM	12	0	12.16	12.16	12.22	
5	64QAM	12	7	12.10	12.27	12.02	
5	64QAM	12	13	12.16	12.27	12.16	19
5	64QAM	25	0	12.15	12.19	12.06	
5	256QAM	1	0	8.25	8.31	8.26	
5	256QAM	1	12	8.27	8.30	8.07	19
5	256QAM	1	24	8.23	8.13	7.96	
5	256QAM	12	0	8.19	8.20	8.26	
5	256QAM	12	7	8.15	8.27	8.09	19
5	256QAM	12	13	8.17	8.35	8.23	
5	256QAM	25	0	8.28	8.24	8.16	

5	QPSK	12	7	13.34	13.38	13.33	14
5	QPSK	12	13	13.30	13.33	13.36	
5	QPSK	25	0	13.35	13.38	13.28	
5	16QAM	1	0	13.28	13.14	13.21	14
5	16QAM	1	12	13.33	13.30	13.21	
5	16QAM	1	24	13.29	13.40	13.34	
5	16QAM	12	0	12.25	12.32	12.40	13
5	16QAM	12	7	12.23	12.32	12.22	
5	16QAM	12	13	12.22	12.32	12.19	
5	16QAM	25	0	12.20	12.24	12.33	13
5	64QAM	1	0	12.24	12.31	12.33	
5	64QAM	1	12	12.31	12.40	12.08	
5	64QAM	1	24	12.27	12.16	12.00	13
5	64QAM	12	0	12.24	12.24	12.30	
5	64QAM	12	7	12.18	12.35	12.10	
5	64QAM	12	13	12.24	12.35	12.24	9
5	64QAM	25	0	12.23	12.27	12.14	
5	256QAM	1	0	8.33	8.39	8.34	
5	256QAM	1	12	8.35	8.38	8.15	9
5	256QAM	1	24	8.31	8.21	8.04	
5	256QAM	12	0	8.27	8.28	8.34	
5	256QAM	12	7	8.23	8.35	8.17	9
5	256QAM	12	13	8.25	8.43	8.31	
5	256QAM	25	0	8.36	8.32	8.24	

Band 7 (2600MHz Band) (dBm)-ANT 6							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	15.8
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	15.10	15.16	15.12	15.8
20	QPSK	1	49	15.02	15.09	15.14	
20	QPSK	1	99	15.13	15.14	15.15	
20	QPSK	50	0	14.23	14.36	14.35	
20	QPSK	50	24	14.30	14.35	14.34	14.8
20	QPSK	50	50	14.33	14.32	14.34	
20	QPSK	100	0	14.38	14.39	14.31	
20	16QAM	1	0	14.24	14.18	14.23	
20	16QAM	1	49	14.31	14.30	14.22	14.8
20	16QAM	1	99	14.32	14.37	14.33	
20	16QAM	50	0	13.22	13.37	13.43	
20	16QAM	50	24	13.26	13.31	13.23	
20	16QAM	50	50	13.25	13.36	13.21	13.8
20	16QAM	100	0	13.24	13.29	13.34	
20	64QAM	1	0	13.27	13.31	13.35	
20	64QAM	1	49	13.31	13.37	13.12	
20	64QAM	1	99	13.26	13.13	13.03	13.8
20	64QAM	50	0	13.23	13.27	13.31	
20	64QAM	50	24	13.23	13.36	13.15	
20	64QAM	50	50	13.20	13.35	13.29	
20	64QAM	100	0	13.28	13.27	13.17	13.8
20	256QAM	1	0	9.31	9.35	9.39	
20	256QAM	1	49	9.35	9.41	9.16	
20	256QAM	1	99	9.30	9.17	9.07	
20	256QAM	50	0	9.27	9.31	9.35	9.8
20	256QAM	50	24	9.27	9.40	9.19	
20	256QAM	50	50	9.24	9.39	9.33	
20	256QAM	100	0	9.32	9.31	9.21	
Channel				20825	21100	21375	15.8
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	15.04	15.14	15.08	15.8
15	QPSK	1	37	14.94	15.01	15.06	
15	QPSK	1	74	15.06	15.11	15.13	
15	QPSK	36	0	14.20	14.35	14.27	
15	QPSK	36	20	14.20	14.33	14.28	14.8
15	QPSK	36	39	14.27	14.31	14.32	
15	QPSK	75	0	14.30	14.27	14.22	
15	16QAM	1	0	14.20	14.17	14.15	
15	16QAM	1	37	14.26	14.21	14.21	14.8
15	16QAM	1	74	14.29	14.36	14.23	
15	16QAM	36	0	13.15	13.35	13.42	
15	16QAM	36	20	13.23	13.22	13.18	
15	16QAM	36	39	13.21	13.35	13.14	13.8
15	16QAM	75	0	13.22	13.28	13.33	
15	64QAM	1	0	13.23	13.21	13.33	
15	64QAM	1	37	13.22	13.32	13.08	
15	64QAM	1	74	13.18	13.08	13.01	13.8
15	64QAM	36	0	13.13	13.19	13.22	
15	64QAM	36	20	13.18	13.32	13.12	
15	64QAM	36	39	13.10	13.31	13.28	
15	64QAM	75	0	13.27	13.19	13.15	13.8
15	256QAM	1	0	9.28	9.30	9.33	
15	256QAM	1	37	9.31	9.32	9.08	
15	256QAM	1	74	9.25	9.10	9.03	
15	256QAM	36	0	9.19	9.26	9.29	9.8
15	256QAM	36	20	9.25	9.36	9.16	
15	256QAM	36	39	9.22	9.32	9.31	
15	256QAM	75	0	9.31	9.29	9.20	
Channel				20800	21100	21400	15.8
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	14.98	15.11	15.09	15.8
10	QPSK	1	25	14.98	15.07	15.04	
10	QPSK	1	49	15.05	15.05	15.08	
10	QPSK	25	0	14.15	14.34	14.25	
10	QPSK	25	12	14.25	14.31	14.29	14.8
10	QPSK	25	25	14.28	14.22	14.33	
10	QPSK	50	0	14.37	14.34	14.29	
10	16QAM	1	0	14.16	14.14	14.15	
10	16QAM	1	25	14.27	14.28	14.12	14.8
10	16QAM	1	49	14.26	14.28	14.31	
10	16QAM	25	0	13.20	13.28	13.41	
10	16QAM	25	12	13.23	13.28	13.13	
10	16QAM	25	25	13.22	13.28	13.15	13.8
10	16QAM	50	0	13.19	13.28	13.33	
10	64QAM	1	0	13.26	13.29	13.34	
10	64QAM	1	25	13.22	13.32	13.09	
10	64QAM	1	49	13.22	13.03	12.95	13.8
10	64QAM	25	0	13.14	13.21	13.26	
10	64QAM	25	12	13.19	13.35	13.13	
10	64QAM	25	25	13.17	13.25	13.23	
10	64QAM	50	0	13.21	13.26	13.09	9.8
10	256QAM	1	0	9.21	9.25	9.32	
10	256QAM	1	25	9.28	9.40	9.11	
10	256QAM	1	49	9.24	9.15	9.05	
10	256QAM	25	0	9.26	9.29	9.29	9.8
10	256QAM	25	12	9.24	9.33	9.12	
10	256QAM	25	25	9.18	9.31	9.27	
10	256QAM	50	0	9.24	9.21	9.13	
Channel				20775	21100	21425	15.8
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	15.04	15.15	15.02	15.8
5	QPSK	1	12	14.99	15.05	15.11	
5	QPSK	1	24	15.07	15.10	15.09	
5	QPSK	12	0	14.20	14.32	14.28	

Band 7 (2600MHz Band) (dBm)-ANT 4							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dbm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	14.11	14.17	14.13	14.8
20	QPSK	1	49	14.03	14.10	14.15	
20	QPSK	1	99	14.14	14.15	14.16	
20	QPSK	50	0	13.24	13.37	13.36	
20	QPSK	50	24	13.31	13.36	13.35	13.8
20	QPSK	50	50	13.34	13.33	13.35	
20	QPSK	100	0	13.29	13.30	13.28	
20	16QAM	1	0	13.25	13.19	13.24	
20	16QAM	1	49	13.32	13.31	13.23	13.8
20	16QAM	1	99	13.33	13.38	13.34	
20	16QAM	50	0	12.23	12.38	12.44	
20	16QAM	50	24	12.27	12.32	12.24	
20	16QAM	50	50	12.26	12.37	12.22	12.8
20	16QAM	100	0	12.25	12.30	12.35	
20	64QAM	1	0	12.28	12.32	12.36	
20	64QAM	1	49	12.32	12.38	12.13	
20	64QAM	1	99	12.27	12.14	12.04	12.8
20	64QAM	50	0	12.24	12.28	12.32	
20	64QAM	50	24	12.24	12.37	12.16	
20	64QAM	50	50	12.21	12.36	12.30	
20	64QAM	100	0	12.29	12.28	12.18	8.8
20	256QAM	1	0	8.32	8.36	8.40	
20	256QAM	1	49	8.36	8.42	8.17	
20	256QAM	1	99	8.31	8.18	8.08	
20	256QAM	50	0	8.28	8.32	8.36	8.8
20	256QAM	50	24	8.28	8.41	8.20	
20	256QAM	50	50	8.25	8.40	8.34	
20	256QAM	100	0	8.33	8.32	8.22	
Channel				20825	21100	21375	Tune-up limit (dbm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	14.05	14.15	14.09	14.8
15	QPSK	1	37	13.95	14.02	14.07	
15	QPSK	1	74	14.07	14.12	14.14	
15	QPSK	36	0	13.21	13.36	13.28	
15	QPSK	36	20	13.21	13.34	13.29	13.8
15	QPSK	36	39	13.28	13.32	13.33	
15	QPSK	75	0	13.31	13.28	13.23	
15	16QAM	1	0	13.21	13.18	13.16	
15	16QAM	1	37	13.27	13.22	13.22	13.8
15	16QAM	1	74	13.30	13.37	13.24	
15	16QAM	36	0	12.16	12.36	12.43	
15	16QAM	36	20	12.24	12.23	12.19	
15	16QAM	36	39	12.22	12.36	12.15	12.8
15	16QAM	75	0	12.23	12.29	12.34	
15	64QAM	1	0	12.24	12.22	12.34	
15	64QAM	1	37	12.23	12.33	12.09	
15	64QAM	1	74	12.19	12.09	12.02	12.8
15	64QAM	36	0	12.14	12.20	12.23	
15	64QAM	36	20	12.19	12.33	12.13	
15	64QAM	36	39	12.11	12.32	12.29	
15	64QAM	75	0	12.28	12.20	12.16	8.8
15	256QAM	1	0	8.29	8.31	8.34	
15	256QAM	1	37	8.32	8.33	8.09	
15	256QAM	1	74	8.26	8.11	8.04	
15	256QAM	36	0	8.20	8.27	8.30	8.8
15	256QAM	36	20	8.26	8.37	8.17	
15	256QAM	36	39	8.23	8.33	8.32	
15	256QAM	75	0	8.32	8.30	8.21	
Channel				20800	21100	21400	Tune-up limit (dbm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	13.99	14.12	14.10	14.8
10	QPSK	1	25	13.99	14.08	14.05	
10	QPSK	1	49	14.06	14.06	14.09	
10	QPSK	25	0	13.16	13.35	13.26	
10	QPSK	25	12	13.26	13.32	13.30	13.8
10	QPSK	25	25	13.29	13.23	13.34	
10	QPSK	50	0	13.38	13.35	13.30	
10	16QAM	1	0	13.17	13.15	13.16	
10	16QAM	1	25	13.28	13.29	13.13	13.8
10	16QAM	1	49	13.27	13.29	13.32	
10	16QAM	25	0	12.21	12.29	12.42	
10	16QAM	25	12	12.24	12.29	12.14	
10	16QAM	25	25	12.23	12.29	12.16	12.8
10	16QAM	50	0	12.20	12.29	12.34	
10	64QAM	1	0	12.27	12.30	12.35	
10	64QAM	1	25	12.23	12.33	12.10	
10	64QAM	1	49	12.23	12.04	11.96	12.8
10	64QAM	25	0	12.15	12.22	12.27	
10	64QAM	25	12	12.20	12.36	12.14	
10	64QAM	25	25	12.18	12.26	12.24	
10	64QAM	50	0	12.22	12.27	12.10	8.8
10	256QAM	1	0	8.22	8.26	8.33	
10	256QAM	1	25	8.29	8.41	8.12	
10	256QAM	1	49	8.25	8.16	8.06	
10	256QAM	25	0	8.27	8.30	8.30	8.8
10	256QAM	25	12	8.25	8.34	8.13	
10	256QAM	25	25	8.19	8.32	8.28	
10	256QAM	50	0	8.25	8.22	8.14	
Channel				20775	21100	21425	Tune-up limit (dbm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	14.05	14.16	14.03	14.8
5	QPSK	1	12	14.00	14.06	14.12	
5	QPSK	1	24	14.08	14.11	14.10	
5	QPSK	12	0	13.21	13.33	13.29	

5	QPSK	12	7	14.29	14.33	14.28	14.8
5	QPSK	12	13	14.25	14.28	14.31	
5	QPSK	25	0	14.30	14.33	14.23	
5	16QAM	1	0	14.23	14.09	14.16	14.8
5	16QAM	1	12	14.28	14.25	14.16	
5	16QAM	1	24	14.24	14.35	14.29	
5	16QAM	12	0	13.20	13.27	13.35	13.8
5	16QAM	12	7	13.18	13.27	13.17	
5	16QAM	12	13	13.17	13.27	13.14	
5	16QAM	25	0	13.15	13.19	13.28	13.8
5	64QAM	1	0	13.19	13.26	13.28	
5	64QAM	1	12	13.26	13.35	13.03	
5	64QAM	1	24	13.22	13.11	12.95	13.8
5	64QAM	12	0	13.19	13.19	13.25	
5	64QAM	12	7	13.13	13.30	13.05	
5	64QAM	12	13	13.19	13.30	13.19	9.8
5	64QAM	25	0	13.18	13.22	13.09	
5	256QAM	1	0	9.28	9.34	9.29	
5	256QAM	1	12	9.30	9.33	9.10	9.8
5	256QAM	1	24	9.26	9.16	8.99	
5	256QAM	12	0	9.22	9.23	9.29	
5	256QAM	12	7	9.18	9.30	9.12	9.8
5	256QAM	12	13	9.20	9.38	9.26	
5	256QAM	25	0	9.31	9.27	9.19	

5	QPSK	12	7	13.30	13.34	13.29	13.8
5	QPSK	12	13	13.26	13.29	13.32	
5	QPSK	25	0	13.31	13.34	13.24	
5	16QAM	1	0	13.24	13.10	13.17	13.8
5	16QAM	1	12	13.29	13.26	13.17	
5	16QAM	1	24	13.25	13.36	13.30	
5	16QAM	12	0	12.21	12.28	12.36	12.8
5	16QAM	12	7	12.19	12.28	12.18	
5	16QAM	12	13	12.18	12.28	12.15	
5	16QAM	25	0	12.16	12.20	12.29	12.8
5	64QAM	1	0	12.20	12.27	12.29	
5	64QAM	1	12	12.27	12.36	12.04	
5	64QAM	1	24	12.23	12.12	11.96	12.8
5	64QAM	12	0	12.20	12.20	12.26	
5	64QAM	12	7	12.14	12.31	12.06	
5	64QAM	12	13	12.20	12.31	12.20	8.8
5	64QAM	25	0	12.19	12.23	12.10	
5	256QAM	1	0	8.29	8.35	8.30	
5	256QAM	1	12	8.31	8.34	8.11	8.8
5	256QAM	1	24	8.27	8.17	8.00	
5	256QAM	12	0	8.23	8.24	8.30	
5	256QAM	12	7	8.19	8.31	8.13	8.8
5	256QAM	12	13	8.21	8.39	8.27	
5	256QAM	25	0	8.32	8.28	8.20	

Band 12 (700MHz Low Band) (dBm)-ANT 1							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23080	23095	23130	24
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	23.33	23.38	23.26	24
10	QPSK	1	25	23.26	23.29	23.30	
10	QPSK	1	49	23.16	23.31	23.33	
10	QPSK	25	0	22.32	22.37	22.36	
10	QPSK	25	12	22.34	22.25	22.32	23
10	QPSK	25	25	22.34	22.29	22.26	
10	QPSK	50	0	22.28	22.27	22.33	
10	16QAM	1	0	22.52	22.49	22.36	
10	16QAM	1	25	22.27	22.34	22.34	23
10	16QAM	1	49	22.32	22.27	22.38	
10	16QAM	25	0	21.30	21.32	21.43	
10	16QAM	25	12	21.28	21.33	21.30	
10	16QAM	25	25	21.40	21.37	21.39	22
10	16QAM	50	0	21.44	21.38	21.35	
10	64QAM	1	0	21.44	21.39	21.29	
10	64QAM	1	25	21.50	21.45	21.43	
10	64QAM	1	49	21.56	21.58	21.52	22
10	64QAM	25	0	21.28	21.48	21.32	
10	64QAM	25	12	21.35	21.41	21.43	
10	64QAM	25	25	21.30	21.37	21.31	
10	64QAM	50	0	21.34	21.32	21.35	18
10	256QAM	1	0	17.28	17.23	17.13	
10	256QAM	1	25	17.34	17.29	17.27	
10	256QAM	1	49	17.40	17.42	17.36	
10	256QAM	25	0	17.12	17.32	17.16	18
10	256QAM	25	12	17.19	17.25	17.27	
10	256QAM	25	25	17.14	17.21	17.15	
10	256QAM	50	0	17.18	17.16	17.19	
Channel				23035	23095	23155	24
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	23.13	23.28	23.16	24
5	QPSK	1	12	23.21	23.28	23.21	
5	QPSK	1	24	23.15	23.26	23.27	
5	QPSK	12	0	22.29	22.30	22.32	
5	QPSK	12	7	22.25	22.20	22.29	23
5	QPSK	12	13	22.26	22.21	22.25	
5	QPSK	25	0	22.27	22.24	22.29	
5	16QAM	1	0	22.48	22.44	22.26	
5	16QAM	1	12	22.17	22.32	22.32	23
5	16QAM	1	24	22.27	22.26	22.31	
5	16QAM	12	0	21.21	21.30	21.35	
5	16QAM	12	7	21.27	21.25	21.22	
5	16QAM	12	13	21.32	21.29	21.33	22
5	16QAM	25	0	21.42	21.28	21.33	
5	64QAM	1	0	21.42	21.31	21.25	
5	64QAM	1	12	21.42	21.38	21.41	
5	64QAM	1	24	21.52	21.54	21.42	22
5	64QAM	12	0	21.24	21.43	21.29	
5	64QAM	12	7	21.28	21.38	21.36	
5	64QAM	12	13	21.26	21.32	21.22	
5	64QAM	25	0	21.33	21.29	21.34	18
5	256QAM	1	0	17.23	17.14	17.09	
5	256QAM	1	12	17.31	17.20	17.24	
5	256QAM	1	24	17.34	17.35	17.33	
5	256QAM	12	0	17.09	17.26	17.10	18
5	256QAM	12	7	17.14	17.23	17.17	
5	256QAM	12	13	17.10	17.13	17.08	
5	256QAM	25	0	17.12	17.09	17.12	
Channel				23025	23095	23165	24
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	23.18	23.36	23.24	24
3	QPSK	1	8	23.24	23.24	23.29	
3	QPSK	1	14	23.14	23.30	23.23	
3	QPSK	8	0	22.31	22.31	22.31	
3	QPSK	8	4	22.29	22.15	22.28	23
3	QPSK	8	7	22.25	22.24	22.19	
3	QPSK	15	0	22.22	22.24	22.28	
3	16QAM	1	0	22.45	22.44	22.26	
3	16QAM	1	8	22.22	22.27	22.32	23
3	16QAM	1	14	22.22	22.22	22.36	
3	16QAM	8	0	21.28	21.26	21.41	
3	16QAM	8	4	21.19	21.23	21.22	
3	16QAM	8	7	21.37	21.33	21.34	22
3	16QAM	15	0	21.43	21.33	21.25	
3	64QAM	1	0	21.40	21.34	21.25	
3	64QAM	1	8	21.47	21.44	21.35	
3	64QAM	1	14	21.49	21.51	21.45	22
3	64QAM	8	0	21.26	21.47	21.22	
3	64QAM	8	4	21.26	21.33	21.39	
3	64QAM	8	7	21.29	21.30	21.25	
3	64QAM	15	0	21.28	21.26	21.27	18
3	256QAM	1	0	17.24	17.18	17.07	
3	256QAM	1	8	17.27	17.21	17.26	
3	256QAM	1	14	17.35	17.35	17.33	
3	256QAM	8	0	17.04	17.28	17.10	18
3	256QAM	8	4	17.10	17.20	17.25	
3	256QAM	8	7	17.11	17.15	17.10	
3	256QAM	15	0	17.09	17.13	17.14	
Channel				23017	23095	23173	24
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	23.17	23.37	23.18	24
1.4	QPSK	1	3	23.24	23.23	23.27	
1.4	QPSK	1	5	23.15	23.21	23.26	
1.4	QPSK	3	0	23.28	23.32	23.32	

Band 12 (700MHz Low Band) (dBm)-ANT 0							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23060	23095	23130	19.3
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	18.48	18.53	18.41	19.3
10	QPSK	1	25	18.41	18.44	18.45	
10	QPSK	1	49	18.31	18.46	18.48	
10	QPSK	25	0	17.47	17.52	17.51	
10	QPSK	25	12	17.49	17.40	17.47	18.3
10	QPSK	25	25	17.49	17.44	17.41	
10	QPSK	50	0	17.43	17.42	17.48	
10	16QAM	1	0	17.67	17.64	17.51	
10	16QAM	1	25	17.42	17.49	17.49	18.3
10	16QAM	1	49	17.47	17.42	17.53	
10	16QAM	25	0	16.45	16.47	16.58	
10	16QAM	25	12	16.43	16.48	16.45	
10	16QAM	25	25	16.55	16.52	16.54	17.3
10	16QAM	50	0	16.59	16.53	16.50	
10	64QAM	1	0	16.59	16.54	16.44	
10	64QAM	1	25	16.65	16.60	16.58	
10	64QAM	1	49	16.71	16.73	16.67	17.3
10	64QAM	25	0	16.43	16.63	16.47	
10	64QAM	25	12	16.50	16.56	16.58	
10	64QAM	25	25	16.45	16.52	16.46	
10	64QAM	50	0	16.49	16.47	16.50	13.3
10	256QAM	1	0	12.43	12.38	12.28	
10	256QAM	1	25	12.49	12.44	12.42	
10	256QAM	1	49	12.55	12.57	12.51	
10	256QAM	25	0	12.27	12.47	12.31	13.3
10	256QAM	25	12	12.34	12.40	12.42	
10	256QAM	25	25	12.29	12.36	12.30	
10	256QAM	50	0	12.33	12.31	12.34	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	19.3
5	QPSK	1	0	18.28	18.43	18.31	
5	QPSK	1	12	18.36	18.43	18.36	19.3
5	QPSK	1	24	18.30	18.41	18.42	
5	QPSK	12	0	17.44	17.45	17.47	
5	QPSK	12	7	17.40	17.35	17.44	
5	QPSK	12	13	17.41	17.36	17.40	18.3
5	QPSK	25	0	17.42	17.39	17.44	
5	16QAM	1	0	17.63	17.59	17.41	
5	16QAM	1	12	17.32	17.47	17.47	
5	16QAM	1	24	17.42	17.41	17.46	18.3
5	16QAM	12	0	16.36	16.45	16.50	
5	16QAM	12	7	16.42	16.40	16.37	
5	16QAM	12	13	16.47	16.44	16.48	
5	16QAM	25	0	16.57	16.43	16.48	17.3
5	64QAM	1	0	16.57	16.46	16.40	
5	64QAM	1	12	16.57	16.53	16.56	
5	64QAM	1	24	16.67	16.69	16.57	
5	64QAM	12	0	16.39	16.58	16.44	17.3
5	64QAM	12	7	16.43	16.53	16.51	
5	64QAM	12	13	16.41	16.47	16.37	
5	64QAM	25	0	16.48	16.44	16.49	
5	256QAM	1	0	12.38	12.29	12.24	13.3
5	256QAM	1	12	12.46	12.35	12.39	
5	256QAM	1	24	12.49	12.50	12.48	
5	256QAM	12	0	12.24	12.41	12.25	
5	256QAM	12	7	12.29	12.38	12.32	13.3
5	256QAM	12	13	12.25	12.28	12.23	
5	256QAM	25	0	12.27	12.24	12.27	
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	19.3
3	QPSK	1	0	18.33	18.51	18.39	
3	QPSK	1	8	18.39	18.39	18.44	19.3
3	QPSK	1	14	18.29	18.45	18.38	
3	QPSK	8	0	17.46	17.46	17.46	
3	QPSK	8	4	17.44	17.30	17.43	
3	QPSK	8	7	17.40	17.39	17.34	18.3
3	QPSK	15	0	17.37	17.39	17.43	
3	16QAM	1	0	17.60	17.59	17.41	
3	16QAM	1	8	17.37	17.42	17.47	
3	16QAM	1	14	17.37	17.37	17.51	18.3
3	16QAM	8	0	16.43	16.41	16.56	
3	16QAM	8	4	16.34	16.38	16.37	
3	16QAM	8	7	16.52	16.48	16.49	
3	16QAM	15	0	16.58	16.48	16.40	17.3
3	64QAM	1	0	16.55	16.49	16.40	
3	64QAM	1	8	16.62	16.59	16.50	
3	64QAM	1	14	16.64	16.66	16.60	
3	64QAM	8	0	16.41	16.62	16.37	17.3
3	64QAM	8	4	16.41	16.48	16.54	
3	64QAM	8	7	16.44	16.45	16.40	
3	64QAM	15	0	16.43	16.41	16.42	
3	256QAM	1	0	12.39	12.33	12.22	13.3
3	256QAM	1	8	12.42	12.36	12.41	
3	256QAM	1	14	12.50	12.50	12.48	
3	256QAM	8	0	12.19	12.43	12.25	
3	256QAM	8	4	12.25	12.35	12.40	13.3
3	256QAM	8	7	12.26	12.30	12.25	
3	256QAM	15	0	12.24	12.28	12.29	
Channel				23017	23095	23173	
Frequency (MHz)				699.7	707.5	715.3	19.3
1.4	QPSK	1	0	18.32	18.52	18.33	
1.4	QPSK	1	3	18.39	18.38	18.42	19.3
1.4	QPSK	1	5	18.30	18.36	18.41	
1.4	QPSK	3	0	18.43	18.47	18.47	

1.4	QPSK	3	1	23.33	23.21	23.30	
1.4	QPSK	3	3	23.25	23.21	23.19	
1.4	QPSK	6	0	22.23	22.23	22.25	23
1.4	16QAM	1	0	22.47	22.42	22.34	
1.4	16QAM	1	3	22.20	22.25	22.27	
1.4	16QAM	1	5	22.31	22.17	22.35	
1.4	16QAM	3	0	22.21	22.31	22.35	23
1.4	16QAM	3	1	22.22	22.24	22.21	
1.4	16QAM	3	3	22.37	22.32	22.35	
1.4	16QAM	6	0	21.38	21.29	21.31	22
1.4	64QAM	1	0	21.42	21.31	21.21	
1.4	64QAM	1	3	21.42	21.37	21.39	
1.4	64QAM	1	5	21.55	21.53	21.46	
1.4	64QAM	3	0	21.26	21.41	21.31	
1.4	64QAM	3	1	21.26	21.34	21.42	
1.4	64QAM	3	3	21.25	21.33	21.21	
1.4	64QAM	6	0	21.32	21.22	21.34	22
1.4	256QAM	1	0	17.20	17.17	17.08	
1.4	256QAM	1	3	17.30	17.22	17.23	
1.4	256QAM	1	5	17.36	17.34	17.28	
1.4	256QAM	3	0	17.07	17.28	17.09	
1.4	256QAM	3	1	17.15	17.21	17.24	
1.4	256QAM	3	3	17.05	17.19	17.12	18
1.4	256QAM	6	0	17.13	17.09	17.18	

1.4	QPSK	3	1	18.48	18.36	18.45	
1.4	QPSK	3	3	18.40	18.36	18.34	
1.4	QPSK	6	0	17.38	17.38	17.40	18.3
1.4	16QAM	1	0	17.62	17.57	17.49	
1.4	16QAM	1	3	17.35	17.40	17.42	
1.4	16QAM	1	5	17.46	17.32	17.50	
1.4	16QAM	3	0	17.36	17.46	17.50	18.3
1.4	16QAM	3	1	17.37	17.39	17.36	
1.4	16QAM	3	3	17.52	17.47	17.50	
1.4	16QAM	6	0	16.53	16.44	16.46	17.3
1.4	64QAM	1	0	16.57	16.46	16.36	
1.4	64QAM	1	3	16.57	16.52	16.54	
1.4	64QAM	1	5	16.70	16.68	16.61	
1.4	64QAM	3	0	16.41	16.56	16.46	
1.4	64QAM	3	1	16.41	16.49	16.57	
1.4	64QAM	3	3	16.40	16.48	16.36	
1.4	64QAM	6	0	16.47	16.37	16.49	17.3
1.4	256QAM	1	0	12.35	12.32	12.23	
1.4	256QAM	1	3	12.45	12.37	12.38	
1.4	256QAM	1	5	12.51	12.49	12.43	
1.4	256QAM	3	0	12.22	12.43	12.24	
1.4	256QAM	3	1	12.30	12.36	12.39	
1.4	256QAM	3	3	12.20	12.34	12.27	
1.4	256QAM	6	0	12.28	12.24	12.33	13.3

Band 13(700MHz Band) (dBm)-ANT 0							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					23230		
Frequency (MHz)					782		
10	QPSK	1	0		16.23		17
10	QPSK	1	25		16.20		
10	QPSK	1	49		16.10		
10	QPSK	25	0		15.28		16
10	QPSK	25	12		15.20		
10	QPSK	25	25		15.21		
10	QPSK	50	0		15.22		16
10	16QAM	1	0		15.37		
10	16QAM	1	25		15.34		
10	16QAM	1	49		15.45		15
10	16QAM	25	0		14.31		
10	16QAM	25	12		14.31		
10	16QAM	25	25		14.23		15
10	16QAM	50	0		14.27		
10	64QAM	1	0		14.39		
10	64QAM	1	25		14.48		15
10	64QAM	1	49		14.42		
10	64QAM	25	0		14.29		
10	64QAM	25	12		14.26		11
10	64QAM	25	25		14.30		
10	64QAM	50	0		14.21		
10	256QAM	1	0		10.28		11
10	256QAM	1	25		10.37		
10	256QAM	1	49		10.31		
10	256QAM	25	0		10.18		11
10	256QAM	25	12		10.15		
10	256QAM	25	25		10.19		
10	256QAM	50	0		10.10		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	16.21	16.22	16.19	17
5	QPSK	1	12	16.16	16.12	16.18	
5	QPSK	1	24	16.03	16.00	16.09	
5	QPSK	12	0	15.26	15.22	15.23	16
5	QPSK	12	7	15.21	15.18	15.21	
5	QPSK	12	13	15.20	15.18	15.12	
5	QPSK	25	0	15.12	15.18	15.12	16
5	16QAM	1	0	15.35	15.36	15.35	
5	16QAM	1	12	15.26	15.32	15.26	
5	16QAM	1	24	15.39	15.36	15.37	15
5	16QAM	12	0	14.26	14.27	14.29	
5	16QAM	12	7	14.22	14.23	14.25	
5	16QAM	12	13	14.15	14.18	14.21	15
5	16QAM	25	0	14.24	14.17	14.24	
5	64QAM	1	0	14.37	14.31	14.37	
5	64QAM	1	12	14.39	14.44	14.46	15
5	64QAM	1	24	14.32	14.35	14.32	
5	64QAM	12	0	14.28	14.28	14.19	
5	64QAM	12	7	14.21	14.16	14.23	11
5	64QAM	12	13	14.28	14.26	14.23	
5	64QAM	25	0	14.15	14.18	14.17	
5	256QAM	1	0	10.18	10.20	10.26	11
5	256QAM	1	12	10.32	10.30	10.31	
5	256QAM	1	24	10.24	10.21	10.21	
5	256QAM	12	0	10.10	10.12	10.08	11
5	256QAM	12	7	10.09	10.13	10.11	
5	256QAM	12	13	10.15	10.17	10.15	
5	256QAM	25	0	10.06	10.09	10.06	

Band 17 (700MHz Band) (dBm)-ANT 1							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	24.21	24.23	24.08	25
10	QPSK	1	25	24.20	24.22	24.18	
10	QPSK	1	49	24.11	24.19	24.21	
10	QPSK	25	0	23.31	23.32	23.30	24
10	QPSK	25	12	23.28	23.27	23.27	
10	QPSK	25	25	23.29	23.23	23.24	
10	QPSK	50	0	23.30	23.28	23.28	24
10	16QAM	1	0	23.42	23.58	23.25	
10	16QAM	1	25	23.24	23.30	23.35	
10	16QAM	1	49	23.38	23.44	23.46	23
10	16QAM	25	0	22.31	22.35	22.23	
10	16QAM	25	12	22.37	22.39	22.38	
10	16QAM	25	25	22.39	22.33	22.32	23
10	16QAM	50	0	22.24	22.28	22.29	
10	64QAM	1	0	22.29	22.48	22.37	
10	64QAM	1	25	22.52	22.56	22.43	23
10	64QAM	1	49	22.37	22.36	22.34	
10	64QAM	25	0	22.25	22.37	22.26	
10	64QAM	25	12	22.24	22.31	22.28	19
10	64QAM	25	25	22.32	22.35	22.31	
10	64QAM	50	0	22.28	22.24	22.29	
10	256QAM	1	0	18.30	18.49	18.38	19
10	256QAM	1	25	18.53	18.57	18.44	
10	256QAM	1	49	18.38	18.37	18.35	
10	256QAM	25	0	18.26	18.38	18.27	19
10	256QAM	25	12	18.25	18.32	18.29	
10	256QAM	25	25	18.33	18.36	18.32	
10	256QAM	50	0	18.29	18.25	18.30	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	24.20	24.21	24.07	25
5	QPSK	1	12	24.13	24.16	24.17	
5	QPSK	1	24	24.08	24.12	24.15	
5	QPSK	12	0	23.24	23.27	23.27	24
5	QPSK	12	7	23.19	23.17	23.19	
5	QPSK	12	13	23.19	23.16	23.22	
5	QPSK	25	0	23.25	23.21	23.23	24
5	16QAM	1	0	23.39	23.48	23.18	
5	16QAM	1	12	23.23	23.23	23.25	
5	16QAM	1	24	23.29	23.37	23.36	23
5	16QAM	12	0	22.28	22.31	22.16	
5	16QAM	12	7	22.29	22.30	22.34	
5	16QAM	12	13	22.38	22.29	22.24	23
5	16QAM	25	0	22.20	22.27	22.20	
5	64QAM	1	0	22.26	22.47	22.33	
5	64QAM	1	12	22.51	22.51	22.35	23
5	64QAM	1	24	22.29	22.35	22.30	
5	64QAM	12	0	22.15	22.30	22.16	
5	64QAM	12	7	22.15	22.26	22.25	19
5	64QAM	12	13	22.29	22.31	22.22	
5	64QAM	25	0	22.19	22.23	22.27	
5	256QAM	1	0	18.22	18.47	18.31	19
5	256QAM	1	12	18.49	18.47	18.41	
5	256QAM	1	24	18.33	18.27	18.25	
5	256QAM	12	0	18.22	18.34	18.23	19
5	256QAM	12	7	18.21	18.22	18.24	
5	256QAM	12	13	18.32	18.29	18.24	
5	256QAM	25	0	18.22	18.17	18.20	



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Band 17 (700MHz Band) (dBm)-ANT 0								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				23780	23790	23800		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	23.58	23.60	23.45	24.3	
10	QPSK	1	25	23.57	23.59	23.55		
10	QPSK	1	49	23.48	23.56	23.58		
10	QPSK	25	0	22.68	22.69	22.67	23.3	
10	QPSK	25	12	22.65	22.64	22.64		
10	QPSK	25	25	22.66	22.60	22.61		
10	QPSK	50	0	22.67	22.65	22.65	23.3	
10	16QAM	1	0	22.79	22.95	22.62		
10	16QAM	1	25	22.61	22.67	22.72		
10	16QAM	1	49	22.75	22.81	22.83	22.3	
10	16QAM	25	0	21.68	21.72	21.60		
10	16QAM	25	12	21.74	21.76	21.75		
10	16QAM	25	25	21.76	21.70	21.69	22.3	
10	16QAM	50	0	21.61	21.65	21.66		
10	64QAM	1	0	21.66	21.85	21.74		
10	64QAM	1	25	21.89	21.93	21.80	22.3	
10	64QAM	1	49	21.74	21.73	21.71		
10	64QAM	25	0	21.62	21.74	21.63		
10	64QAM	25	12	21.61	21.68	21.65	22.3	
10	64QAM	25	25	21.69	21.72	21.68		
10	64QAM	50	0	21.65	21.61	21.66		
10	256QAM	1	0	17.67	17.86	17.75	18.3	
10	256QAM	1	25	17.90	17.94	17.81		
10	256QAM	1	49	17.75	17.74	17.72		
10	256QAM	25	0	17.63	17.75	17.64	18.3	
10	256QAM	25	12	17.62	17.69	17.66		
10	256QAM	25	25	17.70	17.73	17.69		
10	256QAM	50	0	17.66	17.62	17.67	Tune-up limit (dBm)	
Channel				23755	23790	23825		
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	23.57	23.58	23.44	24.3	
5	QPSK	1	12	23.50	23.53	23.54		
5	QPSK	1	24	23.45	23.49	23.52		
5	QPSK	12	0	22.61	22.64	22.64	23.3	
5	QPSK	12	7	22.56	22.54	22.56		
5	QPSK	12	13	22.56	22.53	22.59		
5	QPSK	25	0	22.62	22.58	22.60	23.3	
5	16QAM	1	0	22.76	22.85	22.55		
5	16QAM	1	12	22.60	22.60	22.62		
5	16QAM	1	24	22.66	22.74	22.73	22.3	
5	16QAM	12	0	21.65	21.68	21.53		
5	16QAM	12	7	21.66	21.67	21.71		
5	16QAM	12	13	21.75	21.66	21.61	22.3	
5	16QAM	25	0	21.57	21.64	21.57		
5	64QAM	1	0	21.63	21.84	21.70		
5	64QAM	1	12	21.88	21.88	21.72	22.3	
5	64QAM	1	24	21.66	21.72	21.67		
5	64QAM	12	0	21.52	21.67	21.53		
5	64QAM	12	7	21.52	21.63	21.62	22.3	
5	64QAM	12	13	21.66	21.68	21.59		
5	64QAM	25	0	21.56	21.60	21.64		
5	256QAM	1	0	17.59	17.84	17.68	18.3	
5	256QAM	1	12	17.86	17.84	17.78		
5	256QAM	1	24	17.70	17.64	17.62		
5	256QAM	12	0	17.59	17.71	17.60	18.3	
5	256QAM	12	7	17.58	17.59	17.61		
5	256QAM	12	13	17.69	17.66	17.61		
5	256QAM	25	0	17.59	17.54	17.57	Tune-up limit (dBm)	
Channel				23755	23790	23825		
Frequency (MHz)				706.5	710	713.5		

Band 18 (835MHz Band) (dBm)-ANT 1								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel					23925			
Frequency (MHz)					822.5			
15	QPSK	1	0		24.24		25	
15	QPSK	1	37		24.20			
15	QPSK	1	74		24.02			
15	QPSK	36	0		23.31		24	
15	QPSK	36	20		23.18			
15	QPSK	36	39		23.20			
15	QPSK	75	0		23.27		24	
15	16QAM	1	0		23.41			
15	16QAM	1	37		23.21			
15	16QAM	1	74		23.25		23	
15	16QAM	36	0		22.29			
15	16QAM	36	20		22.26			
15	16QAM	36	39		22.35		23	
15	16QAM	75	0		22.24			
15	64QAM	1	0		22.31			
15	64QAM	1	25		22.25		23	
15	64QAM	1	49		22.43			
15	64QAM	25	0		22.27			
15	64QAM	25	12		22.18		23	
15	64QAM	25	25		22.27			
15	64QAM	50	0		22.25			
15	256QAM	1	0		18.45		19	
15	256QAM	1	25		18.39			
15	256QAM	1	49		18.57			
15	256QAM	25	0		18.46		19	
15	256QAM	25	12		18.37			
15	256QAM	25	25		18.46			
15	256QAM	50	0		18.44		Tune-up limit (dBm)	
Channel				23900	23925	23950		
Frequency (MHz)				820	822.5	825		
10	QPSK	1	0	24.08	24.17	24.15	25	
10	QPSK	1	25	24.07	24.16	24.15		
10	QPSK	1	49	24.04	24.01	24.05		
10	QPSK	25	0	23.15	23.24	23.09	24	
10	QPSK	25	12	23.22	23.17	23.23		
10	QPSK	25	25	23.09	23.10	23.15		
10	QPSK	50	0	23.11	23.07	23.18	24	
10	16QAM	1	0	23.29	23.31	23.26		
10	16QAM	1	25	23.14	23.11	23.14		
10	16QAM	1	49	23.12	23.15	23.15	23	
10	16QAM	25	0	22.12	22.19	22.13		
10	16QAM	25	12	22.20	22.17	22.21		
10	16QAM	25	25	22.22	22.23	22.29	23	
10	16QAM	50	0	22.19	22.14	22.15		
10	64QAM	1	0	22.26	22.29	22.16	23	
10	64QAM	1	25	22.25	22.20	22.17		
10	64QAM	1	49	22.33	22.40	22.30		
10	64QAM	25	0	22.21	22.18	22.15	23	
10	64QAM	25	12	22.13	22.11	22.08		
10	64QAM	25	25	22.10	22.21	22.14		
10	64QAM	50	0	22.04	22.13	22.15	19	
10	256QAM	1	0	18.40	18.38	18.24		
10	256QAM	1	25	18.41	18.30	18.21		
10	256QAM	1	49	18.50	18.55	18.48	19	
10	256QAM	25	0	18.41	18.35	18.34		
10	256QAM	25	12	18.32	18.32	18.32		
10	256QAM	25	25	18.32	18.36	18.40	Tune-up limit (dBm)	
10	256QAM	50	0	18.22	18.43	18.35		
Channel				23875	23925	23975		
Frequency (MHz)				817.5	822.5	827.5		
5	QPSK	1	0	24.10	24.19	24.17	25	
5	QPSK	1	12	24.12	24.12	24.12		
5	QPSK	1	24	24.00	23.94	23.97		
5	QPSK	12	0	23.19	23.18	23.17	24	
5	QPSK	12	7	23.18	23.13	23.22		
5	QPSK	12	13	23.10	23.16	23.15		
5	QPSK	25	0	23.12	23.08	23.21	24	
5	16QAM	1	0	23.23	23.40	23.29		
5	16QAM	1	12	23.06	23.16	23.08		
5	16QAM	1	24	23.19	23.21	23.12	23	
5	16QAM	12	0	22.09	22.20	22.15		
5	16QAM	12	7	22.10	22.22	22.21		
5	16QAM	12	13	22.29	22.32	22.26	23	
5	16QAM	25	0	22.13	22.14	22.17		
5	64QAM	1	0	22.32	22.26	22.16		
5	64QAM	1	12	22.27	22.20	22.15	23	
5	64QAM	1	24	22.28	22.36	22.34		
5	64QAM	12	0	22.24	22.25	22.20		
5	64QAM	12	7	22.17	22.13	22.17	23	
5	64QAM	12	13	22.10	22.25	22.17		
5	64QAM	25	0	22.06	22.21	22.11		
5	256QAM	1	0	18.47	18.40	18.21	19	
5	256QAM	1	12	18.44	18.38	18.25		
5	256QAM	1	24	18.51	18.53	18.45		
5	256QAM	12	0	18.44	18.38	18.38	19	
5	256QAM	12	7	18.30	18.29	18.32		
5	256QAM	12	13	18.35	18.41	18.42		
5	256QAM	25	0	18.22	18.33	18.30	Tune-up limit (dBm)	
Channel				817.5	822.5	827.5		
Frequency (MHz)				817.5	822.5	827.5		



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Band 18 (835MHz Band) (dBm)-ANT 0							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					23925		
Frequency (MHz)					822.5		
15	QPSK	1	0		23.76		24.5
15	QPSK	1	37		23.72		
15	QPSK	1	74		23.54		
15	QPSK	36	0		22.83		23.5
15	QPSK	36	20		22.70		
15	QPSK	36	39		22.72		
15	QPSK	75	0		22.79		23.5
15	16QAM	1	0		22.93		
15	16QAM	1	37		22.73		
15	16QAM	1	74		22.77		22.5
15	16QAM	36	0		21.81		
15	16QAM	36	20		21.78		
15	16QAM	36	39		21.87		22.5
15	16QAM	75	0		21.76		
15	64QAM	1	0		21.83		
15	64QAM	1	25		21.77		22.5
15	64QAM	1	49		21.95		
15	64QAM	25	0		21.79		
15	64QAM	25	12		21.70		22.5
15	64QAM	25	25		21.79		
15	64QAM	50	0		21.77		
15	256QAM	1	0		17.97		18.5
15	256QAM	1	25		17.91		
15	256QAM	1	49		18.09		
15	256QAM	25	0		17.98		18.5
15	256QAM	25	12		17.89		
15	256QAM	25	25		17.98		
15	256QAM	50	0		17.96		
Channel				23900	23925	23950	Tune-up limit (dBm)
Frequency (MHz)				820	822.5	825	
10	QPSK	1	0	23.60	23.69	23.67	24.5
10	QPSK	1	25	23.59	23.68	23.67	
10	QPSK	1	49	23.56	23.53	23.57	
10	QPSK	25	0	22.67	22.76	22.61	23.5
10	QPSK	25	12	22.74	22.69	22.75	
10	QPSK	25	25	22.61	22.62	22.67	
10	QPSK	50	0	22.63	22.59	22.70	23.5
10	16QAM	1	0	22.81	22.83	22.78	
10	16QAM	1	25	22.66	22.63	22.66	
10	16QAM	1	49	22.64	22.67	22.67	22.5
10	16QAM	25	0	21.64	21.71	21.65	
10	16QAM	25	12	21.72	21.69	21.73	
10	16QAM	25	25	21.74	21.75	21.81	22.5
10	16QAM	50	0	21.71	21.66	21.67	
10	64QAM	1	0	21.78	21.81	21.68	
10	64QAM	1	25	21.77	21.72	21.69	22.5
10	64QAM	1	49	21.85	21.92	21.82	
10	64QAM	25	0	21.73	21.70	21.67	
10	64QAM	25	12	21.65	21.63	21.60	22.5
10	64QAM	25	25	21.62	21.73	21.66	
10	64QAM	50	0	21.56	21.65	21.67	
10	256QAM	1	0	17.92	17.90	17.76	18.5
10	256QAM	1	25	17.93	17.82	17.73	
10	256QAM	1	49	18.02	18.07	18.00	
10	256QAM	25	0	17.93	17.87	17.86	18.5
10	256QAM	25	12	17.84	17.84	17.84	
10	256QAM	25	25	17.84	17.88	17.92	
10	256QAM	50	0	17.74	17.95	17.87	
Channel				23675	23925	23975	Tune-up limit (dBm)
Frequency (MHz)				817.5	822.5	827.5	
5	QPSK	1	0	23.62	23.70	23.69	24.5
5	QPSK	1	12	23.64	23.64	23.64	
5	QPSK	1	24	23.52	23.46	23.49	
5	QPSK	12	0	22.71	22.70	22.69	23.5
5	QPSK	12	7	22.70	22.65	22.74	
5	QPSK	12	13	22.62	22.68	22.67	
5	QPSK	25	0	22.64	22.60	22.73	23.5
5	16QAM	1	0	22.75	22.92	22.81	
5	16QAM	1	12	22.58	22.68	22.60	
5	16QAM	1	24	22.71	22.73	22.64	22.5
5	16QAM	12	0	21.61	21.72	21.67	
5	16QAM	12	7	21.62	21.74	21.73	
5	16QAM	12	13	21.81	21.84	21.78	22.5
5	16QAM	25	0	21.65	21.66	21.69	
5	64QAM	1	0	21.84	21.78	21.68	
5	64QAM	1	12	21.79	21.72	21.67	22.5
5	64QAM	1	24	21.80	21.88	21.86	
5	64QAM	12	0	21.76	21.67	21.72	
5	64QAM	12	7	21.69	21.65	21.69	22.5
5	64QAM	12	13	21.62	21.77	21.69	
5	64QAM	25	0	21.58	21.73	21.63	
5	256QAM	1	0	17.99	17.92	17.73	18.5
5	256QAM	1	12	17.96	17.90	17.77	
5	256QAM	1	24	18.03	18.05	17.97	
5	256QAM	12	0	17.96	17.90	17.90	18.5
5	256QAM	12	7	17.82	17.81	17.84	
5	256QAM	12	13	17.87	17.93	17.94	
5	256QAM	25	0	17.74	17.85	17.82	

Band 19 (835MHz Band) (dBm)-ANT 1							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					24075		
Frequency (MHz)					837.5		
15	QPSK	1	0		24.28		25
15	QPSK	1	37		24.25		
15	QPSK	1	74		24.23		
15	QPSK	36	0		23.32		24
15	QPSK	36	20		23.27		
15	QPSK	36	39		23.23		
15	QPSK	75	0		23.30		24
15	16QAM	1	0		23.05		
15	16QAM	1	37		23.42		
15	16QAM	1	74		23.37		24
15	16QAM	36	0		22.31		
15	16QAM	36	20		22.38		
15	16QAM	36	39		22.33		23
15	16QAM	75	0		22.29		
15	64QAM	1	0		22.26		
15	64QAM	1	25		22.24		23
15	64QAM	1	49		22.40		
15	64QAM	25	0		22.28		
15	64QAM	25	12		22.36		23
15	64QAM	25	25		22.35		
15	64QAM	50	0		22.30		
15	256QAM	1	0		18.36		19
15	256QAM	1	25		18.34		
15	256QAM	1	49		18.50		
15	256QAM	25	0		18.38		19
15	256QAM	25	12		18.46		
15	256QAM	25	25		18.45		
15	256QAM	50	0		18.40		
Channel				24050	24075	24100	Tune-up limit (dBm)
Frequency (MHz)				835	837.5	840	
10	QPSK	1	0	24.13	24.25	24.06	25
10	QPSK	1	25	24.07	24.14	24.10	
10	QPSK	1	49	24.20	24.16	24.21	
10	QPSK	25	0	23.19	23.09	23.29	24
10	QPSK	25	12	23.22	23.23	23.20	
10	QPSK	25	25	23.24	23.29	23.23	
10	QPSK	50	0	23.08	23.21	23.21	24
10	16QAM	1	0	23.21	23.00	23.23	
10	16QAM	1	25	23.28	23.41	23.20	
10	16QAM	1	49	23.33	23.28	23.17	23
10	16QAM	25	0	22.31	22.27	22.34	
10	16QAM	25	12	22.19	22.32	22.35	
10	16QAM	25	25	22.27	22.32	22.30	23
10	16QAM	50	0	22.16	22.19	22.20	
10	64QAM	1	0	22.23	22.17	22.36	
10	64QAM	1	25	22.20	22.15	22.22	23
10	64QAM	1	49	22.29	22.32	22.08	
10	64QAM	25	0	22.20	22.17	22.21	
10	64QAM	25	12	22.31	22.29	22.31	23
10	64QAM	25	25	22.26	22.28	22.30	
10	64QAM	50	0	22.16	22.21	22.27	
10	256QAM	1	0	18.33	18.30	18.44	19
10	256QAM	1	25	18.26	18.28	18.34	
10	256QAM	1	49	18.42	18.48	18.25	
10	256QAM	25	0	18.37	18.29	18.34	19
10	256QAM	25	12	18.35	18.42	18.38	
10	256QAM	25	25	18.36	18.36	18.45	
10	256QAM	50	0	18.25	18.37	18.36	
Channel				24025	24075	24125	Tune-up limit (dBm)
Frequency (MHz)				832.5	837.5	842.5	
5	QPSK	1	0	24.16	24.24	24.22	25
5	QPSK	1	12	24.11	24.20	24.16	
5	QPSK	1	24	24.04	24.00	24.10	
5	QPSK	12	0	24.20	24.20	24.17	24
5	QPSK	12	7	24.21	24.09	24.31	
5	QPSK	12	13	24.12	24.20	24.15	
5	QPSK	25	0	23.08	23.14	23.20	24
5	16QAM	1	0	23.35	23.35	23.30	
5	16QAM	1	12	23.09	23.22	23.07	
5	16QAM	1	24	23.14	23.25	23.14	23
5	16QAM	12	0	23.07	23.29	23.20	
5	16QAM	12	7	23.16	23.16	23.19	
5	16QAM	12	13	23.27	23.27	23.26	23
5	16QAM	25	0	22.16	22.17	22.15	
5	64QAM	1	0	22.32	22.25	22.11	
5	64QAM	1	12	22.30	22.17	22.17	23
5	64QAM	1	24	22.40	22.33	22.36	
5	64QAM	12	0	22.21	22.22	22.23	
5	64QAM	12	7	22.19	22.11	22.17	23
5	64QAM	12	13	22.18	22.17	22.24	
5	64QAM	25	0	22.10	22.19	22.20	
5	256QAM	1	0	18.42	18.31	18.17	19
5	256QAM	1	12	18.42	18.32	18.22	
5	256QAM	1	24	18.48	18.40	18.41	
5	256QAM	12	0	18.29	18.34	18.40	19
5	256QAM	12	7	18.26	18.24	18.27	
5	256QAM	12	13	18.30	18.31	18.28	
5	256QAM	25	0	18.18	18.30	18.27	



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Band 19 (835MHz Band) (dBm)-ANT 0							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					24075		
Frequency (MHz)					837.5		
15	QPSK	1	0		23.84		24.5
15	QPSK	1	37		23.81		
15	QPSK	1	74		23.79		
15	QPSK	36	0		22.88		23.5
15	QPSK	36	20		22.83		
15	QPSK	36	39		22.79		
15	QPSK	75	0		22.86		23.5
15	16QAM	1	0		22.61		
15	16QAM	1	37		22.98		
15	16QAM	1	74		22.93		22.5
15	16QAM	36	0		21.87		
15	16QAM	36	20		21.94		
15	16QAM	36	39		21.89		22.5
15	16QAM	75	0		21.85		
15	64QAM	1	0		21.82		
15	64QAM	1	25		21.80		22.5
15	64QAM	1	49		21.96		
15	64QAM	25	0		21.84		
15	64QAM	25	12		21.92		22.5
15	64QAM	25	25		21.91		
15	64QAM	50	0		21.86		
15	256QAM	1	0		17.92		18.5
15	256QAM	1	25		17.90		
15	256QAM	1	49		18.06		
15	256QAM	25	0		17.94		18.5
15	256QAM	25	12		18.02		
15	256QAM	25	25		18.01		
15	256QAM	50	0		17.96		
Channel				24050	24075	24100	Tune-up limit (dBm)
Frequency (MHz)				835	837.5	840	
10	QPSK	1	0	23.69	23.81	23.62	24.5
10	QPSK	1	25	23.63	23.70	23.66	
10	QPSK	1	49	23.76	23.72	23.77	
10	QPSK	25	0	22.75	22.65	22.85	23.5
10	QPSK	25	12	22.78	22.79	22.76	
10	QPSK	25	25	22.80	22.85	22.79	
10	QPSK	50	0	22.64	22.77	22.77	23.5
10	16QAM	1	0	22.77	22.56	22.79	
10	16QAM	1	25	22.84	22.97	22.76	
10	16QAM	1	49	22.89	22.84	22.73	22.5
10	16QAM	25	0	21.87	21.83	21.90	
10	16QAM	25	12	21.75	21.88	21.91	
10	16QAM	25	25	21.83	21.88	21.86	22.5
10	16QAM	50	0	21.72	21.75	21.76	
10	64QAM	1	0	21.79	21.73	21.92	
10	64QAM	1	25	21.76	21.71	21.78	22.5
10	64QAM	1	49	21.85	21.88	21.64	
10	64QAM	25	0	21.76	21.73	21.77	
10	64QAM	25	12	21.87	21.85	21.87	22.5
10	64QAM	25	25	21.82	21.84	21.86	
10	64QAM	50	0	21.72	21.77	21.83	
10	256QAM	1	0	17.89	17.86	18.00	18.5
10	256QAM	1	25	17.82	17.84	17.90	
10	256QAM	1	49	17.98	18.04	17.81	
10	256QAM	25	0	17.93	17.85	17.90	18.5
10	256QAM	25	12	17.91	17.98	17.94	
10	256QAM	25	25	17.92	17.92	18.01	
10	256QAM	50	0	17.81	17.93	17.92	
Channel				24025	24075	24125	Tune-up limit (dBm)
Frequency (MHz)				832.5	837.5	842.5	
5	QPSK	1	0	23.72	23.80	23.78	24.5
5	QPSK	1	12	23.67	23.76	23.74	
5	QPSK	1	24	23.60	23.56	23.66	
5	QPSK	12	0	23.76	23.76	23.73	23.5
5	QPSK	12	7	23.77	23.65	23.87	
5	QPSK	12	13	23.68	23.76	23.71	
5	QPSK	25	0	22.64	22.70	22.76	23.5
5	16QAM	1	0	22.91	22.91	22.86	
5	16QAM	1	12	22.65	22.78	22.63	
5	16QAM	1	24	22.70	22.81	22.70	22.5
5	16QAM	12	0	22.63	22.85	22.76	
5	16QAM	12	7	22.72	22.72	22.75	
5	16QAM	12	13	22.83	22.83	22.82	22.5
5	16QAM	25	0	21.72	21.73	21.71	
5	64QAM	1	0	21.88	21.81	21.67	
5	64QAM	1	12	21.86	21.73	21.73	22.5
5	64QAM	1	24	21.96	21.89	21.92	
5	64QAM	12	0	21.77	21.76	21.79	
5	64QAM	12	7	21.75	21.67	21.73	22.5
5	64QAM	12	13	21.74	21.73	21.80	
5	64QAM	25	0	21.66	21.75	21.76	
5	256QAM	1	0	17.98	17.87	17.73	18.5
5	256QAM	1	12	17.98	17.88	17.78	
5	256QAM	1	24	18.04	17.96	17.97	
5	256QAM	12	0	17.85	17.90	17.96	18.5
5	256QAM	12	7	17.82	17.80	17.83	
5	256QAM	12	13	17.86	17.87	17.84	
5	256QAM	25	0	17.74	17.86	17.83	

Band 25 (1900MHz Band) (dBm)-ANT 5							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26140	26365	26590	
Frequency (MHz)				1860	1882.5	1905	
20	QPSK	1	0	14.78	14.84	14.76	15.5
20	QPSK	1	49	14.65	14.62	14.59	
20	QPSK	1	99	14.63	14.54	14.52	
20	QPSK	50	0	13.80	13.81	13.78	14.5
20	QPSK	50	24	13.77	13.73	13.75	
20	QPSK	50	50	13.76	13.67	13.69	
20	QPSK	100	0	13.75	13.76	13.75	14.5
20	16QAM	1	0	13.68	13.68	13.70	
20	16QAM	1	49	13.77	13.74	13.73	
20	16QAM	1	99	13.59	13.71	13.72	13.5
20	16QAM	50	0	12.80	12.65	12.66	
20	16QAM	50	24	12.70	12.69	12.59	
20	16QAM	50	50	12.65	12.63	12.64	13.5
20	16QAM	100	0	12.64	12.73	12.63	
20	64QAM	1	0	12.71	12.72	12.65	
20	64QAM	1	49	12.66	12.68	12.75	13.5
20	64QAM	1	99	12.73	12.70	12.68	
20	64QAM	50	0	12.69	12.64	12.67	
20	64QAM	50	24	12.69	12.75	12.66	13.5
20	64QAM	50	50	12.60	12.66	12.60	
20	64QAM	100	0	12.75	12.74	12.54	
20	256QAM	1	0	8.78	8.79	8.72	9.5
20	256QAM	1	49	8.73	8.75	8.82	
20	256QAM	1	99	8.80	8.77	8.75	
20	256QAM	50	0	8.76	8.71	8.74	9.5
20	256QAM	50	24	8.76	8.82	8.73	
20	256QAM	50	50	8.67	8.73	8.67	
20	256QAM	100	0	8.82	8.81	8.61	
Channel				26115	26365	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	QPSK	1	0	14.64	14.63	14.61	15.5
15	QPSK	1	37	14.57	14.58	14.55	
15	QPSK	1	74	14.58	14.48	14.42	
15	QPSK	36	0	13.81	13.57	13.68	14.5
15	QPSK	36	20	13.72	13.65	13.73	
15	QPSK	36	39	13.66	13.61	13.68	
15	QPSK	75	0	13.66	13.66	13.71	14.5
15	16QAM	1	0	13.63	13.57	13.58	
15	16QAM	1	37	13.72	13.62	13.66	
15	16QAM	1	74	13.54	13.68	13.61	13.5
15	16QAM	36	0	12.74	12.64	12.59	
15	16QAM	36	20	12.60	12.58	12.58	
15	16QAM	36	39	12.57	12.59	12.60	13.5
15	16QAM	75	0	12.58	12.71	12.61	
15	64QAM	1	0	12.59	12.62	12.58	
15	64QAM	1	37	12.60	12.56	12.72	13.5
15	64QAM	1	74	12.61	12.65	12.63	
15	64QAM	36	0	12.65	12.60	12.59	
15	64QAM	36	20	12.64	12.65	12.65	13.5
15	64QAM	36	39	12.53	12.62	12.56	
15	64QAM	75	0	12.72	12.69	12.44	
15	256QAM	1	0	8.71	8.75	8.68	9.5
15	256QAM	1	37	8.67	8.65	8.79	
15	256QAM	1	74	8.78	8.70	8.65	
15	256QAM	36	0	8.69	8.70	8.69	9.5
15	256QAM	36	20	8.68	8.76	8.65	
15	256QAM	36	39	8.65	8.71	8.56	
15	256QAM	75	0	8.75	8.73	8.60	
Channel				26090	26365	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	QPSK	1	0	14.63	14.61	14.61	15.5
10	QPSK	1	25	14.61	14.53	14.50	
10	QPSK	1	49	14.61	14.44	14.49	
10	QPSK	25	0	13.80	13.58	13.59	14.5
10	QPSK	25	12	13.74	13.63	13.67	
10	QPSK	25	25	13.67	13.63	13.64	
10	QPSK	50	0	13.67	13.71	13.73	14.5
10	16QAM	1	0	13.58	13.57	13.69	
10	16QAM	1	25	13.65	13.71	13.62	
10	16QAM	1	49	13.58	13.62	13.62	13.5
10	16QAM	25	0	12.74	12.63	12.60	
10	16QAM	25	12	12.58	12.64	12.51	13.5
10	16QAM	25	25	12.61	12.60	12.52	
10	16QAM	50	0	12.61	12.65	12.54	
10	64QAM	1	0	12.61	12.65	12.56	13.5
10	64QAM	1	25	12.55	12.58	12.64	
10	64QAM	1	49	12.67	12.59	12.63	
10	64QAM	25	0	12.62	12.55	12.55	13.5
10	64QAM	25	12	12.57	12.72	12.60	
10	64QAM	25	25	12.56	12.57	12.54	
10	64QAM	50	0	12.71	12.63	12.52	9.5
10	256QAM	1	0	8.72	8.72	8.60	
10	256QAM	1	25	8.69	8.65	8.77	
10	256QAM	1	49	8.78	8.75	8.74	9.5
10	256QAM	25	0	8.72	8.70	8.62	
10	256QAM	25	12	8.71	8.73	8.67	
10	256QAM	25	25	8.64	8.72	8.55	9.5
10	256QAM	50	0	8.78	8.73	8.54	
Channel				26065	26365	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	QPSK	1	0	14.60	14.63	14.60	15.5
5	QPSK	1	12	14.54	14.50	14.51	
5	QPSK	1	24	14.56	14.45	14.46	
5	QPSK	12	0	13.80	13.56	13.66	

5	QPSK	12	7	13.73	13.67	13.65	14.5
5	QPSK	12	13	13.72	13.57	13.61	
5	QPSK	25	0	13.74	13.62	13.64	
5	16QAM	1	0	13.57	13.60	13.61	14.5
5	16QAM	1	12	13.71	13.73	13.71	
5	16QAM	1	24	13.53	13.60	13.65	
5	16QAM	12	0	12.78	12.54	12.54	13.5
5	16QAM	12	7	12.60	12.64	12.47	
5	16QAM	12	13	12.57	12.53	12.58	
5	16QAM	25	0	12.60	12.63	12.52	13.5
5	64QAM	1	0	12.61	12.66	12.64	
5	64QAM	1	12	12.62	12.59	12.72	
5	64QAM	1	24	12.71	12.61	12.58	13.5
5	64QAM	12	0	12.65	12.57	12.59	
5	64QAM	12	7	12.64	12.63	12.62	
5	64QAM	12	13	12.58	12.60	12.54	9.5
5	64QAM	25	0	12.69	12.66	12.46	
5	256QAM	1	0	8.71	8.71	8.69	
5	256QAM	1	12	8.66	8.74	8.76	9.5
5	256QAM	1	24	8.69	8.74	8.72	
5	256QAM	12	0	8.64	8.60	8.68	
5	256QAM	12	7	8.72	8.75	8.61	9.5
5	256QAM	12	13	8.56	8.70	8.65	
5	256QAM	25	0	8.79	8.73	8.53	
Channel				26055	26365	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1882.5	1913.5	
3	QPSK	1	0	14.63	14.64	14.52	15.5
3	QPSK	1	8	14.53	14.55	14.53	
3	QPSK	1	14	14.57	14.52	14.50	
3	QPSK	8	0	13.75	13.59	13.59	14.5
3	QPSK	8	4	13.66	13.68	13.69	
3	QPSK	8	7	13.68	13.55	13.62	
3	QPSK	15	0	13.68	13.62	13.74	14.5
3	16QAM	1	0	13.64	13.64	13.69	
3	16QAM	1	8	13.75	13.68	13.68	
3	16QAM	1	14	13.51	13.67	13.69	13.5
3	16QAM	8	0	12.69	12.63	12.61	
3	16QAM	8	4	12.64	12.67	12.48	
3	16QAM	8	7	12.53	12.51	12.63	13.5
3	16QAM	15	0	12.55	12.67	12.54	
3	64QAM	1	0	12.60	12.65	12.62	
3	64QAM	1	8	12.65	12.62	12.71	13.5
3	64QAM	1	14	12.71	12.64	12.58	
3	64QAM	8	0	12.64	12.58	12.65	
3	64QAM	8	4	12.66	12.72	12.63	13.5
3	64QAM	8	7	12.57	12.56	12.56	
3	64QAM	15	0	12.74	12.68	12.50	
3	256QAM	1	0	8.74	8.75	8.61	9.5
3	256QAM	1	8	8.64	8.65	8.70	
3	256QAM	1	14	8.72	8.68	8.67	
3	256QAM	8	0	8.65	8.70	8.63	9.5
3	256QAM	8	4	8.64	8.76	8.68	
3	256QAM	8	7	8.64	8.71	8.55	
3	256QAM	15	0	8.72	8.78	8.51	
Channel				26047	26365	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	14.66	14.59	14.55	15.5
1.4	QPSK	1	3	14.55	14.58	14.54	
1.4	QPSK	1	5	14.54	14.44	14.51	
1.4	QPSK	3	0	14.73	14.58	14.68	14.5
1.4	QPSK	3	1	14.69	14.67	14.63	
1.4	QPSK	3	3	14.66	14.57	14.64	
1.4	QPSK	6	0	13.71	13.63	13.64	13.5
1.4	16QAM	1	0	13.56	13.65	13.59	
1.4	16QAM	1	3	13.73	13.68	13.62	
1.4	16QAM	1	5	13.47	13.64	13.71	12.5
1.4	16QAM	3	0	13.68	13.56	13.64	
1.4	16QAM	3	1	13.67	13.68	13.52	
1.4	16QAM	3	3	13.62	13.56	13.57	13.5
1.4	16QAM	6	0	12.52	12.63	12.53	
1.4	64QAM	1	0	12.68	12.65	12.60	
1.4	64QAM	1	3	12.59	12.62	12.70	13.5
1.4	64QAM	1	5	12.70	12.66	12.56	
1.4	64QAM	3	0	12.63	12.61	12.57	
1.4	64QAM	3	1	12.60	12.67	12.59	13.5
1.4	64QAM	3	3	12.53	12.58	12.51	
1.4	64QAM	6	0	12.67	12.69	12.44	
1.4	256QAM	1	0	8.67	8.74	8.61	9.5
1.4	256QAM	1	3	8.62	8.69	8.76	
1.4	256QAM	1	5	8.75	8.73	8.73	
1.4	256QAM	3	0	8.75	8.70	8.72	9.5
1.4	256QAM	3	1	8.70	8.80	8.63	
1.4	256QAM	3	3	8.64	8.61	8.62	
1.4	256QAM	6	0	8.74	8.72	8.57	9.5

Band 25 (1900MHz Band) (dBm)-ANT 0							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26140	26365	26590	
Frequency (MHz)				1860	1882.5	1905	
20	QPSK	1	0	15.92	15.98	15.90	
20	QPSK	1	49	15.79	15.76	15.73	16.6
20	QPSK	1	99	15.77	15.68	15.66	
20	QPSK	50	0	14.94	14.95	14.92	
20	QPSK	50	24	14.91	14.87	14.89	15.6
20	QPSK	50	50	14.90	14.81	14.83	
20	QPSK	100	0	14.89	14.91	14.89	
20	16QAM	1	0	14.82	14.82	14.84	15.6
20	16QAM	1	49	14.91	14.88	14.87	
20	16QAM	1	99	14.73	14.85	14.86	
20	16QAM	50	0	13.94	13.79	13.80	14.6
20	16QAM	50	24	13.84	13.83	13.73	
20	16QAM	50	50	13.79	13.77	13.78	
20	16QAM	100	0	13.78	13.87	13.77	14.6
20	64QAM	1	0	13.85	13.86	13.79	
20	64QAM	1	49	13.80	13.82	13.89	
20	64QAM	1	99	13.87	13.84	13.82	14.6
20	64QAM	50	0	13.83	13.78	13.81	
20	64QAM	50	24	13.83	13.89	13.80	
20	64QAM	50	50	13.74	13.80	13.74	14.6
20	64QAM	100	0	13.89	13.88	13.68	
20	256QAM	1	0	9.92	9.93	9.86	
20	256QAM	1	49	9.87	9.89	9.96	10.6
20	256QAM	1	99	9.94	9.91	9.89	
20	256QAM	50	0	9.90	9.85	9.88	
20	256QAM	50	24	9.90	9.96	9.87	10.6
20	256QAM	50	50	9.81	9.87	9.81	
20	256QAM	100	0	9.96	9.95	9.75	
Channel				26115	26365	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	QPSK	1	0	15.78	15.77	15.75	
15	QPSK	1	37	15.71	15.72	15.69	16.6
15	QPSK	1	74	15.72	15.62	15.56	
15	QPSK	36	0	14.95	14.71	14.82	
15	QPSK	36	20	14.86	14.79	14.87	15.6
15	QPSK	36	39	14.80	14.75	14.82	
15	QPSK	75	0	14.80	14.80	14.85	
15	16QAM	1	0	14.77	14.71	14.72	15.6
15	16QAM	1	37	14.86	14.76	14.80	
15	16QAM	1	74	14.68	14.62	14.75	
15	16QAM	36	0	13.88	13.78	13.73	14.6
15	16QAM	36	20	13.74	13.72	13.72	
15	16QAM	36	39	13.71	13.73	13.74	
15	16QAM	75	0	13.72	13.85	13.75	14.6
15	64QAM	1	0	13.73	13.76	13.72	
15	64QAM	1	37	13.74	13.70	13.86	
15	64QAM	1	74	13.75	13.79	13.77	14.6
15	64QAM	36	0	13.79	13.74	13.73	
15	64QAM	36	20	13.78	13.79	13.79	
15	64QAM	36	39	13.67	13.76	13.70	14.6
15	64QAM	75	0	13.86	13.83	13.58	
15	256QAM	1	0	9.85	9.89	9.82	
15	256QAM	1	37	9.81	9.79	9.93	10.6
15	256QAM	1	74	9.92	9.84	9.79	
15	256QAM	36	0	9.83	9.84	9.83	
15	256QAM	36	20	9.82	9.90	9.79	10.6
15	256QAM	36	39	9.79	9.85	9.70	
15	256QAM	75	0	9.89	9.87	9.74	
Channel				26090	26365	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	QPSK	1	0	15.77	15.75	15.75	
10	QPSK	1	25	15.75	15.67	15.64	16.6
10	QPSK	1	49	15.75	15.58	15.63	
10	QPSK	25	0	14.94	14.72	14.73	
10	QPSK	25	12	14.88	14.77	14.81	15.6
10	QPSK	25	25	14.81	14.77	14.78	
10	QPSK	50	0	14.81	14.85	14.87	
10	16QAM	1	0	14.72	14.71	14.83	15.6
10	16QAM	1	25	14.79	14.85	14.76	
10	16QAM	1	49	14.72	14.76	14.76	
10	16QAM	25	0	13.88	13.77	13.74	14.6
10	16QAM	25	12	13.72	13.78	13.65	
10	16QAM	25	25	13.75	13.74	13.66	
10	16QAM	50	0	13.75	13.79	13.68	14.6
10	64QAM	1	0	13.75	13.79	13.70	
10	64QAM	1	25	13.69	13.72	13.78	
10	64QAM	1	49	13.81	13.73	13.77	14.6
10	64QAM	25	0	13.76	13.69	13.69	
10	64QAM	25	12	13.71	13.86	13.74	
10	64QAM	25	25	13.70	13.71	13.68	14.6
10	64QAM	50	0	13.85	13.77	13.66	
10	256QAM	1	0	9.86	9.86	9.74	
10	256QAM	1	25	9.83	9.79	9.91	10.6
10	256QAM	1	49	9.92	9.89	9.88	
10	256QAM	25	0	9.86	9.84	9.76	
10	256QAM	25	12	9.85	9.87	9.81	10.6
10	256QAM	25	25	9.78	9.86	9.69	
10	256QAM	50	0	9.92	9.87	9.68	
Channel				26065	26365	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	QPSK	1	0	15.74	15.77	15.74	
5	QPSK	1	12	15.68	15.64	15.65	16.6
5	QPSK	1	24	15.70	15.59	15.60	
5	QPSK	12	0	14.94	14.70	14.80	

Band 25 (1900MHz Band) (dBm)-ANT 6							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26140	26365	26590	
Frequency (MHz)				1860	1882.5	1905	
20	QPSK	1	0	14.85	14.91	14.83	15.5
20	QPSK	1	49	14.72	14.69	14.66	
20	QPSK	1	99	14.70	14.61	14.59	
20	QPSK	50	0	13.87	13.88	13.85	14.5
20	QPSK	50	24	13.84	13.80	13.82	
20	QPSK	50	50	13.83	13.74	13.76	
20	QPSK	100	0	13.82	13.85	13.82	14.5
20	16QAM	1	0	13.75	13.75	13.77	
20	16QAM	1	49	13.84	13.81	13.80	
20	16QAM	1	99	13.66	13.78	13.79	13.5
20	16QAM	50	0	12.87	12.72	12.73	
20	16QAM	50	24	12.77	12.76	12.66	
20	16QAM	50	50	12.72	12.70	12.71	13.5
20	16QAM	100	0	12.71	12.80	12.70	
20	64QAM	1	0	12.78	12.79	12.72	
20	64QAM	1	49	12.73	12.75	12.82	13.5
20	64QAM	1	99	12.80	12.77	12.75	
20	64QAM	50	0	12.76	12.71	12.74	
20	64QAM	50	24	12.76	12.82	12.73	13.5
20	64QAM	50	50	12.67	12.73	12.67	
20	64QAM	100	0	12.82	12.81	12.61	
20	256QAM	1	0	8.85	8.86	8.79	9.5
20	256QAM	1	49	8.80	8.82	8.89	
20	256QAM	1	99	8.87	8.84	8.82	
20	256QAM	50	0	8.83	8.78	8.81	9.5
20	256QAM	50	24	8.83	8.89	8.80	
20	256QAM	50	50	8.74	8.80	8.74	
20	256QAM	100	0	8.89	8.88	8.68	
Channel				26115	26365	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	QPSK	1	0	14.71	14.70	14.68	15.5
15	QPSK	1	37	14.64	14.65	14.62	
15	QPSK	1	74	14.65	14.55	14.49	
15	QPSK	36	0	13.88	13.64	13.75	14.5
15	QPSK	36	20	13.79	13.72	13.80	
15	QPSK	36	39	13.73	13.68	13.75	
15	QPSK	75	0	13.73	13.73	13.78	14.5
15	16QAM	1	0	13.70	13.64	13.65	
15	16QAM	1	37	13.79	13.69	13.73	
15	16QAM	1	74	13.61	13.75	13.68	13.5
15	16QAM	36	0	12.81	12.71	12.66	
15	16QAM	36	20	12.67	12.65	12.65	
15	16QAM	36	39	12.64	12.66	12.67	13.5
15	16QAM	75	0	12.65	12.78	12.68	
15	64QAM	1	0	12.66	12.69	12.65	
15	64QAM	1	37	12.67	12.63	12.79	13.5
15	64QAM	1	74	12.68	12.72	12.70	
15	64QAM	36	0	12.72	12.67	12.66	
15	64QAM	36	20	12.71	12.72	12.72	13.5
15	64QAM	36	39	12.60	12.69	12.63	
15	64QAM	75	0	12.79	12.76	12.51	
15	256QAM	1	0	8.78	8.82	8.75	9.5
15	256QAM	1	37	8.74	8.72	8.86	
15	256QAM	1	74	8.85	8.77	8.72	
15	256QAM	36	0	8.76	8.77	8.76	9.5
15	256QAM	36	20	8.75	8.83	8.72	
15	256QAM	36	39	8.72	8.78	8.63	
15	256QAM	75	0	8.82	8.80	8.67	
Channel				26090	26365	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	QPSK	1	0	14.70	14.68	14.68	15.5
10	QPSK	1	25	14.68	14.60	14.57	
10	QPSK	1	49	14.68	14.51	14.56	
10	QPSK	25	0	13.87	13.65	13.66	14.5
10	QPSK	25	12	13.81	13.70	13.74	
10	QPSK	25	25	13.74	13.70	13.71	
10	QPSK	50	0	13.74	13.78	13.80	14.5
10	16QAM	1	0	13.65	13.64	13.76	
10	16QAM	1	25	13.72	13.78	13.69	
10	16QAM	1	49	13.65	13.69	13.69	13.5
10	16QAM	25	0	12.81	12.70	12.67	
10	16QAM	25	12	12.65	12.71	12.58	
10	16QAM	25	25	12.68	12.67	12.59	13.5
10	16QAM	50	0	12.68	12.72	12.61	
10	64QAM	1	0	12.68	12.72	12.63	
10	64QAM	1	25	12.62	12.65	12.71	13.5
10	64QAM	1	49	12.74	12.66	12.70	
10	64QAM	25	0	12.69	12.62	12.62	
10	64QAM	25	12	12.64	12.79	12.67	13.5
10	64QAM	25	25	12.63	12.64	12.61	
10	64QAM	50	0	12.78	12.70	12.59	
10	256QAM	1	0	8.79	8.79	8.67	9.5
10	256QAM	1	25	8.76	8.72	8.84	
10	256QAM	1	49	8.85	8.82	8.81	
10	256QAM	25	0	8.79	8.77	8.69	9.5
10	256QAM	25	12	8.78	8.80	8.74	
10	256QAM	25	25	8.71	8.79	8.62	
10	256QAM	50	0	8.85	8.80	8.61	
Channel				26065	26365	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	QPSK	1	0	14.67	14.70	14.67	15.5
5	QPSK	1	12	14.61	14.57	14.58	
5	QPSK	1	24	14.63	14.52	14.53	
5	QPSK	12	0	13.87	13.63	13.73	

5	QPSK	12	7	14.87	14.81	14.79	15.6
5	QPSK	12	13	14.86	14.71	14.75	
5	QPSK	25	0	14.88	14.76	14.78	
5	16QAM	1	0	14.71	14.74	14.75	15.6
5	16QAM	1	12	14.85	14.87	14.85	
5	16QAM	1	24	14.67	14.74	14.79	
5	16QAM	12	0	13.92	13.68	13.68	14.6
5	16QAM	12	7	13.74	13.78	13.61	
5	16QAM	12	13	13.71	13.67	13.72	
5	16QAM	25	0	13.74	13.77	13.66	14.6
5	64QAM	1	0	13.75	13.80	13.78	
5	64QAM	1	12	13.76	13.73	13.86	
5	64QAM	1	24	13.85	13.75	13.72	14.6
5	64QAM	12	0	13.79	13.71	13.73	
5	64QAM	12	7	13.78	13.77	13.76	
5	64QAM	12	13	13.72	13.74	13.68	10.6
5	64QAM	25	0	13.83	13.80	13.60	
5	256QAM	1	0	9.85	9.85	9.83	
5	256QAM	1	12	9.80	9.88	9.90	10.6
5	256QAM	1	24	9.83	9.88	9.86	
5	256QAM	12	0	9.78	9.74	9.82	
5	256QAM	12	7	9.86	9.89	9.75	10.6
5	256QAM	12	13	9.70	9.84	9.79	
5	256QAM	25	0	9.93	9.87	9.67	
Channel				26055	26365	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1882.5	1913.5	
3	QPSK	1	0	15.77	15.78	15.66	16.6
3	QPSK	1	8	15.67	15.69	15.67	
3	QPSK	1	14	15.71	15.66	15.64	
3	QPSK	8	0	14.89	14.73	14.73	15.6
3	QPSK	8	4	14.80	14.82	14.83	
3	QPSK	8	7	14.82	14.69	14.76	
3	QPSK	15	0	14.82	14.76	14.88	15.6
3	16QAM	1	0	14.78	14.78	14.83	
3	16QAM	1	8	14.89	14.82	14.82	
3	16QAM	1	14	14.65	14.81	14.83	14.6
3	16QAM	8	0	13.83	13.77	13.75	
3	16QAM	8	4	13.78	13.81	13.62	
3	16QAM	8	7	13.67	13.65	13.77	14.6
3	16QAM	15	0	13.69	13.81	13.68	
3	64QAM	1	0	13.74	13.79	13.76	
3	64QAM	1	8	13.79	13.76	13.85	14.6
3	64QAM	1	14	13.85	13.78	13.72	
3	64QAM	8	0	13.78	13.72	13.79	
3	64QAM	8	4	13.80	13.86	13.77	10.6
3	64QAM	8	7	13.71	13.70	13.70	
3	64QAM	15	0	13.88	13.82	13.64	
3	256QAM	1	0	9.88	9.89	9.75	10.6
3	256QAM	1	8	9.78	9.79	9.84	
3	256QAM	1	14	9.86	9.82	9.81	
3	256QAM	8	0	9.79	9.84	9.77	10.6
3	256QAM	8	4	9.78	9.90	9.82	
3	256QAM	8	7	9.78	9.85	9.69	
3	256QAM	15	0	9.86	9.92	9.65	Tune-up limit (dBm)
Channel				26047	26365	26683	
Frequency (MHz)				1850.7	1882.5	1914.3	Tune-up limit (dBm)
1.4	QPSK	1	0	15.80	15.73	15.69	
1.4	QPSK	1	3	15.69	15.72	15.68	16.6
1.4	QPSK	1	5	15.68	15.58	15.65	
1.4	QPSK	3	0	15.87	15.72	15.82	
1.4	QPSK	3	1	15.83	15.81	15.77	
1.4	QPSK	3	3	15.80	15.71	15.78	
1.4	QPSK	6	0	14.85	14.77	14.78	15.6
1.4	16QAM	1	0	14.70	14.79	14.73	
1.4	16QAM	1	3	14.87	14.82	14.76	
1.4	16QAM	1	5	14.61	14.78	14.85	22.1
1.4	16QAM	3	0	14.82	14.70	14.78	
1.4	16QAM	3	1	14.81	14.82	14.66	
1.4	16QAM	3	3	14.76	14.70	14.71	21.1
1.4	16QAM	6	0	13.66	13.77	13.67	
1.4	64QAM	1	0	13.82	13.79	13.74	
1.4	64QAM	1	3	13.73	13.76	13.84	14.6
1.4	64QAM	1	5	13.84	13.80	13.70	
1.4	64QAM	3	0	13.77	13.75	13.71	
1.4	64QAM	3	1	13.74	13.81	13.73	
1.4	64QAM	3	3	13.67	13.72	13.65	
1.4	64QAM	6	0	13.81	13.83	13.58	14.6
1.4	256QAM	1	0	9.81	9.88	9.75	
1.4	256QAM	1	3	9.76	9.83	9.90	
1.4	256QAM	1	5	9.89	9.87	9.87	10.6
1.4	256QAM	3	0	9.89	9.84	9.86	
1.4	256QAM	3	1	9.84	9.94	9.77	
1.4	256QAM	3	3	9.78	9.75	9.76	
1.4	256QAM	6	0	9.88	9.86	9.71	

5	QPSK	12	7	13.80	13.74	13.72	14.5
5	QPSK	12	13	13.79	13.64	13.68	
5	QPSK	25	0	13.81	13.69	13.71	
5	16QAM	1	0	13.64	13.67	13.68	14.5
5	16QAM	1	12	13.78	13.80	13.78	
5	16QAM	1	24	13.60	13.67	13.72	
5	16QAM	12	0	12.85	12.61	12.61	13.5
5	16QAM	12	7	12.67	12.71	12.54	
5	16QAM	12	13	12.64	12.60	12.65	
5	16QAM	25	0	12.67	12.70	12.59	13.5
5	64QAM	1	0	12.68	12.73	12.71	
5	64QAM	1	12	12.69	12.66	12.79	
5	64QAM	1	24	12.78	12.68	12.65	13.5
5	64QAM	12	0	12.72	12.64	12.66	
5	64QAM	12	7	12.71	12.70	12.69	
5	64QAM	12	13	12.65	12.67	12.61	13.5
5	64QAM	25	0	12.76	12.73	12.53	
5	256QAM	1	0	8.78	8.78	8.76	
5	256QAM	1	12	8.73	8.81	8.83	9.5
5	256QAM	1	24	8.76	8.81	8.79	
5	256QAM	12	0	8.71	8.67	8.75	
5	256QAM	12	7	8.79	8.82	8.68	9.5
5	256QAM	12	13	8.63	8.77	8.72	
5	256QAM	25	0	8.86	8.80	8.60	
Channel				26055	26365	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1882.5	1913.5	
3	QPSK	1	0	14.70	14.71	14.59	15.5
3	QPSK	1	8	14.60	14.62	14.60	
3	QPSK	1	14	14.64	14.59	14.57	
3	QPSK	8	0	13.82	13.66	13.66	14.5
3	QPSK	8	4	13.73	13.75	13.76	
3	QPSK	8	7	13.75	13.62	13.69	
3	QPSK	15	0	13.75	13.69	13.81	14.5
3	16QAM	1	0	13.71	13.71	13.76	
3	16QAM	1	8	13.82	13.75	13.75	
3	16QAM	1	14	13.58	13.74	13.76	13.5
3	16QAM	8	0	12.76	12.70	12.68	
3	16QAM	8	4	12.71	12.74	12.55	
3	16QAM	8	7	12.60	12.58	12.70	13.5
3	16QAM	15	0	12.62	12.74	12.61	
3	64QAM	1	0	12.67	12.72	12.69	
3	64QAM	1	8	12.72	12.69	12.78	13.5
3	64QAM	1	14	12.78	12.71	12.65	
3	64QAM	8	0	12.71	12.65	12.72	
3	64QAM	8	4	12.73	12.79	12.70	13.5
3	64QAM	8	7	12.64	12.63	12.63	
3	64QAM	15	0	12.81	12.75	12.57	
3	256QAM	1	0	8.81	8.82	8.68	9.5
3	256QAM	1	8	8.71	8.72	8.77	
3	256QAM	1	14	8.79	8.75	8.74	
3	256QAM	8	0	8.72	8.77	8.70	9.5
3	256QAM	8	4	8.71	8.83	8.75	
3	256QAM	8	7	8.71	8.78	8.62	
3	256QAM	15	0	8.79	8.85	8.58	Tune-up limit (dBm)
Channel				26047	26365	26683	
Frequency (MHz)				1850.7	1882.5	1914.3	Tune-up limit (dBm)
1.4	QPSK	1	0	14.73	14.66	14.62	
1.4	QPSK	1	3	14.62	14.65	14.61	15.5
1.4	QPSK	1	5	14.61	14.51	14.58	
1.4	QPSK	3	0	14.80	14.65	14.75	
1.4	QPSK	3	1	14.76	14.74	14.70	
1.4	QPSK	3	3	14.73	14.64	14.71	
1.4	QPSK	6	0	13.78	13.70	13.71	14.5
1.4	16QAM	1	0	13.63	13.72	13.66	
1.4	16QAM	1	3	13.80	13.75	13.69	
1.4	16QAM	1	5	13.54	13.71	13.78	22.8
1.4	16QAM	3	0	13.75	13.63	13.71	
1.4	16QAM	3	1	13.74	13.75	13.59	
1.4	16QAM	3	3	13.69	13.63	13.64	21.8
1.4	16QAM	6	0	12.59	12.70	12.60	
1.4	64QAM	1	0	12.75	12.72	12.67	
1.4	64QAM	1	3	12.66	12.69	12.77	13.5
1.4	64QAM	1	5	12.77	12.73	12.63	
1.4	64QAM	3	0	12.70	12.68	12.64	
1.4	64QAM	3	1	12.67	12.74	12.66	
1.4	64QAM	3	3	12.60	12.65	12.58	
1.4	64QAM	6	0	12.74	12.76	12.51	13.5
1.4	256QAM	1	0	8.74	8.81	8.68	
1.4	256QAM	1	3	8.69	8.76	8.83	
1.4	256QAM	1	5	8.82	8.80	8.80	9.5
1.4	256QAM	3	0	8.82	8.77	8.79	
1.4	256QAM	3	1	8.77	8.87	8.70	
1.4	256QAM	3	3	8.71	8.68	8.69	9.5
1.4	256QAM	6	0	8.81	8.79	8.64	

Band 25 (1900MHz Band) (dBm)-ANT 4							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26140	26365	26590	
Frequency (MHz)				1860	1882.5	1905	
20	QPSK	1	0	12.86	12.92	12.84	13.6
20	QPSK	1	49	12.73	12.70	12.67	
20	QPSK	1	99	12.71	12.62	12.60	
20	QPSK	50	0	11.88	11.89	11.86	12.6
20	QPSK	50	24	11.85	11.81	11.83	
20	QPSK	50	50	11.84	11.75	11.77	
20	QPSK	100	0	11.83	11.85	11.83	12.6
20	16QAM	1	0	11.76	11.76	11.78	
20	16QAM	1	49	11.85	11.82	11.81	
20	16QAM	1	99	11.67	11.79	11.80	11.6
20	16QAM	50	0	10.88	10.73	10.74	
20	16QAM	50	24	10.78	10.77	10.67	
20	16QAM	50	50	10.73	10.71	10.72	11.6
20	16QAM	100	0	10.72	10.81	10.71	
20	64QAM	1	0	10.79	10.80	10.73	
20	64QAM	1	49	10.74	10.76	10.83	11.6
20	64QAM	1	99	10.81	10.78	10.76	
20	64QAM	50	0	10.77	10.72	10.75	
20	64QAM	50	24	10.77	10.83	10.74	11.6
20	64QAM	50	50	10.68	10.74	10.68	
20	64QAM	100	0	10.83	10.82	10.62	
20	256QAM	1	0	6.86	6.87	6.80	7.6
20	256QAM	1	49	6.81	6.83	6.90	
20	256QAM	1	99	6.88	6.85	6.83	
20	256QAM	50	0	6.84	6.79	6.82	7.6
20	256QAM	50	24	6.84	6.90	6.81	
20	256QAM	50	50	6.75	6.81	6.75	
20	256QAM	100	0	6.90	6.89	6.69	
Channel				26115	26365	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	QPSK	1	0	12.72	12.71	12.69	13.6
15	QPSK	1	37	12.65	12.66	12.63	
15	QPSK	1	74	12.66	12.56	12.50	
15	QPSK	36	0	11.89	11.65	11.76	12.6
15	QPSK	36	20	11.80	11.73	11.81	
15	QPSK	36	39	11.74	11.69	11.76	
15	QPSK	75	0	11.74	11.74	11.79	12.6
15	16QAM	1	0	11.71	11.65	11.66	
15	16QAM	1	37	11.80	11.70	11.74	
15	16QAM	1	74	11.62	11.76	11.69	11.6
15	16QAM	36	0	10.82	10.72	10.67	
15	16QAM	36	20	10.68	10.66	10.66	
15	16QAM	36	39	10.65	10.67	10.68	11.6
15	16QAM	75	0	10.66	10.79	10.69	
15	64QAM	1	0	10.67	10.70	10.66	
15	64QAM	1	37	10.68	10.64	10.80	11.6
15	64QAM	1	74	10.69	10.73	10.71	
15	64QAM	36	0	10.73	10.68	10.67	
15	64QAM	36	20	10.72	10.73	10.73	11.6
15	64QAM	36	39	10.61	10.70	10.64	
15	64QAM	75	0	10.80	10.77	10.52	
15	256QAM	1	0	6.79	6.83	6.76	7.6
15	256QAM	1	37	6.75	6.73	6.87	
15	256QAM	1	74	6.86	6.78	6.73	
15	256QAM	36	0	6.77	6.78	6.77	7.6
15	256QAM	36	20	6.76	6.84	6.73	
15	256QAM	36	39	6.73	6.79	6.64	
15	256QAM	75	0	6.83	6.81	6.68	
Channel				26090	26365	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	QPSK	1	0	12.71	12.69	12.69	13.6
10	QPSK	1	25	12.69	12.61	12.58	
10	QPSK	1	49	12.69	12.52	12.57	
10	QPSK	25	0	11.88	11.66	11.67	12.6
10	QPSK	25	12	11.82	11.71	11.75	
10	QPSK	25	25	11.75	11.71	11.72	
10	QPSK	50	0	11.75	11.79	11.81	12.6
10	16QAM	1	0	11.66	11.65	11.77	
10	16QAM	1	25	11.73	11.79	11.70	
10	16QAM	1	49	11.66	11.70	11.70	11.6
10	16QAM	25	0	10.82	10.71	10.68	
10	16QAM	25	12	10.66	10.72	10.59	
10	16QAM	25	25	10.69	10.68	10.60	11.6
10	16QAM	50	0	10.69	10.73	10.62	
10	64QAM	1	0	10.69	10.73	10.64	
10	64QAM	1	25	10.63	10.66	10.72	11.6
10	64QAM	1	49	10.75	10.67	10.71	
10	64QAM	25	0	10.70	10.63	10.63	
10	64QAM	25	12	10.65	10.80	10.68	11.6
10	64QAM	25	25	10.64	10.65	10.62	
10	64QAM	50	0	10.79	10.71	10.60	
10	256QAM	1	0	6.80	6.80	6.68	7.6
10	256QAM	1	25	6.77	6.73	6.85	
10	256QAM	1	49	6.86	6.83	6.82	
10	256QAM	25	0	6.80	6.78	6.70	7.6
10	256QAM	25	12	6.79	6.81	6.75	
10	256QAM	25	25	6.72	6.80	6.63	
10	256QAM	50	0	6.86	6.81	6.62	
Channel				26065	26365	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	QPSK	1	0	12.68	12.71	12.68	13.6
5	QPSK	1	12	12.62	12.58	12.59	
5	QPSK	1	24	12.64	12.53	12.54	
5	QPSK	12	0	11.88	11.64	11.74	

Band 26 for FCC (dBm)-ANT 1							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	22.5
15	QPSK	1	0	21.80	21.81	21.76	
15	QPSK	1	37	21.78	21.72	21.79	
15	QPSK	1	74	21.77	21.79	21.46	
15	QPSK	36	0	20.89	20.92	20.83	
15	QPSK	36	20	20.85	20.89	20.75	21.5
15	QPSK	36	39	20.90	20.91	20.85	
15	QPSK	75	0	20.87	20.81	20.78	
15	16QAM	1	0	20.89	20.73	20.87	21.5
15	16QAM	1	37	20.73	20.76	20.74	
15	16QAM	1	74	20.60	20.70	20.65	
15	16QAM	36	0	19.86	19.87	19.80	
15	16QAM	36	20	19.59	19.80	19.79	
15	16QAM	36	39	19.85	19.88	19.86	20.5
15	16QAM	75	0	19.91	19.90	19.84	
15	64QAM	1	0	19.76	19.88	19.89	
15	64QAM	1	37	19.92	19.88	19.85	20.5
15	64QAM	1	74	19.75	19.73	19.61	
15	64QAM	36	0	19.89	19.79	19.83	
15	64QAM	36	20	19.80	19.82	19.71	20.5
15	64QAM	36	39	19.84	19.86	19.82	
15	64QAM	75	0	19.80	19.90	19.75	
15	256QAM	1	0	15.67	15.76	15.77	16.5
15	256QAM	1	37	15.83	15.76	15.73	
15	256QAM	1	74	15.66	15.61	15.49	
15	256QAM	36	0	15.80	15.67	15.71	
15	256QAM	36	20	15.71	15.70	15.59	
15	256QAM	36	39	15.75	15.74	15.70	16.5
15	256QAM	75	0	15.71	15.78	15.63	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	21.70	21.78	21.73	22.5
10	QPSK	1	25	21.72	21.66	21.69	
10	QPSK	1	49	21.73	21.75	21.40	
10	QPSK	25	0	20.83	20.87	20.74	
10	QPSK	25	12	20.81	20.87	20.67	
10	QPSK	25	25	20.89	20.86	20.77	21.5
10	QPSK	50	0	20.85	20.74	21.11	
10	16QAM	1	0	20.84	20.72	20.77	
10	16QAM	1	25	20.85	20.74	20.67	21.5
10	16QAM	1	49	20.50	20.61	20.63	
10	16QAM	25	0	19.76	19.86	19.70	
10	16QAM	25	12	19.58	19.78	19.76	20.5
10	16QAM	25	25	19.77	19.78	19.79	
10	16QAM	50	0	19.83	19.84	19.79	
10	64QAM	1	0	19.70	19.82	19.87	
10	64QAM	1	25	19.90	19.85	19.76	
10	64QAM	1	49	19.72	19.72	19.57	20.5
10	64QAM	25	0	19.82	19.73	19.76	
10	64QAM	25	12	19.77	19.81	19.70	
10	64QAM	25	25	19.75	19.85	19.75	20.5
10	64QAM	50	0	19.73	19.83	19.66	
10	256QAM	1	0	15.61	15.69	15.70	
10	256QAM	1	25	15.77	15.70	15.66	16.5
10	256QAM	1	49	15.58	15.52	15.45	
10	256QAM	25	0	15.75	15.59	15.62	
10	256QAM	25	12	15.61	15.67	15.56	
10	256QAM	25	25	15.74	15.64	15.69	
10	256QAM	50	0	15.68	15.75	15.55	16.5
Channel				26715	26865	27015	
Frequency (MHz)				816.5	831.5	846.5	Tune-up limit (dBm)
5	QPSK	1	0	21.76	21.79	21.73	
5	QPSK	1	12	21.73	21.66	21.75	
5	QPSK	1	24	21.69	21.70	21.41	
5	QPSK	12	0	20.79	20.90	20.74	
5	QPSK	12	7	20.78	20.80	20.67	
5	QPSK	12	13	20.85	20.86	20.80	21.5
5	QPSK	25	0	20.84	20.75	21.09	
5	16QAM	1	0	20.84	20.69	20.84	
5	16QAM	1	12	20.67	20.74	20.69	21.5
5	16QAM	1	24	20.55	20.63	20.55	
5	16QAM	12	0	19.85	19.79	19.78	
5	16QAM	12	7	19.56	19.79	19.75	20.5
5	16QAM	12	13	19.83	19.82	19.82	
5	16QAM	25	0	19.81	19.86	19.80	
5	64QAM	1	0	19.88	19.86	19.82	20.5
5	64QAM	1	12	19.83	19.84	19.76	
5	64QAM	1	24	19.69	19.68	19.55	
5	64QAM	12	0	19.81	19.72	19.79	20.5
5	64QAM	12	7	19.70	19.80	19.64	
5	64QAM	12	13	19.75	19.85	19.77	
5	64QAM	25	0	19.72	19.83	19.72	16.5
5	256QAM	1	0	15.58	15.69	15.75	
5	256QAM	1	12	15.73	15.73	15.64	
5	256QAM	1	24	15.61	15.55	15.46	
5	256QAM	12	0	15.72	15.66	15.64	
5	256QAM	12	7	15.66	15.64	15.53	16.5
5	256QAM	12	13	15.72	15.71	15.64	
5	256QAM	25	0	15.62	15.74	15.61	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	21.71	21.75	21.74	22.5
3	QPSK	1	8	21.70	21.66	21.69	
3	QPSK	1	14	21.74	21.75	21.36	
3	QPSK	8	0	20.83	20.85	20.73	22.5

5	QPSK	12	7	11.81	11.75	11.73	12.6
5	QPSK	12	13	11.80	11.65	11.69	
5	QPSK	25	0	11.82	11.70	11.72	
5	16QAM	1	0	11.65	11.68	11.69	12.6
5	16QAM	1	12	11.79	11.81	11.79	
5	16QAM	1	24	11.61	11.68	11.73	
5	16QAM	12	0	10.86	10.62	10.62	11.6
5	16QAM	12	7	10.68	10.72	10.55	
5	16QAM	12	13	10.65	10.61	10.66	
5	16QAM	25	0	10.68	10.71	10.60	11.6
5	64QAM	1	0	10.69	10.74	10.72	
5	64QAM	1	12	10.70	10.67	10.80	
5	64QAM	1	24	10.79	10.69	10.66	11.6
5	64QAM	12	0	10.73	10.65	10.67	
5	64QAM	12	7	10.72	10.71	10.70	
5	64QAM	12	13	10.66	10.68	10.62	7.6
5	64QAM	25	0	10.77	10.74	10.54	
5	256QAM	1	0	6.79	6.79	6.77	
5	256QAM	1	12	6.74	6.82	6.84	7.6
5	256QAM	1	24	6.77	6.82	6.80	
5	256QAM	12	0	6.72	6.68	6.76	
5	256QAM	12	7	6.80	6.83	6.69	7.6
5	256QAM	12	13	6.64	6.78	6.73	
5	256QAM	25	0	6.87	6.81	6.61	
Channel				26955	26365	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1882.5	1913.5	
3	QPSK	1	0	12.71	12.72	12.60	13.6
3	QPSK	1	8	12.61	12.63	12.61	
3	QPSK	1	14	12.65	12.60	12.58	
3	QPSK	8	0	11.83	11.67	11.67	12.6
3	QPSK	8	4	11.74	11.76	11.77	
3	QPSK	8	7	11.76	11.63	11.70	
3	QPSK	15	0	11.76	11.70	11.82	12.6
3	16QAM	1	0	11.72	11.72	11.77	
3	16QAM	1	8	11.83	11.76	11.76	
3	16QAM	1	14	11.59	11.75	11.77	11.6
3	16QAM	8	0	10.77	10.71	10.69	
3	16QAM	8	4	10.72	10.75	10.56	
3	16QAM	8	7	10.61	10.59	10.71	11.6
3	16QAM	15	0	10.63	10.75	10.62	
3	64QAM	1	0	10.68	10.73	10.70	
3	64QAM	1	8	10.73	10.70	10.79	11.6
3	64QAM	1	14	10.79	10.72	10.66	
3	64QAM	8	0	10.72	10.66	10.73	
3	64QAM	8	4	10.74	10.80	10.71	11.6
3	64QAM	8	7	10.65	10.64	10.64	
3	64QAM	15	0	10.82	10.76	10.58	
3	256QAM	1	0	6.82	6.83	6.69	7.6
3	256QAM	1	8	6.72	6.73	6.78	
3	256QAM	1	14	6.80	6.76	6.75	
3	256QAM	8	0	6.73	6.78	6.71	7.6
3	256QAM	8	4	6.72	6.84	6.76	
3	256QAM	8	7	6.72	6.79	6.63	
3	256QAM	15	0	6.80	6.86	6.59	Tune-up limit (dBm)
Channel				26047	26365	26683	
Frequency (MHz)				1850.7	1882.5	1914.3	13.6
1.4	QPSK	1	0	12.74	12.67	12.63	
1.4	QPSK	1	3	12.63	12.66	12.62	
1.4	QPSK	1	5	12.62	12.52	12.59	
1.4	QPSK	3	0	12.81	12.66	12.76	
1.4	QPSK	3	1	12.77	12.75	12.71	
1.4	QPSK	3	3	12.74	12.65	12.72	12.6
1.4	QPSK	6	0	11.79	11.71	11.72	
1.4	16QAM	1	0	11.64	11.73	11.67	
1.4	16QAM	1	3	11.81	11.76	11.70	23.3
1.4	16QAM	1	5	11.55	11.72	11.79	
1.4	16QAM	3	0	11.76	11.64	11.72	
1.4	16QAM	3	1	11.75	11.76	11.60	
1.4	16QAM	3	3	11.70	11.64	11.65	
1.4	16QAM	6	0	10.60	10.71	10.61	22.3
1.4	64QAM	1	0	10.76	10.73	10.68	
1.4	64QAM	1	3	10.67	10.70	10.78	
1.4	64QAM	1	5	10.78	10.74	10.64	22.3
1.4	64QAM	3	0	10.71	10.69	10.65	
1.4	64QAM	3	1	10.68	10.75	10.67	
1.4	64QAM	3	3	10.61	10.66	10.59	
1.4	64QAM	6	0	10.75	10.77	10.52	
1.4	256QAM	1	0	6.75	6.82	6.69	7.6
1.4	256QAM	1	3	6.70	6.77	6.84	
1.4	256QAM	1	5	6.83	6.81	6.81	
1.4	256QAM	3	0	6.83	6.78	6.80	
1.4	256QAM	3	1	6.78	6.88	6.71	
1.4	256QAM	3	3	6.72	6.69	6.70	
1.4	256QAM	6	0	6.82	6.80	6.65	7.6

3	QPSK	8	4	20.78	20.86	20.65	21.5
3	QPSK	8	7	20.85	20.84	20.81	
3	QPSK	15	0	20.81	20.81	21.16	
3	16QAM	1	0	20.86	20.63	20.85	21.5
3	16QAM	1	8	20.72	20.71	20.66	
3	16QAM	1	14	20.53	20.60	20.64	
3	16QAM	8	0	19.81	19.84	19.72	20.5
3	16QAM	8	4	19.56	19.71	19.77	
3	16QAM	8	7	19.78	19.83	19.83	
3	16QAM	15	0	19.83	19.86	19.74	20.5
3	64QAM	1	0	19.72	19.83	19.88	
3	64QAM	1	8	19.87	19.81	19.82	
3	64QAM	1	14	19.66	19.63	19.77	20.5
3	64QAM	8	0	19.85	19.76	19.78	
3	64QAM	8	4	19.70	19.74	19.64	
3	64QAM	8	7	19.81	19.80	19.79	16.5
3	64QAM	15	0	19.78	19.84	19.68	
3	256QAM	1	0	15.60	15.71	15.67	
3	256QAM	1	8	15.79	15.74	15.72	16.5
3	256QAM	1	14	15.59	15.57	15.44	
3	256QAM	8	0	15.77	15.63	15.70	
3	256QAM	8	4	15.65	15.61	15.58	16.5
3	256QAM	8	7	15.67	15.64	15.68	
3	256QAM	15	0	15.69	15.72	15.60	
Channel				26697	26965	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	21.72	21.76	21.73	22.5
1.4	QPSK	1	3	21.72	21.71	21.70	
1.4	QPSK	1	5	21.74	21.70	21.66	
1.4	QPSK	3	0	21.80	21.65	21.61	21.5
1.4	QPSK	3	1	21.67	21.68	21.60	
1.4	QPSK	3	3	21.65	21.64	21.61	
1.4	QPSK	6	0	20.81	20.75	20.75	20.5
1.4	16QAM	1	0	20.88	20.63	20.85	
1.4	16QAM	1	3	20.65	20.68	20.69	
1.4	16QAM	1	5	20.56	20.69	20.55	20.5
1.4	16QAM	3	0	20.84	20.77	20.70	
1.4	16QAM	3	1	20.65	20.70	20.73	
1.4	16QAM	3	3	20.83	20.79	20.83	20.5
1.4	16QAM	6	0	19.87	19.80	19.82	
1.4	64QAM	1	0	19.71	19.87	19.80	
1.4	64QAM	1	3	19.91	19.82	19.83	20.5
1.4	64QAM	1	5	19.74	19.68	19.54	
1.4	64QAM	3	0	19.79	19.73	19.77	
1.4	64QAM	3	1	19.77	19.79	19.70	20.5
1.4	64QAM	3	3	19.76	19.81	19.75	
1.4	64QAM	6	0	19.71	19.83	19.73	
1.4	256QAM	1	0	15.62	15.66	15.67	16.5
1.4	256QAM	1	3	15.73	15.66	15.68	
1.4	256QAM	1	5	15.60	15.60	15.43	
1.4	256QAM	3	0	15.78	15.59	15.66	16.5
1.4	256QAM	3	1	15.63	15.62	15.53	
1.4	256QAM	3	3	15.66	15.65	15.67	
1.4	256QAM	6	0	15.65	15.77	15.53	16.5

Band 26 for FCC (dBm)-ANT 0								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				29765	26865	26865		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	18.25	18.26	18.21	19	
15	QPSK	1	37	18.23	18.17	18.24		
15	QPSK	1	74	18.22	18.24	17.91		
15	QPSK	36	0	17.34	17.37	17.28		
15	QPSK	36	20	17.30	17.34	17.20	18	
15	QPSK	36	39	17.35	17.36	17.30		
15	QPSK	75	0	17.32	17.26	17.23		
15	16QAM	1	0	17.34	17.18	17.32		
15	16QAM	1	37	17.18	17.21	17.19	18	
15	16QAM	1	74	17.05	17.15	17.10		
15	16QAM	36	0	16.31	16.32	16.25		
15	16QAM	36	20	16.04	16.25	16.24		
15	16QAM	36	39	16.30	16.33	16.31	17	
15	16QAM	75	0	16.36	16.35	16.29		
15	64QAM	1	0	16.21	16.33	16.34		
15	64QAM	1	37	16.37	16.33	16.30		
15	64QAM	1	74	16.20	16.18	16.06	17	
15	64QAM	36	0	16.34	16.24	16.28		
15	64QAM	36	20	16.25	16.27	16.16		
15	64QAM	36	39	16.29	16.31	16.27		
15	64QAM	75	0	16.25	16.35	16.20	13	
15	256QAM	1	0	12.12	12.21	12.22		
15	256QAM	1	37	12.28	12.21	12.18		
15	256QAM	1	74	12.11	12.06	11.94		
15	256QAM	36	0	12.25	12.12	12.16	13	
15	256QAM	36	20	12.16	12.15	12.04		
15	256QAM	36	39	12.20	12.19	12.15		
15	256QAM	75	0	17.66	17.73	17.58		
Channel				26740	26865	26990	Tune-up limit (dBm)	
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	18.15	18.23	18.18	19	
10	QPSK	1	25	18.17	18.11	18.14		
10	QPSK	1	49	18.18	18.20	17.85		
10	QPSK	25	0	17.28	17.32	17.19		
10	QPSK	25	12	17.26	17.32	17.12	18	
10	QPSK	25	25	17.34	17.31	17.22		
10	QPSK	50	0	17.30	17.19	17.56		
10	16QAM	1	0	17.29	17.17	17.22		
10	16QAM	1	25	17.10	17.19	17.12	18	
10	16QAM	1	49	16.95	17.06	17.08		
10	16QAM	25	0	16.21	16.31	16.15		
10	16QAM	25	12	16.03	16.23	16.21		
10	16QAM	25	25	16.22	16.23	16.24	17	
10	16QAM	50	0	16.28	16.29	16.24		
10	64QAM	1	0	16.15	16.27	16.32		
10	64QAM	1	25	16.35	16.30	16.21		
10	64QAM	1	49	16.17	16.17	16.02	17	
10	64QAM	25	0	16.27	16.18	16.21		
10	64QAM	25	12	16.22	16.26	16.15		
10	64QAM	25	25	16.20	16.30	16.20		
10	64QAM	50	0	16.18	16.28	16.11	13	
10	256QAM	1	0	12.06	12.14	12.15		
10	256QAM	1	25	12.22	12.15	12.11		
10	256QAM	1	49	12.03	11.97	11.90		
10	256QAM	25	0	12.20	12.04	12.07	13	
10	256QAM	25	12	12.06	12.12	12.01		
10	256QAM	25	25	12.19	12.09	12.14		
10	256QAM	50	0	12.13	12.20	12.00		
Channel				26715	26865	27015	Tune-up limit (dBm)	
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	18.21	18.24	18.18	19	
5	QPSK	1	12	18.18	18.11	18.20		
5	QPSK	1	24	18.14	18.15	17.86		
5	QPSK	12	0	17.24	17.35	17.19		
5	QPSK	12	7	17.23	17.25	17.12	18	
5	QPSK	12	13	17.30	17.31	17.25		
5	QPSK	25	0	17.29	17.20	17.54		
5	16QAM	1	0	17.29	17.14	17.29		
5	16QAM	1	12	17.12	17.19	17.14	18	
5	16QAM	1	24	17.00	17.08	17.00		
5	16QAM	12	0	16.30	16.24	16.23		
5	16QAM	12	7	16.01	16.24	16.20		
5	16QAM	12	13	16.28	16.27	16.27	17	
5	16QAM	25	0	16.26	16.31	16.25		
5	64QAM	1	0	16.13	16.31	16.27		
5	64QAM	1	12	16.28	16.29	16.21		
5	64QAM	1	24	16.14	16.13	16.00	17	
5	64QAM	12	0	16.26	16.17	16.24		
5	64QAM	12	7	16.15	16.25	16.09		
5	64QAM	12	13	16.20	16.30	16.22		
5	64QAM	25	0	16.17	16.28	16.17	13	
5	256QAM	1	0	12.03	12.14	12.20		
5	256QAM	1	12	12.18	12.18	12.09		
5	256QAM	1	24	12.06	12.00	11.91		
5	256QAM	12	0	12.17	12.11	12.09	13	
5	256QAM	12	7	12.11	12.09	11.98		
5	256QAM	12	13	12.17	12.16	12.09		
5	256QAM	25	0	12.07	12.19	12.06		
Channel				26705	26865	27025	Tune-up limit (dBm)	
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	18.16	18.20	18.19	19	
3	QPSK	1	8	18.15	18.11	18.14		
3	QPSK	1	14	18.19	18.20	17.81		
3	QPSK	8	0	17.28	17.30	17.18		

Band 30 (dBm)-ANT 4							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					27710		
Frequency (MHz)					2310		
10	QPSK	1	0		18.08		18.8
10	QPSK	1	25		17.96		
10	QPSK	1	49		17.96		
10	QPSK	25	0		17.09		
10	QPSK	25	12		17.05		17.8
10	QPSK	25	25		17.04		
10	QPSK	50	0		17.06		
10	16QAM	1	0		17.25		
10	16QAM	1	25		17.22		17.8
10	16QAM	1	49		17.29		
10	16QAM	25	0		16.11		
10	16QAM	25	12		16.06		
10	16QAM	25	25		16.07		16.8
10	16QAM	50	0		16.04		
10	64QAM	1	0		16.31		
10	64QAM	1	25		16.05		
10	64QAM	1	49		16.21		16.8
10	64QAM	25	0		16.15		
10	64QAM	25	12		16.10		
10	64QAM	25	25		16.05		
10	64QAM	50	0		16.07		13.8
10	256QAM	1	0		13.00		
10	256QAM	1	25		12.74		
10	256QAM	1	49		12.90		
10	256QAM	25	0		12.83		13.8
10	256QAM	25	12		12.78		
10	256QAM	25	25		12.73		
10	256QAM	50	0		12.75		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	17.97	18.07	17.96	18.8
5	QPSK	1	12	17.88	17.88	17.91	
5	QPSK	1	24	17.92	17.86	17.93	
5	QPSK	12	0	16.98	17.07	16.99	
5	QPSK	12	7	17.04	16.97	16.99	17.8
5	QPSK	12	13	17.02	16.98	17.01	
5	QPSK	25	0	16.90	16.97	17.00	
5	16QAM	1	0	17.23	17.17	17.23	
5	16QAM	1	12	17.18	17.14	17.18	17.8
5	16QAM	1	24	17.21	17.22	17.27	
5	16QAM	12	0	16.03	16.02	16.10	
5	16QAM	12	7	15.99	15.99	16.03	
5	16QAM	12	13	15.98	16.06	15.96	16.8
5	16QAM	25	0	15.96	15.98	15.97	
5	64QAM	1	0	16.25	16.27	16.21	
5	64QAM	1	12	15.99	15.94	16.03	
5	64QAM	1	24	16.20	16.15	16.16	16.8
5	64QAM	12	0	16.13	16.06	16.05	
5	64QAM	12	7	16.09	16.07	16.09	
5	64QAM	12	13	16.02	16.00	15.93	
5	64QAM	25	0	16.03	15.95	15.97	13.8
5	256QAM	1	0	12.91	12.97	12.89	
5	256QAM	1	12	12.72	12.71	12.70	
5	256QAM	1	24	12.87	12.85	12.83	13.8
5	256QAM	12	0	12.71	12.77	12.73	
5	256QAM	12	7	12.71	12.72	12.74	
5	256QAM	12	13	12.61	12.62	12.66	
5	256QAM	25	0	12.65	12.67	12.73	

3	QPSK	8	4	17.23	17.31	17.10	18
3	QPSK	8	7	17.30	17.29	17.26	
3	QPSK	15	0	17.26	17.26	17.61	
3	16QAM	1	0	17.31	17.08	17.30	18
3	16QAM	1	8	17.17	17.16	17.11	
3	16QAM	1	14	16.98	17.05	17.09	
3	16QAM	8	0	16.26	16.29	16.17	17
3	16QAM	8	4	16.01	16.16	16.22	
3	16QAM	8	7	16.23	16.28	16.28	
3	16QAM	15	0	16.28	16.31	16.19	17
3	64QAM	1	0	16.17	16.28	16.33	
3	64QAM	1	8	16.32	16.26	16.27	
3	64QAM	1	14	16.11	16.08	16.22	17
3	64QAM	8	0	16.30	16.21	16.23	
3	64QAM	8	4	16.15	16.19	16.09	
3	64QAM	8	7	16.26	16.25	16.24	13
3	64QAM	15	0	16.23	16.29	16.13	
3	256QAM	1	0	12.05	12.16	12.12	
3	256QAM	1	8	12.24	12.19	12.17	13
3	256QAM	1	14	12.04	12.02	11.89	
3	256QAM	8	0	12.22	12.08	12.15	
3	256QAM	8	4	12.10	12.06	12.03	13
3	256QAM	8	7	12.12	12.09	12.13	
3	256QAM	15	0	12.14	12.17	12.05	
Channel				26697	26665	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	18.17	18.21	18.18	19
1.4	QPSK	1	3	18.17	18.16	18.15	
1.4	QPSK	1	5	18.19	18.15	18.11	
1.4	QPSK	3	0	18.25	18.10	18.06	
1.4	QPSK	3	1	18.12	18.13	18.05	
1.4	QPSK	3	3	18.10	18.09	18.06	
1.4	QPSK	6	0	17.26	17.20	17.20	18
1.4	16QAM	1	0	17.33	17.08	17.30	
1.4	16QAM	1	3	17.10	17.13	17.14	
1.4	16QAM	1	5	17.01	17.14	17.00	18
1.4	16QAM	3	0	17.29	17.22	17.15	
1.4	16QAM	3	1	17.10	17.15	17.18	
1.4	16QAM	3	3	17.28	17.24	17.28	
1.4	16QAM	6	0	16.32	16.25	16.27	
1.4	64QAM	1	0	16.16	16.32	16.25	
1.4	64QAM	1	3	16.36	16.27	16.28	17
1.4	64QAM	1	5	16.19	16.13	15.99	
1.4	64QAM	3	0	16.24	16.18	16.22	
1.4	64QAM	3	1	16.22	16.24	16.15	
1.4	64QAM	3	3	16.21	16.26	16.20	
1.4	64QAM	6	0	16.16	16.28	16.18	
1.4	256QAM	1	0	12.07	12.11	12.12	13
1.4	256QAM	1	3	12.18	12.11	12.13	
1.4	256QAM	1	5	12.05	12.05	11.88	
1.4	256QAM	3	0	12.23	12.04	12.11	
1.4	256QAM	3	1	12.08	12.07	11.98	
1.4	256QAM	3	3	12.11	12.10	12.12	
1.4	256QAM	6	0	12.10	12.22	11.98	13

Band 30 (dBm)-ANT 6							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					27710		
Frequency (MHz)					2310		
10	QPSK	1	0		16.05		16.8
10	QPSK	1	25		16.03		
10	QPSK	1	49		15.99		
10	QPSK	25	0		15.11		15.8
10	QPSK	25	12		15.00		
10	QPSK	25	25		15.01		
10	QPSK	50	0		15.03		15.8
10	16QAM	1	0		15.22		
10	16QAM	1	25		15.19		
10	16QAM	1	49		15.26		14.8
10	16QAM	25	0		14.08		
10	16QAM	25	12		14.03		
10	16QAM	25	25		14.04		14.8
10	16QAM	50	0		14.01		
10	64QAM	1	0		14.28		
10	64QAM	1	25		14.02		14.8
10	64QAM	1	49		14.18		
10	64QAM	25	0		14.12		
10	64QAM	25	12		14.07		14.8
10	64QAM	25	25		14.02		
10	64QAM	50	0		14.04		
10	256QAM	1	0		10.97		11.8
10	256QAM	1	25		10.71		
10	256QAM	1	49		10.87		
10	256QAM	25	0		10.80		11.8
10	256QAM	25	12		10.75		
10	256QAM	25	25		10.70		
10	256QAM	50	0		10.72		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	15.94	16.04	15.93	16.8
5	QPSK	1	12	15.85	15.85	15.88	
5	QPSK	1	24	15.89	15.83	15.90	
5	QPSK	12	0	14.95	15.04	14.96	15.8
5	QPSK	12	7	15.01	14.94	14.96	
5	QPSK	12	13	14.99	14.95	14.98	
5	QPSK	25	0	14.87	14.94	14.97	15.8
5	16QAM	1	0	15.20	15.14	15.20	
5	16QAM	1	12	15.15	15.11	15.15	
5	16QAM	1	24	15.18	15.19	15.24	14.8
5	16QAM	12	0	14.00	13.99	14.07	
5	16QAM	12	7	13.96	13.96	14.00	
5	16QAM	12	13	13.95	14.03	13.93	14.8
5	16QAM	25	0	13.93	13.95	13.94	
5	64QAM	1	0	14.22	14.24	14.18	
5	64QAM	1	12	13.96	13.91	14.00	14.8
5	64QAM	1	24	14.17	14.12	14.13	
5	64QAM	12	0	14.10	14.03	14.02	
5	64QAM	12	7	14.06	14.04	14.06	14.8
5	64QAM	12	13	13.99	13.97	13.90	
5	64QAM	25	0	14.00	13.92	13.94	
5	256QAM	1	0	10.88	10.94	10.86	11.8
5	256QAM	1	12	10.69	10.68	10.67	
5	256QAM	1	24	10.84	10.82	10.80	
5	256QAM	12	0	10.68	10.74	10.70	11.8
5	256QAM	12	7	10.68	10.69	10.71	
5	256QAM	12	13	10.58	10.59	10.63	
5	256QAM	25	0	10.62	10.64	10.70	

Band 66 (dBm)-ANT 5							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	15.28	15.31	15.22	16
20	QPSK	1	49	15.00	15.12	14.97	
20	QPSK	1	99	15.08	15.08	15.05	
20	QPSK	50	0	14.20	14.25	14.23	15
20	QPSK	50	24	14.13	14.21	14.20	
20	QPSK	50	50	14.24	14.19	14.21	
20	QPSK	100	0	14.20	14.25	14.22	15
20	16QAM	1	0	14.50	14.45	14.47	
20	16QAM	1	49	14.37	14.46	14.23	
20	16QAM	1	99	14.31	14.38	14.46	14
20	16QAM	50	0	13.17	13.10	13.09	
20	16QAM	50	24	13.29	13.24	13.12	
20	16QAM	50	50	13.22	13.21	13.18	14
20	16QAM	100	0	13.23	13.20	13.10	
20	64QAM	1	0	13.46	13.43	13.44	
20	64QAM	1	49	13.34	13.44	13.18	14
20	64QAM	1	99	13.25	13.38	13.39	
20	64QAM	50	0	13.14	13.09	13.09	
20	64QAM	50	24	13.21	13.19	13.11	14
20	64QAM	50	50	13.14	13.15	13.15	
20	64QAM	100	0	13.25	13.14	13.03	
20	256QAM	1	0	9.35	9.30	9.37	10
20	256QAM	1	49	9.18	9.35	9.08	
20	256QAM	1	99	9.20	9.27	9.35	
20	256QAM	50	0	9.00	8.93	8.94	10
20	256QAM	50	24	9.10	9.14	8.95	
20	256QAM	50	50	9.13	9.06	9.04	
20	256QAM	100	0	9.09	9.12	8.95	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	14.90	15.10	15.06	16
15	QPSK	1	37	14.98	15.05	14.87	
15	QPSK	1	74	15.02	15.07	15.01	
15	QPSK	36	0	13.98	14.02	14.01	15
15	QPSK	36	20	14.04	14.17	14.19	
15	QPSK	36	39	14.15	14.15	14.16	
15	QPSK	75	0	14.00	14.04	14.16	15
15	16QAM	1	0	14.48	14.38	14.45	
15	16QAM	1	37	14.32	14.42	14.19	
15	16QAM	1	74	14.26	14.29	14.39	14
15	16QAM	36	0	13.15	13.05	13.07	
15	16QAM	36	20	13.18	13.22	13.11	
15	16QAM	36	39	13.16	13.12	13.10	14
15	16QAM	75	0	13.16	13.12	13.00	
15	64QAM	1	0	13.41	13.39	13.37	
15	64QAM	1	37	13.25	13.34	13.14	14
15	64QAM	1	74	13.14	13.33	13.37	
15	64QAM	36	0	13.02	13.08	13.01	
15	64QAM	36	20	13.11	13.09	13.10	14
15	64QAM	36	39	13.05	13.13	13.05	
15	64QAM	75	0	13.23	13.12	12.96	
15	256QAM	1	0	9.32	9.25	9.31	10
15	256QAM	1	37	9.12	9.27	9.02	
15	256QAM	1	74	9.09	9.22	9.33	
15	256QAM	36	0	9.04	9.03	9.03	10
15	256QAM	36	20	9.11	9.28	9.01	
15	256QAM	36	39	9.13	9.14	9.15	
15	256QAM	75	0	9.09	9.23	9.04	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	15.00	15.10	15.08	16
10	QPSK	1	25	14.88	15.09	14.89	
10	QPSK	1	49	14.98	15.02	14.96	
10	QPSK	25	0	13.98	14.06	14.07	15
10	QPSK	25	12	14.06	14.14	14.12	
10	QPSK	25	25	14.15	14.14	14.15	
10	QPSK	50	0	14.06	13.95	14.21	15
10	16QAM	1	0	14.49	14.39	14.43	
10	16QAM	1	25	14.30	14.42	14.15	
10	16QAM	1	49	14.27	14.33	14.38	14
10	16QAM	25	0	13.05	13.07	13.01	
10	16QAM	25	12	13.26	13.18	13.07	
10	16QAM	25	25	13.11	13.18	13.11	14
10	16QAM	50	0	13.18	13.11	13.06	
10	64QAM	1	0	13.34	13.41	13.34	
10	64QAM	1	25	13.32	13.38	13.12	14
10	64QAM	1	49	13.14	13.35	13.33	
10	64QAM	25	0	13.12	13.08	13.00	
10	64QAM	25	12	13.17	13.16	13.01	14
10	64QAM	25	25	13.03	13.13	13.06	
10	64QAM	50	0	13.17	13.04	13.02	
10	256QAM	1	0	9.47	9.38	9.46	10
10	256QAM	1	25	9.30	9.49	9.17	
10	256QAM	1	49	9.27	9.41	9.41	
10	256QAM	25	0	9.05	9.02	9.03	10
10	256QAM	25	12	9.25	9.29	9.04	
10	256QAM	25	25	9.19	9.16	9.17	
10	256QAM	50	0	9.22	9.20	9.05	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	14.96	15.13	15.07	16
5	QPSK	1	12	14.97	15.04	14.91	
5	QPSK	1	24	15.03	15.00	15.00	
5	QPSK	12	0	14.06	14.09	14.07	

5	QPSK	12	7	14.07	14.17	14.11	15
5	QPSK	12	13	14.18	14.15	14.14	
5	QPSK	25	0	14.02	14.01	14.21	
5	16QAM	1	0	14.44	14.41	14.44	15
5	16QAM	1	12	14.25	14.42	14.17	
5	16QAM	1	24	14.24	14.35	14.36	
5	16QAM	12	0	13.12	13.00	13.03	14
5	16QAM	12	7	13.23	13.17	13.02	
5	16QAM	12	13	13.10	13.19	13.14	
5	16QAM	25	0	13.22	13.17	13.05	14
5	64QAM	1	0	13.36	13.35	13.41	
5	64QAM	1	12	13.22	13.41	13.15	
5	64QAM	1	24	13.16	13.30	13.37	14
5	64QAM	12	0	13.11	13.00	13.03	
5	64QAM	12	7	13.19	13.16	13.03	
5	64QAM	12	13	13.12	13.14	13.11	10
5	64QAM	25	0	13.13	13.13	12.98	
5	256QAM	1	0	9.47	9.39	9.45	
5	256QAM	1	12	9.24	9.41	9.17	10
5	256QAM	1	24	9.30	9.41	9.44	
5	256QAM	12	0	9.09	9.06	9.00	
5	256QAM	12	7	9.15	9.21	9.10	10
5	256QAM	12	13	9.26	9.18	9.16	
5	256QAM	25	0	9.21	9.21	9.03	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	14.96	15.06	15.03	16
3	QPSK	1	8	14.88	15.06	14.93	
3	QPSK	1	14	14.98	14.99	15.04	
3	QPSK	8	0	14.05	14.03	14.06	15
3	QPSK	8	4	14.09	14.12	14.12	
3	QPSK	8	7	14.15	14.15	14.12	
3	QPSK	15	0	14.04	13.95	14.12	15
3	16QAM	1	0	14.45	14.42	14.37	
3	16QAM	1	8	14.33	14.38	14.21	
3	16QAM	1	14	14.19	14.35	14.45	14
3	16QAM	8	0	13.07	13.07	13.02	
3	16QAM	8	4	13.20	13.17	13.10	
3	16QAM	8	7	13.14	13.13	13.17	14
3	16QAM	15	0	13.13	13.11	13.05	
3	64QAM	1	0	13.45	13.36	13.43	
3	64QAM	1	8	13.32	13.39	13.16	14
3	64QAM	1	14	13.20	13.32	13.29	
3	64QAM	8	0	13.05	13.07	12.99	
3	64QAM	8	4	13.20	13.09	13.10	14
3	64QAM	8	7	13.10	13.05	13.09	
3	64QAM	15	0	13.21	13.08	12.97	
3	256QAM	1	0	9.40	9.38	9.50	10
3	256QAM	1	8	9.32	9.44	9.14	
3	256QAM	1	14	9.29	9.35	9.46	
3	256QAM	8	0	9.04	9.06	9.09	10
3	256QAM	8	4	9.23	9.23	9.04	
3	256QAM	8	7	9.21	9.13	9.14	
3	256QAM	15	0	9.23	9.19	9.02	Tune-up limit (dBm)
Channel				131979	132322	132655	
Frequency (MHz)				1710.7	1745	1779.3	Tune-up limit (dBm)
1.4	QPSK	1	0	14.95	15.11	15.07	
1.4	QPSK	1	3	14.98	15.06	14.95	16
1.4	QPSK	1	5	14.99	15.07	14.95	
1.4	QPSK	3	0	15.09	15.07	15.21	
1.4	QPSK	3	1	15.12	15.14	15.10	15
1.4	QPSK	3	3	15.17	15.14	15.11	
1.4	QPSK	6	0	14.08	13.95	14.19	
1.4	16QAM	1	0	14.42	14.38	14.37	15
1.4	16QAM	1	3	14.29	14.41	14.14	
1.4	16QAM	1	5	14.29	14.36	14.40	
1.4	16QAM	3	0	14.06	14.28	14.07	14
1.4	16QAM	3	1	14.26	14.23	14.09	
1.4	16QAM	3	3	14.13	14.16	14.15	
1.4	16QAM	6	0	13.16	13.12	13.13	14
1.4	64QAM	1	0	13.42	13.35	13.34	
1.4	64QAM	1	3	13.26	13.42	13.15	
1.4	64QAM	1	5	13.23	13.30	13.33	14
1.4	64QAM	3	0	13.16	13.11	13.07	
1.4	64QAM	3	1	13.10	13.15	13.09	
1.4	64QAM	3	3	13.10	13.11	13.14	14
1.4	64QAM	6	0	13.22	13.09	13.01	
1.4	256QAM	1	0	9.49	9.45	9.49	
1.4	256QAM	1	3	9.24	9.44	9.23	10
1.4	256QAM	1	5	9.26	9.37	9.48	
1.4	256QAM	3	0	9.13	9.01	9.04	
1.4	256QAM	3	1	9.25	9.20	9.09	10
1.4	256QAM	3	3	9.18	9.20	9.19	
1.4	256QAM	6	0	9.14	9.23	9.04	

Band 66 (dBm)-ANT 0								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				132072	132322	132572		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	15.31	15.34	15.25	16	
20	QPSK	1	49	15.03	15.15	15.00		
20	QPSK	1	99	15.11	15.11	15.08		
20	QPSK	50	0	14.23	14.28	14.26		
20	QPSK	50	24	14.16	14.24	14.23	15	
20	QPSK	50	50	14.27	14.22	14.24		
20	QPSK	100	0	14.23	14.28	14.25		
20	16QAM	1	0	14.53	14.48	14.50		
20	16QAM	1	49	14.40	14.49	14.26	15	
20	16QAM	1	99	14.34	14.41	14.49		
20	16QAM	50	0	13.20	13.13	13.12		
20	16QAM	50	24	13.32	13.27	13.15		
20	16QAM	50	50	13.25	13.24	13.21	14	
20	16QAM	100	0	13.26	13.23	13.13		
20	64QAM	1	0	13.49	13.46	13.47		
20	64QAM	1	49	13.37	13.47	13.21		
20	64QAM	1	99	13.28	13.41	13.42	14	
20	64QAM	50	0	13.17	13.12	13.12		
20	64QAM	50	24	13.24	13.22	13.14		
20	64QAM	50	50	13.17	13.18	13.18		
20	64QAM	100	0	13.28	13.17	13.06	10	
20	256QAM	1	0	9.38	9.33	9.40		
20	256QAM	1	49	9.21	9.38	9.11		
20	256QAM	1	99	9.23	9.30	9.38		
20	256QAM	50	0	9.03	8.96	8.97	10	
20	256QAM	50	24	9.13	9.17	8.98		
20	256QAM	50	50	9.16	9.09	9.07		
20	256QAM	100	0	9.12	9.15	8.98		
Channel				132047	132322	132597	Tune-up limit (dBm)	
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	14.93	15.13	15.09	16	
15	QPSK	1	37	15.01	15.08	14.90		
15	QPSK	1	74	15.05	15.10	15.04		
15	QPSK	36	0	14.01	14.05	14.04		
15	QPSK	36	20	14.07	14.20	14.22	15	
15	QPSK	36	39	14.18	14.18	14.19		
15	QPSK	75	0	14.03	14.07	14.19		
15	16QAM	1	0	14.51	14.41	14.48		
15	16QAM	1	37	14.35	14.45	14.22	15	
15	16QAM	1	74	14.29	14.32	14.42		
15	16QAM	36	0	13.18	13.08	13.10		
15	16QAM	36	20	13.21	13.25	13.14		
15	16QAM	36	39	13.19	13.15	13.13	14	
15	16QAM	75	0	13.19	13.15	13.03		
15	64QAM	1	0	13.44	13.42	13.40		
15	64QAM	1	37	13.28	13.37	13.17		
15	64QAM	1	74	13.17	13.36	13.40	14	
15	64QAM	36	0	13.05	13.11	13.04		
15	64QAM	36	20	13.14	13.12	13.13		
15	64QAM	36	39	13.08	13.16	13.08		
15	64QAM	75	0	13.26	13.15	12.99	10	
15	256QAM	1	0	9.35	9.28	9.34		
15	256QAM	1	37	9.15	9.30	9.05		
15	256QAM	1	74	9.12	9.25	9.36		
15	256QAM	36	0	9.07	9.08	9.06	10	
15	256QAM	36	20	9.14	9.31	9.04		
15	256QAM	36	39	9.16	9.17	9.18		
15	256QAM	75	0	9.12	9.26	9.07		
Channel				132022	132322	132622	Tune-up limit (dBm)	
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	15.03	15.13	15.11	16	
10	QPSK	1	25	14.91	15.12	14.92		
10	QPSK	1	49	15.01	15.05	14.99		
10	QPSK	25	0	14.01	14.09	14.10		
10	QPSK	25	12	14.09	14.17	14.15	15	
10	QPSK	25	25	14.18	14.17	14.18		
10	QPSK	50	0	14.09	13.98	14.24		
10	16QAM	1	0	14.52	14.42	14.46		
10	16QAM	1	25	14.33	14.45	14.18	15	
10	16QAM	1	49	14.30	14.36	14.41		
10	16QAM	25	0	13.08	13.10	13.04		
10	16QAM	25	12	13.29	13.21	13.10		
10	16QAM	25	25	13.14	13.21	13.14	14	
10	16QAM	50	0	13.21	13.14	13.09		
10	64QAM	1	0	13.37	13.44	13.37		
10	64QAM	1	25	13.35	13.41	13.15		
10	64QAM	1	49	13.17	13.38	13.36	14	
10	64QAM	25	0	13.15	13.11	13.03		
10	64QAM	25	12	13.20	13.19	13.04		
10	64QAM	25	25	13.06	13.16	13.09		
10	64QAM	50	0	13.20	13.07	13.05	10	
10	256QAM	1	0	9.50	9.41	9.49		
10	256QAM	1	25	9.33	9.52	9.20		
10	256QAM	1	49	9.30	9.44	9.44		
10	256QAM	25	0	9.08	9.05	9.06	10	
10	256QAM	25	12	9.28	9.32	9.07		
10	256QAM	25	25	9.22	9.19	9.20		
10	256QAM	50	0	9.25	9.23	9.08		
Channel				131997	132322	132647	Tune-up limit (dBm)	
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	14.99	15.16	15.10	16	
5	QPSK	1	12	15.00	15.07	14.94		
5	QPSK	1	24	15.06	15.03	15.03		
5	QPSK	12	0	14.09	14.12	14.10		

Band 66 (dBm)-ANT 6								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				132072	132322	132572		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	14.15	14.18	14.09	14.8	
20	QPSK	1	49	13.87	13.99	13.84		
20	QPSK	1	99	13.95	13.95	13.92		
20	QPSK	50	0	13.07	13.12	13.10		
20	QPSK	50	24	13.00	13.08	13.07	13.8	
20	QPSK	50	50	13.11	13.06	13.08		
20	QPSK	100	0	13.07	13.12	13.09		
20	16QAM	1	0	13.37	13.32	13.34		
20	16QAM	1	49	13.24	13.33	13.10	13.8	
20	16QAM	1	99	13.18	13.25	13.33		
20	16QAM	50	0	12.04	11.97	11.96		
20	16QAM	50	24	12.16	12.11	11.99		
20	16QAM	50	50	12.09	12.08	12.05	12.8	
20	16QAM	100	0	12.10	12.07	11.97		
20	64QAM	1	0	12.33	12.30	12.31		
20	64QAM	1	49	12.21	12.31	12.05		
20	64QAM	1	99	12.12	12.25	12.26	12.8	
20	64QAM	50	0	12.01	11.96	11.96		
20	64QAM	50	24	12.08	12.06	11.98		
20	64QAM	50	50	12.01	12.02	12.02		
20	64QAM	100	0	12.12	12.01	11.90	8.8	
20	256QAM	1	0	8.22	8.17	8.24		
20	256QAM	1	49	8.05	8.22	7.95		
20	256QAM	1	99	8.07	8.14	8.22		
20	256QAM	50	0	7.87	7.80	7.81	8.8	
20	256QAM	50	24	7.97	8.01	7.82		
20	256QAM	50	50	8.00	7.93	7.91		
20	256QAM	100	0	7.96	7.99	7.82		
Channel				132047	132322	132597	Tune-up limit (dBm)	
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	13.77	13.97	13.93	14.8	
15	QPSK	1	37	13.85	13.92	13.74		
15	QPSK	1	74	13.89	13.94	13.88		
15	QPSK	36	0	12.85	12.89	12.88		
15	QPSK	36	20	12.91	13.04	13.06	13.8	
15	QPSK	36	39	13.02	13.02	13.03		
15	QPSK	75	0	12.87	12.91	13.03		
15	16QAM	1	0	13.35	13.25	13.32		
15	16QAM	1	37	13.19	13.29	13.06	13.8	
15	16QAM	1	74	13.13	13.16	13.26		
15	16QAM	36	0	12.02	11.92	11.94		
15	16QAM	36	20	12.05	12.09	11.98		
15	16QAM	36	39	12.03	11.99	11.97	12.8	
15	16QAM	75	0	12.03	11.99	11.87		
15	64QAM	1	0	12.28	12.26	12.24		
15	64QAM	1	37	12.12	12.21	12.01		
15	64QAM	1	74	12.01	12.20	12.24	12.8	
15	64QAM	36	0	11.89	11.95	11.88		
15	64QAM	36	20	11.98	11.96	11.97		
15	64QAM	36	39	11.92	12.00	11.92		
15	64QAM	75	0	12.10	11.99	11.83	8.8	
15	256QAM	1	0	8.19	8.12	8.18		
15	256QAM	1	37	7.99	8.14	7.89		

5	QPSK	12	7	14.10	14.20	14.14	15
5	QPSK	12	13	14.21	14.18	14.17	
5	QPSK	25	0	14.05	14.04	14.24	
5	16QAM	1	0	14.47	14.44	14.47	15
5	16QAM	1	12	14.28	14.45	14.20	
5	16QAM	1	24	14.27	14.38	14.39	
5	16QAM	12	0	13.15	13.03	13.06	14
5	16QAM	12	7	13.26	13.20	13.05	
5	16QAM	12	13	13.13	13.22	13.17	
5	16QAM	25	0	13.25	13.20	13.08	14
5	64QAM	1	0	13.39	13.38	13.44	
5	64QAM	1	12	13.25	13.44	13.18	
5	64QAM	1	24	13.19	13.33	13.40	14
5	64QAM	12	0	13.14	13.03	13.06	
5	64QAM	12	7	13.22	13.19	13.06	
5	64QAM	12	13	13.15	13.17	13.14	14
5	64QAM	25	0	13.16	13.16	13.01	
5	256QAM	1	0	9.50	9.42	9.48	10
5	256QAM	1	12	9.27	9.44	9.20	
5	256QAM	1	24	9.33	9.44	9.47	
5	256QAM	12	0	9.12	9.09	9.03	10
5	256QAM	12	7	9.18	9.24	9.13	
5	256QAM	12	13	9.29	9.21	9.19	
5	256QAM	25	0	9.24	9.24	9.06	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	14.99	15.09	15.06	16
3	QPSK	1	8	14.91	15.09	14.96	
3	QPSK	1	14	15.01	15.02	15.07	
3	QPSK	8	0	14.08	14.06	14.09	15
3	QPSK	8	4	14.12	14.15	14.15	
3	QPSK	8	7	14.18	14.18	14.15	
3	QPSK	15	0	14.07	13.98	14.15	15
3	16QAM	1	0	14.48	14.45	14.40	
3	16QAM	1	8	14.36	14.41	14.24	
3	16QAM	1	14	14.22	14.38	14.48	14
3	16QAM	8	0	13.10	13.10	13.05	
3	16QAM	8	4	13.23	13.20	13.13	
3	16QAM	8	7	13.17	13.16	13.20	14
3	16QAM	15	0	13.16	13.14	13.08	
3	64QAM	1	0	13.48	13.39	13.46	
3	64QAM	1	8	13.35	13.42	13.19	14
3	64QAM	1	14	13.23	13.35	13.32	
3	64QAM	8	0	13.08	13.10	13.02	
3	64QAM	8	4	13.23	13.12	13.13	14
3	64QAM	8	7	13.13	13.08	13.12	
3	64QAM	15	0	13.24	13.11	13.00	
3	256QAM	1	0	9.43	9.41	9.53	10
3	256QAM	1	8	9.35	9.47	9.17	
3	256QAM	1	14	9.32	9.38	9.49	
3	256QAM	8	0	9.07	9.09	9.12	10
3	256QAM	8	4	9.26	9.26	9.07	
3	256QAM	8	7	9.24	9.16	9.17	
3	256QAM	15	0	9.26	9.22	9.05	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	14.98	15.14	15.10	16
1.4	QPSK	1	3	15.01	15.09	14.98	
1.4	QPSK	1	5	15.02	15.10	14.98	
1.4	QPSK	3	0	15.12	15.10	15.24	15
1.4	QPSK	3	1	15.15	15.17	15.13	
1.4	QPSK	3	3	15.20	15.17	15.14	
1.4	QPSK	6	0	14.11	13.98	14.22	15
1.4	16QAM	1	0	14.45	14.41	14.40	
1.4	16QAM	1	3	14.32	14.44	14.17	
1.4	16QAM	1	5	14.32	14.39	14.43	14
1.4	16QAM	3	0	14.09	14.31	14.10	
1.4	16QAM	3	1	14.29	14.26	14.12	
1.4	16QAM	3	3	14.16	14.19	14.18	14
1.4	16QAM	6	0	13.19	13.15	13.16	
1.4	64QAM	1	0	13.45	13.38	13.37	
1.4	64QAM	1	3	13.29	13.45	13.18	14
1.4	64QAM	1	5	13.26	13.33	13.36	
1.4	64QAM	3	0	13.19	13.14	13.10	
1.4	64QAM	3	1	13.13	13.18	13.12	14
1.4	64QAM	3	3	13.13	13.14	13.17	
1.4	64QAM	6	0	13.25	13.12	13.04	
1.4	256QAM	1	0	9.52	9.48	9.52	10
1.4	256QAM	1	3	9.27	9.47	9.26	
1.4	256QAM	1	5	9.29	9.40	9.51	
1.4	256QAM	3	0	9.16	9.04	9.07	10
1.4	256QAM	3	1	9.28	9.23	9.12	
1.4	256QAM	3	3	9.21	9.23	9.22	
1.4	256QAM	6	0	9.17	9.26	9.07	10

5	QPSK	12	7	12.94	13.04	12.98	13.8
5	QPSK	12	13	13.05	13.02	13.01	
5	QPSK	25	0	12.89	12.88	13.08	
5	16QAM	1	0	13.31	13.28	13.31	13.8
5	16QAM	1	12	13.12	13.29	13.04	
5	16QAM	1	24	13.11	13.22	13.23	
5	16QAM	12	0	11.99	11.87	11.90	12.8
5	16QAM	12	7	12.10	12.04	11.89	
5	16QAM	12	13	11.97	12.06	12.01	
5	16QAM	25	0	12.09	12.04	11.92	12.8
5	64QAM	1	0	12.23	12.22	12.28	
5	64QAM	1	12	12.09	12.28	12.02	
5	64QAM	1	24	12.03	12.17	12.24	12.8
5	64QAM	12	0	11.98	11.87	11.90	
5	64QAM	12	7	12.06	12.03	11.90	
5	64QAM	12	13	11.99	12.01	11.98	12.8
5	64QAM	25	0	12.00	12.00	11.85	
5	256QAM	1	0	8.34	8.26	8.32	
5	256QAM	1	12	8.11	8.28	8.04	8.8
5	256QAM	1	24	8.17	8.28	8.31	
5	256QAM	12	0	7.96	7.93	7.87	
5	256QAM	12	7	8.02	8.08	7.97	8.8
5	256QAM	12	13	8.13	8.05	8.03	
5	256QAM	25	0	8.08	8.08	7.90	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	13.83	13.93	13.90	14.8
3	QPSK	1	8	13.75	13.93	13.80	
3	QPSK	1	14	13.85	13.86	13.91	
3	QPSK	8	0	12.92	12.90	12.93	13.8
3	QPSK	8	4	12.96	12.99	12.99	
3	QPSK	8	7	13.02	13.02	12.99	
3	QPSK	15	0	12.91	12.82	12.99	13.8
3	16QAM	1	0	13.32	13.29	13.24	
3	16QAM	1	8	13.20	13.25	13.08	
3	16QAM	1	14	13.06	13.22	13.32	12.8
3	16QAM	8	0	11.94	11.94	11.89	
3	16QAM	8	4	12.07	12.04	11.97	
3	16QAM	8	7	12.01	12.00	12.04	12.8
3	16QAM	15	0	12.00	11.98	11.92	
3	64QAM	1	0	12.32	12.23	12.30	
3	64QAM	1	8	12.19	12.26	12.03	12.8
3	64QAM	1	14	12.07	12.19	12.16	
3	64QAM	8	0	11.92	11.94	11.86	
3	64QAM	8	4	12.07	11.96	11.97	12.8
3	64QAM	8	7	11.97	11.92	11.96	
3	64QAM	15	0	12.08	11.95	11.84	
3	256QAM	1	0	8.27	8.25	8.37	8.8
3	256QAM	1	8	8.19	8.31	8.01	
3	256QAM	1	14	8.16	8.22	8.33	
3	256QAM	8	0	7.91	7.93	7.96	8.8
3	256QAM	8	4	8.10	8.10	7.91	
3	256QAM	8	7	8.08	8.00	8.01	
3	256QAM	15	0	8.10	8.06	7.89	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	13.82	13.98	13.94	14.8
1.4	QPSK	1	3	13.85	13.93	13.82	
1.4	QPSK	1	5	13.86	13.94	13.82	
1.4	QPSK	3	0	13.96	13.94	14.08	13.8
1.4	QPSK	3	1	13.99	14.01	13.97	
1.4	QPSK	3	3	14.04	14.01	13.98	
1.4	QPSK	6	0	12.95	12.82	13.06	13.8
1.4	16QAM	1	0	13.29	13.25	13.24	
1.4	16QAM	1	3	13.16	13.28	13.01	
1.4	16QAM	1	5	13.16	13.23	13.27	13.8
1.4	16QAM	3	0	12.93	13.15	12.94	
1.4	16QAM	3	1	13.13	13.10	12.96	
1.4	16QAM	3	3	13.00	13.03	13.02	12.8
1.4	16QAM	6	0	12.03	11.99	12.00	
1.4	64QAM	1	0	12.29	12.22	12.21	
1.4	64QAM	1	3	12.13	12.29	12.02	12.8
1.4	64QAM	1	5	12.10	12.17	12.20	
1.4	64QAM	3	0	12.03	11.98	11.94	
1.4	64QAM	3	1	11.97	12.02	11.96	12.8
1.4	64QAM	3	3	11.97	11.98	12.01	
1.4	64QAM	6	0	12.09	11.96	11.88	
1.4	256QAM	1	0	8.36	8.32	8.36	8.8
1.4	256QAM	1	3	8.11	8.31	8.10	
1.4	256QAM	1	5	8.13	8.24	8.35	
1.4	256QAM	3	0	8.00	7.88	7.91	8.8
1.4	256QAM	3	1	8.12	8.07	7.96	
1.4	256QAM	3	3	8.05	8.07	8.06	
1.4	256QAM	6	0	8.01	8.10	7.91	8.8

Band 66 (dBm)-ANT 4								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				132072	132322	132572		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	15.22	15.25	15.16	15.9	
20	QPSK	1	49	14.94	15.06	14.91		
20	QPSK	1	99	15.02	15.02	14.99		
20	QPSK	50	0	14.14	14.19	14.17	14.9	
20	QPSK	50	24	14.07	14.15	14.14		
20	QPSK	50	50	14.18	14.13	14.15		
20	QPSK	100	0	14.14	14.19	14.16	14.9	
20	16QAM	1	0	14.44	14.39	14.41		
20	16QAM	1	49	14.31	14.40	14.17		
20	16QAM	1	99	14.25	14.32	14.40	14.9	
20	16QAM	50	0	13.11	13.04	13.03		
20	16QAM	50	24	13.23	13.18	13.06		
20	16QAM	50	50	13.16	13.15	13.12	13.9	
20	16QAM	100	0	13.17	13.14	13.04		
20	64QAM	1	0	13.40	13.37	13.38		
20	64QAM	1	49	13.28	13.38	13.12	13.9	
20	64QAM	1	99	13.19	13.32	13.33		
20	64QAM	50	0	13.08	13.03	13.03		
20	64QAM	50	24	13.15	13.13	13.05	13.9	
20	64QAM	50	50	13.08	13.09	13.09		
20	64QAM	100	0	13.19	13.08	12.97		
20	256QAM	1	0	9.29	9.24	9.31	9.9	
20	256QAM	1	49	9.12	9.29	9.02		
20	256QAM	1	99	9.14	9.21	9.29		
20	256QAM	50	0	8.94	8.87	8.88	9.9	
20	256QAM	50	24	9.04	9.08	8.89		
20	256QAM	50	50	9.07	9.00	8.98		
20	256QAM	100	0	9.03	9.06	8.89		
Channel				132047	132322	132597		Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	14.84	15.04	15.00		15.9
15	QPSK	1	37	14.92	14.99	14.81		
15	QPSK	1	74	14.96	15.01	14.95		
15	QPSK	36	0	13.92	13.96	13.95	14.9	
15	QPSK	36	20	13.98	14.11	14.13		
15	QPSK	36	39	14.09	14.09	14.10		
15	QPSK	75	0	13.94	13.98	14.10	14.9	
15	16QAM	1	0	14.42	14.32	14.39		
15	16QAM	1	37	14.26	14.36	14.13		
15	16QAM	1	74	14.20	14.23	14.33	13.9	
15	16QAM	36	0	13.09	12.99	13.01		
15	16QAM	36	20	13.12	13.16	13.05		
15	16QAM	36	39	13.10	13.06	13.04	13.9	
15	16QAM	75	0	13.10	13.06	12.94		
15	64QAM	1	0	13.35	13.33	13.31		
15	64QAM	1	37	13.19	13.28	13.08	13.9	
15	64QAM	1	74	13.08	13.27	13.31		
15	64QAM	36	0	12.96	13.02	12.95		
15	64QAM	36	20	13.05	13.03	13.04	13.9	
15	64QAM	36	39	12.99	13.07	12.99		
15	64QAM	75	0	13.17	13.06	12.90		
15	256QAM	1	0	9.26	9.19	9.25	9.9	
15	256QAM	1	37	9.06	9.21	8.96		
15	256QAM	1	74	9.03	9.16	9.27		
15	256QAM	36	0	8.98	8.97	8.97	9.9	
15	256QAM	36	20	9.05	9.22	8.95		
15	256QAM	36	39	9.07	9.08	9.09		
15	256QAM	75	0	9.03	9.17	8.98		
Channel				132022	132322	132622		Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	14.94	15.04	15.02		15.9
10	QPSK	1	25	14.82	15.03	14.83		
10	QPSK	1	49	14.92	14.96	14.90		
10	QPSK	25	0	13.92	14.00	14.01	14.9	
10	QPSK	25	12	14.00	14.08	14.06		
10	QPSK	25	25	14.09	14.08	14.09		
10	QPSK	50	0	14.00	13.89	14.15	14.9	
10	16QAM	1	0	14.43	14.33	14.37		
10	16QAM	1	25	14.24	14.36	14.09		
10	16QAM	1	49	14.21	14.27	14.32	13.9	
10	16QAM	25	0	12.99	13.01	12.95		
10	16QAM	25	12	13.20	13.12	13.01		
10	16QAM	25	25	13.05	13.12	13.05	13.9	
10	16QAM	50	0	13.12	13.05	13.00		
10	64QAM	1	0	13.28	13.35	13.28		
10	64QAM	1	25	13.26	13.32	13.06	13.9	
10	64QAM	1	49	13.08	13.29	13.27		
10	64QAM	25	0	13.06	13.02	12.94		
10	64QAM	25	12	13.11	13.10	12.95	13.9	
10	64QAM	25	25	12.97	13.07	13.00		
10	64QAM	50	0	13.11	12.98	12.96		
10	256QAM	1	0	9.41	9.32	9.40	9.9	
10	256QAM	1	25	9.24	9.43	9.11		
10	256QAM	1	49	9.21	9.35	9.35		
10	256QAM	25	0	8.99	8.96	8.97	9.9	
10	256QAM	25	12	9.19	9.23	8.98		
10	256QAM	25	25	9.13	9.10	9.11		
10	256QAM	50	0	9.16	9.14	8.99		
Channel				131997	132322	132647		Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	14.90	15.07	15.01		15.9
5	QPSK	1	12	14.91	14.98	14.85		
5	QPSK	1	24	14.97	14.94	14.94		
5	QPSK	12	0	14.90	14.03	14.01		

Band 71 (dBm)-ANT 0									
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)		
Channel				133222	133322	133372			
Frequency (MHz)				673	683	688			
20	QPSK	1	0	18.87	19.00	18.93	19.8		
20	QPSK	1	49	18.84	18.90	18.83			
20	QPSK	1	99	18.95	18.92	18.96			
20	QPSK	50	0	17.98	18.06	18.02	18.8		
20	QPSK	50	24	17.91	17.94	17.98			
20	QPSK	50	50	18.02	18.05	18.03			
20	QPSK	100	0	17.97	18.07	17.99	18.8		
20	16QAM	1	0	18.18	18.22	18.22			
20	16QAM	1	49	18.20	18.29	18.27			
20	16QAM	1	99	18.23	18.30	18.28	17.8		
20	16QAM	50	0	16.90	16.94	16.99			
20	16QAM	50	24	17.05	17.07	17.04			
20	16QAM	50	50	17.04	17.09	17.06	17.8		
20	16QAM	100	0	17.03	16.95	17.09			
20	64QAM	1	0	17.12	17.26	17.17			
20	64QAM	1	49	17.14	17.29	17.21	17.8		
20	64QAM	1	99	17.24	17.35	17.25			
20	64QAM	50	0	16.84	16.88	16.98			
20	64QAM	50	24	17.05	17.05	17.04	17.8		
20	64QAM	50	50	17.08	17.08	17.08			
20	64QAM	100	0	17.05	16.92	17.13			
20	256QAM	1	0	13.02	13.16	13.07	13.8		
20	256QAM	1	49	13.04	13.19	13.11			
20	256QAM	1	99	13.14	13.25	13.15			
20	256QAM	50	0	12.75	12.79	12.89	13.8		
20	256QAM	50	24	12.96	12.96	12.95			
20	256QAM	50	50	12.99	12.99	12.99			
20	256QAM	100	0	12.96	12.83	13.04			
Channel				133197	133297	133397	Tune-up limit (dBm)		
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	0	18.81	18.96	18.85	19.8		
15	QPSK	1	37	18.76	18.80	18.71			
15	QPSK	1	74	18.83	18.87	18.90			
15	QPSK	36	0	17.71	18.00	17.94	18.8		
15	QPSK	36	20	17.81	17.82	17.95			
15	QPSK	36	39	18.01	17.98	18.01			
15	QPSK	75	0	17.85	17.93	17.87	18.8		
15	16QAM	1	0	18.12	18.21	18.21			
15	16QAM	1	37	18.15	18.25	18.19			
15	16QAM	1	74	18.19	18.29	18.27	17.8		
15	16QAM	36	0	16.80	16.91	16.92			
15	16QAM	36	20	16.94	16.95	16.93			
15	16QAM	36	39	17.02	17.08	17.04	17.8		
15	16QAM	75	0	16.92	16.92	17.04			
15	64QAM	1	0	17.08	17.16	17.07			
15	64QAM	1	37	17.11	17.26	17.10	17.8		
15	64QAM	1	74	17.15	17.23	17.22			
15	64QAM	36	0	16.78	16.83	16.96			
15	64QAM	36	20	16.93	17.00	16.93	17.8		
15	64QAM	36	39	17.06	17.00	17.02			
15	64QAM	75	0	16.95	16.91	17.02			
15	256QAM	1	0	12.93	13.15	13.02	13.8		
15	256QAM	1	37	13.03	13.14	13.04			
15	256QAM	1	74	13.04	13.19	13.09			
15	256QAM	36	0	12.72	12.73	12.83	13.8		
15	256QAM	36	20	12.85	12.87	12.91			
15	256QAM	36	39	12.93	12.87	12.92			
15	256QAM	75	0	12.85	12.79	13.01			
Channel				133172	133272	133422	Tune-up limit (dBm)		
Frequency (MHz)				668	678	693			
10	QPSK	1	0	18.78	18.96	18.90	19.8		
10	QPSK	1	25	18.82	18.84	18.73			
10	QPSK	1	49	18.90	18.88	18.95			
10	QPSK	25	0	17.77	18.03	17.93	18.8		
10	QPSK	25	12	17.89	17.88	17.88			
10	QPSK	25	25	17.98	18.02	17.94			
10	QPSK	50	0	17.90	17.86	17.93	18.8		
10	16QAM	1	0	18.13	18.16	18.15			
10	16QAM	1	25	18.19	18.25	18.23			
10	16QAM	1	49	18.15	18.24	18.17	17.8		
10	16QAM	25	0	16.87	16.84	16.87			
10	16QAM	25	12	16.96	16.95	16.95			
10	16QAM	25	25	16.98	17.05	17.05	17.8		
10	16QAM	50	0	17.00	16.93	17.06			
10	64QAM	1	0	17.09	17.20	17.13			
10	64QAM	1	25	17.09	17.28	17.11	17.8		
10	64QAM	1	49	17.15	17.33	17.23			
10	64QAM	25	0	16.72	16.84	16.96			
10	64QAM	25	12	16.95	16.93	16.94	17.8		
10	64QAM	25	25	16.98	16.98	17.06			
10	64QAM	50	0	16.95	16.87	17.12			
10	256QAM	1	0	13.01	13.15	13.04	13.8		
10	256QAM	1	25	12.93	13.15	13.07			
10	256QAM	1	49	13.03	13.16	13.05			
10	256QAM	25	0	12.68	12.68	12.82	13.8		
10	256QAM	25	12	12.92	12.84	12.83			
10	256QAM	25	25	12.92	12.95	12.90			
10	256QAM	50	0	12.94	12.77	12.92			
Channel				133147	133247	133447	Tune-up limit (dBm)		
Frequency (MHz)				665.5	675.5	695.5			
5	QPSK	1	0	18.77	18.95	18.82	19.8		
5	QPSK	1	12	18.74	18.82	18.79			
5	QPSK	1	24	18.89	18.89	18.94			
5	QPSK	12	0	17.74	18.01	17.99			

5	QPSK	12	7	14.01	14.11	14.05	14.9
5	QPSK	12	13	14.12	14.09	14.08	
5	QPSK	25	0	13.96	13.95	14.15	
5	16QAM	1	0	14.38	14.35	14.38	14.9
5	16QAM	1	12	14.19	14.36	14.11	
5	16QAM	1	24	14.18	14.29	14.30	
5	16QAM	12	0	13.06	12.94	12.97	13.9
5	16QAM	12	7	13.17	13.11	12.96	
5	16QAM	12	13	13.04	13.13	13.08	
5	16QAM	25	0	13.16	13.11	12.99	13.9
5	64QAM	1	0	13.30	13.29	13.35	
5	64QAM	1	12	13.16	13.35	13.09	
5	64QAM	1	24	13.10	13.24	13.31	13.9
5	64QAM	12	0	13.05	12.94	12.97	
5	64QAM	12	7	13.13	13.10	12.97	
5	64QAM	12	13	13.06	13.08	13.05	9.9
5	64QAM	25	0	13.07	13.07	12.92	
5	256QAM	1	0	9.41	9.33	9.39	
5	256QAM	1	12	9.18	9.35	9.11	9.9
5	256QAM	1	24	9.24	9.35	9.38	
5	256QAM	12	0	9.03	9.00	8.94	
5	256QAM	12	7	9.09	9.15	9.04	9.9
5	256QAM	12	13	9.20	9.12	9.10	
5	256QAM	25	0	9.15	9.15	8.97	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	14.90	15.00	14.97	15.9
3	QPSK	1	8	14.82	15.00	14.87	
3	QPSK	1	14	14.92	14.93	14.98	
3	QPSK	8	0	13.99	13.97	14.00	14.9
3	QPSK	8	4	14.03	14.06	14.06	
3	QPSK	8	7	14.09	14.09	14.06	
3	QPSK	15	0	13.98	13.89	14.06	14.9
3	16QAM	1	0	14.39	14.36	14.31	
3	16QAM	1	8	14.27	14.32	14.15	
3	16QAM	1	14	14.13	14.29	14.39	13.9
3	16QAM	8	0	13.01	13.01	12.96	
3	16QAM	8	4	13.14	13.11	13.04	
3	16QAM	8	7	13.08	13.07	13.11	13.9
3	16QAM	15	0	13.07	13.05	12.99	
3	64QAM	1	0	13.39	13.30	13.37	
3	64QAM	1	8	13.26	13.33	13.10	13.9
3	64QAM	1	14	13.14	13.26	13.23	
3	64QAM	8	0	12.99	13.01	12.93	
3	64QAM	8	4	13.14	13.03	13.04	13.9
3	64QAM	8	7	13.04	12.99	13.03	
3	64QAM	15	0	13.15	13.02	12.91	
3	256QAM	1	0	9.34	9.32	9.44	9.9
3	256QAM	1	8	9.26	9.38	9.08	
3	256QAM	1	14	9.23	9.29	9.40	
3	256QAM	8	0	8.98	9.00	9.03	9.9
3	256QAM	8	4	9.17	9.17	8.98	
3	256QAM	8	7	9.15	9.07	9.08	
3	256QAM	15	0	9.17	9.13	8.96	Tune-up limit (dBm)
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	Tune-up limit (dBm)
1.4	QPSK	1	0	14.89	15.05	15.01	
1.4	QPSK	1	3	14.92	15.00	14.89	15.9
1.4	QPSK	1	5	14.93	15.01	14.89	
1.4	QPSK	3	0	15.03	15.01	15.15	
1.4	QPSK	3	1	15.06	15.08	15.04	
1.4	QPSK	3	3	15.11	15.08	15.05	
1.4	QPSK	6	0	14.02	13.89	14.13	14.9
1.4	16QAM	1	0	14.36	14.32	14.31	
1.4	16QAM	1	3	14.23	14.35	14.08	
1.4	16QAM	1	5	14.23	14.30	14.34	14.9
1.4	16QAM	3	0	14.00	14.22	14.01	
1.4	16QAM	3	1	14.20	14.17	14.03	
1.4	16QAM	3	3	14.07	14.10	14.09	13.9
1.4	16QAM	6	0	13.10	13.06	13.07	
1.4	64QAM	1	0	13.36	13.29	13.28	
1.4	64QAM	1	3	13.20	13.36	13.09	13.9
1.4	64QAM	1	5	13.17	13.24	13.27	
1.4	64QAM	3	0	13.10	13.05	13.01	
1.4	64QAM	3	1	13.04	13.09	13.03	
1.4	64QAM	3	3	13.04	13.05	13.08	
1.4	64QAM	6	0	13.16	13.03	12.95	13.9
1.4	256QAM	1	0	9.43	9.39	9.43	
1.4	256QAM	1	3	9.18	9.38	9.17	
1.4	256QAM	1	5	9.20	9.31	9.42	9.9
1.4	256QAM	3	0	9.07	8.95	8.98	
1.4	256QAM	3	1	9.19	9.14	9.03	
1.4	256QAM	3	3	9.12	9.14	9.13	9.9
1.4	256QAM	6	0	9.08	9.17	8.98	

5	QPSK	12	7	17.79	17.83	17.97	18.8
5	QPSK	12	13	17.92	17.95	17.96	
5	QPSK	25	0	17.94	17.94	17.96	
5	16QAM	1	0	18.08	18.15	18.16	18.8
5	16QAM	1	12	18.13	18.28	18.17	
5	16QAM	1	24	18.16	18.22	18.20	
5	16QAM	12	0	16.85	16.88	16.90	17.8
5	16QAM	12	7	16.99	16.99	17.01	
5	16QAM	12	13	17.03	17.03	17.04	
5	16QAM	25	0	16.98	16.91	17.07	17.8
5	64QAM	1	0	17.05	17.17	17.10	
5	64QAM	1	12	17.07	17.26	17.12	
5	64QAM	1	24	17.12	17.27	17.24	17.8
5	64QAM	12	0	16.75	16.77	16.87	
5	64QAM	12	7	17.01	16.97	16.97	
5	64QAM	12	13	16.98	17.03	17.03	13.8
5	64QAM	25	0	16.95	16.87	17.08	
5	256QAM	1	0	12.99	13.09	13.02	
5	256QAM	1	12	12.96	13.07	12.99	13.8
5	256QAM	1	24	13.13	13.16	13.07	
5	256QAM	12	0	12.68	12.78	12.78	
5	256QAM	12	7	12.85	12.92	12.92	13.8
5	256QAM	12	13	12.89	12.97	12.89	
5	256QAM	25	0	12.84	12.75	12.98	

Band 38 (dBm)-ANT 5								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				37850	38000	38150		
Frequency (MHz)				2590	2595	2610		
20	QPSK	1	0	15.54	15.58	15.56	16.3	
20	QPSK	1	49	15.41	15.54	15.38		
20	QPSK	1	99	15.53	15.50	15.32		
20	QPSK	50	0	14.53	14.60	14.55	15.3	
20	QPSK	50	24	14.56	14.57	14.43		
20	QPSK	50	50	14.53	14.46	14.39		
20	QPSK	100	0	14.56	14.59	14.46	15.3	
20	16QAM	1	0	14.66	14.67	14.55		
20	16QAM	1	49	14.56	14.59	14.63		
20	16QAM	1	99	14.48	14.52	14.49	14.3	
20	16QAM	50	0	13.53	13.60	13.41		
20	16QAM	50	24	13.61	13.56	13.58		
20	16QAM	50	50	13.43	13.48	13.41	14.3	
20	16QAM	100	0	13.52	13.53	13.47		
20	64QAM	1	0	13.57	13.64	13.55		
20	64QAM	1	49	13.39	13.47	13.50	14.3	
20	64QAM	1	99	13.46	13.48	13.49		
20	64QAM	50	0	13.45	13.50	13.45		
20	64QAM	50	24	13.49	13.45	13.41	14.3	
20	64QAM	50	50	13.36	13.43	13.30		
20	64QAM	100	0	13.28	13.46	13.32		
20	256QAM	1	0	9.60	9.67	9.58	10.3	
20	256QAM	1	49	9.42	9.50	9.53		
20	256QAM	1	99	9.49	9.51	9.52		
20	256QAM	50	0	9.48	9.53	9.48	10.3	
20	256QAM	50	24	9.52	9.48	9.44		
20	256QAM	50	50	9.39	9.46	9.33		
20	256QAM	100	0	9.31	9.49	9.35		
Channel				37825	38000	38175	Tune-up limit (dBm)	
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	15.29	15.54	15.45	16.3	
15	QPSK	1	37	15.37	15.51	15.30		
15	QPSK	1	74	15.44	15.40	15.29		
15	QPSK	36	0	14.55	14.63	14.52	15.3	
15	QPSK	36	20	14.64	14.60	14.48		
15	QPSK	36	39	14.63	14.50	14.48		
15	QPSK	75	0	14.50	14.42	14.44	15.3	
15	16QAM	1	0	14.65	14.63	14.48		
15	16QAM	1	37	14.49	14.52	14.55		
15	16QAM	1	74	14.45	14.45	14.42	14.3	
15	16QAM	36	0	13.52	13.58	13.34		
15	16QAM	36	20	13.51	13.53	13.55		
15	16QAM	36	39	13.39	13.46	13.39	14.3	
15	16QAM	75	0	13.48	13.44	13.38		
15	64QAM	1	0	13.51	13.54	13.46		
15	64QAM	1	37	13.31	13.45	13.48	14.3	
15	64QAM	1	74	13.45	13.41	13.45		
15	64QAM	36	0	13.35	13.43	13.35		
15	64QAM	36	20	13.45	13.35	13.33	10.3	
15	64QAM	36	39	13.34	13.41	13.25		
15	64QAM	75	0	13.22	13.45	13.31		
15	256QAM	1	0	9.58	9.62	9.50	10.3	
15	256QAM	1	37	9.35	9.40	9.47		
15	256QAM	1	74	9.57	9.55	9.60		
15	256QAM	36	0	9.54	9.65	9.57	10.3	
15	256QAM	36	20	9.56	9.51	9.51		
15	256QAM	36	39	9.42	9.53	9.40		
15	256QAM	75	0	9.43	9.61	9.43		
Channel				37800	38000	38200	Tune-up limit (dBm)	
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	15.36	15.53	15.41	16.3	
10	QPSK	1	25	15.38	15.52	15.33		
10	QPSK	1	49	15.49	15.42	15.34		
10	QPSK	25	0	14.58	14.69	14.55	15.3	
10	QPSK	25	12	14.65	14.65	14.47		
10	QPSK	25	25	14.62	14.50	14.44		
10	QPSK	50	0	14.60	14.60	14.55	15.3	
10	16QAM	1	0	14.60	14.62	14.54		
10	16QAM	1	25	14.53	14.53	14.59		
10	16QAM	1	49	14.45	14.49	14.48	14.3	
10	16QAM	25	0	13.47	13.56	13.36		
10	16QAM	25	12	13.54	13.53	13.55		
10	16QAM	25	25	13.33	13.44	13.32	14.3	
10	16QAM	50	0	13.46	13.47	13.41		
10	64QAM	1	0	13.54	13.63	13.51		
10	64QAM	1	25	13.38	13.39	13.49	14.3	
10	64QAM	1	49	13.44	13.44	13.47		
10	64QAM	25	0	13.39	13.47	13.43		
10	64QAM	25	12	13.48	13.43	13.37	14.3	
10	64QAM	25	25	13.26	13.35	13.22		
10	64QAM	50	0	13.27	13.43	13.31		
10	256QAM	1	0	9.54	9.59	9.52	10.3	
10	256QAM	1	25	9.34	9.48	9.50		
10	256QAM	1	49	9.40	9.49	9.42		
10	256QAM	25	0	9.40	9.45	9.44	10.3	
10	256QAM	25	12	9.58	9.54	9.53		
10	256QAM	25	25	9.49	9.58	9.43		
10	256QAM	50	0	9.42	9.61	9.42		
Channel				37775	38000	38225	Tune-up limit (dBm)	
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	15.28	15.53	15.46	16.3	
5	QPSK	1	12	15.35	15.52	15.34		
5	QPSK	1	24	15.44	15.45	15.29		
5	QPSK	12	0	14.56	14.66	14.57	15.3	
5	QPSK	12	7	14.54	14.49	14.41		
5	QPSK	12	13	14.45	14.44	14.29		
5	QPSK	25	0	14.55	14.49	14.42	15.3	
5	16QAM	1	0	14.63	14.66	14.50		
5	16QAM	1	12	14.55	14.57	14.58		
5	16QAM	1	24	14.47	14.42	14.39	14.3	
5	16QAM	12	0	13.48	13.52	13.37		
5	16QAM	12	7	13.57	13.53	13.54		
5	16QAM	12	13	13.40	13.43	13.38	14.3	
5	16QAM	25	0	13.43	13.46	13.42		
5	64QAM	1	0	13.54	13.62	13.51		

Band 38 (dBm)-ANT 0							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	17.03	17.07	17.05	17.8
20	QPSK	1	49	16.90	17.03	16.87	
20	QPSK	1	99	17.02	16.99	16.81	
20	QPSK	50	0	16.02	16.09	16.04	16.8
20	QPSK	50	24	16.05	16.06	15.92	
20	QPSK	50	50	16.02	15.95	15.88	
20	QPSK	100	0	16.05	16.08	15.95	16.8
20	16QAM	1	0	16.15	16.16	16.04	
20	16QAM	1	49	16.05	16.08	16.12	
20	16QAM	1	99	15.97	16.01	15.98	15.8
20	16QAM	50	0	15.02	15.09	14.90	
20	16QAM	50	24	15.10	15.05	15.07	
20	16QAM	50	50	14.92	14.97	14.90	15.8
20	16QAM	100	0	15.01	15.02	14.96	
20	64QAM	1	0	15.06	15.13	15.04	
20	64QAM	1	49	14.88	14.96	14.99	15.8
20	64QAM	1	99	14.95	14.97	14.98	
20	64QAM	50	0	14.94	14.99	14.94	
20	64QAM	50	24	14.98	14.94	14.90	15.8
20	64QAM	50	50	14.85	14.92	14.79	
20	64QAM	100	0	14.77	14.95	14.81	
20	256QAM	1	0	11.09	11.16	11.07	11.8
20	256QAM	1	49	10.91	10.99	11.02	
20	256QAM	1	99	10.98	11.00	11.01	
20	256QAM	50	0	10.97	11.02	10.97	11.8
20	256QAM	50	24	11.01	10.97	10.93	
20	256QAM	50	50	10.88	10.95	10.82	
20	256QAM	100	0	10.80	10.98	10.84	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	16.78	17.03	16.94	17.8
15	QPSK	1	37	16.86	17.00	16.79	
15	QPSK	1	74	16.93	16.89	16.78	
15	QPSK	36	0	16.04	16.12	16.01	16.8
15	QPSK	36	20	16.13	16.09	15.97	
15	QPSK	36	39	16.12	15.99	15.97	
15	QPSK	75	0	15.99	15.91	15.93	16.8
15	16QAM	1	0	16.14	16.12	15.97	
15	16QAM	1	37	15.98	16.01	16.04	
15	16QAM	1	74	15.94	15.94	15.91	15.8
15	16QAM	36	0	15.01	15.07	14.83	
15	16QAM	36	20	15.00	15.02	15.04	
15	16QAM	36	39	14.88	14.95	14.88	15.8
15	16QAM	75	0	14.97	14.93	14.87	
15	64QAM	1	0	15.00	15.03	14.95	
15	64QAM	1	37	14.80	14.94	14.97	15.8
15	64QAM	1	74	14.94	14.90	14.94	
15	64QAM	36	0	14.84	14.92	14.84	
15	64QAM	36	20	14.94	14.84	14.82	15.8
15	64QAM	36	39	14.83	14.90	14.74	
15	64QAM	75	0	14.71	14.94	14.80	
15	256QAM	1	0	11.07	11.11	10.99	11.8
15	256QAM	1	37	10.84	10.89	10.96	
15	256QAM	1	74	11.06	11.04	11.09	
15	256QAM	36	0	11.03	11.14	11.06	11.8
15	256QAM	36	20	11.05	11.00	11.00	
15	256QAM	36	39	10.91	11.02	10.89	
15	256QAM	75	0	10.92	11.10	10.92	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	16.85	17.02	16.90	17.8
10	QPSK	1	25	16.87	17.01	16.82	
10	QPSK	1	49	16.98	16.91	16.83	
10	QPSK	25	0	16.07	16.18	16.04	16.8
10	QPSK	25	12	16.14	16.14	15.96	
10	QPSK	25	25	16.11	15.99	15.93	
10	QPSK	50	0	16.09	16.09	16.04	16.8
10	16QAM	1	0	16.09	16.11	16.03	
10	16QAM	1	25	16.02	16.02	16.08	
10	16QAM	1	49	15.94	15.98	15.97	15.8
10	16QAM	25	0	14.96	15.05	14.85	
10	16QAM	25	12	15.03	15.02	15.04	
10	16QAM	25	25	14.82	14.93	14.81	15.8
10	16QAM	50	0	14.95	14.96	14.90	
10	64QAM	1	0	15.03	15.12	15.00	
10	64QAM	1	25	14.87	14.88	14.98	15.8
10	64QAM	1	49	14.93	14.93	14.96	
10	64QAM	25	0	14.88	14.96	14.92	
10	64QAM	25	12	14.97	14.92	14.86	15.8
10	64QAM	25	25	14.75	14.84	14.71	
10	64QAM	50	0	14.76	14.92	14.80	
10	256QAM	1	0	11.03	11.08	11.01	11.8
10	256QAM	1	25	10.83	10.97	10.99	
10	256QAM	1	49	10.89	10.98	10.91	
10	256QAM	25	0	10.89	10.94	10.93	11.8
10	256QAM	25	12	11.07	11.03	11.02	
10	256QAM	25	25	10.98	11.07	10.92	
10	256QAM	50	0	10.91	11.10	10.91	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	16.77	17.02	16.95	17.8
5	QPSK	1	12	16.84	17.01	16.83	
5	QPSK	1	24	16.93	16.94	16.78	
5	QPSK	12	0	16.05	16.15	16.06	16.8
5	QPSK	12	7	16.03	15.98	15.90	
5	QPSK	12	13	15.94	15.93	15.78	
5	QPSK	25	0	16.04	15.98	15.91	16.8
5	16QAM	1	0	16.12	16.15	15.99	
5	16QAM	1	12	16.04	16.06	16.07	
5	16QAM	1	24	15.96	15.91	15.88	15.8
5	16QAM	12	0	14.97	15.01	14.86	
5	16QAM	12	7	15.06	15.02	15.03	
5	16QAM	12	13	14.89	14.92	14.87	15.8
5	16QAM	25	0	14.92	14.95	14.91	
5	64QAM	1	0	15.03	15.11	15.00	



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5	64QAM	1	12	13.35	13.41	13.45	14.3
5	64QAM	1	24	13.42	13.44	13.48	
5	64QAM	12	0	13.36	13.45	13.44	
5	64QAM	12	7	13.48	13.41	13.40	14.3
5	64QAM	12	13	13.29	13.36	13.24	
5	64QAM	25	0	13.20	13.36	13.24	
5	256QAM	1	0	9.53	9.57	9.52	10.3
5	256QAM	1	12	9.39	9.45	9.52	
5	256QAM	1	24	9.41	9.43	9.43	
5	256QAM	12	0	9.40	9.43	9.40	10.3
5	256QAM	12	7	9.57	9.59	9.51	
5	256QAM	12	13	9.51	9.54	9.38	
5	256QAM	25	0	9.41	9.59	9.46	

5	64QAM	1	12	14.84	14.90	14.94	15.8
5	64QAM	1	24	14.91	14.93	14.97	
5	64QAM	12	0	14.85	14.94	14.93	
5	64QAM	12	7	14.97	14.90	14.89	15.8
5	64QAM	12	13	14.78	14.85	14.73	
5	64QAM	25	0	14.69	14.85	14.73	
5	256QAM	1	0	11.02	11.08	11.01	11.8
5	256QAM	1	12	10.88	10.94	11.01	
5	256QAM	1	24	10.90	10.92	10.92	
5	256QAM	12	0	10.89	10.92	10.89	11.8
5	256QAM	12	7	11.06	11.08	11.00	
5	256QAM	12	13	11.00	11.03	10.87	
5	256QAM	25	0	10.90	11.08	10.95	



Band 38 (dBm)-ANT 6							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				37850	38000	38150	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	19.44	19.48	19.46	20
20	QPSK	1	49	19.31	19.44	19.28	
20	QPSK	1	99	19.43	19.40	19.22	
20	QPSK	50	0	18.43	18.50	18.45	19
20	QPSK	50	24	18.46	18.47	18.33	
20	QPSK	50	50	18.43	18.36	18.29	
20	QPSK	100	0	18.46	18.49	18.36	19
20	16QAM	1	0	18.56	18.57	18.45	
20	16QAM	1	49	18.46	18.49	18.53	
20	16QAM	1	99	18.38	18.42	18.39	18
20	16QAM	50	0	17.43	17.50	17.31	
20	16QAM	50	24	17.51	17.46	17.48	
20	16QAM	50	50	17.33	17.38	17.31	18
20	16QAM	100	0	17.42	17.43	17.37	
20	64QAM	1	0	17.47	17.54	17.45	
20	64QAM	1	49	17.29	17.37	17.40	18
20	64QAM	1	99	17.36	17.38	17.39	
20	64QAM	50	0	17.35	17.40	17.35	
20	64QAM	50	24	17.39	17.35	17.31	18
20	64QAM	50	50	17.26	17.33	17.20	
20	64QAM	100	0	17.18	17.36	17.22	
20	256QAM	1	0	13.50	13.57	13.48	14
20	256QAM	1	49	13.32	13.40	13.43	
20	256QAM	1	99	13.39	13.41	13.42	
20	256QAM	50	0	13.38	13.43	13.38	14
20	256QAM	50	24	13.42	13.38	13.34	
20	256QAM	50	50	13.29	13.36	13.23	
20	256QAM	100	0	13.21	13.39	13.25	Tune-up limit (dBm)
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	Tune-up limit (dBm)
15	QPSK	1	0	19.19	19.44	19.35	
15	QPSK	1	37	19.27	19.41	19.20	20
15	QPSK	1	74	19.34	19.30	19.19	
15	QPSK	36	0	18.45	18.53	18.42	
15	QPSK	36	20	18.54	18.50	18.38	19
15	QPSK	36	39	18.53	18.40	18.38	
15	QPSK	75	0	18.40	18.32	18.34	
15	16QAM	1	0	18.55	18.53	18.38	19
15	16QAM	1	37	18.39	18.42	18.45	
15	16QAM	1	74	18.35	18.35	18.32	
15	16QAM	36	0	17.42	17.48	17.24	18
15	16QAM	36	20	17.41	17.43	17.45	
15	16QAM	36	39	17.29	17.36	17.29	
15	16QAM	75	0	17.38	17.34	17.28	18
15	64QAM	1	0	17.41	17.44	17.36	
15	64QAM	1	37	17.21	17.35	17.38	
15	64QAM	1	74	17.35	17.31	17.35	18
15	64QAM	36	0	17.25	17.33	17.25	
15	64QAM	36	20	17.35	17.25	17.23	
15	64QAM	36	39	17.24	17.31	17.15	14
15	64QAM	75	0	17.12	17.35	17.21	
15	256QAM	1	0	13.48	13.52	13.40	
15	256QAM	1	37	13.25	13.30	13.37	14
15	256QAM	1	74	13.47	13.45	13.50	
15	256QAM	36	0	13.44	13.55	13.47	
15	256QAM	36	20	13.46	13.41	13.41	14
15	256QAM	36	39	13.32	13.43	13.30	
15	256QAM	75	0	13.33	13.51	13.33	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	19.26	19.43	19.31	20
10	QPSK	1	25	19.28	19.42	19.23	
10	QPSK	1	49	19.39	19.32	19.24	
10	QPSK	25	0	18.48	18.59	18.45	19
10	QPSK	25	12	18.55	18.55	18.37	
10	QPSK	25	25	18.52	18.40	18.34	
10	QPSK	50	0	18.50	18.50	18.45	19
10	16QAM	1	0	18.50	18.52	18.44	
10	16QAM	1	25	18.43	18.43	18.49	
10	16QAM	1	49	18.35	18.39	18.38	18
10	16QAM	25	0	17.37	17.46	17.26	
10	16QAM	25	12	17.44	17.43	17.45	
10	16QAM	25	25	17.23	17.34	17.22	18
10	16QAM	50	0	17.36	17.37	17.31	
10	64QAM	1	0	17.44	17.53	17.41	
10	64QAM	1	25	17.28	17.29	17.39	18
10	64QAM	1	49	17.34	17.34	17.37	
10	64QAM	25	0	17.29	17.37	17.33	
10	64QAM	25	12	17.38	17.33	17.27	18
10	64QAM	25	25	17.16	17.25	17.12	
10	64QAM	50	0	17.17	17.33	17.21	
10	256QAM	1	0	13.44	13.49	13.42	14
10	256QAM	1	25	13.24	13.38	13.40	
10	256QAM	1	49	13.30	13.39	13.32	
10	256QAM	25	0	13.30	13.35	13.34	14
10	256QAM	25	12	13.48	13.44	13.43	
10	256QAM	25	25	13.39	13.48	13.33	
10	256QAM	50	0	13.32	13.51	13.32	Tune-up limit (dBm)
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	Tune-up limit (dBm)
5	QPSK	1	0	19.18	19.43	19.36	
5	QPSK	1	12	19.25	19.42	19.24	20
5	QPSK	1	24	19.34	19.35	19.19	
5	QPSK	12	0	18.46	18.56	18.47	
5	QPSK	12	7	18.44	18.39	18.31	19
5	QPSK	12	13	18.35	18.34	18.19	
5	QPSK	25	0	18.45	18.39	18.32	
5	16QAM	1	0	18.53	18.56	18.40	19
5	16QAM	1	12	18.45	18.47	18.48	
5	16QAM	1	24	18.37	18.32	18.29	
5	16QAM	12	0	17.38	17.42	17.27	18
5	16QAM	12	7	17.47	17.43	17.44	
5	16QAM	12	13	17.30	17.33	17.28	
5	16QAM	25	0	17.33	17.36	17.32	18
5	64QAM	1	0	17.44	17.52	17.41	

Band 38 (dBm)-ANT 4							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				37850	38000	38150	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	16.65	16.69	16.67	17.3
20	QPSK	1	49	16.52	16.65	16.49	
20	QPSK	1	99	16.64	16.61	16.43	
20	QPSK	50	0	15.64	15.71	15.66	16.3
20	QPSK	50	24	15.67	15.68	15.54	
20	QPSK	50	50	15.64	15.57	15.50	
20	QPSK	100	0	15.67	15.70	15.57	16.3
20	16QAM	1	0	15.77	15.78	15.66	
20	16QAM	1	49	15.67	15.70	15.74	
20	16QAM	1	99	15.59	15.63	15.60	15.3
20	16QAM	50	0	14.64	14.71	14.52	
20	16QAM	50	24	14.72	14.67	14.69	
20	16QAM	50	50	14.54	14.59	14.52	15.3
20	16QAM	100	0	14.63	14.64	14.58	
20	64QAM	1	0	14.68	14.75	14.66	
20	64QAM	1	49	14.50	14.58	14.61	15.3
20	64QAM	1	99	14.57	14.59	14.60	
20	64QAM	50	0	14.56	14.61	14.56	
20	64QAM	50	24	14.60	14.56	14.52	15.3
20	64QAM	50	50	14.47	14.54	14.41	
20	64QAM	100	0	14.39	14.57	14.43	
20	256QAM	1	0	10.71	10.78	10.69	11.3
20	256QAM	1	49	10.53	10.61	10.64	
20	256QAM	1	99	10.60	10.62	10.63	
20	256QAM	50	0	10.59	10.64	10.59	11.3
20	256QAM	50	24	10.63	10.59	10.55	
20	256QAM	50	50	10.50	10.57	10.44	
20	256QAM	100	0	10.42	10.60	10.46	Tune-up limit (dBm)
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	Tune-up limit (dBm)
15	QPSK	1	0	16.40	16.65	16.56	
15	QPSK	1	37	16.48	16.62	16.41	17.3
15	QPSK	1	74	16.55	16.51	16.40	
15	QPSK	36	0	15.66	15.74	15.63	
15	QPSK	36	20	15.75	15.71	15.59	16.3
15	QPSK	36	39	15.74	15.61	15.59	
15	QPSK	75	0	15.61	15.53	15.55	
15	16QAM	1	0	15.76	15.74	15.59	16.3
15	16QAM	1	37	15.60	15.63	15.66	
15	16QAM	1	74	15.56	15.56	15.53	
15	16QAM	36	0	14.63	14.69	14.45	15.3
15	16QAM	36	20	14.62	14.64	14.66	
15	16QAM	36	39	14.50	14.57	14.50	
15	16QAM	75	0	14.59	14.55	14.49	15.3
15	64QAM	1	0	14.62	14.65	14.57	
15	64QAM	1	37	14.42	14.56	14.59	
15	64QAM	1	74	14.56	14.52	14.56	15.3
15	64QAM	36	0	14.46	14.54	14.46	
15	64QAM	36	20	14.56	14.46	14.44	
15	64QAM	36	39	14.45	14.52	14.38	15.3
15	64QAM	75	0	14.33	14.56	14.42	
15	256QAM	1	0	10.69	10.73	10.61	
15	256QAM	1	37	10.46	10.51	10.58	11.3
15	256QAM	1	74	10.68	10.66	10.71	
15	256QAM	36	0	10.65	10.76	10.68	
15	256QAM	36	20	10.67	10.62	10.62	11.3
15	256QAM	36	39	10.53	10.64	10.51	
15	256QAM	75	0	10.54	10.72	10.54	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	16.47	16.64	16.52	17.3
10	QPSK	1	25	16.49	16.63	16.44	
10	QPSK	1	49	16.60	16.53	16.45	
10	QPSK	25	0	15.69	15.80	15.66	16.3
10	QPSK	25	12	15.76	15.76	15.58	
10	QPSK	25	25	15.73	15.61	15.55	
10	QPSK	50	0	15.71	15.71	15.66	16.3
10	16QAM	1	0	15.71	15.73	15.65	
10	16QAM	1	25	15.64	15.64	15.70	
10	16QAM	1	49	15.56	15.60	15.59	15.3
10	16QAM	25	0	14.58	14.67	14.47	
10	16QAM	25	12	14.65	14.64	14.66	
10	16QAM	25	25	14.44	14.55	14.43	15.3
10	16QAM	50	0	14.57	14.58	14.52	
10	64QAM	1	0	14.65	14.74	14.62	
10	64QAM	1	25	14.49	14.50	14.60	15.3
10	64QAM	1	49	14.55	14.55	14.58	
10	64QAM	25	0	14.50	14.58	14.54	
10	64QAM	25	12	14.59	14.54	14.48	15.3
10	64QAM	25	25	14.37	14.46	14.33	
10	64QAM	50	0	14.38	14.54	14.42	
10	256QAM	1	0	10.65	10.70	10.63	11.3
10	256QAM	1	25	10.45	10.59	10.61	
10	256QAM	1	49	10.51	10.60	10.53	
10	256QAM	25	0	10.51	10.56	10.55	11.3
10	256QAM	25	12	10.69	10.65	10.64	
10	256QAM	25	25	10.60	10.69	10.54	
10	256QAM	50	0	10.53	10.72	10.53	Tune-up limit (dBm)
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	Tune-up limit (dBm)
5	QPSK	1	0	16.39	16.64	16.57	
5	QPSK	1	12	16.46	16.63	16.45	17.3
5	QPSK	1	24	16.55	16.56	16.40	
5	QPSK	12	0	15.67	15.77	15.68	
5	QPSK	12	7	15.65	15.60	15.52	16.3
5	QPSK	12	13	15.56	15.55	15.40	
5	QPSK	25	0	15.66	15.60	15.53	
5	16QAM	1	0	15.74	15.77	15.61	16.3
5	16QAM	1	12	15.66	15.68	15.69	
5	16QAM	1	24	15.58	15.53	15.50	
5	16QAM	12	0	14.59	14.63	14.48	15.3
5	16QAM	12	7	14.68	14.64	14.65	
5	16QAM	12	13	14.51	14.54	14.49	
5	16QAM	25	0	14.54	14.57	14.53	15.3
5	64QAM	1	0	14.65	14.73	14.62	



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5	64QAM	1	12	17.25	17.31	17.35	18
5	64QAM	1	24	17.32	17.34	17.38	
5	64QAM	12	0	17.26	17.35	17.34	
5	64QAM	12	7	17.38	17.31	17.30	18
5	64QAM	12	13	17.19	17.26	17.14	
5	64QAM	25	0	17.10	17.26	17.14	
5	256QAM	1	0	13.43	13.47	13.42	14
5	256QAM	1	12	13.29	13.35	13.42	
5	256QAM	1	24	13.31	13.33	13.33	
5	256QAM	12	0	13.30	13.33	13.30	14
5	256QAM	12	7	13.47	13.49	13.41	
5	256QAM	12	13	13.41	13.44	13.28	
5	256QAM	25	0	13.31	13.49	13.36	

5	64QAM	1	12	14.46	14.52	14.56	15.3
5	64QAM	1	24	14.53	14.55	14.59	
5	64QAM	12	0	14.47	14.56	14.55	
5	64QAM	12	7	14.59	14.52	14.51	15.3
5	64QAM	12	13	14.40	14.47	14.35	
5	64QAM	25	0	14.31	14.47	14.35	
5	256QAM	1	0	10.64	10.68	10.63	11.3
5	256QAM	1	12	10.50	10.56	10.63	
5	256QAM	1	24	10.52	10.54	10.54	
5	256QAM	12	0	10.51	10.54	10.51	11.3
5	256QAM	12	7	10.68	10.70	10.62	
5	256QAM	12	13	10.62	10.65	10.49	
5	256QAM	25	0	10.52	10.70	10.57	

Band 41 (2496~2690MHz) (dBm)PC3-ANT 5										
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)	
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	17.31	17.22	17.37	17.21	17.20	18.1	
20	QPSK	1	49	17.22	17.26	17.12	17.14	17.10		
20	QPSK	1	99	17.31	17.16	17.27	17.17	17.09	17.1	
20	QPSK	50	0	16.54	16.49	16.55	16.40	16.52		
20	QPSK	50	24	16.50	16.47	16.41	16.26	16.23	17.1	
20	QPSK	50	50	16.52	16.41	16.37	16.20	16.10		
20	QPSK	100	0	16.51	16.47	16.42	16.32	16.20	17.1	
20	16QAM	1	0	16.59	16.51	16.55	16.49	16.50		
20	16QAM	1	49	16.52	16.39	16.49	16.42	16.45	17.1	
20	16QAM	1	99	16.45	16.31	16.54	16.40	16.42		
20	16QAM	50	0	15.60	15.56	15.42	15.36	15.27	16.1	
20	16QAM	50	24	15.54	15.39	15.45	15.33	15.30		
20	16QAM	50	50	15.51	15.27	15.30	15.22	15.26	16.1	
20	16QAM	100	0	15.42	15.36	15.45	15.39	15.40		
20	64QAM	1	0	15.50	15.57	15.48	15.38	15.42	16.1	
20	64QAM	1	49	15.49	15.21	15.39	15.30	15.32		
20	64QAM	1	99	15.43	15.34	15.43	15.34	15.37	16.1	
20	64QAM	50	0	15.55	15.49	15.36	15.29	15.13		
20	64QAM	50	24	15.45	15.40	15.39	15.27	15.31	16.1	
20	64QAM	50	50	15.32	15.33	15.34	15.23	15.25		
20	64QAM	100	0	15.51	15.46	15.50	15.41	15.40	16.1	
20	256QAM	1	0	11.70	11.77	11.68	11.58	11.62		
20	256QAM	1	49	11.69	11.41	11.59	11.50	11.52	13.1	
20	256QAM	1	99	11.63	11.54	11.63	11.54	11.57		
20	256QAM	50	0	11.75	11.69	11.56	11.49	11.33	13.1	
20	256QAM	50	24	11.65	11.60	11.59	11.47	11.51		
20	256QAM	50	50	11.52	11.53	11.54	11.43	11.45	13.1	
20	256QAM	100	0	11.71	11.66	11.70	11.61	11.60		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	17.26	17.11	17.36	17.15	17.11	18.1	
15	QPSK	1	37	17.21	17.19	17.10	17.08	17.11		
15	QPSK	1	74	17.22	17.10	17.17	17.12	17.08	17.1	
15	QPSK	36	0	16.43	16.41	16.51	16.37	16.43		
15	QPSK	36	20	16.39	16.39	16.37	16.17	16.17	17.1	
15	QPSK	36	39	16.51	16.40	16.34	16.11	16.08		
15	QPSK	75	0	16.42	16.41	16.34	16.22	16.13	17.1	
15	16QAM	1	0	16.55	16.49	16.44	16.37	16.44		
15	16QAM	1	37	16.43	16.32	16.47	16.32	16.35	17.1	
15	16QAM	1	74	16.41	16.19	16.44	16.37	16.30		
15	16QAM	36	0	15.53	15.48	15.34	15.26	15.22	16.1	
15	16QAM	36	20	15.53	15.30	15.39	15.24	15.27		
15	16QAM	36	39	15.40	15.15	15.21	15.15	15.25	16.1	
15	16QAM	75	0	15.38	15.33	15.44	15.30	15.37		
15	64QAM	1	0	15.39	15.46	15.42	15.28	15.32	16.1	
15	64QAM	1	37	15.46	15.13	15.35	15.18	15.23		
15	64QAM	1	74	15.40	15.31	15.32	15.23	15.33	16.1	
15	64QAM	36	0	15.43	15.48	15.26	15.26	15.08		
15	64QAM	36	20	15.34	15.28	15.29	15.18	15.27	16.1	
15	64QAM	36	39	15.27	15.29	15.26	15.22	15.21		
15	64QAM	75	0	15.44	15.37	15.38	15.34	15.38	13.1	
15	256QAM	1	0	11.60	11.68	11.65	11.55	11.53		
15	256QAM	1	37	11.59	11.39	11.51	11.48	11.49	13.1	
15	256QAM	1	74	11.55	11.47	11.56	11.43	11.51		
15	256QAM	36	0	11.70	11.59	11.46	11.38	11.27	13.1	
15	256QAM	36	20	11.57	11.57	11.49	11.45	11.47		
15	256QAM	36	39	11.46	11.52	11.51	11.32	11.34	13.1	
15	256QAM	75	0	11.63	11.56	11.63	11.55	11.49		
Channel				39700	40160	40620	41090	41540	Tune-up limit (dBm)	
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	17.22	17.17	17.32	17.15	17.11	18.1	
10	QPSK	1	25	17.14	17.19	17.08	17.14	17.10		
10	QPSK	1	49	17.27	17.11	17.17	17.15	17.12	17.1	
10	QPSK	25	0	16.50	16.42	16.47	16.35	16.21		
10	QPSK	25	12	16.49	16.38	16.40	16.24	16.13	17.1	
10	QPSK	25	25	16.51	16.32	16.35	16.17	16.08		
10	QPSK	50	0	16.47	16.39	16.41	16.23	16.15	17.1	
10	16QAM	1	0	16.55	16.50	16.46	16.37	16.43		
10	16QAM	1	25	16.46	16.36	16.39	16.38	16.36	17.1	
10	16QAM	1	49	16.42	16.25	16.53	16.36	16.36		
10	16QAM	25	0	15.49	15.52	15.34	15.31	15.18	16.1	
10	16QAM	25	12	15.51	15.35	15.40	15.29	15.19		
10	16QAM	25	25	15.44	15.20	15.23	15.21	15.16	16.1	
10	16QAM	50	0	15.32	15.33	15.41	15.36	15.38		
10	64QAM	1	0	15.45	15.50	15.38	15.31	15.36	16.1	
10	64QAM	1	25	15.46	15.11	15.31	15.25	15.23		
10	64QAM	1	49	15.31	15.26	15.35	15.33	15.27	16.1	
10	64QAM	25	0	15.44	15.46	15.26	15.22	15.12		
10	64QAM	25	12	15.41	15.33	15.29	15.25	15.29	16.1	
10	64QAM	25	25	15.31	15.22	15.31	15.20	15.18		
10	64QAM	50	0	15.50	15.44	15.46	15.31	15.36	13.1	
10	256QAM	1	0	11.63	11.71	11.66	11.46	11.55		
10	256QAM	1	25	11.63	11.35	11.47	11.48	11.45	13.1	
10	256QAM	1	49	11.59	11.52	11.53	11.47	11.46		
10	256QAM	25	0	11.71	11.64	11.45	11.40	11.27	13.1	
10	256QAM	25	12	11.59	11.59	11.56	11.37	11.40		
10	256QAM	25	25	11.51	11.43	11.44	11.31	11.36	13.1	
10	256QAM	50	0	11.64	11.62	11.63	11.56	11.56		
Channel				39715	40163	40620	41093	41555	Tune-up limit (dBm)	
Frequency (MHz)				2498.5	2545.8	2593	2640.39	2687.5		
5	QPSK	1	0	17.20	17.19	17.34	17.13	17.19	18.1	
5	QPSK	1	12	17.20	17.19	17.12	17.11	17.15		
5	QPSK	1	24	17.26	17.09	17.15	17.13	17.14	17.1	
5	QPSK	12	0	16.50	16.43	16.48	16.34	16.22		
5	QPSK	12	7	16.42	16.46	16.33	16.19	16.19	17.1	
5	QPSK	12	13	16.40	16.32	16.30	16.17	16.09		
5	QPSK	25	0	16.40	16.45	16.35	16.22	16.09	17.1	
5	16QAM	1	0	16.49	16.50	16.49	16.48	16.48		
5	16QAM	1	12	16.42	16.30	16.38	16.33	16.39	17.1	
5	16QAM	1	24	16.34	16.28	16.42	16.39	16.32		
5	16QAM	12	0	15.49	15.45	15.38	15.24	15.16	16.1	
5	16QAM	12	7	15.43	15.33	15.38	15.32	15.21		
5	16QAM	12	13	15.43	15.19	15.23	15.12	15.18	16.1	
5	16QAM	25	0	15.37	15.37	15.40	15.37	15.34		
5	64QAM	1	0	15.44	15.47	15.40	15.30	15.33	16.1	
5	64QAM	1	12	15.38	15.11	15.32	15.16	15.28		
5	64QAM	1	24	15.33	15.24	15.41	15.30	15.35	16.1	
5	64QAM	12	0	15.48	15.43	15.33	15.17	15.11		
5	64QAM	12	7	15.33	15.35	15.27	15.19	15.21	16.1	
5	64QAM	12	13	15.23	15.27	15.23	15.13	15.16		
5	64QAM	25	0	15.43	15.38	15.45	15.30	15.37	16.1	
5	256QAM	1	0	11.68	11.72	11.63	11.54	11.50		
5	256QAM	1	12	11.59	11.53	11.51	11.46	11.40	13.1	
5	256QAM	1	24	11.53	11.42	11.53	11.45	11.44		
5	256QAM	12	0	11.68	11.37	11.55	11.45	11.29	13.1	
5	256QAM	12	7	11.60	11.48	11.58	11.40	11.46		
5	256QAM	12	13	11.61	11.43	11.43	11.41	11.41	13.1	
5	256QAM	25	0	11.68	11.41	11.47	11.44	11.44		

Band 48 (dBm)-ANT 8										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Middle-Low Channel	Middle-Low Channel	Middle-High Channel	High Channel	Tune-up limit (dBm)	
Channel				55340	55830	55990	56150	56640	Tune-up limit (dBm)	
Frequency (MHz)				3550	3609	3625	3641	3690		
20	QPSK	1	0	18.79	18.92	18.95	18.91	18.90	19.5	
20	QPSK	1	49	18.79	18.84	18.81	18.57	18.52		
20	QPSK	1	99	18.77	18.71	18.58	18.60	18.54		
20	QPSK	50	0	17.98	17.96	18.07	17.97	18.00		
20	QPSK	50	24	17.89	18.06	17.98	18.05	17.89	18.5	
20	QPSK	50	50	17.88	18.13	17.98	17.87	17.75		
20	QPSK	100	0	17.86	17.83	17.98	17.85	17.88		
20	16QAM	1	0	18.09	18.01	17.94	17.85	17.88		
20	16QAM	1	49	18.14	18.06	17.87	17.86	17.89	18.5	
20	16QAM	1	99	18.29	17.94	17.82	17.85	17.83		
20	16QAM	50	0	17.30	17.19	17.06	16.98	17.01		
20	16QAM	50	24	17.06	17.09	17.02	16.95	16.97		
20	16QAM	50	50	17.05	17.10	16.92	16.99	16.96	17.5	
20	16QAM	100	0	17.15	17.15	17.00	17.00	16.92		
20	64QAM	1	0	17.20	17.30	17.06	17.17	17.11		
20	64QAM	1	49	16.88	17.09	16.98	17.16	17.09		
20	64QAM	1	99	16.99	17.00	17.01	17.07	17.10	17.5	
20	64QAM	50	0	17.14	17.09	16.98	17.02	16.84		
20	64QAM	50	24	17.21	17.11	16.94	16.99	16.94		
20	64QAM	50	50	17.15	16.89	16.72	17.05	17.01		
20	64QAM	100	0	17.05	17.07	17.12	16.92	16.89	13.5	
20	256QAM	1	0	12.88	12.98	12.74	12.84	12.79		
20	256QAM	1	49	12.54	12.77	12.66	12.84	12.77		
20	256QAM	1	99	12.67	12.68	12.69	12.75	12.78		
20	256QAM	50	0	12.81	12.78	12.65	12.69	12.51	13.5	
20	256QAM	50	24	12.88	12.78	12.61	12.66	12.61		
20	256QAM	50	50	12.82	12.56	12.39	12.72	12.68		
20	256QAM	100	0	12.72	12.74	12.79	12.59	12.56		
Channel				55315	56030	56090	56160	56665	Tune-up limit (dBm)	
Frequency (MHz)				3557.5	3608	3625	3642	3692.5		
15	QPSK	1	0	18.67	18.51	18.42	18.54	18.39	19.5	
15	QPSK	1	37	18.58	18.44	18.39	18.39	18.31		
15	QPSK	1	74	18.56	16.53	18.31	18.43	18.29		
15	QPSK	36	0	18.17	18.05	17.87	18.00	17.84		
15	QPSK	36	20	18.24	17.99	17.92	17.99	17.77	18.5	
15	QPSK	36	39	18.12	18.12	17.87	17.79	17.66		
15	QPSK	75	0	18.08	18.08	17.95	17.87	17.80		
15	16QAM	1	0	18.00	17.98	17.87	17.83	17.79		
15	16QAM	1	37	18.11	18.00	17.86	17.83	17.85	18.5	
15	16QAM	1	74	18.20	17.93	17.78	17.82	17.81		
15	16QAM	36	0	17.22	17.16	17.00	16.96	16.94		
15	16QAM	36	20	17.00	17.06	16.90	16.93	16.90		
15	16QAM	36	39	17.01	17.08	16.72	16.96	16.87	17.5	
15	16QAM	75	0	17.09	17.14	16.97	16.91	16.90		
15	64QAM	1	0	17.08	17.22	17.02	17.12	17.01		
15	64QAM	1	37	16.79	17.03	16.88	17.08	17.01		
15	64QAM	1	74	16.94	16.97	16.99	16.99	17.09	17.5	
15	64QAM	36	0	17.09	17.00	16.92	17.00	16.75		
15	64QAM	36	20	17.14	17.09	16.88	16.88	16.90		
15	64QAM	36	39	17.14	16.87	16.65	16.97	16.91		
15	64QAM	75	0	17.03	16.95	17.05	16.84	16.83	17.5	
15	256QAM	1	0	12.87	12.97	12.65	12.78	12.68		
15	256QAM	1	37	12.53	12.72	12.65	12.75	12.65		
15	256QAM	1	74	12.83	12.64	12.67	12.65	12.73		
15	256QAM	36	0	12.69	12.75	12.58	12.59	12.41	13.5	
15	256QAM	36	20	12.81	12.74	12.58	12.63	12.60		
15	256QAM	36	39	12.70	12.54	12.28	12.63	12.65		
15	256QAM	75	0	12.60	12.73	12.72	12.53	12.53		
Channel				55290	55815	55990	56165	56690	Tune-up limit (dBm)	
Frequency (MHz)				3555	3607.5	3625	3642.5	3695		
10	QPSK	1	0	18.64	18.53	18.52	18.47	18.49	19.5	
10	QPSK	1	25	18.59	18.45	18.44	18.33	18.29		
10	QPSK	1	49	18.53	18.45	18.36	18.41	18.28		
10	QPSK	25	0	17.83	17.78	17.50	17.68	17.52		
10	QPSK	25	12	17.83	17.69	17.54	17.60	17.43	18.5	
10	QPSK	25	25	17.83	17.73	17.49	17.41	17.39		
10	QPSK	50	0	17.82	17.78	17.53	17.61	17.46		
10	16QAM	1	0	18.04	17.90	17.84	17.75	17.79		
10	16QAM	1	25	18.07	18.02	17.85	17.74	17.77	18.5	
10	16QAM	1	49	18.22	17.84	17.79	17.80	17.79		
10	16QAM	25	0	17.27	17.11	16.96	16.95	16.92		
10	16QAM	25	12	17.00	17.00	16.94	16.90	16.85		
10	16QAM	25	25	17.01	17.05	16.80	16.98	16.92	17.5	
10	16QAM	50	0	17.05	17.04	16.90	16.95	16.83		
10	64QAM	1	0	17.15	17.26	16.95	17.06	17.09		
10	64QAM	1	25	16.76	16.98	16.96	17.08	17.08		
10	64QAM	1	49	16.93	16.95	16.89	16.95	16.98	17.5	
10	64QAM	25	0	17.11	17.03	16.93	16.91	16.77		
10	64QAM	25	12	17.12	17.01	16.91	16.94	16.93		
10	64QAM	25	25	17.03	16.81	16.62	16.96	16.89		
10	64QAM	50	0	16.98	16.95	17.08	16.82	16.85	13.5	
10	256QAM	1	0	12.86	12.89	12.71	12.73	12.68		
10	256QAM	1	25	12.42	12.71	12.57	12.75	12.73		
10	256QAM	1	49	12.55	12.57	12.61	12.73	12.68		
10	256QAM	25	0	12.79	12.72	12.63	12.57	12.39	13.5	
10	256QAM	25	12	12.87	12.68	12.51	12.59	12.53		
10	256QAM	25	25	12.80	12.49	12.34	12.69	12.60		
10	256QAM	50	0	12.69	12.70	12.75	12.52	12.47		
Channel				55295	55810	55990	56170	56715	Tune-up limit (dBm)	
Frequency (MHz)				3552.5	3607	3625	3643	3697.5		
5	QPSK	1	0	18.65	18.51	18.48	18.47	18.41	19.5	
5	QPSK	1	12	18.53	18.40	18.34	18.31	18.25		
5	QPSK	1	24	18.53	18.47	18.40	18.38	18.30		
5	QPSK	12	0	18.11	18.11	17.83	17.96	17.84		
5	QPSK	12	7	18.15	17.94	17.92	17.95	17.81	18.5	
5	QPSK	12	13	18.13	18.09	17.83	17.80	17.70		
5	QPSK	25	0	16.14	16.14	17.87	17.87	17.76		
5	16QAM	1	0	18.06	17.95	18.25	18.15	18.20		
5	16QAM	1	12	18.13	17.99	18.15	18.13	18.22	18.5	
5	16QAM	1	24	18.26	17.93	18.14	18.17	18.14		
5	16QAM	12	0	17.23	17.11	16.99	16.93	17.00		
5	16QAM	12	7	16.95	17.03	16.97	16.87	16.95		
5	16QAM	12	13	17.08	16.98	16.77	16.95	16.96	17.5	
5	16QAM	25	0	17.03	17.04	16.94	16.95	16.89		
5	64QAM	1	0	17.16	17.19	16.97	17.15	17.09		
5	64QAM	1	12	16.85	16.97	16.88	17.14	17.04		
5	64QAM	1	24	16.94	16.91	16.93	16.95	17.04	17.5	
5	64QAM	12	0	17.03	17.01	16.97	17.01	16.73		
5	64QAM	12	7	17.14	17.03	16.84	16.91	16.86		
5	64QAM	12	13	17.09	16.79	16.85	16.91	16.86		
5	64QAM	25	0	17.04	16.98	17.11	16.83	16.84	13.5	
5	256QAM	1	0	12.81	12.93	12.68	12.78	12.67		
5	256QAM	1	12	12.48	12.73	12.65	12.73	12.73		
5	256QAM	1	24	12.56	12.61	12.62	12.68	12.65		
5	256QAM	12	0	12.77	12.75	12.63	12.65	12.44	13.5	
5	256QAM	12	7	12.81	12.88	12.80	12.81	12.53		
5	256QAM	12	13	12.77	12.50	12.27	12.65	12.61		
5	256QAM	25	0	12.61	12.61	12.61	12.48	12.48		

Band 48 (dBm)-ANT 11											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Middle-Low Channel	Middle-Low Channel	Middle-High Channel	High Channel		Tune-up limit (dBm)	
Channel				55349	55830	55990	56150	56640			
Frequency (MHz)				3560	3609	3625	3641	3690			
20	QPSK	1	0	16.33	16.46	16.49	16.45	16.44	17.3		
20	QPSK	1	49	16.33	16.16	16.15	16.11	16.06			
20	QPSK	1	99	16.31	16.25	16.12	16.14	16.08			
20	QPSK	50	0	15.52	15.50	15.61	15.51	15.54	16.3		
20	QPSK	50	24	15.43	15.60	15.52	15.59	15.43			
20	QPSK	50	50	15.42	15.67	15.42	15.41	15.29			
20	QPSK	100	0	15.40	15.37	15.52	15.39	15.42	16.3		
20	16QAM	1	0	15.63	15.55	15.48	15.39	15.42			
20	16QAM	1	49	15.68	15.60	15.41	15.40	15.43			
20	16QAM	1	99	15.83	15.46	15.36	15.39	15.37	15.3		
20	16QAM	50	0	14.84	14.73	14.60	14.52	14.55			
20	16QAM	50	24	14.60	14.63	14.56	14.49	14.51			
20	16QAM	50	50	14.63	14.64	14.36	14.53	14.52	15.3		
20	16QAM	100	0	14.69	14.69	14.54	14.54	14.46			
20	64QAM	1	0	14.74	14.84	14.60	14.71	14.65			
20	64QAM	1	49	14.40	14.63	14.52	14.70	14.63	15.3		
20	64QAM	1	99	14.53	14.54	14.55	14.61	14.64			
20	64QAM	50	0	14.69	14.63	14.52	14.56	14.38			
20	64QAM	50	24	14.75	14.65	14.48	14.53	14.48	15.3		
20	64QAM	50	50	14.69	14.43	14.26	14.59	14.55			
20	64QAM	100	0	14.59	14.61	14.66	14.46	14.43			
20	256QAM	1	0	10.42	10.52	10.28	10.39	10.33	11.3		
20	256QAM	1	49	10.08	10.31	10.20	10.38	10.31			
20	256QAM	1	99	10.21	10.22	10.23	10.29	10.32			
20	256QAM	50	0	10.35	10.30	10.19	10.23	10.05	11.3		
20	256QAM	50	24	10.42	10.32	10.15	10.20	10.15			
20	256QAM	50	50	10.36	10.10	9.93	10.26	10.22			
20	256QAM	100	0	10.26	10.28	10.33	10.13	10.10			
Channel				55315	55820	55990	56160	56665	Tune-up limit (dBm)		
Frequency (MHz)				3557.5	3608	3625	3642	3692.5			
15	QPSK	1	0	16.21	16.05	15.96	16.08	15.93	17.3		
15	QPSK	1	37	16.12	15.98	15.93	15.93	15.85			
15	QPSK	1	74	16.10	16.07	15.85	15.97	15.83			
15	QPSK	36	0	15.71	15.59	15.41	15.54	15.36	16.3		
15	QPSK	36	20	15.78	15.53	15.46	15.53	15.31			
15	QPSK	36	39	15.66	15.66	15.41	15.33	15.20			
15	QPSK	75	0	15.62	15.62	15.49	15.41	15.34	16.3		
15	16QAM	1	0	15.54	15.52	15.41	15.37	15.33			
15	16QAM	1	37	15.65	15.54	15.40	15.37	15.39			
15	16QAM	1	74	15.74	15.47	15.32	15.36	15.35	15.3		
15	16QAM	36	0	14.76	14.70	14.54	14.50	14.48			
15	16QAM	36	20	14.54	14.60	14.44	14.47	14.44			
15	16QAM	36	39	14.55	14.62	14.26	14.50	14.41	15.3		
15	16QAM	75	0	14.63	14.68	14.51	14.45	14.44			
15	64QAM	1	0	14.62	14.76	14.56	14.66	14.55			
15	64QAM	1	37	14.33	14.57	14.42	14.62	14.55	15.3		
15	64QAM	1	74	14.48	14.51	14.53	14.53	14.63			
15	64QAM	36	0	14.63	14.54	14.46	14.54	14.29			
15	64QAM	36	20	14.68	14.63	14.42	14.42	14.44	15.3		
15	64QAM	36	39	14.68	14.41	14.19	14.51	14.45			
15	64QAM	75	0	14.57	14.49	14.59	14.38	14.37			
15	256QAM	1	0	10.41	10.51	10.19	10.32	10.22	11.3		
15	256QAM	1	37	10.07	10.26	10.19	10.29	10.23			
15	256QAM	1	74	10.17	10.18	10.21	10.19	10.27			
15	256QAM	36	0	10.23	10.29	10.12	10.13	9.95	11.3		
15	256QAM	36	20	10.35	10.28	10.12	10.17	10.14			
15	256QAM	36	39	10.24	10.08	9.82	10.17	10.19			
15	256QAM	75	0	10.14	10.27	10.26	10.07	10.07			
Channel				55259	55815	55990	56165	56693	Tune-up limit (dBm)		
Frequency (MHz)				3555	3607.5	3625	3642.5	3695			
10	QPSK	1	0	16.18	16.07	16.06	16.01	16.03	17.3		
10	QPSK	1	25	16.13	15.99	15.98	15.87	15.83			
10	QPSK	1	49	16.07	15.99	15.90	15.95	15.82			
10	QPSK	25	0	15.37	15.32	15.04	15.22	15.06	16.3		
10	QPSK	25	12	15.37	15.23	15.08	15.14	14.97			
10	QPSK	25	25	15.37	15.27	15.03	14.95	14.93			
10	QPSK	50	0	15.36	15.32	15.07	15.15	15.00	16.3		
10	16QAM	1	0	15.58	15.44	15.36	15.29	15.33			
10	16QAM	1	25	15.61	15.56	15.39	15.28	15.31			
10	16QAM	1	49	15.76	15.38	15.33	15.34	15.33	15.3		
10	16QAM	25	0	14.81	14.65	14.50	14.49	14.46			
10	16QAM	25	12	14.54	14.54	14.48	14.44	14.39			
10	16QAM	25	25	14.55	14.59	14.34	14.52	14.46	15.3		
10	16QAM	50	0	14.59	14.58	14.44	14.49	14.37			
10	64QAM	1	0	14.69	14.80	14.49	14.60	14.63			
10	64QAM	1	25	14.30	14.52	14.50	14.62	14.62	15.3		
10	64QAM	1	49	14.47	14.49	14.43	14.49	14.52			
10	64QAM	25	0	14.65	14.57	14.47	14.45	14.31			
10	64QAM	25	12	14.66	14.55	14.45	14.48	14.47	15.3		
10	64QAM	25	25	14.57	14.35	14.16	14.50	14.43			
10	64QAM	50	0	14.52	14.48	14.62	14.36	14.39			
10	256QAM	1	0	10.40	10.43	10.25	10.27	10.22	11.3		
10	256QAM	1	25	9.96	10.25	10.11	10.29	10.27			
10	256QAM	1	49	10.09	10.11	10.15	10.27	10.22			
10	256QAM	25	0	10.33	10.26	10.17	10.11	9.99	11.3		
10	256QAM	25	12	10.41	10.22	10.05	10.13	10.07			
10	256QAM	25	25	10.34	10.03	9.88	10.23	10.14			
10	256QAM	50	0	10.23	10.24	10.29	10.06	10.01			
Channel				55255	55910	55990	56110	56115	Tune-up limit (dBm)		
Frequency (MHz)				3552.5	3607	3625	3643	3697.5			
5	QPSK	1	0	16.19	16.05	16.02	16.01	15.95	17.3		
5	QPSK	1	12	16.07	15.94	15.88	15.85	15.79			
5	QPSK	1	24	16.07	16.01	15.94	15.92	15.84			
5	QPSK	12	0	15.65	15.65	15.37	15.50	15.38	16.3		
5	QPSK	12	7	15.69	15.48	15.46	15.49	15.35			
5	QPSK	12	13	15.67	15.63	15.37	15.34	15.24			
5	QPSK	25	0	15.68	15.68	15.41	15.41	15.30	16.3		
5	16QAM	1	0	15.60	15.49	15.79	15.69	15.74			
5	16QAM	1	12	15.67	15.53	15.69	15.67	15.76			
5	16QAM	1	24	15.90	15.47	15.68	15.71	15.68	15.3		
5	16QAM	12	0	14.77	14.65	14.53	14.47	14.54			
5	16QAM	12	7	14.49	14.57	14.51	14.41	14.49			
5	16QAM	12	13	14.62	14.52	14.31	14.49	14.50	15.3		
5	16QAM	25	0	14.57	14.58	14.48	14.49	14.43			
5	64QAM	1	0	14.70	14.73	14.51	14.69	14.63			
5	64QAM	1	12	14.39	14.51	14.42	14.66	14.56	15.3		
5	64QAM	1	24	14.48	14.45	14.47	14.49	14.58			
5	64QAM	12	0	14.57	14.55	14.51	14.55	14.27			
5	64QAM	12	7	14.68	14.57	14.38	14.45	14.42	15.3		
5	64QAM	12	13	14.63	14.33	14.19	14.55	14.50			
5	64QAM	25	0	14.58	14.52	14.65	14.37	14.38			
5	256QAM	1	0	10.35	10.47	10.22	10.32	10.21	11.3		
5	256QAM	1	12	10.02	10.27	10.19	10.27	10.27			
5	256QAM	1	24	10.10	10.15	10.13	10.29	10.34			
5	256QAM	12	0	10.31	10.29	10.17	10.19	9.98	11.3		
5	256QAM	12	7	10.35	10.22	10.14	10.15	10.07			
5	256QAM	12	13	10.31	10.04	9.81	10.19	10.15			



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Combination:20MHz+20MHz(100RB+100RB)

REPORT No.: SZ24070315S01

PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
20850	20850	21048	QPSK	1	0	0	0	1	0	13.06	13.80
21100	21001	21199	QPSK	1	0	0	0	1	0	13.10	13.80
21350	21152	21350	QPSK	1	0	0	0	1	0	13.08	13.80
20850	20850	21048	16QAM	1	0	0	0	1	0	12.16	12.80
21100	21001	21199	16QAM	1	0	0	0	1	0	12.17	12.80
21350	21152	21350	16QAM	1	0	0	0	1	0	12.13	12.80
20850	20850	21048	64QAM	1	0	0	0	1	0	11.19	11.80
21100	21001	21199	64QAM	1	0	0	0	1	0	11.30	11.80
21350	21152	21350	64QAM	1	0	0	0	1	0	11.16	11.80
20850	20850	21048	256QAM	1	0	0	0	1	0	8.11	8.80
21100	21001	21199	256QAM	1	0	0	0	1	0	8.12	8.80
21350	21152	21350	256QAM	1	0	0	0	1	0	8.05	8.80
20850	20850	21048	QPSK	50	0	0	0	1	0	12.10	12.80
21100	21001	21199	QPSK	50	0	0	0	1	0	12.17	12.80
21350	21152	21350	QPSK	50	0	0	0	1	0	12.08	12.80

CA_7C Ant 0

Combination:20MHz+20MHz(100RB+100RB)

PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
20850	20850	21048	QPSK	1	0	0	0	1	0	12.99	13.70
21100	21001	21199	QPSK	1	0	0	0	1	0	13.00	13.70
21350	21152	21350	QPSK	1	0	0	0	1	0	12.90	13.70
20850	20850	21048	16QAM	1	0	0	0	1	0	12.09	12.70
21100	21001	21199	16QAM	1	0	0	0	1	0	12.20	12.70
21350	21152	21350	16QAM	1	0	0	0	1	0	12.13	12.70
20850	20850	21048	64QAM	1	0	0	0	1	0	11.16	11.70
21100	21001	21199	64QAM	1	0	0	0	1	0	11.17	11.70
21350	21152	21350	64QAM	1	0	0	0	1	0	11.12	11.70
20850	20850	21048	256QAM	1	0	0	0	1	0	8.01	8.70
21100	21001	21199	256QAM	1	0	0	0	1	0	8.03	8.70
21350	21152	21350	256QAM	1	0	0	0	1	0	8.02	8.70
20850	20850	21048	QPSK	50	0	0	0	1	0	12.08	12.70
21100	21001	21199	QPSK	50	0	0	0	1	0	12.16	12.70
21350	21152	21350	QPSK	50	0	0	0	1	0	12.07	12.70

CA_12B Ant 1

Combination:5MHz+10MHz(25RB+50RB)

PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
23060	23038	23110	QPSK	1	0	0	0	1	0	22.06	22.80
23095	23048	23120	QPSK	1	0	0	0	1	0	22.13	22.80
23130	23058	23130	QPSK	1	0	0	0	1	0	22.04	22.80
23060	23038	23110	16QAM	1	0	0	0	1	0	21.08	21.80
23095	23048	23120	16QAM	1	0	0	0	1	0	21.10	21.80
23130	23058	23130	16QAM	1	0	0	0	1	0	21.06	21.80
23060	23038	23110	64QAM	1	0	0	0	1	0	20.19	20.80
23095	23048	23120	64QAM	1	0	0	0	1	0	20.23	20.80
23130	23058	23130	64QAM	1	0	0	0	1	0	20.14	20.80
23060	23038	23110	256QAM	1	0	0	0	1	0	17.11	17.80
23095	23048	23120	256QAM	1	0	0	0	1	0	17.15	17.80
23130	23058	23130	256QAM	1	0	0	0	1	0	17.12	17.80
23060	23038	23110	QPSK	25	0	0	0	1	0	21.00	21.80
23095	23048	23120	QPSK	25	0	0	0	1	0	21.09	21.80
23130	23058	23130	QPSK	25	0	0	0	1	0	21.07	21.80

CA_12B Ant 0

Combination:5MHz+10MHz(25RB+50RB)

PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
23060	23038	23110	QPSK	1	0	0	0	1	0	17.32	18.10
23095	23048	23120	QPSK	1	0	0	0	1	0	17.40	18.10
23130	23058	23130	QPSK	1	0	0	0	1	0	17.28	18.10
23060	23038	23110	16QAM	1	0	0	0	1	0	16.37	17.10

2-MORLAB	23048	23120	16QAM	1	0	0	0	1	0	16.43	17.10
23130	23058	23130	16QAM	1	0	0	0	1	0	16.39	17.10
23060	23038	23110	64QAM	1	0	0	0	1	0	15.29	16.10
23095	23048	23120	64QAM	1	0	0	0	1	0	15.37	16.10
23130	23058	23130	64QAM	1	0	0	0	1	0	15.38	16.10
23060	23038	23110	256QAM	1	0	0	0	1	0	12.32	13.10
23095	23048	23120	256QAM	1	0	0	0	1	0	12.29	13.10
23130	23058	23130	256QAM	1	0	0	0	1	0	12.27	13.10
23060	23038	23110	QPSK	25	0	0	0	1	0	16.31	17.10
23095	23048	23120	QPSK	25	0	0	0	1	0	16.34	17.10
23130	23058	23130	QPSK	25	0	0	0	1	0	16.28	17.10

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CA_38C Ant 5											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
37850	37850	38048	QPSK	1	0	0	0	1	0	14.52	15.10
38000	37901	38099	QPSK	1	0	0	0	1	0	14.55	15.10
38150	37952	38150	QPSK	1	0	0	0	1	0	14.53	15.10
37850	37850	38048	16QAM	1	0	0	0	1	0	13.64	14.10
38000	37901	38099	16QAM	1	0	0	0	1	0	13.69	14.10
38150	37952	38150	16QAM	1	0	0	0	1	0	13.68	14.10
37850	37850	38048	64QAM	1	0	0	0	1	0	12.41	13.10
38000	37901	38099	64QAM	1	0	0	0	1	0	12.44	13.10
38150	37952	38150	64QAM	1	0	0	0	1	0	12.42	13.10
37850	37850	38048	256QAM	1	0	0	0	1	0	9.48	10.10
38000	37901	38099	256QAM	1	0	0	0	1	0	9.52	10.10
38150	37952	38150	256QAM	1	0	0	0	1	0	9.50	10.10
37850	37850	38048	QPSK	50	0	0	0	1	0	13.43	14.10
38000	37901	38099	QPSK	50	0	0	0	1	0	13.45	14.10
38150	37952	38150	QPSK	50	0	0	0	1	0	13.44	14.10

CA_38C Ant 0											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
37850	37850	38048	QPSK	1	0	0	0	1	0	15.84	16.50
38000	37901	38099	QPSK	1	0	0	0	1	0	15.93	16.50
38150	37952	38150	QPSK	1	0	0	0	1	0	15.89	16.50
37850	37850	38048	16QAM	1	0	0	0	1	0	14.88	15.50
38000	37901	38099	16QAM	1	0	0	0	1	0	14.91	15.50
38150	37952	38150	16QAM	1	0	0	0	1	0	14.87	15.50
37850	37850	38048	64QAM	1	0	0	0	1	0	13.86	14.50
38000	37901	38099	64QAM	1	0	0	0	1	0	13.94	14.50
38150	37952	38150	64QAM	1	0	0	0	1	0	13.89	14.50
37850	37850	38048	256QAM	1	0	0	0	1	0	10.80	11.50
38000	37901	38099	256QAM	1	0	0	0	1	0	10.86	11.50
38150	37952	38150	256QAM	1	0	0	0	1	0	10.79	11.50
37850	37850	38048	QPSK	50	0	0	0	1	0	14.86	15.50
38000	37901	38099	QPSK	50	0	0	0	1	0	14.87	15.50
38150	37952	38150	QPSK	50	0	0	0	1	0	14.82	15.50

CA_41C Ant 5 (PC3)											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	17.41	18.10
40620	40521	40719	QPSK	1	0	0	0	1	0	17.48	18.10
41490	41292	41490	QPSK	1	0	0	0	1	0	17.43	18.10
39750	39750	39948	16QAM	1	0	0	0	1	0	16.54	17.10
40620	40521	40719	16QAM	1	0	0	0	1	0	16.63	17.10
41490	41292	41490	16QAM	1	0	0	0	1	0	16.61	17.10
39750	39750	39948	64QAM	1	0	0	0	1	0	15.58	16.10
40620	40521	40719	64QAM	1	0	0	0	1	0	15.64	16.10
41490	41292	41490	64QAM	1	0	0	0	1	0	15.56	16.10
39750	39750	39948	256QAM	1	0	0	0	1	0	12.41	13.10
40620	40521	40719	256QAM	1	0	0	0	1	0	12.54	13.10
41490	41292	41490	256QAM	1	0	0	0	1	0	12.45	13.10

3-MORLAB	39750	39948	QPSK	50	0	0	0	1	0	16.56	17.10
40620	40521	40719	QPSK	50	0	0	0	1	0	15.68	16.30
41490	41292	41490	QPSK	50	0	0	0	1	0	16.52	17.10

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CA_41C Ant 0 (PC3)											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	15.64	16.30
40620	40521	40719	QPSK	1	0	0	0	1	0	15.73	16.30
41490	41292	41490	QPSK	1	0	0	0	1	0	15.69	16.30
39750	39750	39948	16QAM	1	0	0	0	1	0	14.82	15.30
40620	40521	40719	16QAM	1	0	0	0	1	0	14.88	15.30
41490	41292	41490	16QAM	1	0	0	0	1	0	14.87	15.30
39750	39750	39948	64QAM	1	0	0	0	1	0	13.75	14.30
40620	40521	40719	64QAM	1	0	0	0	1	0	13.85	14.30
41490	41292	41490	64QAM	1	0	0	0	1	0	13.79	14.30
39750	39750	39948	256QAM	1	0	0	0	1	0	9.83	11.30
40620	40521	40719	256QAM	1	0	0	0	1	0	9.94	11.30
41490	41292	41490	256QAM	1	0	0	0	1	0	9.88	11.30
39750	39750	39948	QPSK	50	0	0	0	1	0	14.79	15.30
40620	40521	40719	QPSK	50	0	0	0	1	0	14.86	15.30
41490	41292	41490	QPSK	50	0	0	0	1	0	14.82	15.30

CA_41C Ant 5 (PC2)											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	16.44	17.10
40620	40521	40719	QPSK	1	0	0	0	1	0	16.51	17.10
41490	41292	41490	QPSK	1	0	0	0	1	0	16.46	17.10
39750	39750	39948	16QAM	1	0	0	0	1	0	15.57	16.10
40620	40521	40719	16QAM	1	0	0	0	1	0	15.66	16.10
41490	41292	41490	16QAM	1	0	0	0	1	0	15.64	16.10
39750	39750	39948	64QAM	1	0	0	0	1	0	14.61	15.10
40620	40521	40719	64QAM	1	0	0	0	1	0	14.67	15.10
41490	41292	41490	64QAM	1	0	0	0	1	0	14.59	15.10
39750	39750	39948	256QAM	1	0	0	0	1	0	11.44	12.10
40620	40521	40719	256QAM	1	0	0	0	1	0	11.57	12.10
41490	41292	41490	256QAM	1	0	0	0	1	0	11.48	12.10
39750	39750	39948	QPSK	50	0	0	0	1	0	15.59	16.10
40620	40521	40719	QPSK	50	0	0	0	1	0	15.71	16.10
41490	41292	41490	QPSK	50	0	0	0	1	0	15.55	16.10

CA_41C Ant 0 (PC2)											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	17.79	18.50
40620	40521	40719	QPSK	1	0	0	0	1	0	17.88	18.50
41490	41292	41490	QPSK	1	0	0	0	1	0	17.84	18.50
39750	39750	39948	16QAM	1	0	0	0	1	0	16.97	17.50
40620	40521	40719	16QAM	1	0	0	0	1	0	17.03	17.50
41490	41292	41490	16QAM	1	0	0	0	1	0	17.02	17.50
39750	39750	39948	64QAM	1	0	0	0	1	0	15.90	16.50
40620	40521	40719	64QAM	1	0	0	0	1	0	16.00	16.50
41490	41292	41490	64QAM	1	0	0	0	1	0	15.94	16.50
39750	39750	39948	256QAM	1	0	0	0	1	0	12.92	13.50
40620	40521	40719	256QAM	1	0	0	0	1	0	12.96	13.50
41490	41292	41490	256QAM	1	0	0	0	1	0	12.87	13.50
39750	39750	39948	QPSK	50	0	0	0	1	0	16.94	17.50
40620	40521	40719	QPSK	50	0	0	0	1	0	17.01	17.50
41490	41292	41490	QPSK	50	0	0	0	1	0	16.97	17.50

CA_66B Ant 5											
Combination:15MHz+10MHz(75RB+25RB)											
PCC				PCC		SCC					

PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
			RB Size	RB Offset	RB Size	RB Offset				
132070	132047	132140	QPSK	1	0	0	1	0	14.22	14.80
132322	132398	132491	QPSK	1	0	0	1	0	14.26	14.80
132572	132549	132642	QPSK	1	0	0	1	0	14.17	14.80
132070	132047	132140	16QAM	1	0	0	1	0	13.10	13.80
132322	132398	132491	16QAM	1	0	0	1	0	13.23	13.80
132572	132549	132642	16QAM	1	0	0	1	0	13.14	13.80
132070	132047	132140	64QAM	1	0	0	1	0	12.22	12.80
132322	132398	132491	64QAM	1	0	0	1	0	12.34	12.80
132572	132549	132642	64QAM	1	0	0	1	0	12.24	12.80
132070	132047	132140	256QAM	1	0	0	1	0	9.14	9.80
132322	132398	132491	256QAM	1	0	0	1	0	9.22	9.80
132572	132549	132642	256QAM	1	0	0	1	0	9.15	9.80
132070	132047	132140	QPSK	36	0	0	1	0	13.10	13.80
132322	132398	132491	QPSK	36	0	0	1	0	13.19	13.80
132572	132549	132642	QPSK	36	0	0	1	0	13.13	13.80

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CA_66B Ant 0											
Combination:15MHz+10MHz(75RB+25RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
132070	132047	132140	QPSK	1	0	0	0	1	0	14.02	14.80
132322	132398	132491	QPSK	1	0	0	0	1	0	14.06	14.80
132572	132549	132642	QPSK	1	0	0	0	1	0	13.97	14.80
132070	132047	132140	16QAM	1	0	0	0	1	0	12.90	13.80
132322	132398	132491	16QAM	1	0	0	0	1	0	13.03	13.80
132572	132549	132642	16QAM	1	0	0	0	1	0	12.94	13.80
132070	132047	132140	64QAM	1	0	0	0	1	0	12.02	12.80
132322	132398	132491	64QAM	1	0	0	0	1	0	12.14	12.80
132572	132549	132642	64QAM	1	0	0	0	1	0	12.04	12.80
132070	132047	132140	256QAM	1	0	0	0	1	0	8.94	9.80
132322	132398	132491	256QAM	1	0	0	0	1	0	9.02	9.80
132572	132549	132642	256QAM	1	0	0	0	1	0	8.95	9.80
132070	132047	132140	QPSK	36	0	0	0	1	0	12.90	13.80
132322	132398	132491	QPSK	36	0	0	0	1	0	12.99	13.80
132572	132549	132642	QPSK	36	0	0	0	1	0	12.93	13.80

CA_66C Ant 5											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
132070	132072	132270	QPSK	1	0	0	0	1	0	14.07	14.80
132322	132323	132521	QPSK	1	0	0	0	1	0	14.11	14.80
132572	132374	132572	QPSK	1	0	0	0	1	0	14.02	14.80
132070	132072	132270	16QAM	1	0	0	0	1	0	13.04	13.80
132322	132323	132521	16QAM	1	0	0	0	1	0	13.17	13.80
132572	132374	132572	16QAM	1	0	0	0	1	0	13.08	13.80
132070	132072	132270	64QAM	1	0	0	0	1	0	12.07	12.80
132322	132323	132521	64QAM	1	0	0	0	1	0	12.19	12.80
132572	132374	132572	64QAM	1	0	0	0	1	0	12.09	12.80
132070	132072	132270	256QAM	1	0	0	0	1	0	9.14	9.80
132322	132323	132521	256QAM	1	0	0	0	1	0	9.19	9.80
132572	132374	132572	256QAM	1	0	0	0	1	0	9.08	9.80
132070	132072	132270	QPSK	50	0	0	0	1	0	12.95	13.50
132322	132323	132521	QPSK	50	0	0	0	1	0	13.04	13.50
132572	132374	132572	QPSK	50	0	0	0	1	0	12.98	13.50

CA_66C Ant 0											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
132070	132072	132270	QPSK	1	0	0	0	1	0	14.09	14.80
132322	132323	132521	QPSK	1	0	0	0	1	0	14.13	14.80
132572	132374	132572	QPSK	1	0	0	0	1	0	14.04	14.80
132070	132072	132270	16QAM	1	0	0	0	1	0	12.97	13.80
132322	132323	132521	16QAM	1	0	0	0	1	0	13.10	13.80

132070	132374	132572	16QAM	1	0	0	0	1	0	13.01	13.80
132322	132072	132270	64QAM	1	0	0	0	1	0	12.21	12.80
132572	132374	132572	64QAM	1	0	0	0	1	0	12.11	12.80
132070	132072	132270	256QAM	1	0	0	0	1	0	9.05	9.80
132322	132323	132521	256QAM	1	0	0	0	1	0	9.11	9.80
132572	132374	132572	256QAM	1	0	0	0	1	0	9.03	9.80
132070	132072	132270	QPSK	50	0	0	0	1	0	12.97	13.80
132322	132323	132521	QPSK	50	0	0	0	1	0	13.06	13.80
132572	132374	132572	QPSK	50	0	0	0	1	0	13.00	13.80

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n2 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	15.17	15.12	14.87	16.2
20		1	53	15.14	15.09	14.98	
20		1	104	15.16	14.95	15.00	
20		50	1	14.57	14.37	14.24	16.2
20	DFT-s-OFDM QPSK	50	25	15.15	14.99	14.90	
20		50	50	14.55	14.35	14.33	
20		100	0	14.66	14.47	14.39	
20		1	1	15.23	15.31	15.25	16.2
20	DFT-s-OFDM 16QAM	1	53	15.17	15.08	14.93	
20		1	104	15.17	14.94	14.67	
20		50	1	14.35	14.31	14.24	16.2
20		50	25	15.20	15.26	15.16	
20	DFT-s-OFDM 64QAM	50	50	14.39	14.38	14.30	
20		100	0	15.00	15.10	15.05	
20	DFT-s-OFDM 256QAM	1	1	14.25	14.31	14.17	15.2
20	CP-OFDM QPSK	1	1	12.16	12.32	12.07	13.2
20	CP-OFDM 16QAM	1	1	10.07	9.97	9.85	11.2
20	CP-OFDM 64QAM	1	1	13.50	13.63	13.55	14.2
20	CP-OFDM 256QAM	1	1	12.96	12.94	12.77	14.2
20		1	1	11.06	10.95	10.79	12.2
20		1	1	8.02	7.97	7.87	9.2
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	15.20	15.12	14.94	16.2
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	14.84	15.05	14.95	16.2
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	14.98	15.13	14.60	16.2

n2 (PC3)(ANT4)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	15
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	14.17	14.11	13.96	15
20		1	53	14.15	14.09	13.95	
20		1	104	14.08	13.98	14.04	
20		50	1	13.53	13.50	13.43	15
20		50	25	14.13	14.09	13.97	
20		50	50	13.56	13.46	13.38	
20		100	0	13.61	13.56	13.45	
20	DFT-s-OFDM QPSK	1	1	14.18	14.20	14.15	15
20		1	53	14.09	14.07	13.68	
20		1	104	14.18	14.04	14.06	
20		50	1	13.04	13.05	13.09	15
20		50	25	14.16	14.17	14.11	
20		50	50	13.08	13.02	14.03	
20		100	0	14.04	14.06	13.90	
20	DFT-s-OFDM 16QAM	1	1	12.82	12.93	12.68	14
20	DFT-s-OFDM 64QAM	1	1	11.24	11.30	11.14	13
20	DFT-s-OFDM 256QAM	1	1	9.04	8.95	8.84	10
20	CP-OFDM QPSK	1	1	12.63	12.69	12.51	14
20	CP-OFDM 16QAM	1	1	11.98	12.03	11.80	13
20	CP-OFDM 64QAM	1	1	10.09	10.05	9.84	11
20	CP-OFDM 256QAM	1	1	7.06	7.07	6.93	8
Channel				371500	376000	380500	15
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	14.07	14.03	13.96	15
Channel				371000	376000	381000	15
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	14.13	14.04	13.89	15
Channel				370500	376000	381500	15
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	14.00	13.86	13.82	15

n2 (PC3)(ANT5)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	14.69	14.69	14.57	15.7
20		1	53	14.70	14.65	14.55	
20		1	104	14.63	14.58	14.62	
20		50	1	14.11	14.10	13.93	15.7
20		50	25	14.67	14.69	14.64	
20		50	50	14.06	13.88	13.98	
20		100	0	14.18	14.06	14.04	
20	DFT-s-OFDM QPSK	1	1	14.70	14.75	14.68	15.7
20		1	53	14.67	14.64	14.56	
20		1	104	14.61	14.53	14.51	
20		50	1	13.81	13.87	13.70	15.7
20		50	25	14.68	14.70	14.66	
20		50	50	13.88	13.93	13.84	
20		100	0	14.51	14.59	14.57	
20	DFT-s-OFDM 16QAM	1	1	13.50	13.51	13.32	14.7
20	DFT-s-OFDM 64QAM	1	1	11.99	12.03	11.84	12.7
20	DFT-s-OFDM 256QAM	1	1	9.72	9.75	9.53	10.7
20	CP-OFDM QPSK	1	1	13.33	13.38	13.16	14.7
20	CP-OFDM 16QAM	1	1	12.65	12.71	12.54	13.7
20	CP-OFDM 64QAM	1	1	10.74	10.69	10.54	11.7
20	CP-OFDM 256QAM	1	1	7.64	7.67	7.55	8.7
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	14.69	14.64	14.55	15.7
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	14.65	14.68	14.51	15.7
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	14.66	14.53	14.36	15.7

n2 (PC3)(ANT6)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	14.94	14.83	14.68	15.7
20		1	53	14.92	14.81	14.70	
20		1	104	14.93	14.71	14.78	
20		50	1	14.40	14.24	14.11	15.7
20	DFT-s-OFDM QPSK	50	25	15.00	14.73	14.67	
20		50	50	14.36	14.23	14.03	
20		100	0	14.48	14.26	14.09	
20		1	1	14.98	15.04	14.90	15.7
20	DFT-s-OFDM 16QAM	1	53	14.89	14.90	14.60	
20		1	104	14.94	14.97	14.85	
20		50	1	13.82	13.89	13.76	15.7
20		50	25	14.92	14.96	14.82	
20		50	50	13.87	13.85	13.78	
20		100	0	14.83	14.86	14.72	
20	DFT-s-OFDM 64QAM	1	1	13.77	13.72	13.46	14.7
20	DFT-s-OFDM 256QAM	1	1	12.14	12.14	11.82	12.7
20	CP-OFDM QPSK	1	1	9.85	9.78	9.56	10.7
20	CP-OFDM 16QAM	1	1	13.58	13.46	13.32	14.7
20	CP-OFDM 64QAM	1	1	12.81	12.83	12.56	13.7
20	CP-OFDM 256QAM	1	1	10.90	10.81	10.55	11.7
20	CP-OFDM 256QAM	1	1	7.88	7.78	7.58	8.7
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	15.00	14.86	14.68	15.7
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	14.96	14.82	14.49	15.7
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	14.79	14.68	14.42	15.7

n5 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	19
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	17.93	17.88	17.86	19
20		1	53	17.77	17.81	17.79	
20		1	104	17.81	17.80	17.74	
20		50	1	17.10	17.06	17.11	19
20	DFT-s-OFDM QPSK	50	25	17.74	17.65	17.61	
20		50	50	17.10	17.06	17.04	
20		100	0	17.23	17.28	17.25	
20		1	1	17.88	17.96	17.90	19
20	DFT-s-OFDM 16QAM	1	53	17.72	17.74	17.74	
20		1	104	17.70	17.80	17.81	
20		50	1	17.28	17.26	17.25	19
20		50	25	17.81	17.84	17.73	
20	DFT-s-OFDM 64QAM	50	50	17.25	17.21	17.20	
20		100	0	17.81	17.78	17.76	17
20		1	1	16.31	16.35	16.35	
20		1	1	14.94	15.00	14.96	16
20	DFT-s-OFDM 256QAM	1	1	12.48	12.40	12.45	13
20	CP-OFDM QPSK	1	1	16.04	15.98	16.01	17
20	CP-OFDM 16QAM	1	1	15.42	15.41	15.43	16
20	CP-OFDM 64QAM	1	1	13.53	13.49	13.45	14
20	CP-OFDM 256QAM	1	1	16.41	16.45	16.44	17
Channel				166300	167300	168300	19
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	17.90	17.87	17.80	19
Channel				165800	167300	168800	19
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	17.84	17.76	17.78	19
Channel				165300	167300	169300	19
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	17.77	17.67	17.62	19

n5 (PC3)(ANT1)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	21.2
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	19.85	19.84	19.88	21.2
20		1	53	19.89	19.84	19.86	
20		1	104	19.85	19.83	19.87	
20		50	1	19.26	19.24	19.27	21.2
20		50	25	19.91	19.91	19.88	
20		50	50	19.25	19.27	19.23	
20		100	0	19.45	19.41	19.32	
20	DFT-s-OFDM QPSK	1	1	19.88	19.94	19.93	21.2
20		1	53	19.87	19.87	19.92	
20		1	104	19.86	19.88	19.84	
20		50	1	19.31	19.26	19.31	21.2
20		50	25	19.90	19.92	19.87	
20		50	50	19.30	19.31	19.25	
20		100	0	19.74	19.77	19.72	
20	DFT-s-OFDM 16QAM	1	1	18.72	18.76	18.75	20.2
20	DFT-s-OFDM 64QAM	1	1	17.23	17.15	17.19	18.2
20	DFT-s-OFDM 256QAM	1	1	14.82	14.82	14.89	16.2
20	CP-OFDM QPSK	1	1	18.52	18.56	18.56	20.2
20	CP-OFDM 16QAM	1	1	17.81	17.83	17.77	19.2
20	CP-OFDM 64QAM	1	1	15.93	15.93	15.83	17.2
20	CP-OFDM 256QAM	1	1	12.86	12.83	12.81	14.2
Channel				166300	167300	168300	21.2
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	19.91	19.92	19.91	21.2
Channel				165800	167300	168800	21.2
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	19.90	19.87	19.80	21.2
Channel				165300	167300	169300	21.2
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	19.84	19.75	19.71	21.2

n7 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	DFT-s-OFDM PI/2 BPSK	1	1	14.60	14.78	14.71	16
40		1	108	14.55	14.80	14.67	
40		1	214	14.75	14.71	14.75	
40		108	1	14.01	14.21	14.11	16
40		108	54	14.65	14.89	14.71	
40		108	108	14.12	14.19	14.12	
40		216	0	14.14	14.27	14.23	
40	DFT-s-OFDM QPSK	1	1	14.62	14.77	14.69	16
40		1	108	14.50	14.61	14.52	
40		1	214	14.65	14.66	14.68	
40		108	1	14.03	14.04	14.02	16
40		108	54	14.68	14.71	14.70	
40		108	108	14.05	14.01	14.07	
40		216	0	14.60	14.65	14.66	
40	DFT-s-OFDM 16QAM	1	1	12.62	12.60	12.70	14
40	DFT-s-OFDM 64QAM	1	1	11.70	11.89	11.92	13
40	DFT-s-OFDM 256QAM	1	1	9.61	9.54	9.60	11
40	CP-OFDM QPSK	1	1	12.90	13.09	13.11	14
40	CP-OFDM 16QAM	1	1	11.94	12.05	11.76	13
40	CP-OFDM 64QAM	1	1	10.42	10.51	10.64	12
40	CP-OFDM 256QAM	1	1	7.48	7.83	7.60	9
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	DFT-s-OFDM QPSK	1	1	14.45	14.60	14.69	16
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	DFT-s-OFDM QPSK	1	1	14.52	14.66	14.66	16
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	DFT-s-OFDM QPSK	1	1	14.40	14.57	14.68	16
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	DFT-s-OFDM QPSK	1	1	14.43	14.64	14.58	16
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	DFT-s-OFDM QPSK	1	1	14.49	14.65	14.66	16
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	DFT-s-OFDM QPSK	1	1	14.35	14.57	14.68	16

n7 (PC3) (ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	DFT-s-OFDM PI/2 BPSK	1	1	13.43	13.51	13.65	15.2
40		1	108	13.39	13.48	13.46	
40		1	214	13.66	13.65	13.58	
40		108	1	13.20	13.30	13.39	15.2
40		108	54	13.56	13.66	13.62	
40		108	108	13.27	13.33	13.22	
40		216	0	13.30	13.33	13.42	
40	DFT-s-OFDM QPSK	1	1	14.25	14.32	14.27	15.2
40		1	108	14.22	14.20	14.25	
40		1	214	14.14	14.23	14.10	
40		108	1	13.25	13.31	13.21	15.2
40		108	54	14.12	14.15	13.99	
40		108	108	13.23	13.27	13.17	
40		216	0	13.72	13.74	13.71	
40	DFT-s-OFDM 16QAM	1	1	13.05	12.90	13.43	14.2
40	DFT-s-OFDM 64QAM	1	1	10.70	11.00	10.70	12.2
40	DFT-s-OFDM 256QAM	1	1	9.03	9.12	8.70	11.2
40	CP-OFDM QPSK	1	1	11.70	11.75	11.73	13.2
40	CP-OFDM 16QAM	1	1	10.76	10.85	10.72	12.2
40	CP-OFDM 64QAM	1	1	10.25	10.43	10.48	11.2
40	CP-OFDM 256QAM	1	1	6.75	6.72	7.05	8.2
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	DFT-s-OFDM QPSK	1	1	13.96	14.18	13.89	15.2
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	DFT-s-OFDM QPSK	1	1	13.82	14.21	13.93	15.2
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	DFT-s-OFDM QPSK	1	1	13.92	14.28	13.92	15.2
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	DFT-s-OFDM QPSK	1	1	14.00	14.23	14.21	15.2
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	DFT-s-OFDM QPSK	1	1	14.04	14.30	14.29	15.2
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	DFT-s-OFDM QPSK	1	1	13.95	14.23	14.22	15.2

n7 (PC3)(ANT5)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	DFT-s-OFDM PI/2 BPSK	1	1	14.10	14.12	14.01	15.2
40		1	108	13.85	13.97	13.97	
40		1	214	14.05	14.08	14.05	
40		108	1	13.31	13.47	13.41	15.2
40		108	54	13.95	14.08	14.01	
40		108	108	13.42	13.41	13.42	
40		216	0	13.44	13.54	13.53	
40	DFT-s-OFDM QPSK	1	1	14.02	14.14	14.09	15.2
40		1	108	13.90	14.03	13.92	
40		1	214	14.05	14.04	14.08	
40		108	1	13.23	13.30	13.35	15.2
40		108	54	13.93	14.03	14.00	
40		108	108	13.37	13.46	13.47	
40		216	0	13.90	13.97	13.91	
40	DFT-s-OFDM 16QAM	1	1	12.75	12.82	12.97	14.2
40	DFT-s-OFDM 64QAM	1	1	11.10	11.24	11.32	12.2
40	DFT-s-OFDM 256QAM	1	1	8.79	8.88	9.00	10.2
40	CP-OFDM QPSK	1	1	7.01	7.05	7.12	8.2
40	CP-OFDM 16QAM	1	1	11.77	11.95	11.93	12.2
40	CP-OFDM 64QAM	1	1	9.82	9.95	10.04	11.2
40	CP-OFDM 256QAM	1	1	6.88	6.97	7.00	8.2
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	DFT-s-OFDM QPSK	1	1	13.85	14.00	14.09	15.2
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	DFT-s-OFDM QPSK	1	1	13.92	14.06	14.06	15.2
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	DFT-s-OFDM QPSK	1	1	13.80	13.97	14.08	15.2
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	DFT-s-OFDM QPSK	1	1	13.83	14.04	13.98	15.2
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	DFT-s-OFDM QPSK	1	1	13.89	14.05	14.06	15.2
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	DFT-s-OFDM QPSK	1	1	13.75	13.97	14.08	15.2

n7 (PC3)(ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	DFT-s-OFDM PI/2 BPSK	1	1	14.20	14.30	14.35	15.7
40		1	108	14.23	14.27	14.24	
40		1	214	14.48	14.48	14.38	
40		108	1	13.70	13.79	13.85	15.7
40		108	54	14.35	14.48	14.43	
40		108	108	13.83	13.76	13.80	
40		216	0	13.87	13.88	13.88	
40	DFT-s-OFDM QPSK	1	1	14.95	15.02	14.93	15.7
40		1	108	14.83	14.73	14.63	
40		1	214	14.48	14.82	14.55	
40		108	1	13.77	14.12	13.81	15.7
40		108	54	14.80	14.85	14.83	
40		108	108	14.03	13.74	13.83	
40		216	0	14.72	14.75	14.76	
40	DFT-s-OFDM 16QAM	1	1	13.35	13.58	13.95	14.7
40	DFT-s-OFDM 64QAM	1	1	11.69	12.02	12.34	12.7
40	DFT-s-OFDM 256QAM	1	1	9.79	10.12	10.22	10.7
40	CP-OFDM QPSK	1	1	12.88	13.07	13.03	13.7
40	CP-OFDM 16QAM	1	1	12.55	12.56	13.12	13.7
40	CP-OFDM 64QAM	1	1	10.86	10.99	11.14	11.7
40	CP-OFDM 256QAM	1	1	7.94	8.00	8.18	8.7
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	DFT-s-OFDM QPSK	1	1	14.73	14.90	14.86	15.7
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	DFT-s-OFDM QPSK	1	1	14.82	15.01	14.93	15.7
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	DFT-s-OFDM QPSK	1	1	14.69	14.97	14.81	15.7
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	DFT-s-OFDM QPSK	1	1	14.75	15.00	14.98	15.7
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	DFT-s-OFDM QPSK	1	1	14.60	15.01	15.00	15.7
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	DFT-s-OFDM QPSK	1	1	14.75	14.83	14.78	15.7

n12 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	DFT-s-OFDM PI/2 BPSK	1	1	18.81	18.71	18.71	20
15		1	39	18.78	18.78	18.71	
15		1	77	18.72	18.68	18.72	
15		36	1	18.20	18.24	18.17	20
15		36	18	18.84	18.87	18.81	
15		36	37	18.20	18.23	18.16	
15		75	0	18.16	18.20	18.16	
15	DFT-s-OFDM QPSK	1	1	18.36	18.62	18.66	20
15		1	39	18.78	18.90	18.89	
15		1	77	18.79	18.74	18.74	
15		36	1	18.11	18.03	18.13	20
15		36	18	18.76	18.89	18.84	
15		36	37	18.11	18.14	18.07	
15		75	0	18.62	18.66	18.62	
15	DFT-s-OFDM 16QAM	1	1	17.06	17.19	17.10	19
15	DFT-s-OFDM 64QAM	1	1	15.50	15.46	15.43	17
15	DFT-s-OFDM 256QAM	1	1	13.38	13.36	13.31	15
15	CP-OFDM QPSK	1	1	16.62	16.69	16.66	18
15	CP-OFDM 16QAM	1	1	16.05	16.03	15.99	17
15	CP-OFDM 64QAM	1	1	14.22	14.21	14.18	15
15	CP-OFDM 256QAM	1	1	11.32	11.29	11.29	12
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	DFT-s-OFDM QPSK	1	1	18.81	18.75	18.76	20
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	DFT-s-OFDM QPSK	1	1	18.76	18.75	18.64	20

n12 (PC3)(ANT1)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				141300	141500	141700	24
Frequency (MHz)				706.5	707.5	708.5	
15	DFT-s-OFDM PI/2 BPSK	1	1	22.73	22.68	22.71	24
15		1	39	22.68	22.66	22.68	
15		1	77	22.71	22.69	22.65	
15		36	1	22.04	22.04	22.02	24
15		36	18	22.76	22.78	22.75	
15		36	37	22.03	22.11	22.03	
15		75	0	22.12	22.10	22.09	
15	DFT-s-OFDM QPSK	1	1	22.49	22.70	22.55	24
15		1	39	22.72	22.84	22.74	
15		1	77	22.69	22.68	22.66	
15		36	1	22.09	22.09	22.03	24
15		36	18	22.79	22.81	22.77	
15		36	37	22.16	22.24	22.12	
15		75	0	22.74	22.74	22.69	
15	DFT-s-OFDM 16QAM	1	1	21.62	21.59	21.66	23
15	DFT-s-OFDM 64QAM	1	1	19.80	19.90	19.86	21
15	DFT-s-OFDM 256QAM	1	1	17.65	17.62	17.63	19
15	CP-OFDM QPSK	1	1	21.25	21.28	21.28	22
15	CP-OFDM 16QAM	1	1	20.66	20.69	20.64	21
15	CP-OFDM 64QAM	1	1	18.60	18.58	18.60	19
15	CP-OFDM 256QAM	1	1	15.75	15.72	15.74	17
Channel				140800	141500	142200	24
Frequency (MHz)				704	707.5	711	
10	DFT-s-OFDM QPSK	1	1	22.71	22.65	22.58	24
Channel				140300	141500	142700	24
Frequency (MHz)				701.5	707.5	713.5	
5	DFT-s-OFDM QPSK	1	1	22.63	22.58	22.57	24

n25 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				374000	376500	380000	
Frequency (MHz)				1870	1882.5	1900	
40	DFT-s-OFDM PI/2 BPSK	1	1	16.42	16.39	16.37	17.6
40		1	108	16.28	16.16	16.35	
40		1	214	16.21	16.32	16.42	
40		108	1	15.77	15.78	15.73	17.6
40		108	54	16.30	16.23	16.37	
40		108	108	15.62	15.73	15.78	
40		216	0	15.83	15.73	15.84	
40	DFT-s-OFDM QPSK	1	1	16.46	16.41	16.37	17.6
40		1	108	16.23	16.14	16.36	
40		1	214	16.21	16.17	16.31	
40		108	1	15.68	15.70	15.60	17.6
40		108	54	16.39	16.30	16.31	
40		108	108	15.82	15.77	15.84	
40		216	0	16.33	16.31	16.34	
40	DFT-s-OFDM 16QAM	1	1	15.24	15.25	15.12	16.6
40	DFT-s-OFDM 64QAM	1	1	13.65	13.62	13.64	14.6
40	DFT-s-OFDM 256QAM	1	1	11.35	11.31	11.33	12.6
40	CP-OFDM QPSK	1	1	14.22	14.30	14.55	15.6
40	CP-OFDM 16QAM	1	1	13.55	13.34	13.21	14.6
40	CP-OFDM 64QAM	1	1	12.42	12.33	12.34	13.6
40	CP-OFDM 256QAM	1	1	9.36	9.35	9.35	10.6
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	DFT-s-OFDM QPSK	1	1	16.41	16.30	16.17	17.6
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	DFT-s-OFDM QPSK	1	1	16.41	16.24	16.29	17.6
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM QPSK	1	1	16.38	16.29	16.15	17.6
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	16.43	16.32	16.22	17.6
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	16.44	16.23	16.14	17.6
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	DFT-s-OFDM QPSK	1	1	16.25	16.11	16.06	17.6

n25 (PC3)(ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				374000	376500	380000	
Frequency (MHz)				1870	1882.5	1900	
40	DFT-s-OFDM PI/2 BPSK	1	1	13.10	12.97	12.87	14
40		1	108	13.11	12.78	12.85	
40		1	214	13.04	12.88	12.92	
40		108	1	12.52	12.31	12.23	14
40		108	54	13.12	12.85	12.87	
40		108	108	12.47	12.28	12.28	
40		216	0	12.59	12.32	12.34	
40	DFT-s-OFDM QPSK	1	1	13.17	12.97	12.87	14
40		1	108	13.14	12.74	12.86	
40		1	214	13.02	12.84	12.81	
40		108	1	12.02	12.04	12.02	14
40		108	54	13.09	12.89	12.81	
40		108	108	12.03	12.10	12.04	
40		216	0	12.96	12.98	12.99	
40	DFT-s-OFDM 16QAM	1	1	11.91	11.64	11.62	13
40	DFT-s-OFDM 64QAM	1	1	10.40	10.07	10.14	11
40	DFT-s-OFDM 256QAM	1	1	8.13	7.95	7.83	9
40	CP-OFDM QPSK	1	1	11.74	11.48	11.46	13
40	CP-OFDM 16QAM	1	1	11.06	10.85	10.84	12
40	CP-OFDM 64QAM	1	1	9.15	9.01	8.84	10
40	CP-OFDM 256QAM	1	1	6.05	5.92	5.85	7
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	DFT-s-OFDM QPSK	1	1	12.96	12.85	12.72	14
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	DFT-s-OFDM QPSK	1	1	12.96	13.00	12.84	14
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM QPSK	1	1	12.93	12.84	12.70	14
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	12.98	12.87	12.77	14
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	12.99	12.78	12.69	14
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	DFT-s-OFDM QPSK	1	1	12.80	12.66	12.61	14

n25 (PC3)(ANT5)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				374000	376500	379000	14
Frequency (MHz)				1870	1882.5	1895	
40	DFT-s-OFDM PI/2 BPSK	1	1	13.02	13.01	12.99	14
40		1	108	12.88	12.75	12.72	
40		1	214	12.81	12.84	13.02	
40		108	1	12.37	12.28	12.25	14
40		108	54	12.90	12.79	12.78	
40		108	108	12.22	12.16	12.21	
40		216	0	12.43	12.32	12.33	
40	DFT-s-OFDM QPSK	1	1	13.06	13.01	12.96	14
40		1	108	12.83	12.70	12.65	
40		1	214	12.81	12.84	12.48	
40		108	1	12.18	12.10	12.01	14
40		108	54	12.99	12.91	12.93	
40		108	108	12.15	12.13	12.05	
40		216	0	12.97	12.83	12.87	
40	DFT-s-OFDM 16QAM	1	1	11.84	11.84	11.76	13
40	DFT-s-OFDM 64QAM	1	1	10.25	10.18	10.13	11
40	DFT-s-OFDM 256QAM	1	1	7.95	7.94	7.89	9
40	CP-OFDM QPSK	1	1	11.63	11.64	11.59	13
40	CP-OFDM 16QAM	1	1	10.95	10.96	10.90	12
40	CP-OFDM 64QAM	1	1	9.02	8.99	8.94	10
40	CP-OFDM 256QAM	1	1	5.96	5.98	5.94	7
Channel				373000	376500	380000	14
Frequency (MHz)				1865	1882.5	1900	
30	DFT-s-OFDM QPSK	1	1	13.01	12.90	12.77	14
Channel				372500	376500	380500	14
Frequency (MHz)				1862.5	1882.5	1902.5	
25	DFT-s-OFDM QPSK	1	1	13.01	13.05	12.89	14
Channel				372000	376500	381000	14
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM QPSK	1	1	12.98	12.89	12.75	14
Channel				371500	376500	381500	14
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	13.03	12.92	12.82	14
Channel				371000	376500	382000	14
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	13.04	12.83	12.74	14
Channel				370500	376500	382500	14
Frequency (MHz)				1852.5	1882.5	1912.5	
5	DFT-s-OFDM QPSK	1	1	12.85	12.71	12.66	14

n25 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	DFT-s-OFDM PI/2 BPSK	1	1	15.97	16.01	15.94	17
40		1	108	15.98	15.79	15.92	
40		1	214	15.91	15.87	15.99	
40		108	1	15.39	15.37	15.30	17
40		108	54	15.99	16.00	15.94	
40		108	108	15.34	15.30	15.35	
40		216	0	15.46	15.36	15.41	
40	DFT-s-OFDM QPSK	1	1	16.04	15.92	15.94	17
40		1	108	16.01	15.79	15.93	
40		1	214	15.89	15.87	15.88	
40		108	1	15.09	15.19	15.07	17
40		108	54	15.96	15.90	15.88	
40		108	108	15.06	15.13	15.01	
40		216	0	15.82	15.91	15.90	
40	DFT-s-OFDM 16QAM	1	1	14.78	14.78	14.69	16
40	DFT-s-OFDM 64QAM	1	1	13.27	13.22	13.21	14
40	DFT-s-OFDM 256QAM	1	1	11.00	11.08	10.90	12
40	CP-OFDM QPSK	1	1	14.61	14.61	14.53	16
40	CP-OFDM 16QAM	1	1	13.93	14.00	13.91	15
40	CP-OFDM 64QAM	1	1	12.02	12.13	11.91	13
40	CP-OFDM 256QAM	1	1	8.92	8.98	8.92	10
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	DFT-s-OFDM QPSK	1	1	15.92	15.81	15.68	17
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	DFT-s-OFDM QPSK	1	1	15.92	15.96	15.80	17
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM QPSK	1	1	15.89	15.80	15.66	17
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	15.94	15.83	15.73	17
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	15.95	15.74	15.65	17
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	DFT-s-OFDM QPSK	1	1	15.76	15.62	15.57	17

n26(814-824MHz) (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					163800		19
Frequency (MHz)					819		
10	DFT-s-OFDM PI/2 BPSK	1	1		17.87		19
10		1	26		17.81		
10		1	50		17.79		
10		25	1		17.21		19
10		25	12		17.86		
10		25	25		17.22		
10		50	0		17.26		
10	DFT-s-OFDM QPSK	1	1		17.90		19
10		1	26		17.89		
10		1	50		17.87		
10		25	1		17.09		19
10		25	12		17.87		
10		25	25		17.04		
10		50	0		17.68		
10	DFT-s-OFDM 16QAM	1	1		16.60		17
10	DFT-s-OFDM 64QAM	1	1		15.22		17
10	DFT-s-OFDM 256QAM	1	1		12.79		14
10	CP-OFDM QPSK	1	1		16.10		17
10	CP-OFDM 16QAM	1	1		14.88		16
10	CP-OFDM 64QAM	1	1		13.81		15
10	CP-OFDM 256QAM	1	1		10.83		12
Channel				163300	163800	164300	19
Frequency (MHz)				816.5	819	821.5	
5	DFT-s-OFDM QPSK	1	1	17.66	17.80	17.70	19

n26(814-824MHz) (PC3)(ANT1)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					163800		
Frequency (MHz)					819		
10	DFT-s-OFDM PI/2 BPSK	1	1		22.50		23.7
10		1	26		22.49		
10		1	50		22.46		
10		25	1		21.91		23.7
10		25	12		22.54		
10		25	25		21.94		
10		50	0		21.93		
10	DFT-s-OFDM QPSK	1	1		22.04		23.7
10		1	26		22.56		
10		1	50		22.53		
10		25	1		21.75		23.7
10		25	12		22.55		
10		25	25		21.74		
10		50	0		22.45		
10	DFT-s-OFDM 16QAM	1	1		21.43		22.7
10	DFT-s-OFDM 64QAM	1	1		19.73		20.7
10	DFT-s-OFDM 256QAM	1	1		17.47		18.7
10	CP-OFDM QPSK	1	1		21.14		22.7
10	CP-OFDM 16QAM	1	1		20.46		21.7
10	CP-OFDM 64QAM	1	1		18.49		19.7
10	CP-OFDM 256QAM	1	1		15.53		16.7
Channel				163300	163800	164300	Tune-up limit (dBm)
Frequency (MHz)				816.5	819	821.5	
5	DFT-s-OFDM QPSK	1	1	22.37	22.36	22.40	23.7

n26(824-849MHz) (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	17.68	17.84	17.72	19
20		1	53	17.67	17.75	17.64	
20		1	104	17.68	17.69	17.62	
20		50	1	17.09	17.11	17.11	19
20	DFT-s-OFDM QPSK	50	25	17.73	17.73	17.67	
20		50	50	17.03	17.06	17.12	
20		100	0	17.24	17.25	17.16	
20		1	1	17.87	17.84	17.82	19
20	DFT-s-OFDM 16QAM	1	53	17.75	17.82	17.79	
20		1	104	17.77	17.77	17.69	
20		50	1	17.19	17.00	17.03	19
20		50	25	17.78	17.76	17.67	
20	DFT-s-OFDM 64QAM	50	50	17.16	17.19	17.19	
20		100	0	17.55	17.66	17.61	
20	DFT-s-OFDM 256QAM	1	1	16.39	16.20	16.17	17
20	DFT-s-OFDM 64QAM	1	1	14.65	14.65	14.59	16
20	DFT-s-OFDM 256QAM	1	1	12.23	12.29	12.35	14
20	CP-OFDM QPSK	1	1	15.94	15.89	15.91	16
20	CP-OFDM 16QAM	1	1	15.25	15.30	15.19	16
20	CP-OFDM 64QAM	1	1	13.35	13.37	13.29	14
20	CP-OFDM 256QAM	1	1	10.28	10.40	10.24	11
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	17.82	17.81	17.77	19
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	17.73	17.55	17.56	19
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	17.79	17.62	17.62	19

n26(824-849MHz) (PC3)(ANT1)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	22.2
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	20.96	20.96	21.00	22.2
20		1	53	20.95	20.99	20.92	
20		1	104	20.96	20.91	20.90	
20		50	1	20.37	20.34	20.39	22.2
20		50	25	21.01	21.00	20.95	
20		50	50	20.31	20.29	20.40	
20		100	0	20.52	20.50	20.44	
20	DFT-s-OFDM QPSK	1	1	21.05	21.02	21.00	22.2
20		1	53	20.93	20.91	20.97	
20		1	104	20.95	20.94	20.87	
20		50	1	20.27	20.27	20.31	22.2
20		50	25	21.01	20.95	20.95	
20		50	50	20.24	20.20	20.27	
20		100	0	20.95	20.90	20.88	
20	DFT-s-OFDM 16QAM	1	1	20.01	19.79	19.79	21.2
20	DFT-s-OFDM 64QAM	1	1	18.27	18.13	18.21	19.2
20	DFT-s-OFDM 256QAM	1	1	15.85	15.89	15.97	16.2
20	CP-OFDM QPSK	1	1	19.56	19.50	19.53	20.2
20	CP-OFDM 16QAM	1	1	18.87	18.85	18.81	19.2
20	CP-OFDM 64QAM	1	1	16.97	16.97	16.91	17.2
20	CP-OFDM 256QAM	1	1	13.90	13.91	13.86	15.2
Channel				166300	167300	168300	22.2
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	21.00	20.99	20.95	22.2
Channel				165800	167300	168800	22.2
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	21.04	20.86	20.87	22.2
Channel				165300	167300	169300	22.2
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	20.93	20.76	20.76	22.2

n30 (PC3)(ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					462000		20.2
Frequency (MHz)					2310		
10	DFT-s-OFDM PI/2 BPSK	1	1		18.85		20.2
10		1	26		19.00		
10		1	50		18.96		
10		25	1		18.34		20.2
10		25	12		19.01		
10		25	25		18.44		
10		50	0		18.74		
10	DFT-s-OFDM QPSK	1	1		18.74		20.2
10		1	26		19.03		
10		1	50		18.65		
10		25	1		18.22		20.2
10		25	12		18.99		
10		25	25		18.40		
10		50	0		18.83		
10	DFT-s-OFDM 16QAM	1	1		17.76		19.2
10	DFT-s-OFDM 64QAM	1	1		16.12		17.2
10	DFT-s-OFDM 256QAM	1	1		13.97		15.2
10	CP-OFDM QPSK	1	1		17.38		18.2
10	CP-OFDM 16QAM	1	1		16.77		17.2
10	CP-OFDM 64QAM	1	1		14.92		15.2
10	CP-OFDM 256QAM	1	1		15.93		12.2
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	DFT-s-OFDM QPSK	1	1	18.61	18.89	18.90	20.2

n30 (PC3)(ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	DFT-s-OFDM PI/2 BPSK	1	1		13.63		14.9
10		1	26		13.70		
10		1	50		13.68		
10		25	1		13.01		14.9
10		25	12		13.69		
10		25	25		13.16		
10		50	0		13.03		
10	DFT-s-OFDM QPSK	1	1		13.52		14.9
10		1	26		13.73		
10		1	50		13.64		
10		25	1		12.98		14.9
10		25	12		13.65		
10		25	25		12.92		
10		50	0		13.61		
10	DFT-s-OFDM 16QAM	1	1		12.38		13.9
10	DFT-s-OFDM 64QAM	1	1		10.76		11.9
10	DFT-s-OFDM 256QAM	1	1		8.65		9.9
10	CP-OFDM QPSK	1	1		12.04		13.9
10	CP-OFDM 16QAM	1	1		11.46		12.9
10	CP-OFDM 64QAM	1	1		9.60		10.9
10	CP-OFDM 256QAM	1	1		6.63		7.9
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	DFT-s-OFDM QPSK	1	1	13.51	13.63	13.67	14.9

n38 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	16.74	16.83	16.86	18
40		1	53	16.59	16.49	16.55	
40		1	104	16.55	16.43	16.57	
40		50	1	16.23	16.20	16.21	18
40	DFT-s-OFDM QPSK	50	25	16.79	16.66	16.76	
40		50	50	16.07	15.97	16.06	
40		100	0	16.31	16.24	16.23	
40		1	1	16.85	16.89	16.92	18
40	DFT-s-OFDM 16QAM	1	53	16.56	16.48	16.52	
40		1	104	16.56	16.33	16.55	
40		50	1	16.06	16.02	16.03	18
40		50	25	16.78	16.80	16.81	
40	DFT-s-OFDM 64QAM	50	50	16.02	16.04	16.00	
40		100	0	16.80	16.80	16.75	
40	DFT-s-OFDM 256QAM	1	1	15.45	15.84	15.70	17
40	DFT-s-OFDM 64QAM	1	1	14.06	14.17	14.19	15
40	DFT-s-OFDM 256QAM	1	1	11.89	12.05	12.01	13
40	CP-OFDM QPSK	1	1	15.36	15.41	15.42	16
40	CP-OFDM 16QAM	1	1	14.74	14.75	14.83	15
40	CP-OFDM 64QAM	1	1	12.72	13.04	12.89	14
40	CP-OFDM 256QAM	1	1	9.88	10.07	9.73	11
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	DFT-s-OFDM QPSK	1	1	16.80	16.90	16.85	18
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	DFT-s-OFDM QPSK	1	1	16.69	16.81	16.75	18
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	DFT-s-OFDM QPSK	1	1	16.71	16.71	16.68	18
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	DFT-s-OFDM QPSK	1	1	16.74	16.74	16.69	18

n38 (PC3)(ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	13.60	13.71	13.72	14.7
40		1	53	13.45	13.48	13.41	
40		1	104	13.41	13.47	13.43	
40		50	1	13.09	13.21	13.07	14.7
40	DFT-s-OFDM QPSK	50	25	13.65	13.66	13.62	
40		50	50	12.93	13.01	12.92	
40		100	0	13.17	13.18	13.09	
40		1	1	13.71	13.74	13.78	14.7
40	DFT-s-OFDM 16QAM	1	53	13.42	13.58	13.38	
40		1	104	13.42	13.44	13.41	
40		50	1	12.82	12.79	12.79	14.7
40		50	25	13.64	13.64	13.67	
40	DFT-s-OFDM 64QAM	50	50	12.78	12.71	12.76	
40		100	0	13.55	13.56	13.49	
40	DFT-s-OFDM 256QAM	1	1	12.01	12.36	12.26	13.7
40	DFT-s-OFDM 64QAM	1	1	10.62	10.94	10.75	12.7
40	DFT-s-OFDM 256QAM	1	1	8.45	8.51	8.57	9.7
40	CP-OFDM QPSK	1	1	11.92	12.00	11.98	13.7
40	CP-OFDM 16QAM	1	1	11.30	10.43	11.39	11.7
40	CP-OFDM 64QAM	1	1	9.28	9.46	9.45	10.7
40	CP-OFDM 256QAM	1	1	6.44	6.52	6.33	7.7
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	DFT-s-OFDM QPSK	1	1	13.18	13.28	13.23	14.7
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	DFT-s-OFDM QPSK	1	1	13.37	13.49	13.52	14.7
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	DFT-s-OFDM QPSK	1	1	13.39	13.39	13.36	14.7
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	DFT-s-OFDM QPSK	1	1	13.42	13.42	13.37	14.7

n38 (PC3)(ANT5)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	14.2
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	13.04	13.16	13.16	14.2
40		1	53	12.89	12.86	12.85	
40		1	104	12.85	12.86	12.87	
40		50	1	12.53	12.53	12.51	14.2
40		50	25	13.09	13.02	13.06	
40		50	50	12.37	12.36	12.36	
40		100	0	12.61	12.59	12.53	
40	DFT-s-OFDM QPSK	1	1	13.15	13.19	13.22	14.2
40		1	53	12.86	12.86	12.82	
40		1	104	12.86	12.84	12.85	
40		50	1	12.36	12.31	12.33	14.2
40		50	25	13.08	13.04	13.11	
40		50	50	12.42	12.38	12.40	
40		100	0	12.93	12.90	12.97	
40	DFT-s-OFDM 16QAM	1	1	11.75	11.86	12.00	13.2
40	DFT-s-OFDM 64QAM	1	1	10.36	10.39	10.49	11.2
40	DFT-s-OFDM 256QAM	1	1	8.19	8.19	8.31	9.2
40	CP-OFDM QPSK	1	1	11.66	11.73	11.72	13.2
40	CP-OFDM 16QAM	1	1	11.04	11.14	11.13	12.2
40	CP-OFDM 64QAM	1	1	9.02	9.15	9.19	10.2
40	CP-OFDM 256QAM	1	1	6.18	6.23	6.07	7.2
Channel				517000	519000	521000	14.2
Frequency (MHz)				2585	2595	2605	
30	DFT-s-OFDM QPSK	1	1	13.10	13.20	13.15	14.2
Channel				516000	519000	522000	14.2
Frequency (MHz)				2580	2595	2610	
20	DFT-s-OFDM QPSK	1	1	12.99	13.11	13.05	14.2
Channel				515500	519000	522500	14.2
Frequency (MHz)				2577.5	2595	2612.5	
15	DFT-s-OFDM QPSK	1	1	13.01	13.01	12.98	14.2
Channel				515000	519000	523000	14.2
Frequency (MHz)				2575	2595	2615	
10	DFT-s-OFDM QPSK	1	1	13.04	13.04	12.99	14.2

n38 (PC3)(ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	15.16	15.29	15.28	16
40		1	53	15.01	15.20	14.97	
40		1	104	14.97	15.31	14.99	
40		50	1	14.65	15.00	14.63	16
40	DFT-s-OFDM QPSK	50	25	15.21	15.31	15.18	
40		50	50	14.49	14.80	14.48	
40		100	0	14.73	15.01	14.65	
40		1	1	15.27	15.31	15.34	16
40	DFT-s-OFDM 16QAM	1	53	14.98	15.27	14.94	
40		1	104	14.98	15.26	14.97	
40		50	1	14.18	14.45	14.15	16
40		50	25	15.20	15.22	15.23	
40	DFT-s-OFDM 64QAM	50	50	14.24	14.37	14.22	
40		100	0	14.86	14.99	14.96	
40	DFT-s-OFDM 256QAM	1	1	13.87	14.41	14.12	15
40	CP-OFDM QPSK	1	1	12.48	13.04	12.61	14
40	CP-OFDM 16QAM	1	1	10.31	10.72	10.43	11
40	CP-OFDM 64QAM	1	1	13.78	13.91	13.84	15
40	CP-OFDM 256QAM	1	1	13.16	13.17	13.25	14
40		1	1	11.14	11.64	11.31	13
40		1	1	7.90	7.82	7.85	9
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	DFT-s-OFDM QPSK	1	1	15.22	15.32	15.27	16
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	DFT-s-OFDM QPSK	1	1	15.11	15.23	15.17	16
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	DFT-s-OFDM QPSK	1	1	15.13	15.13	15.10	16
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	DFT-s-OFDM QPSK	1	1	15.16	15.16	15.11	16

n41 (PC2)(ANT0)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	16
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	14.41	14.84	14.78	14.80	14.74	16
100		1	136	14.57	14.73	14.56	14.34	14.65	
100		1	271	14.81	14.45	14.24	14.09	14.58	
100		135	1	14.03	14.09	14.09	14.09	14.05	16
100		135	67	14.59	14.80	14.64	14.39	14.65	
100		135	136	14.09	14.18	14.18	14.03	14.05	
100		270	0	14.07	14.03	14.08	14.05	14.00	
100	DFT-s-OFDM QPSK	1	1	14.68	14.76	14.65	14.56	14.77	16
100		1	136	14.70	14.85	14.86	14.84	14.77	
100		1	271	14.80	14.39	14.24	14.23	14.04	
100		135	1	14.03	14.15	14.10	14.08	14.16	16
100		135	67	14.66	14.81	14.83	14.65	14.76	
100		135	136	14.09	14.19	14.00	14.01	14.09	
100		270	0	14.76	14.74	14.78	14.71	14.68	
100	DFT-s-OFDM 16QAM	1	1	13.17	13.30	13.30	13.28	12.90	14
100	DFT-s-OFDM 64QAM	1	1	12.01	12.47	12.39	12.13	11.99	13
100	DFT-s-OFDM 256QAM	1	1	10.88	11.15	11.13	11.21	10.79	12
100	CP-OFDM QPSK	1	1	12.87	13.19	13.16	13.25	13.10	14
100	CP-OFDM 16QAM	1	1	12.38	12.56	12.68	12.48	12.66	13
100	CP-OFDM 64QAM	1	1	11.09	11.47	11.43	11.47	11.11	12
100	CP-OFDM 256QAM	1	1	7.05	7.00	7.02	6.90	7.00	8
Channel				508200	513402	518598	523800	528996	16
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	14.24	14.53	14.64	14.76	14.73	16
Channel				507204	512904	518598	524298	529998	16
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	14.29	14.56	14.67	14.79	14.84	16
Channel				506202	512400	518598	524796	531000	16
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	14.21	14.45	14.68	14.72	14.69	16
Channel				505200	511902	518598	525798	531996	16
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	14.13	14.58	14.62	14.73	14.66	16
Channel				504204	511404	518598	525798	532998	16
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	14.48	14.67	14.80	14.81	14.81	16
Channel				503202	510900	518598	526296	534000	16
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	14.31	14.50	14.66	14.66	14.46	16
Channel				502200	510402	518598	526800	534996	16
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	14.45	14.59	14.83	14.73	14.48	16
Channel				501204	509904	518598	527298	535998	16
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	14.29	14.49	14.57	14.59	14.30	16

n41 (PC2) (ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	14.9
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	13.88	14.07	14.07	14.09	14.10	14.9
100		1	136	13.99	13.97	14.03	14.05	13.84	
100		1	271	14.16	14.13	13.92	13.60	13.47	
100		135	1	12.98	12.99	13.02	12.98	12.98	14.9
100		135	67	14.05	14.09	14.18	14.09	14.08	
100		135	136	12.91	12.93	13.02	12.97	13.02	
100		270	0	12.98	12.94	13.02	12.94	13.03	
100	DFT-s-OFDM QPSK	1	1	13.97	13.95	14.11	14.17	14.12	14.9
100		1	136	14.21	14.17	14.22	14.16	14.18	
100		1	271	14.14	13.99	13.97	13.65	13.52	
100		135	1	12.96	13.04	13.08	13.12	13.09	14.9
100		135	67	14.05	14.06	14.15	14.05	14.08	
100		135	136	13.05	13.15	13.01	12.90	13.03	
100		270	0	13.79	13.64	13.86	13.79	13.74	
100	DFT-s-OFDM 16QAM	1	1	13.00	12.96	13.05	13.11	13.10	13.9
100	DFT-s-OFDM 64QAM	1	1	12.00	12.02	12.16	12.18	12.06	12.9
100	DFT-s-OFDM 256QAM	1	1	10.81	10.83	10.95	10.92	10.92	11.9
100	CP-OFDM QPSK	1	1	13.13	13.17	13.18	13.27	13.31	13.9
100	CP-OFDM 16QAM	1	1	11.53	11.51	11.52	11.71	11.60	12.9
100	CP-OFDM 64QAM	1	1	11.59	11.64	11.72	11.73	11.77	12.9
100	CP-OFDM 256QAM	1	1	8.31	8.35	8.32	8.45	8.49	9.9
Channel				508200	513402	518598	523800	528996	14.9
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	14.06	14.07	14.08	14.17	14.16	14.9
Channel				507204	512904	518598	524298	529998	14.9
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	14.03	14.16	14.19	14.18	14.15	14.9
Channel				506202	512400	518598	524796	531000	14.9
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	13.92	14.01	14.10	14.17	14.02	14.9
Channel				505200	511902	518598	525798	531996	14.9
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	13.88	14.09	14.15	14.16	13.90	14.9
Channel				504204	511404	518598	525798	532998	14.9
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	14.02	14.20	14.18	14.18	13.92	14.9
Channel				503202	510900	518598	526296	534000	14.9
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	13.84	14.03	14.18	13.93	13.64	14.9
Channel				502200	510402	518598	526800	534996	14.9
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	13.98	14.13	14.15	14.09	13.50	14.9
Channel				501204	509904	518598	527298	535998	14.9
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	13.90	14.12	14.02	13.93	13.38	14.9

n41 (PC2)(ANT5)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	18
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	16.66	16.78	16.84	16.96	16.99	18
100		1	136	16.82	16.86	16.97	16.89	16.90	
100		1	271	17.06	17.00	17.03	16.75	16.83	
100		135	1	16.08	16.18	16.12	16.28	16.20	18
100		135	67	16.84	16.93	17.08	17.02	16.90	
100		135	136	16.14	16.15	16.20	16.12	16.10	
100		270	0	16.02	16.18	16.24	16.29	16.15	
100	DFT-s-OFDM QPSK	1	1	16.65	16.69	16.76	16.47	17.02	18
100		1	136	16.93	17.02	17.09	17.00	17.02	
100		1	271	17.05	17.00	17.02	16.71	16.19	
100		135	1	16.08	16.09	16.14	16.27	16.21	18
100		135	67	16.71	16.88	16.92	16.90	16.81	
100		135	136	16.14	16.23	16.18	16.09	16.04	
100		270	0	16.61	16.79	16.82	16.88	16.77	
100	DFT-s-OFDM 16QAM	1	1	15.38	15.61	15.67	15.82	15.91	17
100	DFT-s-OFDM 64QAM	1	1	14.22	14.69	14.79	14.89	15.00	16
100	DFT-s-OFDM 256QAM	1	1	12.49	13.55	13.66	13.68	13.80	15
100	CP-OFDM QPSK	1	1	15.08	15.83	16.01	16.06	16.11	17
100	CP-OFDM 16QAM	1	1	14.59	15.34	15.41	15.58	15.67	16
100	CP-OFDM 64QAM	1	1	13.75	14.36	14.44	14.58	14.57	15
100	CP-OFDM 256QAM	1	1	11.00	11.09	10.99	11.27	11.13	12
Channel				508200	513402	518598	523800	528996	18
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	16.49	16.78	16.89	17.01	16.98	18
Channel				507204	512904	518598	524298	529998	18
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	16.54	16.81	16.92	17.04	16.99	18
Channel				506202	512400	518598	524796	531000	18
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	16.46	16.70	16.93	16.97	16.94	18
Channel				505200	511902	518598	525798	531996	18
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	16.38	16.83	16.87	16.98	16.91	18
Channel				504204	511404	518598	525798	532998	18
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	16.73	16.92	17.05	17.06	16.96	18
Channel				503202	510900	518598	526296	534000	18
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	16.56	16.75	16.81	16.91	16.71	18
Channel				502200	510402	518598	526800	534996	18
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	16.70	16.84	16.95	16.98	16.73	18
Channel				501204	509904	518598	527298	535998	18
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	16.54	16.74	16.82	16.84	16.55	18

n41 (PC2)(ANT6)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	16.1
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	14.93	15.26	15.18	15.21	15.26	16.1
100		1	136	15.09	15.19	15.25	15.27	15.17	
100		1	271	15.33	15.13	15.30	15.04	15.10	
100		135	1	14.15	14.15	14.14	14.21	14.27	16.1
100		135	67	15.11	15.27	15.35	15.32	15.17	
100		135	136	14.21	14.19	14.23	14.16	14.07	
100		270	0	14.19	14.22	14.27	14.26	14.12	
100	DFT-s-OFDM QPSK	1	1	14.92	15.26	15.13	15.19	15.29	16.1
100		1	136	15.20	15.28	15.36	15.31	15.29	
100		1	271	15.32	15.12	15.35	15.10	14.46	
100		135	1	14.25	14.18	14.08	14.27	14.38	16.1
100		135	67	15.18	15.29	15.34	15.29	15.18	
100		135	136	14.31	14.24	14.15	14.23	14.21	
100		270	0	15.22	15.04	15.28	14.91	14.91	
100	DFT-s-OFDM 16QAM	1	1	13.58	13.62	13.95	14.00	14.11	15.1
100	DFT-s-OFDM 64QAM	1	1	12.42	12.59	12.50	12.49	13.20	13.1
100	DFT-s-OFDM 256QAM	1	1	10.69	11.60	11.45	11.52	12.00	12.1
100	CP-OFDM QPSK	1	1	13.28	13.77	13.66	13.28	14.31	14.1
100	CP-OFDM 16QAM	1	1	12.79	12.32	12.14	12.06	13.87	13.1
100	CP-OFDM 64QAM	1	1	11.95	12.58	12.46	12.59	12.77	13.1
100	CP-OFDM 256QAM	1	1	9.20	8.99	8.86	8.87	9.33	10.1
Channel				508200	513402	518598	523800	528996	16.1
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	14.76	15.05	15.16	15.28	15.25	16.1
Channel				507204	512904	518598	524298	529998	16.1
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	14.81	15.08	15.19	15.31	14.81	16.1
Channel				506202	512400	518598	524796	531000	16.1
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	14.73	14.97	15.20	15.24	15.21	16.1
Channel				505200	511902	518598	525798	531996	16.1
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	14.65	15.10	15.14	15.25	15.18	16.1
Channel				504204	511404	518598	525798	532998	16.1
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	15.00	15.19	15.32	15.33	15.33	16.1
Channel				503202	510900	518598	526296	534000	16.1
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	14.83	15.02	15.18	15.18	14.98	16.1
Channel				502200	510402	518598	526800	534996	16.1
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	14.97	15.11	14.90	15.25	15.00	16.1
Channel				501204	509904	518598	527298	535998	16.1
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	14.81	15.01	15.09	15.11	14.82	16.1

n41 (PC3)(ANT0)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	16
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	14.59	14.92	14.84	14.87	14.92	16
100		1	136	14.75	14.85	14.91	14.93	14.83	
100		1	271	14.99	14.79	14.96	14.70	14.76	
100		135	1	14.21	14.31	14.30	14.37	14.33	16
100		135	67	14.77	14.93	15.01	14.98	14.83	
100		135	136	14.27	14.35	14.39	14.32	14.23	
100		270	0	14.15	14.38	14.43	14.42	14.28	
100	DFT-s-OFDM QPSK	1	1	14.58	14.92	14.79	14.85	14.95	16
100		1	136	14.86	14.94	15.02	14.97	14.95	
100		1	271	14.98	14.78	15.01	14.76	14.12	
100		135	1	14.21	14.14	14.04	14.23	14.34	16
100		135	67	14.84	14.95	15.00	14.95	14.84	
100		135	136	14.27	14.20	14.11	14.19	14.17	
100		270	0	14.88	14.70	14.94	14.90	14.90	
100	DFT-s-OFDM 16QAM	1	1	13.24	13.28	13.61	13.66	13.77	14
100	DFT-s-OFDM 64QAM	1	1	12.08	12.25	12.16	12.15	12.86	13
100	DFT-s-OFDM 256QAM	1	1	10.35	11.26	11.11	11.18	11.66	12
100	CP-OFDM QPSK	1	1	12.94	13.43	13.32	12.94	13.97	14
100	CP-OFDM 16QAM	1	1	12.45	11.98	11.80	11.72	11.90	13
100	CP-OFDM 64QAM	1	1	11.61	12.24	12.12	12.25	12.43	13
100	CP-OFDM 256QAM	1	1	8.86	8.65	8.52	8.53	8.99	10
Channel				508200	513402	518598	523800	528996	16
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	14.42	14.71	14.82	14.94	14.91	16
Channel				507204	512904	518598	524298	529998	16
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	14.47	14.74	14.85	14.97	14.91	16
Channel				506202	512400	518598	524796	531000	16
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	14.39	14.63	14.86	14.90	14.87	16
Channel				505200	511902	518598	525798	531996	16
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	14.31	14.76	14.80	14.91	14.84	16
Channel				504204	511404	518598	525798	532998	16
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	14.66	14.85	14.98	14.99	14.99	16
Channel				503202	510900	518598	526296	534000	16
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	14.49	14.68	14.84	14.84	14.64	16
Channel				502200	510402	518598	526800	534996	16
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	14.63	14.77	14.92	14.91	14.66	16
Channel				501204	509904	518598	527298	535998	16
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	14.47	14.67	14.75	14.77	14.48	16

n41 (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	13.4
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	11.95	12.28	12.20	12.23	12.28	13.4
100		1	136	12.11	12.21	12.27	12.29	12.19	
100		1	271	12.35	12.15	12.32	12.06	12.12	
100		135	1	11.67	11.67	11.66	11.73	11.79	13.4
100		135	67	12.13	12.29	12.37	12.34	12.19	
100		135	136	11.73	11.71	11.75	11.68	11.69	
100		270	0	11.61	11.74	11.79	11.78	11.74	
100	DFT-s-OFDM QPSK	1	1	11.94	12.28	12.15	12.21	12.31	13.4
100		1	136	12.22	12.30	12.38	12.33	12.31	
100		1	271	12.34	12.14	12.37	12.12	11.48	
100		135	1	11.67	11.60	11.50	11.69	11.80	13.4
100		135	67	12.20	12.31	12.36	12.31	12.20	
100		135	136	11.73	11.66	11.57	11.65	11.63	
100		270	0	12.24	12.06	12.30	11.93	11.93	
100	DFT-s-OFDM 16QAM	1	1	10.60	10.64	10.97	11.02	11.13	11.4
100	DFT-s-OFDM 64QAM	1	1	9.44	9.61	9.52	9.51	10.22	10.4
100	DFT-s-OFDM 256QAM	1	1	7.71	8.62	8.47	8.54	9.02	9.4
100	CP-OFDM QPSK	1	1	10.30	10.79	10.68	10.30	10.60	11.4
100	CP-OFDM 16QAM	1	1	9.81	9.34	9.16	9.08	9.26	10.4
100	CP-OFDM 64QAM	1	1	8.97	9.60	9.48	9.61	9.79	10.4
100	CP-OFDM 256QAM	1	1	5.42	6.01	5.88	5.89	5.75	7.4
Channel				508200	513402	518598	523800	528996	13.4
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	11.78	12.07	12.18	12.30	12.27	13.4
Channel				507204	512904	518598	524298	529998	13.4
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	11.83	12.10	12.21	12.33	12.32	13.4
Channel				506202	512400	518598	524796	531000	13.4
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	11.75	11.99	12.22	12.26	12.23	13.4
Channel				505200	511902	518598	525798	531996	13.4
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	11.67	12.12	12.16	12.27	12.20	13.4
Channel				504204	511404	518598	525798	532998	13.4
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	12.02	12.21	12.34	12.35	12.35	13.4
Channel				503202	510900	518598	526296	534000	13.4
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	11.85	12.04	12.20	12.20	12.00	13.4
Channel				502200	510402	518598	526800	534996	13.4
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	11.99	12.13	12.30	12.27	12.02	13.4
Channel				501204	509904	518598	527298	535998	13.4
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	11.83	12.03	12.11	12.13	11.84	13.4

n41 (PC3)(ANT5)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	15
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	13.40	13.48	13.54	13.73	13.73	15
100		1	136	13.47	13.63	13.64	13.62	13.54	
100		1	271	13.71	13.65	13.55	13.32	13.44	
100		135	1	13.45	13.56	13.60	13.67	13.62	15
100		135	67	13.56	13.72	13.73	13.58	13.55	
100		135	136	13.67	13.69	13.63	13.48	13.36	
100		270	0	13.53	13.67	13.70	13.66	13.63	
100	DFT-s-OFDM QPSK	1	1	13.38	13.39	13.51	13.71	13.70	15
100		1	136	13.62	13.65	13.77	13.65	13.58	
100		1	271	13.68	13.68	13.58	13.55	13.56	
100		135	1	13.36	13.46	13.61	13.68	13.63	15
100		135	67	13.65	13.70	13.75	13.74	13.66	
100		135	136	13.72	13.70	13.57	13.59	13.54	
100		270	0	13.47	13.68	13.69	13.67	13.62	
100	DFT-s-OFDM 16QAM	1	1	13.34	13.35	13.42	13.65	13.68	15
100	DFT-s-OFDM 64QAM	1	1	13.38	13.44	13.53	13.68	13.70	15
100	DFT-s-OFDM 256QAM	1	1	11.83	12.24	12.35	12.51	12.54	14
100	CP-OFDM QPSK	1	1	13.48	13.53	13.69	13.67	13.70	15
100	CP-OFDM 16QAM	1	1	13.48	13.53	13.66	13.63	13.70	15
100	CP-OFDM 64QAM	1	1	12.88	13.02	13.16	13.32	13.33	14
100	CP-OFDM 256QAM	1	1	9.74	9.79	9.85	10.06	10.05	11
Channel				508200	513402	518598	523800	528996	15
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	13.44	13.49	13.44	13.57	13.65	15
Channel				507204	512904	518598	524298	529998	15
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	13.49	13.51	13.60	13.66	13.67	15
Channel				506202	512400	518598	524796	531000	15
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	13.44	13.53	13.59	13.64	13.52	15
Channel				505200	511902	518598	525798	531996	15
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	13.36	13.53	13.64	13.66	13.57	15
Channel				504204	511404	518598	525798	532998	15
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	13.53	13.68	13.70	13.73	13.60	15
Channel				503202	510900	518598	526296	534000	15
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	13.32	13.47	13.46	13.51	13.30	15
Channel				502200	510402	518598	526800	534996	15
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	13.42	13.52	13.73	13.57	13.35	15
Channel				501204	509904	518598	527298	535998	15
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	13.25	13.48	13.42	13.41	13.32	15

n41 (PC3)(ANT6)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	24.7
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	14.87	15.20	15.12	15.15	15.20	24.7
100		1	136	15.03	15.13	15.19	15.21	15.11	
100		1	271	15.27	15.07	15.24	14.98	15.04	
100		135	1	14.59	14.49	14.48	14.55	14.61	24.7
100		135	67	15.05	15.21	15.29	15.26	15.11	
100		135	136	14.65	14.53	14.57	14.50	14.51	
100		270	0	14.53	14.56	14.61	14.60	14.56	
100	DFT-s-OFDM QPSK	1	1	14.86	15.20	15.07	15.13	15.23	24.7
100		1	136	15.14	15.22	15.30	15.25	15.23	
100		1	271	15.26	15.06	15.29	15.04	14.40	
100		135	1	14.49	14.42	14.52	14.51	14.62	24.7
100		135	67	15.12	15.23	15.28	15.23	15.12	
100		135	136	14.55	14.48	14.49	14.47	14.45	
100		270	0	15.16	14.98	15.22	14.85	14.85	
100	DFT-s-OFDM 16QAM	1	1	13.52	13.56	13.89	13.94	14.05	15.4
100	DFT-s-OFDM 64QAM	1	1	12.36	12.53	12.44	12.43	12.25	13.4
100	DFT-s-OFDM 256QAM	1	1	11.25	11.54	11.39	11.46	11.25	13.4
100	CP-OFDM QPSK	1	1	13.22	13.71	13.60	13.22	13.52	14.4
100	CP-OFDM 16QAM	1	1	12.73	12.26	12.08	12.00	12.18	13.4
100	CP-OFDM 64QAM	1	1	11.89	12.52	12.40	12.53	12.71	13.4
100	CP-OFDM 256QAM	1	1	8.34	8.93	8.80	8.81	8.67	10.4
Channel				508200	513402	518598	523800	528996	16.4
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	14.70	14.99	15.10	15.22	15.19	16.4
Channel				507204	512904	518598	524298	529998	16.4
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	14.75	15.02	15.13	15.25	15.24	16.4
Channel				506202	512400	518598	524796	531000	16.4
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	14.67	14.91	15.14	15.18	15.15	16.4
Channel				505200	511902	518598	525798	531996	16.4
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	14.59	15.04	15.08	15.19	15.12	16.4
Channel				504204	511404	518598	525798	532998	16.4
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	14.94	15.13	15.26	15.27	15.27	16.4
Channel				503202	510900	518598	526296	534000	16.4
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	14.77	14.96	15.12	15.12	14.92	16.4
Channel				502200	510402	518598	526800	534996	16.4
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	14.91	15.05	15.22	15.19	14.94	16.4
Channel				501204	509904	518598	527298	535998	16.4
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	14.75	14.95	15.03	15.05	14.76	16.4

n66 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	16.1
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	15.19	15.29	15.25	16.1
40		1	108	15.13	15.12	14.94	
40		1	214	15.12	15.13	15.04	
40		108	1	14.65	14.65	14.55	16.1
40		108	54	15.23	15.17	15.05	
40		108	108	14.64	14.56	14.52	
40		216	0	14.63	14.68	14.58	
40	DFT-s-OFDM QPSK	1	1	15.30	15.25	15.28	16.1
40		1	108	15.10	15.06	14.84	
40		1	214	15.21	15.15	14.98	
40		108	1	14.35	14.18	14.32	16.1
40		108	54	15.23	15.21	15.22	
40		108	108	14.36	14.13	14.27	
40		216	0	15.20	15.12	15.09	
40	DFT-s-OFDM 16QAM	1	1	14.11	14.18	14.11	15.1
40	DFT-s-OFDM 64QAM	1	1	12.46	12.54	12.47	14.1
40	DFT-s-OFDM 256QAM	1	1	10.07	10.16	10.21	11.1
40	CP-OFDM QPSK	1	1	13.88	13.71	13.73	14.6
40	CP-OFDM 16QAM	1	1	13.14	13.17	13.04	14.1
40	CP-OFDM 64QAM	1	1	11.12	11.13	11.12	12.1
40	CP-OFDM 256QAM	1	1	8.24	8.21	8.12	9.1
Channel				345000	349000	353000	16.1
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	15.19	15.21	15.12	16.1
Channel				344000	349000	354000	16.1
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	15.13	15.08	15.04	16.1
Channel				343500	349000	354500	16.1
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	15.27	15.22	15.11	16.1
Channel				343000	349000	355000	16.1
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	15.22	15.26	15.05	16.1
Channel				342500	349000	355500	16.1
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	15.08	15.13	14.97	16.1

n66 (PC3)(ANT4)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	17.3
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	16.06	16.15	16.12	17.3
40		1	108	16.00	15.95	15.81	
40		1	214	15.99	16.11	15.91	
40		108	1	15.52	15.53	15.42	17.3
40		108	54	16.10	16.05	15.92	
40		108	108	15.51	15.51	15.39	
40		216	0	15.50	15.54	15.45	
40	DFT-s-OFDM QPSK	1	1	16.19	16.18	16.15	17.3
40		1	108	15.97	15.93	15.71	
40		1	214	16.08	16.06	15.85	
40		108	1	15.42	15.39	15.39	17.3
40		108	54	16.12	16.11	16.09	
40		108	108	15.43	15.37	15.34	
40		216	0	16.07	16.02	15.98	
40	DFT-s-OFDM 16QAM	1	1	14.98	15.08	14.98	16.3
40	DFT-s-OFDM 64QAM	1	1	13.33	13.46	13.34	14.3
40	DFT-s-OFDM 256QAM	1	1	10.94	11.10	11.08	12.3
40	CP-OFDM QPSK	1	1	14.75	14.67	14.60	15.3
40	CP-OFDM 16QAM	1	1	14.01	14.09	13.91	14.3
40	CP-OFDM 64QAM	1	1	11.99	12.10	11.99	13.3
40	CP-OFDM 256QAM	1	1	9.11	9.15	8.99	10.3
Channel				345000	349000	353000	17.3
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	16.06	16.08	15.99	17.3
Channel				344000	349000	354000	17.3
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	16.00	15.95	15.91	17.3
Channel				343500	349000	354500	17.3
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	16.14	16.09	15.98	17.3
Channel				343000	349000	355000	17.3
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	16.09	16.13	15.92	17.3
Channel				342500	349000	355500	17.3
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	15.95	16.00	15.84	17.3

n66 (PC3)(ANT5)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	17.1
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	15.86	15.95	15.92	17.1
40		1	108	15.80	15.72	15.61	
40		1	214	15.79	15.75	15.71	
40		108	1	15.32	15.30	15.22	17.1
40		108	54	15.90	15.86	15.72	
40		108	108	15.31	15.21	15.19	
40		216	0	15.30	15.36	15.25	
40	DFT-s-OFDM QPSK	1	1	15.97	15.92	15.95	17.1
40		1	108	15.77	15.73	15.51	
40		1	214	15.88	15.69	15.65	
40		108	1	15.22	15.21	15.19	17.1
40		108	54	15.90	15.84	15.89	
40		108	108	15.23	15.23	15.14	
40		216	0	15.82	15.78	15.77	
40	DFT-s-OFDM 16QAM	1	1	14.88	14.81	14.88	16.1
40	DFT-s-OFDM 64QAM	1	1	13.13	13.08	13.14	14.1
40	DFT-s-OFDM 256QAM	1	1	10.74	10.83	10.88	12.1
40	CP-OFDM QPSK	1	1	14.55	14.55	14.40	15.1
40	CP-OFDM 16QAM	1	1	13.81	13.71	13.71	14.1
40	CP-OFDM 64QAM	1	1	11.79	11.80	11.79	13.1
40	CP-OFDM 256QAM	1	1	8.91	8.91	8.79	10.1
Channel				345000	349000	353000	17.1
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	15.86	15.88	15.79	17.1
Channel				344000	349000	354000	17.1
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	15.80	15.75	15.71	17.1
Channel				343500	349000	354500	17.1
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	15.94	15.89	15.78	17.1
Channel				343000	349000	355000	17.1
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	15.89	15.93	15.72	17.1
Channel				342500	349000	355500	17.1
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	15.75	15.80	15.64	17.1

n66 (PC3)(ANT6)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	15
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	14.06	14.12	14.12	15
40		1	108	14.00	13.99	13.81	
40		1	214	13.99	14.14	13.91	
40		108	1	13.52	13.57	13.42	15
40		108	54	14.10	14.11	13.92	
40		108	108	13.51	13.56	13.39	
40		216	0	13.50	13.58	13.45	
40	DFT-s-OFDM QPSK	1	1	14.15	14.12	14.10	15
40		1	108	13.97	13.97	13.71	
40		1	214	14.08	14.09	13.85	
40		108	1	13.22	13.15	13.19	15
40		108	54	14.12	14.11	14.09	
40		108	108	13.23	13.01	13.14	
40		216	0	14.09	14.05	14.02	
40	DFT-s-OFDM 16QAM	1	1	12.98	13.10	12.98	14
40	DFT-s-OFDM 64QAM	1	1	11.33	11.49	11.34	12
40	DFT-s-OFDM 256QAM	1	1	8.94	9.13	9.08	10
40	CP-OFDM QPSK	1	1	12.75	12.81	12.60	14
40	CP-OFDM 16QAM	1	1	12.01	12.24	11.91	13
40	CP-OFDM 64QAM	1	1	9.99	10.15	9.99	11
40	CP-OFDM 256QAM	1	1	7.21	7.28	6.99	8
Channel				345000	349000	353000	15
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	14.06	14.08	13.99	15
Channel				344000	349000	354000	15
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	14.00	13.95	13.91	15
Channel				343500	349000	354500	15
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	14.14	14.09	13.98	15
Channel				343000	349000	355000	15
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	14.09	14.13	13.92	15
Channel				342500	349000	355500	15
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	13.95	14.00	13.84	15

n71 (PC3)(ANT0)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				134600	136100	137600	22.4
Frequency (MHz)				673	680.5	688	
20	DFT-s-OFDM PI/2 BPSK	1	1	20.82	20.73	20.87	22.4
20		1	53	20.92	20.81	20.76	
20		1	104	20.87	20.72	20.72	
20		50	1	20.48	20.60	20.61	22.4
20		50	25	21.09	21.18	21.15	
20		50	50	20.60	20.60	20.48	
20		100	0	20.64	20.71	20.67	
20	DFT-s-OFDM QPSK	1	1	20.99	21.07	21.16	22.4
20		1	53	21.18	21.22	21.20	
20		1	104	21.13	21.08	21.07	
20		50	1	20.66	20.71	20.75	22.4
20		50	25	21.17	21.19	21.12	
20		50	50	20.67	20.74	20.63	
20		100	0	21.00	21.07	20.99	
20	DFT-s-OFDM 16QAM	1	1	19.91	19.96	20.06	21.4
20	DFT-s-OFDM 64QAM	1	1	18.31	18.34	18.43	19.4
20	DFT-s-OFDM 256QAM	1	1	15.94	16.07	16.24	17.4
20	CP-OFDM QPSK	1	1	19.59	19.60	19.71	20.4
20	CP-OFDM 16QAM	1	1	19.01	19.03	19.12	19.4
20	CP-OFDM 64QAM	1	1	16.90	17.08	17.16	18.4
20	CP-OFDM 256QAM	1	1	14.05	14.08	14.20	15.4
Channel				134100	136100	138100	22.4
Frequency (MHz)				670.5	680.5	690.5	
15	DFT-s-OFDM QPSK	1	1	20.04	21.01	20.97	22.4
Channel				133600	136100	138600	22.4
Frequency (MHz)				668	680.5	693	
10	DFT-s-OFDM QPSK	1	1	20.21	20.93	20.91	22.4
Channel				133100	136100	139100	22.4
Frequency (MHz)				665.5	680.5	695.5	
5	DFT-s-OFDM QPSK	1	1	20.82	20.93	20.89	22.4

n71 (PC3)(ANT1)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				134600	136100	137600	24.2
Frequency (MHz)				673	680.5	688	
20	DFT-s-OFDM PI/2 BPSK	1	1	22.36	22.39	22.48	24.2
20		1	53	22.41	22.49	22.41	
20		1	104	22.46	22.38	22.39	
20		50	1	22.25	22.36	22.41	24.2
20		50	25	22.84	23.05	22.93	
20		50	50	22.35	22.36	22.25	
20		100	0	22.37	22.43	22.44	
20	DFT-s-OFDM QPSK	1	1	21.96	22.96	23.03	24.2
20		1	53	22.96	23.13	22.95	
20		1	104	23.05	22.95	22.92	
20		50	1	22.28	22.40	22.48	24.2
20		50	25	22.94	23.10	23.06	
20		50	50	22.40	22.44	22.35	
20		100	0	22.90	23.00	22.93	
20	DFT-s-OFDM 16QAM	1	1	21.86	21.92	22.10	23.2
20	DFT-s-OFDM 64QAM	1	1	20.18	20.17	20.29	21.2
20	DFT-s-OFDM 256QAM	1	1	17.88	17.97	18.11	20.2
20	CP-OFDM QPSK	1	1	21.23	21.54	21.65	22.5
20	CP-OFDM 16QAM	1	1	20.68	20.89	21.01	21.5
20	CP-OFDM 64QAM	1	1	18.76	18.95	19.10	20
20	CP-OFDM 256QAM	1	1	15.88	16.01	16.13	17
Channel				134100	136100	138100	24.2
Frequency (MHz)				670.5	680.5	690.5	
15	DFT-s-OFDM QPSK	1	1	22.07	23.00	23.06	24.2
Channel				133600	136100	138600	24.2
Frequency (MHz)				668	680.5	693	
10	DFT-s-OFDM QPSK	1	1	22.31	22.94	22.96	24.2
Channel				133100	136100	139100	24.2
Frequency (MHz)				665.5	680.5	695.5	
5	DFT-s-OFDM QPSK	1	1	22.78	22.92	22.90	24.2

n77(3450-3550MHz) (PC2)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			19.39			20.4
100		1	136			19.45			
100		1	271			19.20			
100		135	1			19.20			
100		135	67			19.46			
100	DFT-s-OFDM QPSK	135	136			18.59			20.4
100		270	0			19.16			
100		1	1			19.48			
100		1	136			19.39			20.4
100		1	271			19.17			
100	DFT-s-OFDM 16QAM	135	1			18.86			
100		135	67			19.38			
100		135	136			18.49			20.4
100		270	0			19.33			
100		1	1			18.92			19.4
100	DFT-s-OFDM 64QAM	1	1			17.48			18.4
100	DFT-s-OFDM 256QAM	1	1			15.31			16.4
100	CP-OFDM QPSK	1	1			18.67			20.4
100	CP-OFDM 16QAM	1	1			18.10			19.4
100	CP-OFDM 64QAM	1	1			16.13			17.4
100	CP-OFDM 256QAM	1	1			13.28			14.4
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	19.30	19.29	19.27	19.22	19.29	20.4
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	19.32	19.26	19.26	19.17	19.20	20.4
Channel				632334	632634	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	19.31	19.23	19.28	19.18	19.11	20.4
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	19.13	19.10	18.99	19.00	18.97	20.4
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	19.35	19.33	19.26	19.19	19.13	20.4
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	19.26	19.24	19.03	18.95	18.72	20.4
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	19.25	19.24	19.14	19.00	18.74	20.4
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	19.10	19.00	18.95	18.91	18.71	20.4
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	19.04	19.07	19.01	18.59	18.68	20.4
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	19.01	19.04	19.06	18.53	18.69	20.4

1.5

n77(3700-3980MHz) (PC2)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	20.4
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	19.15	19.53	19.56	19.57	19.21	20.4
100		1	136	19.31	19.47	19.58	19.58	18.83	
100		1	271	19.34	19.53	19.50	19.36	19.45	
100		135	1	19.03	18.86	18.92	18.82	18.43	20.4
100		135	67	19.31	19.43	19.57	19.57	18.88	
100		135	136	18.69	18.93	18.85	18.84	18.63	
100		270	0	18.85	18.94	19.22	19.14	18.52	
100	DFT-s-OFDM QPSK	1	1	19.45	19.54	19.62	19.57	19.44	20.4
100		1	136	19.32	19.41	19.54	19.50	19.47	
100		1	271	19.34	19.55	19.55	19.23	19.46	
100		135	1	18.46	18.47	18.52	18.41	18.49	20.4
100		135	67	19.41	19.47	19.56	19.50	19.49	
100		135	136	18.55	18.66	18.53	18.51	18.44	
100		270	0	19.26	19.38	19.54	19.53	19.50	
100	DFT-s-OFDM 16QAM	1	1	18.16	18.33	18.37	18.49	18.20	19.4
100	DFT-s-OFDM 64QAM	1	1	16.67	17.05	17.06	17.16	16.91	18.4
100	DFT-s-OFDM 256QAM	1	1	14.56	14.77	14.93	14.91	14.72	15.4
100	CP-OFDM QPSK	1	1	17.92	18.10	18.11	18.23	17.84	23.5
100	CP-OFDM 16QAM	1	1	17.11	17.59	17.63	17.75	17.37	24
100	CP-OFDM 64QAM	1	1	15.15	15.62	15.65	15.82	15.37	23
100	CP-OFDM 256QAM	1	1	12.50	12.84	12.84	12.99	12.74	19
Channel				633000	633168	633334	633500	633666	21.9
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	19.45	19.44	19.42	19.37	19.44	21.9
Channel				632668	633000	633334	633666	634000	21.9
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	19.47	19.41	19.41	19.32	19.35	21.9
Channel				632334	632834	633334	633832	634332	21.9
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	19.46	19.38	19.43	19.33	19.26	21.9
Channel				632000	632668	633334	634000	634666	21.9
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	19.28	19.25	19.14	19.15	19.12	21.9
Channel				631668	632500	633334	634166	635000	21.9
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	19.50	19.48	19.56	19.34	19.28	21.9
Channel				631334	632334	633334	634332	635332	21.9
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	19.41	19.39	19.18	19.10	18.87	21.9
Channel				631000	632168	633334	634500	635666	21.9
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	19.40	19.39	19.29	19.15	18.89	21.9
Channel				630668	632000	633334	634666	636000	21.9
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	19.25	19.15	19.10	19.06	18.86	21.9
Channel				630500	631916	633334	634750	636166	21.9
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	19.19	19.22	19.16	18.89	18.83	21.9
Channel				630334	631834	633334	634834	636332	21.9
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	19.16	19.19	19.21	18.83	18.84	21.9

n77(3450-3550MHz) (PC2)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			15.7
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			14.66			15.7
100		1	136			14.60			
100		1	271			14.26			
100		135	1			14.29			15.7
100		135	67			14.65			
100		135	136			13.89			
100	DFT-s-OFDM QPSK	270	0			14.14			15.7
100		1	1			14.69			
100		1	136			14.56			
100		1	271			14.23			15.7
100		135	1			13.94			
100		135	67			14.60			
100	DFT-s-OFDM 16QAM	135	136			13.99			15.7
100		270	0			14.51			
100		1	1			13.46			
100	DFT-s-OFDM 64QAM	1	1			12.59			13.7
100	DFT-s-OFDM 256QAM	1	1			10.59			11.7
100	CP-OFDM QPSK	1	1			13.62			14.7
100	CP-OFDM 16QAM	1	1			12.98			13.7
100	CP-OFDM 64QAM	1	1			11.01			11.7
100	CP-OFDM 256QAM	1	1			8.25			8.7
Channel				633000	633168	633334	633500	633666	15.7
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	14.61	14.60	14.58	14.53	14.60	15.7
Channel				632668	633000	633334	633666	634000	15.7
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	14.63	14.57	14.57	14.48	14.51	15.7
Channel				632334	632834	633334	633832	634332	15.7
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	14.62	14.54	14.59	14.49	14.42	15.7
Channel				632000	632668	633334	634000	634666	15.7
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	14.44	14.41	14.30	14.31	14.28	15.7
Channel				631668	632500	633334	634166	635000	15.7
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	14.66	14.64	14.57	14.50	14.44	15.7
Channel				631334	632334	633334	634332	635332	15.7
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	14.57	14.55	14.34	14.26	14.23	15.7
Channel				631000	632168	633334	634500	635666	15.7
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	14.56	14.55	14.45	14.31	14.25	15.7
Channel				630668	632000	633334	634666	636000	15.7
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	14.41	14.31	14.26	14.22	14.22	15.7
Channel				630500	631916	633334	634750	636166	15.7
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	14.35	14.38	14.32	14.20	14.29	15.7
Channel				630334	631834	633334	634834	636332	15.7
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	14.62	14.65	14.67	14.14	14.30	15.7

n77(3700-3980MHz) (PC2)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	15.7
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	14.15	14.33	14.39	14.49	14.21	15.7
100		1	136	14.31	14.29	14.43	14.14	13.83	
100		1	271	14.34	14.47	14.23	13.96	14.45	
100		135	1	14.03	13.78	13.86	13.75	13.73	15.7
100		135	67	14.31	14.27	14.42	14.16	13.88	
100		135	136	13.89	13.93	13.80	13.77	13.83	
100	DFT-s-OFDM QPSK	270	0	13.85	13.79	13.95	13.74	13.72	15.7
100		1	1	14.35	14.38	14.56	14.50	14.44	
100		1	136	14.32	14.34	14.37	14.18	13.97	
100		1	271	14.34	14.46	14.20	14.06	14.46	15.7
100		135	1	13.76	13.85	13.95	13.75	13.89	
100		135	67	14.41	14.36	14.43	14.37	14.39	
100	DFT-s-OFDM 16QAM	1	1	13.16	13.23	13.33	13.49	13.20	14.7
100		1	1	11.67	11.89	11.97	12.10	11.91	12.7
100	DFT-s-OFDM 256QAM	1	1	9.46	9.66	9.75	9.87	9.62	10.7
100	CP-OFDM QPSK	1	1	13.02	13.08	13.12	13.18	12.94	13.7
100	CP-OFDM 16QAM	1	1	12.21	12.51	12.57	12.71	12.47	13.7
100	CP-OFDM 64QAM	1	1	10.25	10.50	10.57	10.72	10.47	11.7
100	CP-OFDM 256QAM	1	1	7.50	7.71	7.81	7.92	7.84	8.7
Channel				649666	652834	656000	659166	662332	15.7
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	14.19	14.27	14.35	14.47	14.17	15.7
Channel				649334	652668	656000	659332	662666	15.7
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	14.26	14.28	14.45	14.32	14.08	15.7
Channel				649000	652500	656000	659500	663000	15.7
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	14.22	14.26	14.43	14.25	14.00	15.7
Channel				648668	652334	656000	659666	663332	15.7
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	14.06	14.20	14.22	14.00	13.74	15.7
Channel				648334	652168	656000	659832	663666	15.7
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	14.30	14.33	14.43	14.36	13.65	15.7
Channel				648000	652000	656000	660000	664000	15.7
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	14.18	14.14	14.23	14.18	13.76	15.7
Channel				647668	651834	656000	660166	664332	15.7
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	14.24	14.23	14.38	14.20	13.91	15.7
Channel				647334	651668	656000	660332	664666	15.7
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	14.12	14.10	14.23	13.91	14.06	15.7
Channel				647168	651584	656000	660416	664832	15.7
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	14.16	14.15	14.31	13.91	14.12	15.7
Channel				647000	651500	656000	660500	665000	15.7
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	14.18	14.17	14.33	13.96	14.33	15.7

n77(3450-3550MHz) (PC2)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			12.86			14
100		1	136			12.25			
100		1	271			12.35			
100		135	1			12.30			14
100		135	67			12.55			
100		135	136			12.26			
100		270	0			12.52			
100	DFT-s-OFDM QPSK	1	1			12.91			14
100		1	136			12.10			
100		1	271			12.30			
100		135	1			12.30			14
100		135	67			12.86			
100		135	136			12.08			
100		270	0			12.62			
100	DFT-s-OFDM 16QAM	1	1			11.71			13
100	DFT-s-OFDM 64QAM	1	1			10.27			11
100	DFT-s-OFDM 256QAM	1	1			8.05			9
100	CP-OFDM QPSK	1	1			11.44			13
100	CP-OFDM 16QAM	1	1			10.92			12
100	CP-OFDM 64QAM	1	1			8.88			11
100	CP-OFDM 256QAM	1	1			6.08			7
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	12.71	12.70	12.78	12.63	12.70	14
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	12.73	12.67	12.67	12.58	12.61	14
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	12.72	12.64	12.69	12.59	12.52	14
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	12.54	12.51	12.40	12.41	12.38	14
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	12.76	12.74	12.67	12.60	12.54	14
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	12.67	12.65	12.44	12.36	12.33	14
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	12.66	12.65	12.55	12.41	12.35	14
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	12.51	12.41	12.36	12.32	12.32	14
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	12.45	12.48	12.42	12.20	12.29	14
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	12.42	12.45	12.47	12.14	12.10	14

n77(3700-3980MHz) (PC2)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	14
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	12.55	12.58	12.74	12.88	12.61	14
100		1	136	12.71	12.66	12.79	12.72	12.23	
100		1	271	12.74	12.81	12.82	12.51	12.85	
100		135	1	12.43	12.15	12.20	12.13	12.03	14
100		135	67	12.71	12.64	12.76	12.75	12.48	
100		135	136	12.09	12.18	12.01	12.01	12.23	
100		270	0	12.25	12.11	12.37	12.20	12.12	
100	DFT-s-OFDM QPSK	1	1	12.76	12.75	12.89	12.88	12.74	14
100		1	136	12.72	12.60	12.73	12.67	12.37	
100		1	271	12.74	12.87	12.78	12.51	12.86	
100		135	1	12.37	12.24	12.32	12.19	12.30	14
100		135	67	12.72	12.69	12.79	12.75	12.70	
100		135	136	12.26	12.34	12.19	12.21	12.15	
100		270	0	12.59	12.49	12.71	12.66	12.51	
100	DFT-s-OFDM 16QAM	1	1	11.46	11.47	11.56	11.69	11.50	13
100	DFT-s-OFDM 64QAM	1	1	9.97	10.09	10.25	10.30	10.21	11
100	DFT-s-OFDM 256QAM	1	1	7.76	7.94	7.98	8.15	7.92	9
100	CP-OFDM QPSK	1	1	11.32	11.20	11.29	11.42	11.24	12
100	CP-OFDM 16QAM	1	1	10.51	10.61	10.82	10.94	10.77	12
100	CP-OFDM 64QAM	1	1	8.55	8.67	8.82	8.97	8.77	10
100	CP-OFDM 256QAM	1	1	5.80	5.94	6.02	6.10	6.14	7
Channel				633000	633168	633334	633500	633666	14
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	12.66	12.65	12.73	12.58	12.65	14
Channel				632668	633000	633334	633666	634000	14
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	12.68	12.62	12.62	12.53	12.56	14
Channel				632334	632834	633334	633832	634332	14
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	12.67	12.59	12.64	12.54	12.47	14
Channel				632000	632668	633334	634000	634666	14
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	12.49	12.46	12.35	12.36	12.33	14
Channel				631668	632500	633334	634166	635000	14
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	12.71	12.69	12.62	12.55	12.49	14
Channel				631334	632334	633334	634332	635332	14
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	12.62	12.60	12.39	12.31	12.28	14
Channel				631000	632168	633334	634500	635666	14
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	12.61	12.60	12.50	12.36	12.30	14
Channel				630668	632000	633334	634666	636000	14
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	12.46	12.36	12.31	12.27	12.27	14
Channel				630500	631916	633334	634750	636166	14
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	12.40	12.43	12.37	12.15	12.24	14
Channel				630334	631834	633334	634834	636332	14
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	12.37	12.40	12.42	12.09	12.05	14

n77(3450-3550MHz) (PC2)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			15.80			16.8
100		1	136			15.57			
100		1	271			15.37			
100		135	1			15.11			16.8
100		135	67			15.57			
100		135	136			15.09			
100		270	0			15.08			
100	DFT-s-OFDM QPSK	1	1			15.81			16.8
100		1	136			15.51			
100		1	271			15.37			
100		135	1			14.99			16.8
100		135	67			15.77			
100		135	136			15.15			
100		270	0			15.69			
100	DFT-s-OFDM 16QAM	1	1			14.69			15.8
100	DFT-s-OFDM 64QAM	1	1			13.27			14.8
100	DFT-s-OFDM 256QAM	1	1			11.05			11.8
100	CP-OFDM QPSK	1	1			14.44			15.8
100	CP-OFDM 16QAM	1	1			13.76			14.8
100	CP-OFDM 64QAM	1	1			11.82			12.8
100	CP-OFDM 256QAM	1	1			9.04			9.8
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	15.64	15.63	15.61	15.56	15.63	16.8
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	15.66	15.60	15.60	15.51	15.54	16.8
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	15.65	15.57	15.62	15.52	15.45	16.8
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	15.47	15.44	15.33	15.34	15.31	16.8
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	15.69	15.67	15.75	15.53	15.47	16.8
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	15.60	15.58	15.37	15.29	15.06	16.8
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	15.59	15.58	15.48	15.34	15.08	16.8
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	15.44	15.34	15.29	15.25	15.05	16.8
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	15.38	15.41	15.35	15.08	15.02	16.8
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	15.35	15.38	15.40	15.02	15.03	16.8

n77(3700-3980MHz) (PC2)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	16.8
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	15.35	15.59	15.67	15.72	15.41	16.8
100		1	136	15.51	15.56	15.64	15.64	15.13	
100		1	271	15.54	15.72	15.71	15.44	15.65	
100		135	1	15.23	15.13	15.20	15.07	15.03	16.8
100		135	67	15.51	15.72	15.74	15.75	15.48	
100		135	136	14.89	15.26	15.12	15.12	15.03	
100		270	0	15.05	15.26	15.50	15.43	14.92	
100	DFT-s-OFDM QPSK	1	1	15.75	15.78	15.83	15.75	15.74	16.8
100		1	136	15.52	15.67	15.81	15.76	15.67	
100		1	271	15.54	15.73	15.73	15.68	15.66	
100		135	1	14.86	14.85	14.88	14.81	14.89	16.8
100		135	67	15.61	15.64	15.76	15.75	15.69	
100		135	136	14.95	14.92	14.99	14.81	14.84	
100		270	0	15.60	15.64	15.66	15.61	15.57	
100	DFT-s-OFDM 16QAM	1	1	14.56	14.60	14.62	14.78	14.60	15.8
100	DFT-s-OFDM 64QAM	1	1	13.07	13.31	13.30	13.43	13.31	14.8
100	DFT-s-OFDM 256QAM	1	1	10.96	11.15	11.16	11.24	11.12	11.8
100	CP-OFDM QPSK	1	1	14.32	14.37	14.43	14.49	14.24	15.8
100	CP-OFDM 16QAM	1	1	13.51	13.85	13.79	14.03	13.77	14.8
100	CP-OFDM 64QAM	1	1	11.55	11.83	11.86	12.08	11.77	12.8
100	CP-OFDM 256QAM	1	1	8.90	9.11	9.13	9.23	9.14	9.8
Channel				633000	633168	633334	633500	633666	16.8
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	15.95	15.94	15.92	15.87	15.94	16.8
Channel				632668	633000	633334	633666	634000	16.8
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	15.97	15.91	15.91	15.82	15.85	16.8
Channel				632334	632834	633334	633832	634332	16.8
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	15.96	15.88	15.93	15.83	15.76	16.8
Channel				632000	632668	633334	634000	634666	16.8
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	15.78	15.75	15.64	15.65	15.62	16.8
Channel				631668	632500	633334	634166	635000	16.8
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	16.00	15.98	16.06	15.84	15.78	16.8
Channel				631334	632334	633334	634332	635332	16.8
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	15.91	15.89	15.68	15.60	15.37	16.8
Channel				631000	632168	633334	634500	635666	16.8
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	15.90	15.89	15.79	15.65	15.39	16.8
Channel				630668	632000	633334	634666	636000	16.8
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	15.75	15.65	15.60	15.56	15.36	16.8
Channel				630500	631916	633334	634750	636166	16.8
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	15.69	15.72	15.66	15.39	15.33	16.8
Channel				630334	631834	633334	634834	636332	16.8
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	15.66	15.69	15.71	15.33	15.34	16.8

n77(3450-3550MHz) (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			19.4
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			18.12			19.4
100		1	136			18.11			
100		1	271			18.17			
100		135	1			18.17			19.4
100		135	67			18.09			
100		135	136			18.19			
100	DFT-s-OFDM QPSK	270	0			18.20			19.4
100		1	1			18.22			
100		1	136			18.11			
100		1	271			18.16			19.4
100		135	1			18.05			
100		135	67			18.16			
100		135	136			18.04			19.4
100		270	0			18.14			
100	DFT-s-OFDM 16QAM	1	1			18.03			19.4
100	DFT-s-OFDM 64QAM	1	1			16.28			17.4
100	DFT-s-OFDM 256QAM	1	1			14.46			15.4
100	CP-OFDM QPSK	1	1			17.70			19.4
100	CP-OFDM 16QAM	1	1			17.16			18.4
100	CP-OFDM 64QAM	1	1			15.44			16.4
100	CP-OFDM 256QAM	1	1			12.56			14.4
Channel				633000	633168	633334	633500	633666	19.4
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	18.00	18.04	18.06	18.01	18.14	19.4
Channel				632668	633000	633334	633666	634000	19.4
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	18.20	18.13	18.16	18.18	18.07	19.4
Channel				632334	632834	633334	633832	634332	19.4
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	18.12	18.09	18.15	18.16	18.14	19.4
Channel				632000	632668	633334	634000	634666	19.4
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	18.05	18.11	18.11	18.11	18.16	19.4
Channel				631668	632500	633334	634166	635000	19.4
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	18.19	18.19	18.11	18.18	18.11	19.4
Channel				631334	632334	633334	634332	635332	19.4
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	18.12	18.13	18.16	18.12	18.16	19.4
Channel				631000	632168	633334	634500	635666	19.4
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	18.13	18.09	18.15	18.12	18.16	19.4
Channel				630668	632000	633334	634666	636000	19.4
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	18.00	18.09	18.13	18.14	18.18	19.4
Channel				630500	631916	633334	634750	636166	19.4
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	17.98	18.09	18.15	18.18	18.17	19.4
Channel				630334	631834	633334	634834	636332	19.4
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	17.96	18.06	18.07	18.16	18.14	19.4

n77(3700-3980MHz) (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	19.4
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	18.07	18.06	18.15	18.04	18.20	19.4
100		1	136	18.02	18.03	18.05	18.03	18.10	
100		1	271	18.01	18.20	18.11	18.06	18.10	
100		135	1	17.96	17.96	18.01	18.02	18.12	19.4
100		135	67	17.96	18.04	18.00	17.90	18.10	
100		135	136	18.01	18.14	18.05	18.11	18.06	
100	DFT-s-OFDM QPSK	270	0	17.99	18.14	18.10	18.13	18.14	19.4
100		1	1	18.06	18.12	18.24	18.09	18.19	
100		1	136	17.94	17.95	17.93	17.96	18.03	
100		1	271	18.16	18.10	18.20	18.12	18.13	19.4
100		135	1	17.95	17.92	17.98	18.03	18.09	
100		135	67	18.10	18.13	18.16	18.11	18.01	
100	DFT-s-OFDM 16QAM	135	136	17.96	17.94	17.94	17.96	18.03	19.4
100		270	0	18.05	18.09	18.06	18.11	18.16	
100	DFT-s-OFDM 64QAM	1	1	17.83	17.93	17.99	17.93	18.04	19.4
100	DFT-s-OFDM 256QAM	1	1	16.17	16.30	16.39	16.30	16.42	17.4
100	CP-OFDM QPSK	1	1	14.24	14.46	14.51	14.43	14.56	15.4
100	CP-OFDM 16QAM	1	1	17.61	17.50	16.81	17.66	16.84	19.4
100	CP-OFDM 64QAM	1	1	16.91	17.03	17.14	17.08	17.20	18.4
100	CP-OFDM 256QAM	1	1	15.37	15.51	15.56	15.56	15.67	16.4
100	CP-OFDM 256QAM	1	1	12.32	12.53	12.59	12.56	12.66	14.4
Channel				649666	652834	656000	659166	662332	Tune-up limit (dBm)
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	18.01	18.10	17.96	17.88	18.15	19.4
Channel				649334	652668	656000	659332	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	17.93	17.94	17.93	17.97	18.10	19.4
Channel				649000	652500	656000	659500	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	17.83	17.92	17.95	18.02	18.03	19.4
Channel				648668	652334	656000	659666	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	17.76	17.72	17.80	17.91	17.96	19.4
Channel				648334	652168	656000	659832	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	17.86	17.99	18.01	18.06	18.03	19.4
Channel				648000	652000	656000	660000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	17.87	17.87	17.85	17.93	17.83	19.4
Channel				647668	651834	656000	660166	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	17.97	17.98	17.96	18.10	17.92	19.4
Channel				647334	651668	656000	660332	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	17.88	17.79	17.72	17.81	17.77	19.4
Channel				647168	651584	656000	660416	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	17.82	17.93	17.81	17.83	17.82	19.4
Channel				647000	651500	656000	660500	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	17.78	17.90	17.78	17.93	17.75	19.4

n77(3450-3550MHz) (PC3)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			13.7
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			13.62			13.7
100		1	136			13.61			
100		1	271			13.67			
100		135	1			13.67			13.7
100		135	67			13.59			
100		135	136			13.69			
100	DFT-s-OFDM QPSK	270	0			13.70			13.7
100		1	1			13.72			
100		1	136			13.61			
100		1	271			13.66			13.7
100		135	1			13.55			
100		135	67			13.66			
100	DFT-s-OFDM 16QAM	135	136			13.54			13.7
100		270	0			13.64			
100		1	1			13.53			
100		1	1			11.78			
100	DFT-s-OFDM 256QAM	1	1			9.96			10.7
100	CP-OFDM QPSK	1	1			13.20			13.7
100	CP-OFDM 16QAM	1	1			12.66			13.7
100	CP-OFDM 64QAM	1	1			10.94			11.7
100	CP-OFDM 256QAM	1	1			8.06			8.7
Channel				633000	633168	633334	633500	633666	13.7
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	13.50	13.54	13.56	13.51	13.64	13.7
Channel				632668	633000	633334	633666	634000	13.7
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	13.70	13.63	13.66	13.68	13.57	13.7
Channel				632334	632834	633334	633832	634332	13.7
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	13.62	13.59	13.65	13.66	13.64	13.7
Channel				632000	632668	633334	634000	634666	13.7
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	13.55	13.61	13.61	13.61	13.66	13.7
Channel				631668	632500	633334	634166	635000	13.7
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	13.69	13.69	13.61	13.68	13.61	13.7
Channel				631334	632334	633334	634332	635332	13.7
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	13.62	13.63	13.66	13.62	13.66	13.7
Channel				631000	632168	633334	634500	635666	13.7
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	13.63	13.59	13.65	13.62	13.66	13.7
Channel				630668	632000	633334	634666	636000	13.7
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	13.50	13.59	13.63	13.64	13.68	13.7
Channel				630500	631916	633334	634750	636166	13.7
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	13.48	13.59	13.65	13.68	13.67	13.7
Channel				630334	631834	633334	634834	636332	13.7
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	13.46	13.56	13.57	13.66	13.64	13.7

n77(3700-3980MHz) (PC3)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	14.7
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	13.57	13.56	13.65	13.54	13.70	14.7
100		1	136	13.52	13.53	13.55	13.53	13.60	
100		1	271	13.51	13.70	13.61	13.56	13.60	
100		135	1	13.46	13.46	13.51	13.52	13.62	14.7
100		135	67	13.46	13.54	13.50	13.40	13.60	
100		135	136	13.51	13.64	13.55	13.61	13.56	
100	DFT-s-OFDM QPSK	270	0	13.49	13.64	13.60	13.63	13.64	14.7
100		1	1	13.56	13.62	13.74	13.59	13.69	
100		1	136	13.44	13.45	13.43	13.46	13.53	
100		1	271	13.66	13.60	13.70	13.62	13.63	14.7
100		135	1	13.45	13.42	13.48	13.53	13.59	
100		135	67	13.60	13.63	13.66	13.61	13.51	
100	DFT-s-OFDM 16QAM	135	136	13.46	13.44	13.44	13.46	13.53	14.7
100		270	0	13.55	13.59	13.56	13.61	13.66	
100	DFT-s-OFDM 64QAM	1	1	13.33	13.43	13.49	13.43	13.54	14.7
100	DFT-s-OFDM 256QAM	1	1	11.67	11.80	11.89	11.80	11.92	12.7
100	CP-OFDM QPSK	1	1	9.74	9.96	10.01	9.93	10.06	10.7
100	CP-OFDM 16QAM	1	1	13.11	13.00	12.31	13.16	12.34	13.7
100	CP-OFDM 64QAM	1	1	12.41	12.53	12.64	12.58	12.70	13.7
100	CP-OFDM 256QAM	1	1	10.87	11.01	11.06	11.06	11.17	11.7
100	CP-OFDM 256QAM	1	1	7.82	8.03	8.09	8.06	8.16	8.7
Channel				649666	652834	656000	659166	662332	14.7
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	13.51	13.60	13.46	13.38	13.65	14.7
Channel				649334	652668	656000	659332	662666	14.7
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	13.43	13.44	13.43	13.47	13.60	14.7
Channel				649000	652500	656000	659500	663000	14.7
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	13.33	13.42	13.45	13.52	13.53	14.7
Channel				648668	652334	656000	659666	663332	14.7
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	13.26	13.22	13.30	13.41	13.46	14.7
Channel				648334	652168	656000	659832	663666	14.7
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	13.36	13.49	13.51	13.56	13.53	14.7
Channel				648000	652000	656000	660000	664000	14.7
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	13.37	13.37	13.35	13.43	13.33	14.7
Channel				647668	651834	656000	660166	664332	14.7
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	13.47	13.48	13.46	13.60	13.42	14.7
Channel				647334	651668	656000	660332	664666	14.7
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	13.38	13.29	13.22	13.31	13.27	14.7
Channel				647168	651584	656000	660416	664832	14.7
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	13.32	13.43	13.31	13.33	13.32	14.7
Channel				647000	651500	656000	660500	665000	14.7
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	13.28	13.40	13.28	13.43	13.25	25.2

n77(3450-3550MHz) (PC3)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			13
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			11.97			13
100		1	136			11.96			
100		1	271			12.02			
100		135	1			12.02			13
100		135	67			11.94			
100		135	136			12.04			
100	DFT-s-OFDM QPSK	270	0			12.05			13
100		1	1			12.07			
100		1	136			11.96			
100		1	271			12.01			13
100		135	1			11.90			
100		135	67			12.01			
100		135	136			11.89			13
100		270	0			11.99			
100	DFT-s-OFDM 16QAM	1	1			11.88			13
100	DFT-s-OFDM 64QAM	1	1			10.13			11
100	DFT-s-OFDM 256QAM	1	1			8.31			9
100	CP-OFDM QPSK	1	1			11.55			13
100	CP-OFDM 16QAM	1	1			11.01			12
100	CP-OFDM 64QAM	1	1			9.29			10
100	CP-OFDM 256QAM	1	1			6.41			7
Channel				633000	633168	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	11.85	11.89	11.91	11.86	11.99	13
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	12.05	11.98	12.01	12.03	11.92	13
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	11.97	11.94	12.00	12.01	11.99	13
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	11.90	11.96	11.96	11.96	12.01	13
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	12.04	12.04	11.96	12.03	11.96	13
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	11.97	11.98	12.01	11.97	12.01	13
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	11.98	11.94	12.00	11.97	12.01	13
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	11.85	11.94	11.98	11.99	12.03	13
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	11.83	11.94	12.00	12.03	12.02	13
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	11.81	11.91	11.92	12.01	11.99	13

n77(3700-3980MHz) (PC3)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	13
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	11.87	11.86	11.95	11.84	12.00	13
100		1	136	11.82	11.83	11.85	11.83	11.90	
100		1	271	11.81	12.00	11.91	11.86	11.90	
100		135	1	11.76	11.76	11.81	11.82	11.92	13
100		135	67	11.76	11.84	11.80	11.70	11.90	
100		135	136	11.81	11.94	11.85	11.91	11.86	
100	DFT-s-OFDM QPSK	270	0	11.79	11.94	11.90	11.93	11.94	13
100		1	1	11.86	11.92	12.04	11.89	11.99	
100		1	136	11.74	11.75	11.73	11.76	11.83	
100		1	271	11.96	11.90	12.00	11.92	11.93	13
100		135	1	11.75	11.72	11.78	11.83	11.89	
100		135	67	11.90	11.93	11.96	11.91	11.81	
100	DFT-s-OFDM 16QAM	135	136	11.76	11.74	11.74	11.76	11.83	13
100		270	0	11.85	11.89	11.86	11.91	11.96	
100	DFT-s-OFDM 64QAM	1	1	11.63	11.73	11.79	11.73	11.84	13
100	DFT-s-OFDM 256QAM	1	1	9.97	10.10	10.19	10.10	10.22	11
100	CP-OFDM QPSK	1	1	8.04	8.26	8.31	8.23	8.36	9
100	CP-OFDM 16QAM	1	1	11.41	11.30	10.61	11.46	10.64	13
100	CP-OFDM 64QAM	1	1	10.71	10.83	10.94	10.88	11.00	12
100	CP-OFDM 256QAM	1	1	9.17	9.31	9.36	9.36	9.47	10
100	CP-OFDM 256QAM	1	1	6.12	6.33	6.39	6.36	6.46	7
Channel				649666	652834	656000	659166	662332	13
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	11.81	11.90	11.76	11.68	11.95	13
Channel				649334	652668	656000	659332	662666	13
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	11.73	11.74	11.73	11.77	11.90	13
Channel				649000	652500	656000	659500	663000	13
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	11.63	11.72	11.75	11.82	11.83	13
Channel				648668	652334	656000	659666	663332	13
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	11.56	11.52	11.60	11.71	11.76	13
Channel				648334	652168	656000	659832	663666	13
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	11.66	11.79	11.81	11.86	11.83	13
Channel				648000	652000	656000	660000	664000	13
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	11.67	11.67	11.65	11.73	11.63	13
Channel				647668	651834	656000	660166	664332	13
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	11.77	11.78	11.76	11.90	11.72	13
Channel				647334	651668	656000	660332	664666	13
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	11.68	11.59	11.52	11.61	11.57	13
Channel				647168	651584	656000	660416	664832	13
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	11.62	11.73	11.61	11.63	11.62	13
Channel				647000	651500	656000	660500	665000	13
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	11.58	11.70	11.58	11.73	11.55	13

n77(3450-3550MHz) (PC3)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			15.8
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			14.51			15.8
100		1	136			14.50			
100		1	271			14.56			
100		135	1			14.56			15.8
100		135	67			14.48			
100		135	136			14.58			
100	DFT-s-OFDM QPSK	270	0			14.59			15.8
100		1	1			14.61			
100		1	136			14.50			
100		1	271			14.55			15.8
100		135	1			14.44			
100		135	67			14.55			
100		135	136			14.43			15.8
100		270	0			14.53			
100	DFT-s-OFDM 16QAM	1	1			14.42			15.8
100	DFT-s-OFDM 64QAM	1	1			12.67			13.8
100	DFT-s-OFDM 256QAM	1	1			10.85			11.8
100	CP-OFDM QPSK	1	1			14.09			15.8
100	CP-OFDM 16QAM	1	1			13.55			14.8
100	CP-OFDM 64QAM	1	1			11.83			12.8
100	CP-OFDM 256QAM	1	1			8.95			10.8
Channel				633000	633168	633334	633500	633666	15.8
Frequency (MHz)				3495	3497.52	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	14.39	14.43	14.45	14.40	14.53	15.8
Channel				632668	633000	633334	633666	634000	15.8
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	14.59	14.52	14.55	14.57	14.46	15.8
Channel				632334	632834	633334	633832	634332	15.8
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	14.51	14.48	14.54	14.55	14.53	15.8
Channel				632000	632668	633334	634000	634666	15.8
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	14.44	14.50	14.50	14.50	14.55	15.8
Channel				631668	632500	633334	634166	635000	15.8
Frequency (MHz)				3475.02	3487.5	3500.01	3510	3525	
50	DFT-s-OFDM QPSK	1	1	14.58	14.58	14.50	14.57	14.50	15.8
Channel				631334	632334	633334	634332	635332	15.8
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	14.51	14.52	14.55	14.51	14.55	15.8
Channel				631000	632168	633334	634500	635666	15.8
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	14.52	14.48	14.54	14.51	14.55	15.8
Channel				630668	632000	633334	634666	636000	15.8
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	14.39	14.48	14.52	14.53	14.57	15.8
Channel				630500	631916	633334	634750	636166	15.8
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	14.37	14.48	14.54	14.57	14.56	15.8
Channel				630334	631834	633334	634834	636332	15.8
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	14.35	14.45	14.46	14.55	14.53	15.8

n77(3700-3980MHz) (PC3)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	15.8
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	14.48	14.47	14.56	14.45	14.61	15.8
100		1	136	14.43	14.44	14.46	14.44	14.51	
100		1	271	14.42	14.61	14.52	14.47	14.51	
100		135	1	14.37	14.37	14.42	14.43	14.53	15.8
100		135	67	14.37	14.45	14.41	14.31	14.51	
100		135	136	14.42	14.55	14.46	14.52	14.47	
100	DFT-s-OFDM QPSK	270	0	14.40	14.55	14.51	14.54	14.55	15.8
100		1	1	14.47	14.53	14.65	14.50	14.60	
100		1	136	14.35	14.36	14.34	14.37	14.44	
100		1	271	14.57	14.51	14.61	14.53	14.54	15.8
100		135	1	14.36	14.33	14.39	14.44	14.50	
100		135	67	14.51	14.54	14.57	14.52	14.42	
100	DFT-s-OFDM 16QAM	1	1	14.24	14.34	14.40	14.34	14.45	15.8
100		1	1	12.58	12.71	12.80	12.71	12.83	13.8
100	DFT-s-OFDM 256QAM	1	1	10.65	10.87	10.92	10.84	10.97	11.8
100	CP-OFDM QPSK	1	1	14.02	13.91	13.22	14.07	13.25	15.8
100	CP-OFDM 16QAM	1	1	13.32	13.44	13.55	13.49	13.61	14.8
100	CP-OFDM 64QAM	1	1	11.78	11.92	11.97	11.97	12.08	12.8
100	CP-OFDM 256QAM	1	1	8.73	8.94	9.00	8.97	9.07	10.8
Channel				649666	652834	656000	659166	662332	15.8
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3934.98	
90	DFT-s-OFDM QPSK	1	1	14.42	14.51	14.37	14.29	14.56	15.8
Channel				649334	652668	656000	659332	662666	15.8
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	14.34	14.35	14.34	14.38	14.51	15.8
Channel				649000	652500	656000	659500	663000	15.8
Frequency (MHz)				3735	3787.5	3840	3892.5	3945	
70	DFT-s-OFDM QPSK	1	1	14.24	14.33	14.36	14.43	14.44	15.8
Channel				648668	652334	656000	659666	663332	15.8
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	14.17	14.13	14.21	14.32	14.37	15.8
Channel				648334	652168	656000	659832	663666	15.8
Frequency (MHz)				3725.01	3782.52	3840	3894.99	3954.99	
50	DFT-s-OFDM QPSK	1	1	14.27	14.40	14.42	14.47	14.44	15.8
Channel				648000	652000	656000	660000	664000	15.8
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	14.28	14.28	14.26	14.34	14.24	15.8
Channel				647668	651834	656000	660166	664332	15.8
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	14.38	14.39	14.37	14.51	14.33	15.8
Channel				647334	651668	656000	660332	664666	15.8
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	14.29	14.20	14.13	14.22	14.18	15.8
Channel				647168	651584	656000	660416	664832	15.8
Frequency (MHz)				3707.52	3773.76	3840	3906.24	3972.48	
15	DFT-s-OFDM QPSK	1	1	14.23	14.34	14.22	14.24	14.23	15.8
Channel				647000	651500	656000	660500	665000	15.8
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	14.19	14.31	14.19	14.34	14.16	15.8

n78(3450-3550MHz) (PC2)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			18.38			19.4
100		1	136			18.32			
100		1	271			18.29			
100		135	1			18.27			19.4
100		135	67			18.24			
100		135	136			17.71			
100		270	0			18.28			
100	DFT-s-OFDM QPSK	1	1			18.40			19.4
100		1	136			18.38			
100		1	271			18.18			
100		135	1			17.96			19.4
100		135	67			18.37			
100		135	136			17.43			
100		270	0			18.26			
100	DFT-s-OFDM 16QAM	1	1			17.89			18.4
100	DFT-s-OFDM 64QAM	1	1			16.69			17.4
100	DFT-s-OFDM 256QAM	1	1			14.41			15.4
100	CP-OFDM QPSK	1	1			17.81			19.4
100	CP-OFDM 16QAM	1	1			17.21			18.4
100	CP-OFDM 64QAM	1	1			15.27			17.4
100	CP-OFDM 256QAM	1	1			12.58			13.4
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	18.29	18.26	18.23	18.25	18.28	19.4
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	18.30	18.19	18.27	18.31	18.17	19.4
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	18.26	18.24	18.25	18.14	18.16	19.4
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	18.15	18.09	18.08	17.95	17.92	19.4
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	18.22	18.12	18.08	18.23	18.10	19.4
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	18.19	17.15	17.92	17.96	17.70	19.4
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	18.25	18.16	18.09	18.01	17.93	19.4
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	18.16	18.03	18.04	18.03	17.95	19.4
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	18.18	18.14	18.01	18.01	17.89	19.4
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	18.20	18.19	18.07	17.86	18.10	19.4

n78(3700-3800MHz) (PC2)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			18.02			22.9
100		1	136			18.11			
100		1	271			18.18			
100		135	1			17.89			22.9
100		135	67			18.11			
100		135	136			17.56			
100		270	0			17.74			
100	DFT-s-OFDM QPSK	1	1			18.24			22.9
100		1	136			18.05			
100		1	271			18.11			
100		135	1			17.68			22.9
100		135	67			18.15			
100		135	136			17.58			
100		270	0			18.10			
100	DFT-s-OFDM 16QAM	1	1			17.42			18.4
100	DFT-s-OFDM 64QAM	1	1			16.03			17.4
100	DFT-s-OFDM 256QAM	1	1			13.79			14.4
100	CP-OFDM QPSK	1	1			17.16			18.4
100	CP-OFDM 16QAM	1	1			16.61			17.4
100	CP-OFDM 64QAM	1	1			14.57			15.4
100	CP-OFDM 256QAM	1	1			11.81			12.4
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	18.09	18.06	18.13	18.05	18.08	22.9
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	18.10	17.99	18.07	18.11	17.97	22.9
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	18.06	18.04	18.05	17.94	17.96	22.9
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	17.95	17.89	17.88	17.75	17.72	22.9
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	18.02	17.92	17.88	18.03	17.90	22.9
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	17.99	16.95	17.72	17.76	17.50	22.9
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	18.05	17.96	17.89	17.81	17.73	22.9
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	17.96	17.83	17.84	17.83	17.75	22.9
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	17.98	17.94	17.81	17.81	17.69	22.9
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	18.00	17.99	17.87	17.66	17.90	22.9

n78(3450-3550MHz) (PC2)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			16.9
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			15.90			16.9
100		1	136			15.88			
100		1	271			15.51			
100		135	1			15.52			16.9
100		135	67			15.88			
100		135	136			14.91			
100	DFT-s-OFDM QPSK	270	0			15.41			16.9
100		1	1			15.95			
100		1	136			15.80			
100		1	271			15.49			16.9
100		135	1			15.01			
100		135	67			15.82			
100		135	136			14.92			16.9
100		270	0			14.90			
100	DFT-s-OFDM 16QAM	1	1			15.10			15.9
100	DFT-s-OFDM 64QAM	1	1			13.34			14.2
100	DFT-s-OFDM 256QAM	1	1			11.46			12.2
100	CP-OFDM QPSK	1	1			14.86			15.9
100	CP-OFDM 16QAM	1	1			14.27			14.9
100	CP-OFDM 64QAM	1	1			12.36			12.9
100	CP-OFDM 256QAM	1	1			9.55			9.9
Channel				633000	633166	633334	633500	633666	16.9
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	15.94	15.81	15.88	15.90	15.93	16.9
Channel				632668	633000	633334	633666	634000	16.9
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	15.90	15.84	15.92	15.90	15.82	16.9
Channel				632334	632834	633334	633832	634332	16.9
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	15.91	15.89	15.90	15.79	15.81	16.9
Channel				632000	632666	633334	634000	634666	16.9
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	15.80	15.74	15.73	15.60	15.57	16.9
Channel				631668	632500	633334	634166	635000	16.9
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	15.77	15.77	15.73	15.88	15.75	16.9
Channel				631334	636672	633334	634334	635332	16.9
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	15.84	14.80	15.57	15.61	15.35	16.9
Channel				631000	632166	633334	634500	635666	16.9
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	15.90	15.81	15.74	15.66	15.18	16.9
Channel				630668	632000	633334	634668	636000	16.9
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	15.81	15.68	15.69	15.28	15.20	16.9
Channel				630500	631916	633334	634750	636166	16.9
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	15.83	15.79	15.66	15.26	15.14	16.9
Channel				630334	631834	633334	634834	636332	16.9
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	15.85	15.84	15.72	15.51	15.35	27.2

n78(3700-3800MHz) (PC2)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			16.9
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			15.62			16.9
100		1	136			15.63			
100		1	271			15.69			
100		135	1			15.35			16.9
100		135	67			15.65			
100		135	136			15.03			
100	DFT-s-OFDM QPSK	270	0			15.20			16.9
100		1	1			15.78			
100		1	136			15.66			
100		1	271			15.71			16.9
100		135	1			15.17			
100		135	67			15.62			
100		135	136			15.01			16.9
100		270	0			15.58			
100	DFT-s-OFDM 16QAM	1	1			14.39			14.9
100	DFT-s-OFDM 64QAM	1	1			12.99			13.9
100	DFT-s-OFDM 256QAM	1	1			10.75			11.9
100	CP-OFDM QPSK	1	1			14.18			14.9
100	CP-OFDM 16QAM	1	1			13.61			13.9
100	CP-OFDM 64QAM	1	1			12.22			12.9
100	CP-OFDM 256QAM	1	1			8.83			9.9
Channel				649668	649834	650000	650166	650332	16.9
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	15.51	15.60	15.59	15.65	15.68	16.9
Channel				649334	649666	650000	650334	650666	16.9
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	15.60	15.55	15.67	15.73	15.74	16.9
Channel				649000	649500	650000	650500	651000	16.9
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	15.55	15.66	15.74	15.70	15.71	16.9
Channel				648668	649334	650000	650666	651332	16.9
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	15.38	15.55	15.59	15.65	15.55	16.9
Channel				648334	649166	650000	650834	651666	16.9
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	15.60	15.71	15.78	15.78	15.71	16.9
Channel				648000	649000	650000	651000	652000	16.9
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	15.47	15.73	15.70	15.58	15.57	16.9
Channel				647668	648834	650000	651166	652332	16.9
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	15.50	15.73	15.77	15.58	15.53	16.9
Channel				647334	648666	650000	651334	652666	16.9
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	15.38	15.74	15.63	15.48	15.32	16.9
Channel				647168	648584	650000	651416	652832	16.9
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	15.46	15.74	15.72	15.56	15.42	16.9
Channel				647000	648500	650000	651500	653000	16.9
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	15.49	15.70	15.70	15.55	15.57	27.2

n78(3450-3550MHz) (PC2)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			12.83			14
100		1	136			12.16			
100		1	271			12.29			
100		135	1			12.04			14
100		135	67			12.02			
100		135	136			12.09			
100		270	0			12.24			
100	DFT-s-OFDM QPSK	1	1			12.98			14
100		1	136			12.16			
100		1	271			12.55			
100		135	1			12.57			14
100		135	67			12.94			
100		135	136			12.02			
100		270	0			12.79			
100	DFT-s-OFDM 16QAM	1	1			11.66			13
100	DFT-s-OFDM 64QAM	1	1			10.28			11
100	DFT-s-OFDM 256QAM	1	1			8.04			9
100	CP-OFDM QPSK	1	1			11.41			13
100	CP-OFDM 16QAM	1	1			10.78			12
100	CP-OFDM 64QAM	1	1			8.84			10
100	CP-OFDM 256QAM	1	1			6.16			7
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	12.87	12.94	12.81	12.83	12.86	14
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	12.88	12.77	12.85	12.89	12.75	14
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	12.84	12.82	12.83	12.72	12.74	14
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	12.73	12.67	12.66	12.53	12.50	14
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	12.90	12.90	12.66	12.81	12.68	14
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	12.77	11.73	12.50	12.54	12.28	14
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	12.83	12.74	12.67	12.59	12.11	14
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	12.74	12.61	12.62	12.21	12.13	14
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	12.76	12.72	12.59	12.19	12.07	14
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	12.78	12.77	12.65	12.44	12.28	14

n78(3700-3800MHz) (PC2)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			12.76			14
100		1	136			12.35			
100		1	271			12.56			
100		135	1			12.61			14
100		135	67			12.46			
100		135	136			12.47			
100		270	0			12.53			
100	DFT-s-OFDM QPSK	1	1			12.91			14
100		1	136			12.39			
100		1	271			12.53			
100		135	1			12.11			14
100		135	67			12.87			
100		135	136			11.95			
100		270	0			12.74			
100	DFT-s-OFDM 16QAM	1	1			10.68			12
100	DFT-s-OFDM 64QAM	1	1			9.32			11
100	DFT-s-OFDM 256QAM	1	1			6.97			8
100	CP-OFDM QPSK	1	1			10.46			12
100	CP-OFDM 16QAM	1	1			9.82			11
100	CP-OFDM 64QAM	1	1			7.88			9
100	CP-OFDM 256QAM	1	1			5.11			6
Channel				649668	649834	650000	650166	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	12.59	12.68	12.67	12.73	12.76	14
Channel				649334	649666	650000	650334	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	12.68	12.63	12.75	12.81	12.86	14
Channel				649000	649500	650000	650500	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	12.43	12.54	12.62	12.77	12.79	14
Channel				648668	649334	650000	650666	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	12.26	12.43	12.47	12.53	12.43	14
Channel				648334	649166	650000	650834	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	12.48	12.69	12.76	12.66	12.59	14
Channel				648000	649000	650000	651000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	12.35	12.61	12.68	12.66	12.65	14
Channel				647668	648834	650000	651166	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	12.38	12.61	12.65	12.66	12.61	14
Channel				647334	648666	650000	651334	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	12.26	12.62	12.51	12.56	12.40	14
Channel				647168	648584	650000	651416	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	12.34	12.62	12.60	12.64	12.50	14
Channel				647000	648500	650000	651500	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	12.37	12.68	12.58	12.63	12.65	14

n78(3450-3550MHz) (PC2)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			14.24			15.3
100		1	136			14.07			
100		1	271			14.14			
100		135	1			13.93			15.3
100		135	67			14.25			
100		135	136			13.46			
100		270	0			13.86			
100	DFT-s-OFDM QPSK	1	1			14.30			15.3
100		1	136			14.00			
100		1	271			14.04			
100		135	1			13.70			15.3
100		135	67			14.25			
100		135	136			13.48			
100		270	0			14.19			
100	DFT-s-OFDM 16QAM	1	1			13.51			14.3
100	DFT-s-OFDM 64QAM	1	1			12.09			13.3
100	DFT-s-OFDM 256QAM	1	1			9.89			10.3
100	CP-OFDM QPSK	1	1			13.24			14.3
100	CP-OFDM 16QAM	1	1			12.63			13.3
100	CP-OFDM 64QAM	1	1			10.73			11.3
100	CP-OFDM 256QAM	1	1			8.01			9.3
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	14.19	14.16	14.23	14.15	14.18	15.3
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	14.20	14.09	14.17	14.21	14.07	15.3
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	14.16	14.14	14.15	14.04	14.06	15.3
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	14.05	13.99	13.98	13.85	13.82	15.3
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	14.12	14.02	13.98	14.13	14.00	15.3
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	14.09	13.05	13.82	13.86	13.60	15.3
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	14.15	14.06	13.99	13.91	13.83	15.3
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	14.06	13.93	13.94	13.93	13.85	15.3
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	14.08	14.04	13.91	13.91	13.79	15.3
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	14.10	14.09	13.97	13.76	14.00	15.3

n78(3700-3800MHz) (PC2)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			14.09			22.3
100		1	136			14.09			
100		1	271			14.11			
100		135	1			13.88			22.3
100		135	67			14.10			
100		135	136			13.63			
100		270	0			13.78			
100	DFT-s-OFDM QPSK	1	1			14.15			22.3
100		1	136			14.12			
100		1	271			14.13			
100		135	1			13.37			22.3
100		135	67			14.08			
100		135	136			13.13			
100		270	0			14.03			
100	DFT-s-OFDM 16QAM	1	1			13.47			14.3
100	DFT-s-OFDM 64QAM	1	1			12.43			13.3
100	DFT-s-OFDM 256QAM	1	1			10.14			11.3
100	CP-OFDM QPSK	1	1			13.56			14.3
100	CP-OFDM 16QAM	1	1			12.56			13.3
100	CP-OFDM 64QAM	1	1			10.70			11.3
100	CP-OFDM 256QAM	1	1			8.22			9.3
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	13.99	13.96	14.03	13.95	13.98	22.3
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	14.00	13.89	13.97	14.01	13.87	22.3
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	13.96	13.94	13.95	13.84	13.86	22.3
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	13.85	13.79	13.78	13.65	13.62	22.3
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	13.92	13.82	13.78	13.93	13.80	22.3
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	13.89	12.85	13.62	13.66	13.40	22.3
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	13.95	13.86	13.79	13.71	13.63	22.3
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	13.86	13.73	13.74	13.73	13.65	22.3
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	13.88	13.84	13.71	13.71	13.59	22.3
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	13.90	13.89	13.77	13.56	13.80	22.3

n78(3450-3550MHz) (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			17.4
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			16.50			17.4
100		1	136			16.43			
100		1	271			16.47			
100		135	1			16.45			17.4
100		135	67			16.56			
100		135	136			12.65			
100	DFT-s-OFDM QPSK	270	0			16.52			17.4
100		1	1			16.58			
100		1	136			16.38			
100		1	271			16.48			17.4
100		135	1			16.42			
100		135	67			16.51			
100	DFT-s-OFDM 16QAM	135	136			16.41			17.4
100		270	0			16.44			
100	DFT-s-OFDM 64QAM	1	1			16.44			17.4
100	DFT-s-OFDM 256QAM	1	1			15.69			16.4
100	CP-OFDM QPSK	1	1			13.78			14.4
100	CP-OFDM 16QAM	1	1			16.54			17.4
100	CP-OFDM 64QAM	1	1			15.38			16.4
100	CP-OFDM 256QAM	1	1			16.42			17.4
100		1	1			11.96			13.4
Channel				633000	633166	633334	633500	633666	17.4
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	16.40	16.38	16.47	16.52	16.53	17.4
Channel				632668	633000	633334	633666	634000	17.4
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	16.39	16.36	16.40	16.47	16.46	17.4
Channel				632334	632834	633334	633832	634332	17.4
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	16.30	16.49	16.45	16.38	16.51	17.4
Channel				632000	632666	633334	634000	634666	17.4
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	16.30	16.32	16.32	16.29	16.37	17.4
Channel				631668	632500	633334	634166	635000	17.4
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	16.26	16.32	16.46	16.47	16.44	17.4
Channel				631334	636672	633334	634334	635332	17.4
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	16.27	16.26	16.31	16.31	16.48	17.4
Channel				631000	632166	633334	634500	635666	17.4
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	16.31	16.31	16.55	16.47	16.46	17.4
Channel				630668	632000	633334	634668	636000	17.4
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	16.21	16.32	16.35	16.45	16.38	17.4
Channel				630500	631916	633334	634750	636166	17.4
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	16.11	16.20	16.38	16.48	16.54	17.4
Channel				630334	631834	633334	634834	636332	17.4
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	16.10	16.25	16.45	16.50	16.51	17.4

n78(3700-3800MHz) (PC3)(ANT4)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			17.4
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			16.40			17.4
100		1	136			16.36			
100		1	271			16.35			
100		135	1			16.41			17.4
100		135	67			16.34			
100		135	136			16.34			
100	DFT-s-OFDM QPSK	270	0			16.37			17.4
100		1	1			16.51			
100		1	136			16.35			
100		1	271			16.37			17.4
100		135	1			16.39			
100		135	67			16.28			
100	DFT-s-OFDM 16QAM	135	136			15.37			17.4
100		270	0			16.37			
100		1	1			16.21			
100	DFT-s-OFDM 64QAM	1	1			15.52			16.4
100	DFT-s-OFDM 256QAM	1	1			13.58			14.4
100	CP-OFDM QPSK	1	1			15.45			16.4
100	CP-OFDM 16QAM	1	1			16.36			17.4
100	CP-OFDM 64QAM	1	1			14.70			15.4
100	CP-OFDM 256QAM	1	1			11.97			13.4
Channel				649668	649834	650000	650166	650332	17.4
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	16.26	16.32	16.40	16.42	16.45	17.4
Channel				649334	649666	650000	650334	650666	17.4
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	16.29	16.48	16.37	16.30	16.38	17.4
Channel				649000	649500	650000	650500	651000	17.4
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	16.29	16.50	16.37	16.39	16.38	17.4
Channel				648668	649334	650000	650666	651332	17.4
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	16.38	16.21	16.24	16.28	16.39	17.4
Channel				648334	649166	650000	650834	651666	17.4
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	16.47	16.43	16.47	16.44	16.47	17.4
Channel				648000	649000	650000	651000	652000	17.4
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	16.47	16.42	16.44	16.42	16.41	17.4
Channel				647668	648834	650000	651166	652332	17.4
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	16.46	16.41	16.45	16.42	16.41	17.4
Channel				647334	648666	650000	651334	652666	17.4
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	16.37	16.49	16.50	16.44	16.50	17.4
Channel				647168	648584	650000	651416	652832	17.4
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	16.42	16.50	16.45	16.43	16.44	17.4
Channel				647000	648500	650000	651500	653000	17.4
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	16.36	16.43	16.40	16.45	16.37	17.4

n78(3450-3550MHz) (PC3)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			Tune-up limit (dBm)
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			12.85			13.9
100		1	136			12.78			
100		1	271			12.82			
100		135	1			12.80			13.9
100		135	67			12.91			
100		135	136			9.00			
100	DFT-s-OFDM QPSK	270	0			12.87			13.9
100		1	1			12.93			
100		1	136			12.73			
100		1	271			12.83			13.9
100		135	1			12.77			
100		135	67			12.86			
100	DFT-s-OFDM 16QAM	135	136			12.76			13.9
100		270	0			12.79			
100	DFT-s-OFDM 64QAM	1	1			12.79			13.9
100	DFT-s-OFDM 256QAM	1	1			12.04			12.9
100	CP-OFDM QPSK	1	1			10.13			10.9
100	CP-OFDM 16QAM	1	1			12.89			13.9
100	CP-OFDM 64QAM	1	1			11.73			12.9
100	CP-OFDM 256QAM	1	1			12.77			13.9
100		1	1			8.31			8.9
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	12.75	12.73	12.82	12.87	12.88	13.9
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	12.74	12.71	12.75	12.82	12.81	13.9
Channel				632334	632834	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	12.65	12.84	12.80	12.73	12.86	13.9
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	12.65	12.67	12.67	12.64	12.72	13.9
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	12.61	12.67	12.81	12.82	12.79	13.9
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	12.62	12.61	12.66	12.66	12.83	13.9
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	12.66	12.66	12.90	12.82	12.81	13.9
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	12.56	12.67	12.70	12.80	12.73	13.9
Channel				630500	631916	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	12.46	12.55	12.73	12.83	12.89	13.9
Channel				630334	631834	633334	634834	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	12.45	12.60	12.80	12.85	12.86	13.9

n78(3700-3800MHz) (PC3)(ANT8)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			13.9
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			12.75			13.9
100		1	136			12.71			
100		1	271			12.70			
100		135	1			12.76			13.9
100		135	67			12.69			
100		135	136			12.69			
100	DFT-s-OFDM QPSK	270	0			12.72			13.9
100		1	1			12.86			
100		1	136			12.70			
100		1	271			12.72			13.9
100		135	1			12.74			
100		135	67			12.63			
100	DFT-s-OFDM 16QAM	135	136			11.72			13.9
100		270	0			12.72			
100	DFT-s-OFDM 64QAM	1	1			12.56			13.9
100	DFT-s-OFDM 256QAM	1	1			11.87			12.9
100	CP-OFDM QPSK	1	1			9.93			10.9
100	CP-OFDM 16QAM	1	1			11.80			12.9
100	CP-OFDM 64QAM	1	1			12.71			13.9
100	CP-OFDM 256QAM	1	1			11.05			11.9
100		1	1			8.12			8.9
Channel				649668	649834	650000	650166	650332	13.9
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	12.61	12.67	12.75	12.77	12.80	13.9
Channel				649334	649666	650000	650334	650666	13.9
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	12.64	12.83	12.72	12.65	12.73	13.9
Channel				649000	649500	650000	650500	651000	13.9
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	12.64	12.85	12.72	12.74	12.73	13.9
Channel				648668	649334	650000	650666	651332	13.9
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	12.73	12.56	12.59	12.63	12.74	13.9
Channel				648334	649166	650000	650834	651666	13.9
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	12.82	12.78	12.82	12.79	12.82	13.9
Channel				648000	649000	650000	651000	652000	13.9
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	12.82	12.77	12.79	12.77	12.76	13.9
Channel				647668	648834	650000	651166	652332	13.9
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	12.81	12.76	12.80	12.77	12.76	13.9
Channel				647334	648666	650000	651334	652666	13.9
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	12.72	12.84	12.85	12.79	12.85	13.9
Channel				647168	648584	650000	651416	652832	13.9
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	12.77	12.85	12.80	12.78	12.79	13.9
Channel				647000	648500	650000	651500	653000	13.9
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	12.71	12.78	12.75	12.80	12.72	13.9

n78(3450-3550MHz) (PC3)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			14.5
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			13.40			14.5
100		1	136			13.33			
100		1	271			13.37			
100		135	1			13.35			14.5
100		135	67			13.46			
100		135	136			9.55			
100	DFT-s-OFDM QPSK	270	0			13.42			14.5
100		1	1			13.48			
100		1	136			13.28			
100		1	271			13.38			14.5
100		135	1			13.32			
100		135	67			13.41			
100	DFT-s-OFDM 16QAM	135	136			13.31			14.5
100		270	0			13.34			
100	DFT-s-OFDM 64QAM	1	1			13.34			14.5
100	DFT-s-OFDM 256QAM	1	1			12.59			13.5
100	CP-OFDM QPSK	1	1			10.68			11.5
100	CP-OFDM 16QAM	1	1			13.44			14.5
100	CP-OFDM 64QAM	1	1			12.28			13.5
100	CP-OFDM 256QAM	1	1			13.32			14.5
100		1	1			8.86			9.5
Channel				633000	633166	633334	633500	633666	14.5
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	13.30	13.28	13.37	13.42	13.43	14.5
Channel				632668	633000	633334	633666	634000	14.5
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	13.29	13.26	13.30	13.37	13.36	14.5
Channel				632334	632834	633334	633832	634332	14.5
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	13.20	13.39	13.35	13.28	13.41	14.5
Channel				632000	632666	633334	634000	634666	14.5
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	13.20	13.22	13.22	13.19	13.27	14.5
Channel				631668	632500	633334	634166	635000	14.5
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	13.16	13.22	13.36	13.37	13.34	14.5
Channel				631334	636672	633334	634334	635332	14.5
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	13.17	13.16	13.21	13.21	13.38	14.5
Channel				631000	632166	633334	634500	635666	14.5
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	13.21	13.21	13.45	13.37	13.36	14.5
Channel				630668	632000	633334	634668	636000	14.5
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	13.11	13.22	13.25	13.35	13.28	14.5
Channel				630500	631916	633334	634750	636166	14.5
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	13.01	13.10	13.28	13.38	13.44	14.5
Channel				630334	631834	633334	634834	636332	14.5
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	13.00	13.15	13.35	13.40	13.41	14.5

n78(3700-3800MHz) (PC3)(ANT9)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			24.8
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			13.31			24.8
100		1	136			13.27			
100		1	271			13.26			
100		135	1			13.32			24.8
100		135	67			13.25			
100		135	136			13.25			
100	DFT-s-OFDM QPSK	270	0			13.28			24.8
100		1	1			13.42			
100		1	136			13.26			
100		1	271			13.28			24.8
100		135	1			13.30			
100		135	67			13.19			
100	DFT-s-OFDM 16QAM	135	136			12.28			24.8
100		270	0			13.28			
100		1	1			13.12			14.5
100	DFT-s-OFDM 64QAM	1	1			12.43			13.5
100	DFT-s-OFDM 256QAM	1	1			10.49			11.5
100	CP-OFDM QPSK	1	1			12.36			14.5
100	CP-OFDM 16QAM	1	1			13.27			13.5
100	CP-OFDM 64QAM	1	1			11.61			14.5
100	CP-OFDM 256QAM	1	1			8.68			9.5
Channel				649668	649834	650000	650166	650332	24.8
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	13.17	13.23	13.31	13.33	13.36	24.8
Channel				649334	649666	650000	650334	650666	24.8
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	13.20	13.39	13.28	13.21	13.29	24.8
Channel				649000	649500	650000	650500	651000	24.8
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	13.20	13.41	13.28	13.30	13.29	24.8
Channel				648668	649334	650000	650666	651332	24.8
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	13.29	13.12	13.15	13.19	13.30	24.8
Channel				648334	649166	650000	650834	651666	24.8
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	13.38	13.34	13.38	13.35	13.38	24.8
Channel				648000	649000	650000	651000	652000	24.8
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	13.38	13.33	13.35	13.33	13.32	24.8
Channel				647668	648834	650000	651166	652332	24.8
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	13.37	13.32	13.36	13.33	13.32	24.8
Channel				647334	648666	650000	651334	652666	24.8
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	13.28	13.40	13.41	13.35	13.41	24.8
Channel				647168	648584	650000	651416	652832	24.8
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	13.33	13.41	13.36	13.34	13.35	24.8
Channel				647000	648500	650000	651500	653000	24.8
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	13.27	13.34	13.31	13.36	13.28	24.8

n78(3450-3550MHz) (PC3)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			15.3
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			14.22			15.3
100		1	136			14.15			
100		1	271			14.19			
100		135	1			14.17			15.3
100		135	67			14.28			
100		135	136			10.37			
100	DFT-s-OFDM QPSK	270	0			14.24			15.3
100		1	1			14.30			
100		1	136			14.10			
100		1	271			14.20			15.3
100		135	1			14.14			
100		135	67			14.23			
100		135	136			14.13			15.3
100		270	0			14.16			
100	DFT-s-OFDM 16QAM	1	1			14.16			15.3
100	DFT-s-OFDM 64QAM	1	1			13.41			14.3
100	DFT-s-OFDM 256QAM	1	1			11.50			12.3
100	CP-OFDM QPSK	1	1			14.26			15.3
100	CP-OFDM 16QAM	1	1			13.10			14.3
100	CP-OFDM 64QAM	1	1			14.14			14.3
100	CP-OFDM 256QAM	1	1			9.68			11.3
Channel				633000	633166	633334	633500	633666	15.3
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	14.10	14.08	14.17	14.22	14.23	15.3
Channel				632668	633000	633334	633666	634000	15.3
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	14.09	14.06	14.10	14.17	14.16	15.3
Channel				632334	632834	633334	633832	634332	15.3
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	14.00	14.19	14.15	14.08	14.21	15.3
Channel				632000	632666	633334	634000	634666	15.3
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	14.00	14.02	14.02	13.99	14.07	15.3
Channel				631668	632500	633334	634166	635000	15.3
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	13.96	14.02	14.16	14.17	14.14	15.3
Channel				631334	636672	633334	634334	635332	15.3
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	13.97	13.96	14.01	14.01	14.18	15.3
Channel				631000	632166	633334	634500	635666	15.3
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	14.01	14.01	14.25	14.17	14.16	15.3
Channel				630668	632000	633334	634668	636000	15.3
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	13.91	14.02	14.05	14.15	14.08	15.3
Channel				630500	631916	633334	634750	636166	15.3
Frequency (MHz)				3457.5	3478.74	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	13.81	13.90	14.08	14.18	14.24	15.3
Channel				630334	631834	633334	634834	636332	15.3
Frequency (MHz)				3455.01	3477.51	3500.01	3522.51	3544.98	
10	DFT-s-OFDM QPSK	1	1	13.80	13.95	14.15	14.20	14.21	15.3

n78(3700-3800MHz) (PC3)(ANT11)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			15.3
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			14.13			15.3
100		1	136			14.09			
100		1	271			14.08			
100		135	1			14.14			15.3
100		135	67			14.07			
100		135	136			14.07			
100	DFT-s-OFDM QPSK	270	0			14.10			15.3
100		1	1			14.24			
100		1	136			14.08			
100		1	271			14.10			15.3
100		135	1			14.12			
100		135	67			14.01			
100		135	136			13.10			15.3
100		270	0			14.10			
100	DFT-s-OFDM 16QAM	1	1			13.94			15.3
100	DFT-s-OFDM 64QAM	1	1			13.25			14.3
100	DFT-s-OFDM 256QAM	1	1			11.31			12.3
100	CP-OFDM QPSK	1	1			13.18			15.3
100	CP-OFDM 16QAM	1	1			14.09			14.3
100	CP-OFDM 64QAM	1	1			12.43			14.3
100	CP-OFDM 256QAM	1	1			9.70			11.3
Channel				649668	649834	650000	650166	650332	15.3
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	13.99	14.05	14.13	14.15	14.18	15.3
Channel				649334	649666	650000	650334	650666	15.3
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	14.02	14.21	14.10	14.03	14.11	15.3
Channel				649000	649500	650000	650500	651000	15.3
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	14.02	14.23	14.10	14.12	14.11	15.3
Channel				648668	649334	650000	650666	651332	15.3
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	14.11	13.94	13.97	14.01	14.12	15.3
Channel				648334	649166	650000	650834	651666	15.3
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	14.20	14.16	14.20	14.17	14.20	15.3
Channel				648000	649000	650000	651000	652000	15.3
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	14.20	14.15	14.17	14.15	14.14	15.3
Channel				647668	648834	650000	651166	652332	15.3
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	14.19	14.14	14.18	14.15	14.14	15.3
Channel				647334	648666	650000	651334	652666	15.3
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	14.10	14.22	14.23	14.17	14.23	15.3
Channel				647168	648584	650000	651416	652832	15.3
Frequency (MHz)				3707.52	3728.76	3750	3771.24	3792.48	
15	DFT-s-OFDM QPSK	1	1	14.15	14.23	14.18	14.16	14.17	15.3
Channel				647000	648500	650000	651500	653000	15.3
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	14.09	14.16	14.13	14.18	14.10	15.3