

20	64QAM	50	24	15.58	15.64	15.44		
20	64QAM	50	50	15.49	15.55	15.47		
20	64QAM	100	0	15.63	15.64	15.61		
20	256QAM	1	0	15.55	15.54	15.47	16.9	0
20	256QAM	1	49	15.56	15.57	15.44		
20	256QAM	1	99	15.62	15.67	15.61		
20	256QAM	50	0	15.54	15.57	15.47	16.9	0
20	256QAM	50	24	15.47	15.52	15.41		
20	256QAM	50	50	15.55	15.67	15.64		
20	256QAM	100	0	15.40	15.64	15.50		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	15.62	15.78	15.72	16.9	0
15	QPSK	1	37	15.59	15.83	15.62		
15	QPSK	1	74	15.59	15.69	15.69		
15	QPSK	36	0	15.68	15.74	15.52	16.9	0
15	QPSK	36	20	15.65	15.70	15.59		
15	QPSK	36	39	15.45	15.50	15.28		
15	QPSK	75	0	15.55	15.68	15.52		
15	16QAM	1	0	15.62	15.67	15.45	16.9	0
15	16QAM	1	37	15.53	15.61	15.42		
15	16QAM	1	74	15.66	15.67	15.52		
15	16QAM	36	0	15.50	15.62	15.46	16.9	0
15	16QAM	36	20	15.42	15.63	15.39		
15	16QAM	36	39	15.64	15.70	15.59		
15	16QAM	75	0	15.60	15.60	15.44		
15	64QAM	1	0	15.50	15.56	15.46	16.9	0
15	64QAM	1	37	15.62	15.76	15.71		
15	64QAM	1	74	15.45	15.45	15.54		
15	64QAM	36	0	15.51	15.56	15.45	16.9	0
15	64QAM	36	20	15.46	15.50	15.30		
15	64QAM	36	39	15.44	15.49	15.33		
15	64QAM	75	0	15.50	15.48	15.49		
15	256QAM	1	0	15.50	15.49	15.39	16.9	0
15	256QAM	1	37	15.51	15.50	15.37		
15	256QAM	1	74	15.50	15.63	15.53		
15	256QAM	36	0	15.49	15.44	15.35	16.9	0
15	256QAM	36	20	15.42	15.41	15.30		
15	256QAM	36	39	15.48	15.52	15.50		
15	256QAM	75	0	15.26	15.59	15.34		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	15.61	15.85	15.68	16.9	0
10	QPSK	1	25	15.69	15.82	15.63		
10	QPSK	1	49	15.59	15.73	15.61		
10	QPSK	25	0	15.62	15.69	15.53	16.9	0
10	QPSK	25	12	15.65	15.60	15.65		
10	QPSK	25	25	15.43	15.55	15.35		
10	QPSK	50	0	15.60	15.60	15.61		
10	16QAM	1	0	15.66	15.76	15.51	16.9	0
10	16QAM	1	25	15.51	15.62	15.47		
10	16QAM	1	49	15.72	15.71	15.47		
10	16QAM	25	0	15.43	15.59	15.47	16.9	0
10	16QAM	25	12	15.48	15.59	15.44		
10	16QAM	25	25	15.60	15.68	15.53		
10	16QAM	50	0	15.63	15.58	15.50		

10	64QAM	1	0	15.45	15.49	15.47	16.9	0
10	64QAM	1	25	15.57	15.68	15.77		
10	64QAM	1	49	15.47	15.45	15.54		
10	64QAM	25	0	15.48	15.60	15.52	16.9	0
10	64QAM	25	12	15.46	15.53	15.31		
10	64QAM	25	25	15.38	15.39	15.35		
10	64QAM	50	0	15.57	15.52	15.50	16.9	0
10	256QAM	1	0	15.44	15.43	15.40		
10	256QAM	1	25	15.51	15.51	15.32		
10	256QAM	1	49	15.46	15.59	15.52	16.9	0
10	256QAM	25	0	15.41	15.51	15.40		
10	256QAM	25	12	15.33	15.39	15.27		
10	256QAM	25	25	15.46	15.59	15.58	16.9	0
10	256QAM	50	0	15.32	15.55	15.36		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	15.70	15.85	15.73	16.9	0
5	QPSK	1	12	15.69	15.76	15.65		
5	QPSK	1	24	15.59	15.73	15.62		
5	QPSK	12	0	15.57	15.72	15.51	16.9	0
5	QPSK	12	7	15.66	15.61	15.61		
5	QPSK	12	13	15.42	15.57	15.28		
5	QPSK	25	0	15.63	15.67	15.61	16.9	0
5	16QAM	1	0	15.58	15.73	15.54		
5	16QAM	1	12	15.47	15.61	15.46		
5	16QAM	1	24	15.62	15.69	15.49	16.9	0
5	16QAM	12	0	15.44	15.54	15.46		
5	16QAM	12	7	15.47	15.56	15.48		
5	16QAM	12	13	15.65	15.68	15.54	16.9	0
5	16QAM	25	0	15.53	15.57	15.44		
5	64QAM	1	0	15.52	15.51	15.44		
5	64QAM	1	12	15.58	15.78	15.74	16.9	0
5	64QAM	1	24	15.44	15.48	15.45		
5	64QAM	12	0	15.47	15.60	15.42		
5	64QAM	12	7	15.43	15.52	15.36	16.9	0
5	64QAM	12	13	15.38	15.43	15.38		
5	64QAM	25	0	15.53	15.50	15.52		
5	256QAM	1	0	15.43	15.48	15.41	16.9	0
5	256QAM	1	12	15.49	15.49	15.34		
5	256QAM	1	24	15.52	15.57	15.56		
5	256QAM	12	0	15.47	15.43	15.42	16.9	0
5	256QAM	12	7	15.41	15.48	15.32		
5	256QAM	12	13	15.44	15.57	15.57		
5	256QAM	25	0	15.35	15.59	15.44	16.9	0

Band 30 Ant3 DSI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				27710				
Frequency (MHz)				2310				
10	QPSK	1	0		15.48		16.2	0
10	QPSK	1	25		15.45			
10	QPSK	1	49		15.29			
10	QPSK	25	0		15.35		16.2	0
10	QPSK	25	12		15.32			
10	QPSK	25	25		15.13			
10	QPSK	50	0		15.31		16.2	0
10	16QAM	1	0		15.33			
10	16QAM	1	25		15.24			
10	16QAM	1	49		15.35		16.2	0
10	16QAM	25	0		15.30			
10	16QAM	25	12		15.31			
10	16QAM	25	25		15.38		16.2	0
10	16QAM	50	0		15.28			
10	64QAM	1	0		15.26		16.2	0
10	64QAM	1	25		15.38			
10	64QAM	1	49		15.19			
10	64QAM	25	0		15.31		16.2	0
10	64QAM	25	12		15.17			
10	64QAM	25	25		15.10			
10	64QAM	50	0		15.20		16.2	0
10	256QAM	1	0		15.16			
10	256QAM	1	25		15.13			
10	256QAM	1	49		15.32		16.2	0
10	256QAM	25	0		15.17			
10	256QAM	25	12		15.11			
10	256QAM	25	25		15.27		16.2	0
10	256QAM	50	0		15.13			
Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	0	15.35	15.43	15.35	16.2	0
5	QPSK	1	12	15.36	15.42	15.33		
5	QPSK	1	24	15.25	15.35	15.26		
5	QPSK	12	0	15.38	15.44	15.21	16.2	0
5	QPSK	12	7	15.31	15.37	15.30		
5	QPSK	12	13	15.00	15.21	15.08		
5	QPSK	25	0	15.20	15.33	15.25	16.2	0
5	16QAM	1	0	15.22	15.29	15.26		
5	16QAM	1	12	15.11	15.28	15.11		
5	16QAM	1	24	15.29	15.41	15.18	16.2	0
5	16QAM	12	0	15.19	15.32	15.17		
5	16QAM	12	7	15.13	15.27	15.18		
5	16QAM	12	13	15.28	15.44	15.20	16.2	0
5	16QAM	25	0	15.23	15.33	15.10		
5	64QAM	1	0	15.13	15.19	15.12	16.2	0
5	64QAM	1	12	15.22	15.43	15.37		
5	64QAM	1	24	15.20	15.16	15.20		
5	64QAM	12	0	15.16	15.26	15.15	16.2	0
5	64QAM	12	7	15.14	15.20	15.08		
5	64QAM	12	13	15.01	15.09	15.08		

5	64QAM	25	0	15.15	15.24	15.17	16.2	0
5	256QAM	1	0	15.14	15.17	15.13		
5	256QAM	1	12	15.05	15.22	15.03		
5	256QAM	1	24	15.19	15.26	15.17		
5	256QAM	12	0	15.13	15.12	15.12	16.2	0
5	256QAM	12	7	15.10	15.10	15.03		
5	256QAM	12	13	15.08	15.20	15.24		
5	256QAM	25	0	15.06	15.15	15.08		

Band 2 Ant5 DSI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18900	19100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	23.46	23.62	23.50	24.4	0
20	QPSK	1	49	23.49	23.57	23.43		
20	QPSK	1	99	23.40	23.52	23.46		
20	QPSK	50	0	22.46	22.51	22.46	24	0.4
20	QPSK	50	24	22.31	22.45	22.37		
20	QPSK	50	50	22.36	22.41	22.30		
20	QPSK	100	0	22.46	22.54	22.39		
20	16QAM	1	0	22.28	22.40	22.27	24	0.4
20	16QAM	1	49	22.18	22.33	22.26		
20	16QAM	1	99	22.24	22.31	22.25		
20	16QAM	50	0	21.60	21.65	21.52	23	1.4
20	16QAM	50	24	21.43	21.56	21.44		
20	16QAM	50	50	21.46	21.54	21.44		
20	16QAM	100	0	21.47	21.54	21.43		
20	64QAM	1	0	21.61	21.77	21.68	23	1.4
20	64QAM	1	49	21.66	21.75	21.60		
20	64QAM	1	99	21.61	21.71	21.58		
20	64QAM	50	0	20.40	20.54	20.40	22	2.4
20	64QAM	50	24	20.37	20.51	20.39		
20	64QAM	50	50	20.42	20.52	20.42		
20	64QAM	100	0	20.45	20.55	20.48		
20	256QAM	1	0	18.48	18.64	18.52	20	4.4
20	256QAM	1	49	18.50	18.57	18.51		
20	256QAM	1	99	18.43	18.56	18.44		
20	256QAM	50	0	18.52	18.58	18.53	20	4.4
20	256QAM	50	24	18.42	18.54	18.39		
20	256QAM	50	50	18.42	18.51	18.41		
20	256QAM	100	0	18.46	18.61	18.49		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	23.31	23.53	23.43	24.4	0
15	QPSK	1	37	23.43	23.42	23.33		
15	QPSK	1	74	23.34	23.45	23.36		
15	QPSK	36	0	22.34	22.40	22.31	24	0.4
15	QPSK	36	20	22.18	22.32	22.29		
15	QPSK	36	39	22.22	22.26	22.24		
15	QPSK	75	0	22.38	22.45	22.29		
15	16QAM	1	0	22.20	22.28	22.21	24	0.4
15	16QAM	1	37	22.05	22.25	22.17		
15	16QAM	1	74	22.19	22.18	22.12		
15	16QAM	36	0	21.50	21.53	21.40	23	1.4
15	16QAM	36	20	21.38	21.47	21.31		

15	16QAM	36	39	21.30	21.48	21.36		
15	16QAM	75	0	21.33	21.47	21.33		
15	64QAM	1	0	21.52	21.62	21.54		
15	64QAM	1	37	21.59	21.69	21.55	23	1.4
15	64QAM	1	74	21.54	21.65	21.42		
15	64QAM	36	0	20.25	20.47	20.33		
15	64QAM	36	20	20.33	20.45	20.24	22	2.4
15	64QAM	36	39	20.27	20.48	20.34		
15	64QAM	75	0	20.38	20.46	20.36		
15	256QAM	1	0	18.35	18.56	18.37	20	4.4
15	256QAM	1	37	18.35	18.53	18.36		
15	256QAM	1	74	18.31	18.42	18.31		
15	256QAM	36	0	18.41	18.47	18.41	20	4.4
15	256QAM	36	20	18.37	18.42	18.23		
15	256QAM	36	39	18.30	18.42	18.26		
15	256QAM	75	0	18.39	18.46	18.35		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	23.42	23.49	23.37	24.4	0
10	QPSK	1	25	23.34	23.45	23.36		
10	QPSK	1	49	23.36	23.43	23.40		
10	QPSK	25	0	22.35	22.36	22.40	24	0.4
10	QPSK	25	12	22.25	22.29	22.29		
10	QPSK	25	25	22.26	22.32	22.23		
10	QPSK	50	0	22.32	22.39	22.31	24	0.4
10	16QAM	1	0	22.17	22.25	22.22		
10	16QAM	1	25	22.05	22.28	22.17		
10	16QAM	1	49	22.19	22.25	22.21	23	1.4
10	16QAM	25	0	21.50	21.59	21.37		
10	16QAM	25	12	21.28	21.47	21.31		
10	16QAM	25	25	21.35	21.42	21.32	23	1.4
10	16QAM	50	0	21.36	21.45	21.28		
10	64QAM	1	0	21.53	21.73	21.54		
10	64QAM	1	25	21.62	21.63	21.49	23	1.4
10	64QAM	1	49	21.45	21.59	21.46		
10	64QAM	25	0	20.30	20.39	20.36		
10	64QAM	25	12	20.33	20.46	20.32	22	2.4
10	64QAM	25	25	20.27	20.39	20.34		
10	64QAM	50	0	20.38	20.50	20.40		
10	256QAM	1	0	18.38	18.59	18.41	20	4.4
10	256QAM	1	25	18.45	18.44	18.38		
10	256QAM	1	49	18.36	18.44	18.30		
10	256QAM	25	0	18.46	18.53	18.41	20	4.4
10	256QAM	25	12	18.37	18.45	18.32		
10	256QAM	25	25	18.30	18.40	18.37		
10	256QAM	50	0	18.30	18.48	18.41		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	23.34	23.54	23.35	24.4	0
5	QPSK	1	12	23.44	23.45	23.32		
5	QPSK	1	24	23.33	23.43	23.32		
5	QPSK	12	0	22.32	22.43	22.40	24	0.4
5	QPSK	12	7	22.16	22.40	22.30		
5	QPSK	12	13	22.23	22.37	22.22		
5	QPSK	25	0	22.41	22.42	22.35	24	0.4
5	16QAM	1	0	22.12	22.28	22.15		

5	16QAM	1	12	22.11	22.29	22.19		
5	16QAM	1	24	22.09	22.27	22.12		
5	16QAM	12	0	21.47	21.53	21.47		
5	16QAM	12	7	21.39	21.44	21.34	23	1.4
5	16QAM	12	13	21.37	21.43	21.36		
5	16QAM	25	0	21.36	21.44	21.37		
5	64QAM	1	0	21.49	21.70	21.53	23	1.4
5	64QAM	1	12	21.55	21.60	21.45		
5	64QAM	1	24	21.53	21.58	21.48		
5	64QAM	12	0	20.31	20.39	20.34	22	2.4
5	64QAM	12	7	20.28	20.37	20.27		
5	64QAM	12	13	20.36	20.40	20.29		
5	64QAM	25	0	20.38	20.44	20.41	20	4.4
5	256QAM	1	0	18.44	18.60	18.36		
5	256QAM	1	12	18.42	18.44	18.43		
5	256QAM	1	24	18.28	18.51	18.33	20	4.4
5	256QAM	12	0	18.37	18.47	18.43		
5	256QAM	12	7	18.28	18.43	18.25		
5	256QAM	12	13	18.31	18.41	18.35	20	4.4
5	256QAM	25	0	18.38	18.52	18.33		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	23.36	23.49	23.39	24.4	0
3	QPSK	1	8	23.37	23.49	23.29		
3	QPSK	1	14	23.28	23.38	23.37		
3	QPSK	8	0	22.41	22.45	22.37	24	0.4
3	QPSK	8	4	22.26	22.31	22.31		
3	QPSK	8	7	22.27	22.29	22.25		
3	QPSK	15	0	22.41	22.44	22.28	24	0.4
3	16QAM	1	0	22.15	22.30	22.13		
3	16QAM	1	8	22.08	22.18	22.15		
3	16QAM	1	14	22.09	22.16	22.14	23	1.4
3	16QAM	8	0	21.52	21.59	21.47		
3	16QAM	8	4	21.30	21.40	21.37		
3	16QAM	8	7	21.32	21.46	21.37	23	1.4
3	16QAM	15	0	21.36	21.48	21.37		
3	64QAM	1	0	21.47	21.66	21.63		
3	64QAM	1	8	21.51	21.69	21.54	22	2.4
3	64QAM	1	14	21.54	21.63	21.53		
3	64QAM	8	0	20.28	20.39	20.34		
3	64QAM	8	4	20.31	20.46	20.28	20	4.4
3	64QAM	8	7	20.37	20.46	20.30		
3	64QAM	15	0	20.33	20.47	20.33		
3	256QAM	1	0	18.39	18.50	18.45	20	4.4
3	256QAM	1	8	18.40	18.46	18.43		
3	256QAM	1	14	18.33	18.46	18.36		
3	256QAM	8	0	18.43	18.50	18.45	20	4.4
3	256QAM	8	4	18.32	18.41	18.30		
3	256QAM	8	7	18.30	18.37	18.35		
3	256QAM	15	0	18.36	18.53	18.42	Tune-up limit (dBm)	MPR (dB)
Channel				18607	18900	19193		
Frequency (MHz)				1850.7	1880	1909.3	24.4	0
1.4	QPSK	1	0	23.39	23.58	23.45		
1.4	QPSK	1	3	23.36	23.43	23.29		
1.4	QPSK	1	5	23.27	23.46	23.31		
1.4	QPSK	3	0	23.39	23.58	23.45		

1.4	QPSK	3	1	23.36	23.43	23.29	24	0.4
1.4	QPSK	3	3	23.27	23.46	23.31		
1.4	QPSK	6	0	22.39	22.39	22.37		
1.4	16QAM	1	0	22.39	22.39	22.37	24	0.4
1.4	16QAM	1	3	22.17	22.32	22.23		
1.4	16QAM	1	5	22.31	22.25	22.15		
1.4	16QAM	3	0	22.39	22.39	22.37		
1.4	16QAM	3	1	22.17	22.32	22.23		
1.4	16QAM	3	3	22.31	22.25	22.15		
1.4	16QAM	6	0	21.45	21.55	21.43	23	1.4
1.4	64QAM	1	0	21.34	21.42	21.39	23	1.4
1.4	64QAM	1	3	21.38	21.39	21.29		
1.4	64QAM	1	5	21.33	21.43	21.29		
1.4	64QAM	3	0	21.52	21.63	21.58		
1.4	64QAM	3	1	21.59	21.61	21.46		
1.4	64QAM	3	3	21.49	21.65	21.44		
1.4	64QAM	6	0	20.25	20.50	20.29	22	2.4
1.4	256QAM	1	0	18.32	18.46	18.29	20	4.4
1.4	256QAM	1	3	18.38	18.43	18.37		
1.4	256QAM	1	5	18.40	18.45	18.43		
1.4	256QAM	3	0	18.26	18.44	18.24		
1.4	256QAM	3	1	18.37	18.44	18.37		
1.4	256QAM	3	3	18.41	18.48	18.33		
1.4	256QAM	6	0	18.31	18.51	18.42	20	4.4

Band 4 Ant5 DSI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	23.33	23.51	23.39	25	0
20	QPSK	1	49	23.42	23.49	23.31		
20	QPSK	1	99	23.27	23.38	23.31		
20	QPSK	50	0	22.38	22.47	22.40	24	1
20	QPSK	50	24	22.26	22.40	22.32		
20	QPSK	50	50	22.28	22.37	22.23		
20	QPSK	100	0	22.38	22.41	22.28		
20	16QAM	1	0	22.23	22.30	22.14	24	1
20	16QAM	1	49	22.14	22.22	22.11		
20	16QAM	1	99	22.16	22.17	22.19		
20	16QAM	50	0	21.49	21.53	21.45	23	2
20	16QAM	50	24	21.37	21.43	21.35		
20	16QAM	50	50	21.32	21.43	21.35		
20	16QAM	100	0	21.39	21.45	21.38		
20	64QAM	1	0	21.50	21.69	21.61	23	2
20	64QAM	1	49	21.50	21.60	21.56		
20	64QAM	1	99	21.53	21.65	21.43		
20	64QAM	50	0	20.29	20.46	20.27	22	3
20	64QAM	50	24	20.24	20.42	20.29		
20	64QAM	50	50	20.34	20.41	20.35		
20	64QAM	100	0	20.40	20.47	20.42		
20	256QAM	1	0	18.43	18.58	18.36	20	5
20	256QAM	1	49	18.45	18.49	18.41		
20	256QAM	1	99	18.37	18.44	18.38		
20	256QAM	50	0	18.47	18.47	18.39	20	5
20	256QAM	50	24	18.26	18.40	18.25		

20	256QAM	50	50	18.29	18.39	18.28		
20	256QAM	100	0	18.42	18.50	18.41		
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	23.23	23.39	23.29	25	0
15	QPSK	1	37	23.39	23.34	23.22		
15	QPSK	1	74	23.22	23.32	23.26		
15	QPSK	36	0	22.26	22.27	22.15	24	1
15	QPSK	36	20	22.13	22.27	22.18		
15	QPSK	36	39	22.09	22.10	22.08		
15	QPSK	75	0	22.34	22.34	22.22		
15	16QAM	1	0	22.08	22.13	22.11	24	1
15	16QAM	1	37	22.11	22.15	22.02		
15	16QAM	1	74	22.10	22.10	22.01		
15	16QAM	36	0	21.35	21.39	21.29	23	2
15	16QAM	36	20	21.29	21.37	21.20		
15	16QAM	36	39	21.22	21.34	21.27		
15	16QAM	75	0	21.20	21.41	21.17		
15	64QAM	1	0	21.37	21.49	21.46	23	2
15	64QAM	1	37	21.48	21.62	21.45		
15	64QAM	1	74	21.45	21.58	21.37		
15	64QAM	36	0	20.10	20.38	20.26	22	3
15	64QAM	36	20	20.20	20.31	20.13		
15	64QAM	36	39	20.21	20.33	20.18		
15	64QAM	75	0	20.27	20.34	20.27		
15	256QAM	1	0	18.25	18.41	18.22	20	5
15	256QAM	1	37	18.22	18.45	18.30		
15	256QAM	1	74	18.21	18.38	18.19		
15	256QAM	36	0	18.35	18.41	18.34	20	5
15	256QAM	36	20	18.26	18.36	18.09		
15	256QAM	36	39	18.15	18.30	18.21		
15	256QAM	75	0	18.24	18.37	18.31		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	23.27	23.35	23.28	25	0
10	QPSK	1	25	23.27	23.35	23.32		
10	QPSK	1	49	23.28	23.29	23.31		
10	QPSK	25	0	22.27	22.28	22.28	24	1
10	QPSK	25	12	22.13	22.16	22.21		
10	QPSK	25	25	22.22	22.22	22.16		
10	QPSK	50	0	22.16	22.32	22.23		
10	16QAM	1	0	22.04	22.19	22.16	24	1
10	16QAM	1	25	22.19	22.17	22.03		
10	16QAM	1	49	22.15	22.15	22.08		
10	16QAM	25	0	21.44	21.50	21.22	23	2
10	16QAM	25	12	21.15	21.37	21.26		
10	16QAM	25	25	21.22	21.33	21.26		
10	16QAM	50	0	21.28	21.37	21.19		
10	64QAM	1	0	21.39	21.58	21.46	23	2
10	64QAM	1	25	21.57	21.54	21.34		
10	64QAM	1	49	21.36	21.48	21.40		
10	64QAM	25	0	20.16	20.24	20.22	22	3
10	64QAM	25	12	20.21	20.30	20.22		
10	64QAM	25	25	20.14	20.24	20.25		
10	64QAM	50	0	20.29	20.34	20.29		
10	256QAM	1	0	18.29	18.44	18.26	20	5

10	256QAM	1	25	18.40	18.31	18.23	20	5
10	256QAM	1	49	18.31	18.37	18.19		
10	256QAM	25	0	18.34	18.46	18.32		
10	256QAM	25	12	18.29	18.34	18.19		
10	256QAM	25	25	18.22	18.32	18.22		
10	256QAM	50	0	18.24	18.37	18.34		
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	23.27	23.48	23.25	25	0
5	QPSK	1	12	23.36	23.30	23.21		
5	QPSK	1	24	23.21	23.27	23.28		
5	QPSK	12	0	22.25	22.38	22.25	24	1
5	QPSK	12	7	22.04	22.33	22.20		
5	QPSK	12	13	22.10	22.25	22.10		
5	QPSK	25	0	22.36	22.36	22.21		
5	16QAM	1	0	22.21	22.23	22.02	24	1
5	16QAM	1	12	22.04	22.23	22.09		
5	16QAM	1	24	22.00	22.22	22.01		
5	16QAM	12	0	21.36	21.48	21.35	23	2
5	16QAM	12	7	21.26	21.36	21.28		
5	16QAM	12	13	21.32	21.37	21.25		
5	16QAM	25	0	21.23	21.32	21.24		
5	64QAM	1	0	21.41	21.55	21.40	23	2
5	64QAM	1	12	21.45	21.54	21.40		
5	64QAM	1	24	21.39	21.42	21.34		
5	64QAM	12	0	20.16	20.27	20.25	22	3
5	64QAM	12	7	20.22	20.30	20.21		
5	64QAM	12	13	20.28	20.26	20.13		
5	64QAM	25	0	20.29	20.38	20.35		
5	256QAM	1	0	18.34	18.55	18.25	20	5
5	256QAM	1	12	18.34	18.29	18.29		
5	256QAM	1	24	18.24	18.45	18.21		
5	256QAM	12	0	18.28	18.32	18.32	20	5
5	256QAM	12	7	18.22	18.32	18.12		
5	256QAM	12	13	18.24	18.27	18.20		
5	256QAM	25	0	18.23	18.46	18.17		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	23.25	23.43	23.30	25	0
3	QPSK	1	8	23.22	23.37	23.19		
3	QPSK	1	14	23.13	23.25	23.22		
3	QPSK	8	0	22.28	22.36	22.24	24	1
3	QPSK	8	4	22.18	22.21	22.26		
3	QPSK	8	7	22.14	22.21	22.16		
3	QPSK	15	0	22.29	22.36	22.17		
3	16QAM	1	0	22.05	22.22	22.08	24	1
3	16QAM	1	8	22.25	22.06	22.07		
3	16QAM	1	14	22.16	22.03	22.03		
3	16QAM	8	0	21.46	21.43	21.43	23	2
3	16QAM	8	4	21.19	21.26	21.25		
3	16QAM	8	7	21.23	21.40	21.28		
3	16QAM	15	0	21.21	21.34	21.32		
3	64QAM	1	0	21.40	21.59	21.55	23	2
3	64QAM	1	8	21.39	21.56	21.48		
3	64QAM	1	14	21.43	21.53	21.46		
3	64QAM	8	0	20.15	20.32	20.22	22	3



3	64QAM	8	4	20.22	20.32	20.15		
3	64QAM	8	7	20.27	20.38	20.19		
3	64QAM	15	0	20.23	20.33	20.23		
3	256QAM	1	0	18.33	18.35	18.33	20	5
3	256QAM	1	8	18.27	18.36	18.33		
3	256QAM	1	14	18.25	18.34	18.24		
3	256QAM	8	0	18.38	18.41	18.35	20	5
3	256QAM	8	4	18.25	18.36	18.25		
3	256QAM	8	7	18.23	18.24	18.31		
3	256QAM	15	0	18.23	18.48	18.31		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	23.32	23.47	23.32	25	0
1.4	QPSK	1	3	23.27	23.37	23.17		
1.4	QPSK	1	5	23.16	23.31	23.15		
1.4	QPSK	3	0	23.34	23.44	23.31		
1.4	QPSK	3	1	23.22	23.28	23.14		
1.4	QPSK	3	3	23.13	23.41	23.23		
1.4	QPSK	6	0	22.24	22.28	22.33	24	1
1.4	16QAM	1	0	22.35	22.33	22.33	24	1
1.4	16QAM	1	3	22.09	22.17	22.18		
1.4	16QAM	1	5	22.20	22.09	22.03		
1.4	16QAM	3	0	22.23	22.32	22.31		
1.4	16QAM	3	1	22.01	22.19	22.13		
1.4	16QAM	3	3	22.19	22.12	22.03		
1.4	16QAM	6	0	21.41	21.44	21.39	23	2
1.4	64QAM	1	0	21.23	21.30	21.31	23	2
1.4	64QAM	1	3	21.33	21.24	21.21		
1.4	64QAM	1	5	21.26	21.33	21.16		
1.4	64QAM	3	0	21.45	21.54	21.51		
1.4	64QAM	3	1	21.46	21.47	21.41		
1.4	64QAM	3	3	21.37	21.58	21.32		
1.4	64QAM	6	0	20.18	20.44	20.25	22	3
1.4	256QAM	1	0	18.27	18.35	18.18	20	5
1.4	256QAM	1	3	18.23	18.35	18.26		
1.4	256QAM	1	5	18.32	18.34	18.37		
1.4	256QAM	3	0	18.14	18.32	18.15		
1.4	256QAM	3	1	18.30	18.36	18.26		
1.4	256QAM	3	3	18.32	18.38	18.20		
1.4	256QAM	6	0	18.19	18.40	18.37	20	5

Band 66 Ant5 DSI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	23.19	23.45	23.24	25	0
20	QPSK	1	49	23.34	23.43	23.22		
20	QPSK	1	99	23.22	23.33	23.20		
20	QPSK	50	0	22.24	22.36	22.27	24	1
20	QPSK	50	24	22.10	22.24	22.19		
20	QPSK	50	50	22.18	22.32	22.09		
20	QPSK	100	0	22.22	22.28	22.14		
20	16QAM	1	0	22.14	22.23	22.03	24	1
20	16QAM	1	49	22.06	22.09	22.05		
20	16QAM	1	99	22.08	22.07	22.12		
20	16QAM	50	0	21.38	21.38	21.37	23	2
20	16QAM	50	24	21.28	21.36	21.24		
20	16QAM	50	50	21.18	21.31	21.20		
20	16QAM	100	0	21.29	21.38	21.26		
20	64QAM	1	0	21.43	21.54	21.50	23	2
20	64QAM	1	49	21.46	21.49	21.41		
20	64QAM	1	99	21.43	21.61	21.29		
20	64QAM	50	0	20.19	20.33	20.17	22	3
20	64QAM	50	24	20.10	20.31	20.25		
20	64QAM	50	50	20.29	20.33	20.21		
20	64QAM	100	0	20.32	20.42	20.37		
20	256QAM	1	0	18.38	18.42	18.30	20	5
20	256QAM	1	49	18.39	18.43	18.34		
20	256QAM	1	99	18.30	18.31	18.23		
20	256QAM	50	0	18.34	18.32	18.27	20	5
20	256QAM	50	24	18.14	18.35	18.14		
20	256QAM	50	50	18.19	18.26	18.21		
20	256QAM	100	0	18.37	18.36	18.29		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	23.17	23.34	23.17	25	0
15	QPSK	1	37	23.32	23.21	23.09		
15	QPSK	1	74	23.14	23.19	23.16		
15	QPSK	36	0	22.22	22.11	22.04	24	1
15	QPSK	36	20	22.01	22.13	22.05		
15	QPSK	36	39	22.01	22.11	22.09		
15	QPSK	75	0	22.29	22.21	22.11		
15	16QAM	1	0	22.16	22.04	22.04	24	1
15	16QAM	1	37	22.11	22.06	22.08		
15	16QAM	1	74	22.00	22.00	22.18		
15	16QAM	36	0	21.22	21.33	21.24	23	2
15	16QAM	36	20	21.20	21.33	21.14		
15	16QAM	36	39	21.11	21.21	21.17		
15	16QAM	75	0	21.14	21.28	21.02		
15	64QAM	1	0	21.24	21.34	21.35	23	2
15	64QAM	1	37	21.32	21.51	21.37		
15	64QAM	1	74	21.36	21.51	21.22		
15	64QAM	36	0	20.15	20.22	20.18	22	3
15	64QAM	36	20	20.14	20.21	20.03		
15	64QAM	36	39	20.09	20.28	20.14		

15	64QAM	75	0	20.15	20.20	20.15		
15	256QAM	1	0	18.12	18.35	18.11	20	5
15	256QAM	1	37	18.14	18.33	18.21		
15	256QAM	1	74	18.15	18.30	18.04		
15	256QAM	36	0	18.28	18.28	18.21	20	5
15	256QAM	36	20	18.15	18.29	18.29		
15	256QAM	36	39	18.06	18.25	18.07		
15	256QAM	75	0	18.19	18.32	18.26		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	23.13	23.28	23.19	25	0
10	QPSK	1	25	23.12	23.29	23.18		
10	QPSK	1	49	23.16	23.21	23.20		
10	QPSK	25	0	22.15	22.15	22.15	24	1
10	QPSK	25	12	22.02	22.04	22.12		
10	QPSK	25	25	22.09	22.14	22.07		
10	QPSK	50	0	22.03	22.25	22.08	24	1
10	16QAM	1	0	22.13	22.15	22.08		
10	16QAM	1	25	22.15	22.10	22.14		
10	16QAM	1	49	22.03	22.00	22.02	23	2
10	16QAM	25	0	21.34	21.34	21.08		
10	16QAM	25	12	21.00	21.27	21.20		
10	16QAM	25	25	21.11	21.20	21.17	23	2
10	16QAM	50	0	21.21	21.33	21.05		
10	64QAM	1	0	21.26	21.53	21.38		
10	64QAM	1	25	21.51	21.41	21.21	23	2
10	64QAM	1	49	21.29	21.36	21.26		
10	64QAM	25	0	20.03	20.09	20.07		
10	64QAM	25	12	20.11	20.17	20.14	22	3
10	64QAM	25	25	20.00	20.20	20.17		
10	64QAM	50	0	20.17	20.22	20.18		
10	256QAM	1	0	18.18	18.40	18.13	20	5
10	256QAM	1	25	18.30	18.18	18.10		
10	256QAM	1	49	18.18	18.28	18.07		
10	256QAM	25	0	18.24	18.34	18.22	20	5
10	256QAM	25	12	18.14	18.27	18.04		
10	256QAM	25	25	18.14	18.25	18.11		
10	256QAM	50	0	18.14	18.21	18.26		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	23.20	23.41	23.21	25	0
5	QPSK	1	12	23.22	23.25	23.06		
5	QPSK	1	24	23.16	23.14	23.19		
5	QPSK	12	0	22.30	22.49	22.38	24	1
5	QPSK	12	7	22.14	22.47	22.30		
5	QPSK	12	13	22.22	22.37	22.19		
5	QPSK	25	0	22.41	22.43	22.36	24	1
5	16QAM	1	0	22.05	22.37	22.10		
5	16QAM	1	12	22.10	22.32	22.15		
5	16QAM	1	24	22.15	22.33	22.11	23	2
5	16QAM	12	0	21.26	21.34	21.23		
5	16QAM	12	7	21.14	21.28	21.18		
5	16QAM	12	13	21.18	21.31	21.10	23	2
5	16QAM	25	0	21.17	21.23	21.14		
5	64QAM	1	0	21.37	21.51	21.34		
5	64QAM	1	12	21.35	21.46	21.30		



5	64QAM	1	24	21.30	21.26	21.30		
5	64QAM	12	0	20.07	20.16	20.21	22	3
5	64QAM	12	7	20.12	20.23	20.07		
5	64QAM	12	13	20.17	20.14	20.05		
5	64QAM	25	0	20.17	20.22	20.25		
5	256QAM	1	0	18.22	18.40	18.19	20	5
5	256QAM	1	12	18.26	18.21	18.19		
5	256QAM	1	24	18.17	18.41	18.08		
5	256QAM	12	0	18.18	18.17	18.25	20	5
5	256QAM	12	7	18.14	18.28	18.01		
5	256QAM	12	13	18.14	18.18	18.07		
5	256QAM	25	0	18.11	18.41	18.11		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	23.18	23.28	23.25	25	0
3	QPSK	1	8	23.17	23.27	23.10		
3	QPSK	1	14	23.09	23.13	23.10		
3	QPSK	8	0	22.23	22.23	22.12	24	1
3	QPSK	8	4	22.13	22.09	22.15		
3	QPSK	8	7	22.02	22.08	22.04		
3	QPSK	15	0	22.22	22.29	22.10		
3	16QAM	1	0	22.38	22.48	22.39	24	1
3	16QAM	1	8	22.30	22.40	22.35		
3	16QAM	1	14	22.23	22.36	22.27		
3	16QAM	8	0	21.36	21.30	21.38	23	2
3	16QAM	8	4	21.03	21.21	21.12		
3	16QAM	8	7	21.18	21.29	21.24		
3	16QAM	15	0	21.12	21.28	21.26		
3	64QAM	1	0	21.36	21.45	21.43	23	2
3	64QAM	1	8	21.25	21.45	21.36		
3	64QAM	1	14	21.36	21.43	21.30		
3	64QAM	8	0	20.01	20.23	20.10	22	3
3	64QAM	8	4	20.16	20.24	20.06		
3	64QAM	8	7	20.19	20.25	20.13		
3	64QAM	15	0	20.08	20.19	20.17		
3	256QAM	1	0	18.20	18.28	18.25	20	5
3	256QAM	1	8	18.11	18.22	18.22		
3	256QAM	1	14	18.18	18.24	18.12		
3	256QAM	8	0	18.27	18.29	18.20	20	5
3	256QAM	8	4	18.15	18.22	18.12		
3	256QAM	8	7	18.15	18.09	18.24		
3	256QAM	15	0	18.12	18.36	18.16		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	23.20	23.37	23.20	25	0
1.4	QPSK	1	3	23.14	23.32	23.12		
1.4	QPSK	1	5	23.05	23.21	23.08		
1.4	QPSK	3	0	23.24	23.30	23.18		
1.4	QPSK	3	1	23.13	23.13	23.04		
1.4	QPSK	3	3	23.07	23.26	23.11		
1.4	QPSK	6	0	22.20	22.18	22.19	24	1
1.4	16QAM	1	0	22.48	22.38	22.43	24	1
1.4	16QAM	1	3	22.16	22.29	22.34		
1.4	16QAM	1	5	22.32	22.14	22.10		
1.4	16QAM	3	0	22.37	22.46	22.41		
1.4	16QAM	3	1	22.11	22.35	22.25		



1.4	16QAM	3	3	22.34	22.20	22.11		
1.4	16QAM	6	0	21.55	21.51	21.46	23	2
1.4	64QAM	1	0	21.12	21.15	21.25	23	2
1.4	64QAM	1	3	21.18	21.09	21.10		
1.4	64QAM	1	5	21.14	21.19	21.01		
1.4	64QAM	3	0	21.30	21.40	21.38		
1.4	64QAM	3	1	21.36	21.42	21.35		
1.4	64QAM	3	3	21.33	21.46	21.22		
1.4	64QAM	6	0	20.08	20.39	20.18	22	3
1.4	256QAM	1	0	18.11	18.19	18.08	20	5
1.4	256QAM	1	3	18.11	18.23	18.19		
1.4	256QAM	1	5	18.25	18.19	18.26		
1.4	256QAM	3	0	18.00	18.25	18.01		
1.4	256QAM	3	1	18.21	18.24	18.18		
1.4	256QAM	3	3	18.24	18.29	18.08		
1.4	256QAM	6	0	18.14	18.28	18.22	20	5

Reduced Power Mode for DSI 4

Band 5 Ant0 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	22.59	22.65	22.52	23.6	0
10	QPSK	1	25	22.49	22.54	22.53		
10	QPSK	1	49	22.51	22.55	22.57		
10	QPSK	25	0	22.52	22.53	22.49	23.6	0
10	QPSK	25	12	22.37	22.42	22.48		
10	QPSK	25	25	22.45	22.48	22.45		
10	QPSK	50	0	22.51	22.52	22.38	23.6	0
10	16QAM	1	0	22.54	22.54	22.42		
10	16QAM	1	25	22.46	22.49	22.44		
10	16QAM	1	49	22.40	22.41	22.47	23	0.6
10	16QAM	25	0	21.81	21.78	21.71		
10	16QAM	25	12	21.58	21.61	21.63		
10	16QAM	25	25	21.77	21.72	21.65	23	0.6
10	16QAM	50	0	21.65	21.65	21.62		
10	64QAM	1	0	21.84	21.80	21.73		
10	64QAM	1	25	21.90	21.81	21.83	22	1.6
10	64QAM	1	49	21.76	21.76	21.75		
10	64QAM	25	0	21.91	21.82	21.72		
10	64QAM	25	12	21.79	21.76	21.78	20	3.6
10	64QAM	25	25	21.70	21.69	21.70		
10	64QAM	50	0	21.71	21.74	21.76		
10	256QAM	1	0	18.64	18.67	18.64	20	3.6
10	256QAM	1	25	18.51	18.61	18.65		
10	256QAM	1	49	18.52	18.54	18.62		
10	256QAM	25	0	18.74	18.76	18.66	20	3.6
10	256QAM	25	12	18.61	18.69	18.76		
10	256QAM	25	25	18.71	18.71	18.80		
10	256QAM	50	0	18.62	18.65	18.61	23	0.6
Channel				20425	20525	20625		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	22.49	22.60	22.44	23.6	0
5	QPSK	1	12	22.41	22.44	22.45		
5	QPSK	1	24	22.45	22.43	22.43		
5	QPSK	12	0	22.41	22.41	22.44	23.6	0
5	QPSK	12	7	22.25	22.32	22.35		
5	QPSK	12	13	22.32	22.43	22.43		
5	QPSK	25	0	22.47	22.45	22.27	23.6	0
5	16QAM	1	0	22.41	22.42	22.39		
5	16QAM	1	12	22.43	22.45	22.36		
5	16QAM	1	24	22.28	22.39	22.45	23	0.6
5	16QAM	12	0	21.67	21.62	21.69		

5	16QAM	12	7	21.43	21.53	21.45		
5	16QAM	12	13	21.60	21.60	21.61		
5	16QAM	25	0	21.61	21.47	21.56		
5	64QAM	1	0	21.79	21.67	21.63	23	0.6
5	64QAM	1	12	21.80	21.70	21.67		
5	64QAM	1	24	21.66	21.65	21.63		
5	64QAM	12	0	21.81	21.68	21.59	22	1.6
5	64QAM	12	7	21.65	21.63	21.66		
5	64QAM	12	13	21.52	21.65	21.66		
5	64QAM	25	0	21.61	21.61	21.61		
5	256QAM	1	0	18.50	18.65	18.47	20	3.6
5	256QAM	1	12	18.41	18.56	18.56		
5	256QAM	1	24	18.48	18.40	18.56		
5	256QAM	12	0	18.70	18.67	18.53	20	3.6
5	256QAM	12	7	18.56	18.63	18.62		
5	256QAM	12	13	18.69	18.56	18.66		
5	256QAM	25	0	18.53	18.49	18.54		
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	22.47	22.55	22.48	23.6	0
3	QPSK	1	8	22.36	22.40	22.43		
3	QPSK	1	14	22.44	22.52	22.49		
3	QPSK	8	0	22.43	22.43	22.42	23.6	0
3	QPSK	8	4	22.28	22.28	22.34		
3	QPSK	8	7	22.33	22.41	22.42		
3	QPSK	15	0	22.45	22.44	22.36		
3	16QAM	1	0	22.50	22.52	22.37	23.6	0
3	16QAM	1	8	22.37	22.36	22.35		
3	16QAM	1	14	22.29	22.37	22.40		
3	16QAM	8	0	21.63	21.68	21.60	23	0.6
3	16QAM	8	4	21.42	21.55	21.50		
3	16QAM	8	7	21.63	21.66	21.57		
3	16QAM	15	0	21.53	21.49	21.58		
3	64QAM	1	0	21.79	21.71	21.57	23	0.6
3	64QAM	1	8	21.87	21.73	21.69		
3	64QAM	1	14	21.65	21.64	21.68		
3	64QAM	8	0	21.88	21.74	21.57	22	1.6
3	64QAM	8	4	21.61	21.67	21.63		
3	64QAM	8	7	21.55	21.66	21.58		
3	64QAM	15	0	21.62	21.67	21.72		
3	256QAM	1	0	18.58	18.60	18.57	20	3.6
3	256QAM	1	8	18.37	18.57	18.53		
3	256QAM	1	14	18.36	18.37	18.52		
3	256QAM	8	0	18.65	18.66	18.49	20	3.6
3	256QAM	8	4	18.46	18.52	18.62		
3	256QAM	8	7	18.59	18.62	18.71		
3	256QAM	15	0	18.56	18.53	18.49		

Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	22.47	22.62	22.40	23.6	0
1.4	QPSK	1	3	22.46	22.41	22.50		
1.4	QPSK	1	5	22.42	22.50	22.53		
1.4	QPSK	3	0	22.57	22.62	22.39		
1.4	QPSK	3	1	22.39	22.50	22.44		
1.4	QPSK	3	3	22.38	22.49	22.46		
1.4	QPSK	6	0	22.45	22.50	22.47	23.6	0
1.4	16QAM	1	0	22.25	22.30	22.37	23.6	0
1.4	16QAM	1	3	22.41	22.40	22.37		
1.4	16QAM	1	5	22.37	22.39	22.24		
1.4	16QAM	3	0	22.40	22.51	22.33		
1.4	16QAM	3	1	22.41	22.46	22.39		
1.4	16QAM	3	3	22.30	22.38	22.44		
1.4	16QAM	6	0	21.64	21.62	21.66	23	0.6
1.4	64QAM	1	0	21.52	21.53	21.52	23	0.6
1.4	64QAM	1	3	21.62	21.69	21.56		
1.4	64QAM	1	5	21.61	21.62	21.50		
1.4	64QAM	3	0	21.81	21.72	21.56		
1.4	64QAM	3	1	21.87	21.68	21.67		
1.4	64QAM	3	3	21.65	21.69	21.62		
1.4	64QAM	6	0	21.82	21.73	21.66	22	1.6
1.4	256QAM	1	0	18.44	18.59	18.67	20	3.6
1.4	256QAM	1	3	18.55	18.59	18.76		
1.4	256QAM	1	5	18.51	18.59	18.56		
1.4	256QAM	3	0	18.52	18.58	18.51		
1.4	256QAM	3	1	18.45	18.52	18.61		
1.4	256QAM	3	3	18.61	18.58	18.68		
1.4	256QAM	6	0	18.47	18.51	18.54	20	3.6

Band 12 Ant0 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711	25	0
10	QPSK	1	0	23.65	23.89	23.76		
10	QPSK	1	25	23.79	23.84	23.84		
10	QPSK	1	49	23.85	23.79	23.76	24	1
10	QPSK	25	0	22.77	22.85	22.83		
10	QPSK	25	12	22.73	22.80	22.80		
10	QPSK	25	25	22.69	22.73	22.75		
10	QPSK	50	0	22.64	22.81	22.73	24	1
10	16QAM	1	0	23.28	23.22	23.14		
10	16QAM	1	25	23.03	23.04	23.01		
10	16QAM	1	49	23.15	23.13	23.07	23	2
10	16QAM	25	0	21.72	21.70	21.72		

10	16QAM	25	12	21.50	21.56	21.53		
10	16QAM	25	25	21.59	21.69	21.71		
10	16QAM	50	0	21.45	21.53	21.43		
10	64QAM	1	0	22.11	22.16	22.25	23	2
10	64QAM	1	25	22.16	22.12	22.22		
10	64QAM	1	49	22.15	22.09	22.04		
10	64QAM	25	0	20.72	20.74	20.83	22	3
10	64QAM	25	12	20.78	20.73	20.66		
10	64QAM	25	25	20.84	20.85	20.91		
10	64QAM	50	0	20.80	20.79	20.79		
10	256QAM	1	0	19.41	19.34	19.38	20	5
10	256QAM	1	25	19.20	19.29	19.32		
10	256QAM	1	49	19.41	19.40	19.31		
10	256QAM	25	0	18.88	18.94	19.00	20	5
10	256QAM	25	12	18.90	18.85	18.75		
10	256QAM	25	25	18.97	18.87	18.94		
10	256QAM	50	0	18.82	18.87	18.95		
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	23.60	23.76	23.67	25	0
5	QPSK	1	12	23.64	23.75	23.70		
5	QPSK	1	24	23.79	23.71	23.59		
5	QPSK	12	0	22.69	22.63	22.80	24	1
5	QPSK	12	7	22.70	22.70	22.71		
5	QPSK	12	13	22.64	22.60	22.63		
5	QPSK	25	0	22.59	22.60	22.71		
5	16QAM	1	0	23.24	23.08	23.04	24	1
5	16QAM	1	12	22.87	22.86	22.99		
5	16QAM	1	24	23.05	23.07	22.94		
5	16QAM	12	0	21.61	21.61	21.55	23	2
5	16QAM	12	7	21.41	21.54	21.45		
5	16QAM	12	13	21.55	21.58	21.59		
5	16QAM	25	0	21.40	21.49	21.40		
5	64QAM	1	0	22.03	22.01	22.15	23	2
5	64QAM	1	12	22.07	21.98	22.14		
5	64QAM	1	24	22.12	22.05	21.99		
5	64QAM	12	0	20.66	20.58	20.68	22	3
5	64QAM	12	7	20.66	20.57	20.61		
5	64QAM	12	13	20.66	20.82	20.75		
5	64QAM	25	0	20.65	20.76	20.66		
5	256QAM	1	0	19.31	19.19	19.21	20	5
5	256QAM	1	12	19.13	19.15	19.27		
5	256QAM	1	24	19.32	19.24	19.24		
5	256QAM	12	0	18.82	18.84	18.96	20	5
5	256QAM	12	7	18.77	18.78	18.59		
5	256QAM	12	13	18.92	18.81	18.86		
5	256QAM	25	0	18.66	18.73	18.77		

Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	23.48	23.71	23.70	25	0
3	QPSK	1	8	23.74	23.68	23.66		
3	QPSK	1	14	23.73	23.63	23.61		
3	QPSK	8	0	22.71	22.65	22.72	24	1
3	QPSK	8	4	22.62	22.74	22.76		
3	QPSK	8	7	22.52	22.70	22.58		
3	QPSK	15	0	22.56	22.55	22.61	24	1
3	16QAM	1	0	23.16	23.04	23.09		
3	16QAM	1	8	22.86	22.96	22.99		
3	16QAM	1	14	23.13	22.95	22.96	23	2
3	16QAM	8	0	21.66	21.55	21.56		
3	16QAM	8	4	21.36	21.45	21.46		
3	16QAM	8	7	21.46	21.56	21.57	22	3
3	16QAM	15	0	21.37	21.48	21.36		
3	64QAM	1	0	21.98	22.10	22.18		
3	64QAM	1	8	22.08	22.10	22.19	23	2
3	64QAM	1	14	21.97	22.01	21.99		
3	64QAM	8	0	20.67	20.61	20.66		
3	64QAM	8	4	20.62	20.58	20.55	22	3
3	64QAM	8	7	20.75	20.79	20.76		
3	64QAM	15	0	20.76	20.68	20.63		
3	256QAM	1	0	19.31	19.29	19.34	20	5
3	256QAM	1	8	19.10	19.17	19.16		
3	256QAM	1	14	19.38	19.23	19.13		
3	256QAM	8	0	18.80	18.90	18.95	20	5
3	256QAM	8	4	18.88	18.69	18.71		
3	256QAM	8	7	18.82	18.84	18.87		
3	256QAM	15	0	18.77	18.76	18.85	20	5
3	256QAM	15	0	18.77	18.76	18.85		
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	23.60	23.73	23.63	25	0
1.4	QPSK	1	3	23.72	23.74	23.73		
1.4	QPSK	1	5	23.76	23.71	23.69		
1.4	QPSK	3	0	23.49	23.79	23.58		
1.4	QPSK	3	1	23.71	23.81	23.75		
1.4	QPSK	3	3	23.76	23.69	23.69	24	1
1.4	QPSK	6	0	22.62	22.59	22.72		
1.4	16QAM	1	0	22.60	22.68	22.65	24	1
1.4	16QAM	1	3	22.52	22.65	22.61		
1.4	16QAM	1	5	22.51	22.58	22.55		
1.4	16QAM	3	0	23.25	23.10	22.99		
1.4	16QAM	3	1	22.99	22.94	22.99		
1.4	16QAM	3	3	23.03	22.98	23.01	23	2
1.4	16QAM	6	0	21.68	21.66	21.55		
1.4	64QAM	1	0	21.46	21.40	21.42	23	2

1.4	64QAM	1	3	21.48	21.52	21.63		
1.4	64QAM	1	5	21.42	21.45	21.36		
1.4	64QAM	3	0	22.03	22.06	22.08		
1.4	64QAM	3	1	22.02	21.99	22.06		
1.4	64QAM	3	3	22.06	21.92	21.96		
1.4	64QAM	6	0	20.57	20.58	20.77	22	3
1.4	256QAM	1	0	19.31	19.21	19.21	20	5
1.4	256QAM	1	3	19.11	19.18	19.27		
1.4	256QAM	1	5	19.23	19.33	19.18		
1.4	256QAM	3	0	18.70	18.85	18.97		
1.4	256QAM	3	1	18.81	18.67	18.73		
1.4	256QAM	3	3	18.82	18.84	18.88	20	5
1.4	256QAM	6	0	18.65	18.73	18.77		

Band 13 Ant0 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23230				
Frequency (MHz)				782				
10	QPSK	1	0		23.71		25	0
10	QPSK	1	25		23.67			
10	QPSK	1	49		23.57			
10	QPSK	25	0		22.71		24	1
10	QPSK	25	12		22.63			
10	QPSK	25	25		22.58			
10	QPSK	50	0		22.59		24	1
10	16QAM	1	0		22.89			
10	16QAM	1	25		23.06			
10	16QAM	1	49		23.07		24	1
10	16QAM	25	0		21.64			
10	16QAM	25	12		21.80			
10	16QAM	25	25		21.82		23	2
10	16QAM	50	0		21.78			
10	64QAM	1	0		22.05			
10	64QAM	1	25		22.12		23	2
10	64QAM	1	49		22.08			
10	64QAM	25	0		20.66			
10	64QAM	25	12		20.89		22	3
10	64QAM	25	25		20.87			
10	64QAM	50	0		20.68			
10	256QAM	1	0		18.75		20	5
10	256QAM	1	25		18.61			
10	256QAM	1	49		18.57			
10	256QAM	25	0		18.75		20	5
10	256QAM	25	12		18.88			
10	256QAM	25	25		18.85			
10	256QAM	50	0		18.87			

Channel				23205	23230	23255	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				779.5	782	784.5		
5	QPSK	1	0	23.52	23.65	23.39	25	0
5	QPSK	1	12	23.35	23.59	23.49		
5	QPSK	1	24	23.25	23.44	23.40		
5	QPSK	12	0	22.52	22.63	22.36	24	1
5	QPSK	12	7	22.52	22.49	22.45		
5	QPSK	12	13	22.38	22.42	22.33		
5	QPSK	25	0	22.47	22.44	22.36	24	1
5	16QAM	1	0	22.66	22.80	22.69		
5	16QAM	1	12	22.93	23.03	22.99		
5	16QAM	1	24	22.96	23.05	22.74	23	2
5	16QAM	12	0	21.31	21.61	21.44		
5	16QAM	12	7	21.61	21.68	21.55		
5	16QAM	12	13	21.71	21.75	21.61	23	2
5	16QAM	25	0	21.56	21.68	21.64		
5	64QAM	1	0	21.74	21.94	21.92		
5	64QAM	1	12	21.88	22.06	21.93	23	2
5	64QAM	1	24	21.79	21.98	21.86		
5	64QAM	12	0	20.41	20.59	20.38		
5	64QAM	12	7	20.60	20.81	20.83	22	3
5	64QAM	12	13	20.55	20.80	20.68		
5	64QAM	25	0	20.45	20.53	20.46		
5	256QAM	1	0	18.49	18.70	18.55	20	5
5	256QAM	1	12	18.39	18.54	18.53		
5	256QAM	1	24	18.38	18.42	18.35		
5	256QAM	12	0	18.44	18.62	18.62	20	5
5	256QAM	12	7	18.67	18.78	18.80		
5	256QAM	12	13	18.60	18.78	18.55		
5	256QAM	25	0	18.52	18.78	18.56		

Band 14 Ant0 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23330				
Frequency (MHz)				793				
10	QPSK	1	0		23.33		24.4	0
10	QPSK	1	25		23.26			
10	QPSK	1	49		23.29			
10	QPSK	25	0		22.82		24	0.4
10	QPSK	25	12		22.67			
10	QPSK	25	25		22.78			
10	QPSK	50	0		22.80		24	0.4
10	16QAM	1	0		23.12			
10	16QAM	1	25		23.24			
10	16QAM	1	49		23.04		23	1.4
10	16QAM	25	0		21.80			

10	16QAM	25	12		21.90			
10	16QAM	25	25		21.82			
10	16QAM	50	0		21.86			
10	64QAM	1	0		21.73		23	1.4
10	64QAM	1	25		21.72			
10	64QAM	1	49		21.69			
10	64QAM	25	0		20.79		22	2.4
10	64QAM	25	12		20.78			
10	64QAM	25	25		20.78			
10	64QAM	50	0		20.79			
10	256QAM	1	0		18.76		20	4.4
10	256QAM	1	25		18.90			
10	256QAM	1	49		18.84			
10	256QAM	25	0		18.71		20	4.4
10	256QAM	25	12		18.83			
10	256QAM	25	25		18.76			
10	256QAM	50	0		18.62			
Channel				23305	23330	23355	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	0	23.25	23.31	23.22	24.4	0
5	QPSK	1	12	23.12	23.14	23.22		
5	QPSK	1	24	23.18	23.20	23.18		
5	QPSK	12	0	22.38	22.52	22.37	24	0.4
5	QPSK	12	7	22.39	22.59	22.48		
5	QPSK	12	13	22.73	22.74	22.48		
5	QPSK	25	0	22.57	22.68	22.70		
5	16QAM	1	0	22.85	22.97	23.03	24	0.4
5	16QAM	1	12	22.97	23.20	23.07		
5	16QAM	1	24	22.77	22.92	22.79		
5	16QAM	12	0	21.56	21.64	21.66	23	1.4
5	16QAM	12	7	21.85	21.78	21.68		
5	16QAM	12	13	21.68	21.74	21.68		
5	16QAM	25	0	21.75	21.73	21.81		
5	64QAM	1	0	21.59	21.57	21.42	23	1.4
5	64QAM	1	12	21.54	21.65	21.50		
5	64QAM	1	24	21.49	21.67	21.47		
5	64QAM	12	0	20.63	20.64	20.62	22	2.4
5	64QAM	12	7	20.59	20.71	20.43		
5	64QAM	12	13	20.45	20.65	20.67		
5	64QAM	25	0	20.58	20.62	20.63		
5	256QAM	1	0	18.52	18.62	18.59	20	4.4
5	256QAM	1	12	18.66	18.76	18.67		
5	256QAM	1	24	18.60	18.82	18.70		
5	256QAM	12	0	18.46	18.61	18.51	20	4.4
5	256QAM	12	7	18.63	18.67	18.60		
5	256QAM	12	13	18.61	18.70	18.56		
5	256QAM	25	0	18.46	18.49	18.42		

Band 17 Ant0 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23780	23790	23800		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	23.77	23.82	23.74	25	0
10	QPSK	1	25	23.77	23.81	23.73		
10	QPSK	1	49	23.71	23.79	23.58		
10	QPSK	25	0	22.71	22.78	22.72	24	1
10	QPSK	25	12	22.76	22.72	22.70		
10	QPSK	25	25	22.70	22.72	22.66		
10	QPSK	50	0	22.65	22.69	22.58	24	1
10	16QAM	1	0	22.86	22.91	22.98		
10	16QAM	1	25	23.05	23.04	23.13		
10	16QAM	1	49	22.83	22.92	22.90	23	2
10	16QAM	25	0	21.63	21.71	21.76		
10	16QAM	25	12	21.67	21.76	21.72		
10	16QAM	25	25	21.70	21.69	21.75	23	2
10	16QAM	50	0	21.94	21.90	21.85		
10	64QAM	1	0	21.95	21.89	21.84		
10	64QAM	1	25	21.74	21.73	21.68	22	3
10	64QAM	1	49	21.88	21.79	21.70		
10	64QAM	25	0	20.72	20.72	20.76		
10	64QAM	25	12	20.79	20.75	20.77	20	5
10	64QAM	25	25	20.93	20.85	20.90		
10	64QAM	50	0	20.65	20.73	20.67		
10	256QAM	1	0	19.21	19.22	19.29	20	5
10	256QAM	1	25	19.21	19.24	19.32		
10	256QAM	1	49	19.31	19.33	19.39		
10	256QAM	25	0	19.25	19.19	19.17	20	5
10	256QAM	25	12	19.33	19.25	19.18		
10	256QAM	25	25	19.31	19.21	19.29		
10	256QAM	50	0	19.10	19.14	19.12	23	2
Channel				23755	23790	23825		
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	23.69	23.76	23.72	25	0
5	QPSK	1	12	23.70	23.66	23.68		
5	QPSK	1	24	23.58	23.62	23.53		
5	QPSK	12	0	22.53	22.52	22.57	24	1
5	QPSK	12	7	22.63	22.60	22.60		
5	QPSK	12	13	22.56	22.57	22.50		
5	QPSK	25	0	22.55	22.44	22.43	24	1
5	16QAM	1	0	22.72	22.84	22.88		
5	16QAM	1	12	23.02	22.99	23.10		
5	16QAM	1	24	22.77	22.83	22.84	23	2
5	16QAM	12	0	21.51	21.56	21.59		

5	16QAM	12	7	21.59	21.72	21.61		
5	16QAM	12	13	21.56	21.61	21.59		
5	16QAM	25	0	21.81	21.84	21.72		
5	64QAM	1	0	21.86	21.80	21.73	23	2
5	64QAM	1	12	21.64	21.62	21.64		
5	64QAM	1	24	21.83	21.68	21.61		
5	64QAM	12	0	20.64	20.55	20.60	22	3
5	64QAM	12	7	20.64	20.62	20.68		
5	64QAM	12	13	20.84	20.71	20.75		
5	64QAM	25	0	20.59	20.62	20.51		
5	256QAM	1	0	19.11	19.16	19.26	20	5
5	256QAM	1	12	19.05	19.14	19.18		
5	256QAM	1	24	19.25	19.24	19.23		
5	256QAM	12	0	19.22	19.10	19.00	20	5
5	256QAM	12	7	19.22	19.14	19.05		
5	256QAM	12	13	19.16	19.06	19.12		
5	256QAM	25	0	19.07	19.09	19.04		

Band 26 Ant0 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26765	26865	26965		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	22.53	22.65	22.50	23.6	0
15	QPSK	1	37	22.54	22.63	22.57		
15	QPSK	1	74	22.51	22.51	22.56		
15	QPSK	36	0	22.44	22.58	22.43	23.6	0
15	QPSK	36	20	22.49	22.52	22.51		
15	QPSK	36	39	22.42	22.45	22.50		
15	QPSK	75	0	22.49	22.53	22.40		
15	16QAM	1	0	22.49	22.62	22.40	23.6	0
15	16QAM	1	37	22.48	22.60	22.47		
15	16QAM	1	74	22.37	22.42	22.45		
15	16QAM	36	0	21.75	21.70	21.62	23	0.6
15	16QAM	36	20	21.53	21.49	21.51		
15	16QAM	36	39	21.69	21.61	21.60		
15	16QAM	75	0	21.61	21.56	21.46		
15	64QAM	1	0	21.59	21.59	21.56	23	0.6
15	64QAM	1	37	21.72	21.72	21.80		
15	64QAM	1	74	21.59	21.64	21.56		
15	64QAM	36	0	20.57	20.61	20.62	22	1.6
15	64QAM	36	20	20.60	20.51	20.42		
15	64QAM	36	39	20.59	20.61	20.54		
15	64QAM	75	0	20.58	20.58	20.65		
15	256QAM	1	0	18.82	18.74	18.80	20	3.6
15	256QAM	1	37	18.92	18.83	18.86		
15	256QAM	1	74	18.82	18.83	18.84		

15	256QAM	36	0	18.60	18.65	18.67	20	3.6
15	256QAM	36	20	18.70	18.70	18.73		
15	256QAM	36	39	18.70	18.70	18.75		
15	256QAM	75	0	18.86	18.79	18.73		
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	22.47	22.56	22.36	23.6	0
10	QPSK	1	25	22.46	22.60	22.52		
10	QPSK	1	49	22.47	22.40	22.49		
10	QPSK	25	0	22.31	22.51	22.38	23.6	0
10	QPSK	25	12	22.38	22.49	22.44		
10	QPSK	25	25	22.32	22.38	22.43		
10	QPSK	50	0	22.47	22.46	22.36		
10	16QAM	1	0	22.44	22.51	22.29	23.6	0
10	16QAM	1	25	22.45	22.48	22.39		
10	16QAM	1	49	22.29	22.32	22.36		
10	16QAM	25	0	21.64	21.66	21.54	23	0.6
10	16QAM	25	12	21.50	21.34	21.37		
10	16QAM	25	25	21.56	21.47	21.49		
10	16QAM	50	0	21.52	21.45	21.30		
10	64QAM	1	0	21.55	21.56	21.49	23	0.6
10	64QAM	1	25	21.64	21.66	21.73		
10	64QAM	1	49	21.49	21.47	21.43		
10	64QAM	25	0	20.41	20.51	20.45	22	1.6
10	64QAM	25	12	20.50	20.45	20.32		
10	64QAM	25	25	20.50	20.47	20.39		
10	64QAM	50	0	20.55	20.42	20.52		
10	256QAM	1	0	18.66	18.58	18.70	20	3.6
10	256QAM	1	25	18.89	18.80	18.82		
10	256QAM	1	49	18.64	18.72	18.74		
10	256QAM	25	0	18.54	18.58	18.63	20	3.6
10	256QAM	25	12	18.65	18.60	18.59		
10	256QAM	25	25	18.57	18.62	18.70		
10	256QAM	50	0	18.81	18.65	18.70		
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	22.43	22.61	22.44	23.6	0
5	QPSK	1	12	22.52	22.49	22.50		
5	QPSK	1	24	22.48	22.49	22.50		
5	QPSK	12	0	22.39	22.52	22.34	23.6	0
5	QPSK	12	7	22.38	22.46	22.40		
5	QPSK	12	13	22.34	22.38	22.37		
5	QPSK	25	0	22.46	22.44	22.35		
5	16QAM	1	0	22.46	22.52	22.28	23.6	0
5	16QAM	1	12	22.35	22.56	22.35		
5	16QAM	1	24	22.25	22.32	22.37		
5	16QAM	12	0	21.57	21.60	21.58	23	0.6

5	16QAM	12	7	21.44	21.38	21.42		
5	16QAM	12	13	21.54	21.51	21.51		
5	16QAM	25	0	21.44	21.39	21.28		
5	64QAM	1	0	21.45	21.53	21.40	23	0.6
5	64QAM	1	12	21.57	21.58	21.63		
5	64QAM	1	24	21.56	21.49	21.45		
5	64QAM	12	0	20.47	20.58	20.55	22	1.6
5	64QAM	12	7	20.46	20.48	20.40		
5	64QAM	12	13	20.41	20.54	20.48		
5	64QAM	25	0	20.44	20.51	20.54		
5	256QAM	1	0	18.70	18.66	18.76	20	3.6
5	256QAM	1	12	18.76	18.65	18.75		
5	256QAM	1	24	18.71	18.71	18.78		
5	256QAM	12	0	18.48	18.49	18.56	20	3.6
5	256QAM	12	7	18.59	18.66	18.56		
5	256QAM	12	13	18.58	18.67	18.65		
5	256QAM	25	0	18.76	18.67	18.69		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	22.46	22.63	22.42	23.6	0
3	QPSK	1	8	22.44	22.56	22.43		
3	QPSK	1	14	22.38	22.43	22.53		
3	QPSK	8	0	22.40	22.49	22.40	23.6	0
3	QPSK	8	4	22.37	22.40	22.44		
3	QPSK	8	7	22.39	22.32	22.43		
3	QPSK	15	0	22.43	22.39	22.34		
3	16QAM	1	0	22.44	22.55	22.35	23.6	0
3	16QAM	1	8	22.45	22.58	22.39		
3	16QAM	1	14	22.33	22.39	22.32		
3	16QAM	8	0	21.70	21.64	21.56	23	0.6
3	16QAM	8	4	21.47	21.39	21.39		
3	16QAM	8	7	21.54	21.54	21.45		
3	16QAM	15	0	21.47	21.53	21.36		
3	64QAM	1	0	21.51	21.48	21.53	23	0.6
3	64QAM	1	8	21.64	21.62	21.69		
3	64QAM	1	14	21.49	21.59	21.40		
3	64QAM	8	0	20.49	20.45	20.48	22	1.6
3	64QAM	8	4	20.53	20.46	20.25		
3	64QAM	8	7	20.50	20.57	20.39		
3	64QAM	15	0	20.48	20.46	20.55		
3	256QAM	1	0	18.65	18.66	18.66	20	3.6
3	256QAM	1	8	18.79	18.72	18.78		
3	256QAM	1	14	18.66	18.75	18.76		
3	256QAM	8	0	18.43	18.52	18.52	20	3.6
3	256QAM	8	4	18.54	18.57	18.60		
3	256QAM	8	7	18.63	18.65	18.59		
3	256QAM	15	0	18.81	18.72	18.65		

Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	22.44	22.56	22.47	23.6	0
1.4	QPSK	1	3	22.47	22.52	22.46		
1.4	QPSK	1	5	22.41	22.43	22.45		
1.4	QPSK	3	0	22.39	22.53	22.42		
1.4	QPSK	3	1	22.41	22.52	22.46		
1.4	QPSK	3	3	22.47	22.47	22.51		
1.4	QPSK	6	0	22.33	22.54	22.39	23.6	0
1.4	16QAM	1	0	22.46	22.43	22.42	23.6	0
1.4	16QAM	1	3	22.39	22.32	22.48		
1.4	16QAM	1	5	22.38	22.46	22.30		
1.4	16QAM	3	0	22.39	22.55	22.37		
1.4	16QAM	3	1	22.34	22.48	22.41		
1.4	16QAM	3	3	22.32	22.34	22.37		
1.4	16QAM	6	0	21.58	21.62	21.55	23	0.6
1.4	64QAM	1	0	21.48	21.41	21.36	23	0.6
1.4	64QAM	1	3	21.63	21.46	21.47		
1.4	64QAM	1	5	21.51	21.45	21.30		
1.4	64QAM	3	0	21.57	21.43	21.53		
1.4	64QAM	3	1	21.55	21.70	21.66		
1.4	64QAM	3	3	21.55	21.58	21.45		
1.4	64QAM	6	0	20.46	20.48	20.52	22	1.6
1.4	256QAM	1	0	18.78	18.64	18.74	20	3.6
1.4	256QAM	1	3	18.88	18.77	18.75		
1.4	256QAM	1	5	18.69	18.74	18.82		
1.4	256QAM	3	0	18.43	18.62	18.56		
1.4	256QAM	3	1	18.57	18.53	18.60		
1.4	256QAM	3	3	18.65	18.61	18.60		
1.4	256QAM	6	0	18.81	18.75	18.60	20	3.6

Band 71 Ant0 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				133222	133297	133372		
Frequency (MHz)				673	680.5	688		
20	QPSK	1	0	22.67	22.76	22.63	24	0
20	QPSK	1	49	22.66	22.73	22.69		
20	QPSK	1	99	22.66	22.65	22.62		
20	QPSK	50	0	21.65	21.68	21.63	23	1
20	QPSK	50	24	21.64	21.60	21.64		
20	QPSK	50	50	21.55	21.52	21.62		
20	QPSK	100	0	21.59	21.62	21.60	23	1
20	16QAM	1	0	21.82	21.87	21.93		
20	16QAM	1	49	21.82	21.83	21.82		
20	16QAM	1	99	21.98	21.91	21.88	22	2
20	16QAM	50	0	20.67	20.65	20.64		
20	16QAM	50	24	20.58	20.58	20.53		
20	16QAM	50	50	20.79	20.78	20.70	22	2
20	16QAM	100	0	20.67	20.66	20.70		
20	64QAM	1	0	20.91	20.95	21.04		
20	64QAM	1	49	21.06	21.01	21.07	22	2
20	64QAM	1	99	20.96	20.97	20.94		
20	64QAM	50	0	19.72	19.67	19.66		
20	64QAM	50	24	19.47	19.55	19.54	21	3
20	64QAM	50	50	19.66	19.64	19.57		
20	64QAM	100	0	19.60	19.62	19.55		
20	256QAM	1	0	17.68	17.60	17.65	19	5
20	256QAM	1	49	17.62	17.61	17.71		
20	256QAM	1	99	17.71	17.70	17.71		
20	256QAM	50	0	17.63	17.55	17.58	19	5
20	256QAM	50	24	17.56	17.59	17.57		
20	256QAM	50	50	17.52	17.61	17.71		
20	256QAM	100	0	17.64	17.70	17.79	19	5
20	256QAM	100	0	17.64	17.70	17.79		
20	256QAM	100	0	17.64	17.70	17.79		
Channel				133197	133297	133397	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	0	22.65	22.70	22.52	24	0
15	QPSK	1	37	22.63	22.60	22.53		
15	QPSK	1	74	22.51	22.61	22.51		
15	QPSK	36	0	21.44	21.49	21.57	23	1
15	QPSK	36	20	21.50	21.48	21.57		
15	QPSK	36	39	21.52	21.37	21.56		
15	QPSK	75	0	21.40	21.40	21.47	23	1
15	16QAM	1	0	21.64	21.80	21.89		
15	16QAM	1	37	21.79	21.77	21.77		
15	16QAM	1	74	21.92	21.88	21.71	22	2
15	16QAM	36	0	20.50	20.61	20.61		

15	16QAM	36	20	20.47	20.47	20.43		
15	16QAM	36	39	20.73	20.69	20.61		
15	16QAM	75	0	20.57	20.57	20.58		
15	64QAM	1	0	20.81	20.90	21.00	22	2
15	64QAM	1	37	20.91	20.96	20.99		
15	64QAM	1	74	20.86	20.84	20.77		
15	64QAM	36	0	19.63	19.59	19.48	21	3
15	64QAM	36	20	19.30	19.50	19.52		
15	64QAM	36	39	19.56	19.47	19.53		
15	64QAM	75	0	19.49	19.52	19.51		
15	256QAM	1	0	17.53	17.52	17.55	19	5
15	256QAM	1	37	17.45	17.53	17.55		
15	256QAM	1	74	17.67	17.62	17.57		
15	256QAM	36	0	17.59	17.38	17.40	19	5
15	256QAM	36	20	17.53	17.57	17.40		
15	256QAM	36	39	17.35	17.58	17.67		
15	256QAM	75	0	17.57	17.65	17.70		
Channel				133172	133297	133422	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	680.5	693		
10	QPSK	1	0	22.64	22.70	22.52	24	0
10	QPSK	1	25	22.62	22.63	22.55		
10	QPSK	1	49	22.56	22.49	22.50		
10	QPSK	25	0	21.38	21.59	21.55	23	1
10	QPSK	25	12	21.61	21.46	21.59		
10	QPSK	25	25	21.46	21.39	21.47		
10	QPSK	50	0	21.35	21.47	21.44		
10	16QAM	1	0	21.75	21.70	21.88	23	1
10	16QAM	1	25	21.64	21.75	21.68		
10	16QAM	1	49	21.81	21.87	21.86		
10	16QAM	25	0	20.53	20.56	20.55	22	2
10	16QAM	25	12	20.43	20.45	20.44		
10	16QAM	25	25	20.63	20.73	20.53		
10	16QAM	50	0	20.52	20.51	20.59		
10	64QAM	1	0	20.74	20.86	20.93	22	2
10	64QAM	1	25	20.99	20.88	20.95		
10	64QAM	1	49	20.80	20.86	20.86		
10	64QAM	25	0	19.69	19.64	19.56	21	3
10	64QAM	25	12	19.37	19.40	19.44		
10	64QAM	25	25	19.55	19.53	19.48		
10	64QAM	50	0	19.46	19.45	19.46		
10	256QAM	1	0	17.62	17.51	17.48	19	5
10	256QAM	1	25	17.54	17.55	17.59		
10	256QAM	1	49	17.54	17.67	17.54		
10	256QAM	25	0	17.56	17.41	17.52	19	5
10	256QAM	25	12	17.46	17.55	17.48		
10	256QAM	25	25	17.35	17.54	17.65		
10	256QAM	50	0	17.47	17.66	17.72		

Channel				133147	133297	133447	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	0	22.61	22.68	22.52	24	0
5	QPSK	1	12	22.63	22.62	22.60		
5	QPSK	1	24	22.60	22.59	22.49		
5	QPSK	12	0	21.51	21.61	21.53	23	1
5	QPSK	12	7	21.58	21.49	21.49		
5	QPSK	12	13	21.52	21.41	21.52		
5	QPSK	25	0	21.40	21.46	21.58	23	1
5	16QAM	1	0	21.77	21.72	21.81		
5	16QAM	1	12	21.78	21.79	21.71		
5	16QAM	1	24	21.90	21.78	21.76	22	2
5	16QAM	12	0	20.62	20.54	20.54		
5	16QAM	12	7	20.41	20.43	20.40		
5	16QAM	12	13	20.68	20.63	20.58	22	2
5	16QAM	25	0	20.63	20.61	20.56		
5	64QAM	1	0	20.74	20.90	21.00		
5	64QAM	1	12	21.02	20.93	20.98	22	2
5	64QAM	1	24	20.81	20.85	20.85		
5	64QAM	12	0	19.57	19.58	19.58		
5	64QAM	12	7	19.41	19.45	19.47	21	3
5	64QAM	12	13	19.52	19.47	19.50		
5	64QAM	25	0	19.57	19.58	19.39		
5	256QAM	1	0	17.57	17.43	17.55	19	5
5	256QAM	1	12	17.52	17.53	17.59		
5	256QAM	1	24	17.61	17.60	17.66		
5	256QAM	12	0	17.54	17.44	17.45	19	5
5	256QAM	12	7	17.42	17.48	17.43		
5	256QAM	12	13	17.41	17.53	17.66		
5	256QAM	25	0	17.51	17.61	17.76		

Band 5 Ant1 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	22.30	22.36	22.23	23.6	0
10	QPSK	1	25	22.22	22.29	22.31		
10	QPSK	1	49	22.31	22.20	22.28		
10	QPSK	25	0	21.48	21.54	21.53	23	0.6
10	QPSK	25	12	21.24	21.22	21.19		
10	QPSK	25	25	21.37	21.42	21.38		
10	QPSK	50	0	21.45	21.50	21.47	23	0.6
10	16QAM	1	0	21.65	21.72	21.72		
10	16QAM	1	25	21.57	21.57	21.60		
10	16QAM	1	49	21.67	21.52	21.66	22	1.6
10	16QAM	25	0	20.52	20.49	20.35		

10	16QAM	25	12	20.23	20.22	20.33		
10	16QAM	25	25	20.40	20.36	20.33		
10	16QAM	50	0	20.34	20.31	20.25		
10	64QAM	1	0	20.51	20.50	20.38	22	1.6
10	64QAM	1	25	20.55	20.42	20.50		
10	64QAM	1	49	20.42	20.47	20.41		
10	64QAM	25	0	20.62	20.50	20.38	21	2.6
10	64QAM	25	12	20.43	20.44	20.39		
10	64QAM	25	25	20.40	20.30	20.35		
10	64QAM	50	0	20.31	20.34	20.41	19	4.6
10	256QAM	1	0	17.31	17.27	17.35		
10	256QAM	1	25	17.14	17.30	17.36		
10	256QAM	1	49	17.19	17.23	17.34	19	4.6
10	256QAM	25	0	17.37	17.44	17.26		
10	256QAM	25	12	17.23	17.31	17.37		
10	256QAM	25	25	17.37	17.37	17.41	19	4.6
10	256QAM	50	0	17.27	17.34	17.26		
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	22.26	22.28	22.14	23.6	0
5	QPSK	1	12	22.17	22.18	22.22		
5	QPSK	1	24	22.23	22.08	22.12		
5	QPSK	12	0	21.33	21.41	21.38	23	0.6
5	QPSK	12	7	21.12	21.12	21.15		
5	QPSK	12	13	21.27	21.36	21.26		
5	QPSK	25	0	21.32	21.44	21.40	23	0.6
5	16QAM	1	0	21.50	21.68	21.59		
5	16QAM	1	12	21.48	21.44	21.52		
5	16QAM	1	24	21.53	21.43	21.52	22	1.6
5	16QAM	12	0	20.39	20.35	20.19		
5	16QAM	12	7	20.16	20.07	20.19		
5	16QAM	12	13	20.33	20.24	20.20	22	1.6
5	16QAM	25	0	20.19	20.26	20.10		
5	64QAM	1	0	20.46	20.40	20.32		
5	64QAM	1	12	20.40	20.29	20.40	21	2.6
5	64QAM	1	24	20.31	20.38	20.35		
5	64QAM	12	0	20.50	20.45	20.22		
5	64QAM	12	7	20.33	20.33	20.27	19	4.6
5	64QAM	12	13	20.28	20.25	20.31		
5	64QAM	25	0	20.15	20.18	20.31		
5	256QAM	1	0	17.22	17.15	17.28	19	4.6
5	256QAM	1	12	17.04	17.16	17.29		
5	256QAM	1	24	17.06	17.11	17.28		
5	256QAM	12	0	17.27	17.31	17.14	19	4.6
5	256QAM	12	7	17.17	17.21	17.27		
5	256QAM	12	13	17.24	17.26	17.25		
5	256QAM	25	0	17.18	17.28	17.12		

Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	22.16	22.24	22.10	23.6	0
3	QPSK	1	8	22.11	22.18	22.16		
3	QPSK	1	14	22.21	22.14	22.19		
3	QPSK	8	0	21.43	21.45	21.47	23	0.6
3	QPSK	8	4	21.11	21.12	21.06		
3	QPSK	8	7	21.32	21.37	21.22		
3	QPSK	15	0	21.39	21.44	21.42	23	0.6
3	16QAM	1	0	21.61	21.59	21.62		
3	16QAM	1	8	21.41	21.41	21.50		
3	16QAM	1	14	21.52	21.38	21.59	22	1.6
3	16QAM	8	0	20.43	20.37	20.22		
3	16QAM	8	4	20.12	20.07	20.19		
3	16QAM	8	7	20.28	20.23	20.18	21	2.6
3	16QAM	15	0	20.22	20.21	20.10		
3	64QAM	1	0	20.41	20.37	20.22		
3	64QAM	1	8	20.48	20.33	20.43	22	1.6
3	64QAM	1	14	20.34	20.33	20.36		
3	64QAM	8	0	20.50	20.45	20.30		
3	64QAM	8	4	20.29	20.29	20.24	19	4.6
3	64QAM	8	7	20.30	20.23	20.24		
3	64QAM	15	0	20.15	20.27	20.25		
3	256QAM	1	0	17.17	17.17	17.25	19	4.6
3	256QAM	1	8	17.06	17.16	17.27		
3	256QAM	1	14	17.09	17.14	17.22		
3	256QAM	8	0	17.32	17.35	17.14	19	4.6
3	256QAM	8	4	17.07	17.18	17.31		
3	256QAM	8	7	17.30	17.31	17.37		
3	256QAM	15	0	17.22	17.22	17.15	23.6	0
1.4	QPSK	1	0	22.18	22.21	22.12		
1.4	QPSK	1	3	22.14	22.22	22.17		
1.4	QPSK	1	5	22.25	22.12	22.16	23	0.6
1.4	QPSK	3	0	22.20	22.21	22.16		
1.4	QPSK	3	1	22.12	22.15	22.18		
1.4	QPSK	3	3	22.26	22.14	22.15	23	0.6
1.4	QPSK	6	0	21.36	21.39	21.39		
1.4	16QAM	1	0	21.57	21.63	21.56		
1.4	16QAM	1	3	21.51	21.45	21.55	22	1.6
1.4	16QAM	1	5	21.60	21.40	21.52		
1.4	16QAM	3	0	21.52	21.62	21.65		
1.4	16QAM	3	1	21.51	21.50	21.46	22	1.6
1.4	16QAM	3	3	21.61	21.44	21.60		
1.4	16QAM	6	0	20.24	20.19	20.15		
1.4	64QAM	1	0	20.44	20.44	20.33	22	1.6

1.4	64QAM	1	3	20.49	20.36	20.36		
1.4	64QAM	1	5	20.35	20.36	20.33		
1.4	64QAM	3	0	20.52	20.42	20.34		
1.4	64QAM	3	1	20.33	20.31	20.24		
1.4	64QAM	3	3	20.25	20.22	20.21		
1.4	64QAM	6	0	20.26	20.21	20.29	21	2.6
1.4	256QAM	1	0	17.22	17.19	17.24	19	4.6
1.4	256QAM	1	3	17.01	17.24	17.31		
1.4	256QAM	1	5	17.09	17.16	17.28		
1.4	256QAM	3	0	17.22	17.36	17.15		
1.4	256QAM	3	1	17.18	17.23	17.32		
1.4	256QAM	3	3	17.32	17.24	17.31	19	4.6
1.4	256QAM	6	0	17.14	17.26	17.12		

Band 12 Ant1 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	22.47	22.52	22.41	24	0
10	QPSK	1	25	22.42	22.48	22.49		
10	QPSK	1	49	22.37	22.37	22.48		
10	QPSK	25	0	21.55	21.68	21.66	23	1
10	QPSK	25	12	21.47	21.38	21.33		
10	QPSK	25	25	21.55	21.55	21.49		
10	QPSK	50	0	21.55	21.66	21.64	23	1
10	16QAM	1	0	21.82	21.87	21.86		
10	16QAM	1	25	21.74	21.79	21.75		
10	16QAM	1	49	21.73	21.70	21.89	22	2
10	16QAM	25	0	20.59	20.62	20.57		
10	16QAM	25	12	20.45	20.44	20.50		
10	16QAM	25	25	20.62	20.51	20.50	22	2
10	16QAM	50	0	20.46	20.43	20.39		
10	64QAM	1	0	20.63	20.60	20.53		
10	64QAM	1	25	20.74	20.66	20.60	22	2
10	64QAM	1	49	20.59	20.64	20.53		
10	64QAM	25	0	20.75	20.67	20.52		
10	64QAM	25	12	20.60	20.63	20.55	21	3
10	64QAM	25	25	20.56	20.56	20.47		
10	64QAM	50	0	20.52	20.52	20.52		
10	256QAM	1	0	17.48	17.54	17.47	19	5
10	256QAM	1	25	17.31	17.45	17.45		
10	256QAM	1	49	17.36	17.36	17.49		
10	256QAM	25	0	17.59	17.53	17.50	19	5
10	256QAM	25	12	17.43	17.54	17.57		
10	256QAM	25	25	17.56	17.50	17.59		
10	256QAM	50	0	17.49	17.52	17.49		

Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	22.36	22.47	22.26	24	0
5	QPSK	1	12	22.32	22.32	22.35		
5	QPSK	1	24	22.30	22.23	22.33		
5	QPSK	12	0	21.50	21.64	21.61	23	1
5	QPSK	12	7	21.40	21.31	21.19		
5	QPSK	12	13	21.45	21.44	21.35		
5	QPSK	25	0	21.41	21.61	21.57	23	1
5	16QAM	1	0	21.75	21.81	21.75		
5	16QAM	1	12	21.65	21.67	21.70		
5	16QAM	1	24	21.64	21.58	21.76	22	2
5	16QAM	12	0	20.45	20.51	20.46		
5	16QAM	12	7	20.38	20.36	20.37		
5	16QAM	12	13	20.47	20.36	20.36	22	2
5	16QAM	25	0	20.40	20.28	20.30		
5	64QAM	1	0	20.50	20.50	20.44		
5	64QAM	1	12	20.61	20.55	20.56	22	2
5	64QAM	1	24	20.49	20.56	20.39		
5	64QAM	12	0	20.67	20.54	20.38		
5	64QAM	12	7	20.53	20.55	20.45	21	3
5	64QAM	12	13	20.41	20.45	20.38		
5	64QAM	25	0	20.44	20.42	20.42		
5	256QAM	1	0	17.36	17.39	17.34	19	5
5	256QAM	1	12	17.26	17.39	17.33		
5	256QAM	1	24	17.30	17.32	17.38		
5	256QAM	12	0	17.54	17.41	17.35	19	5
5	256QAM	12	7	17.37	17.43	17.48		
5	256QAM	12	13	17.50	17.35	17.46		
5	256QAM	25	0	17.36	17.40	17.37	19	5
Channel				23025	23095	23165		
Frequency (MHz)				700.5	707.5	714.5	Tune-up limit (dBm)	MPR (dB)
3	QPSK	1	0	22.33	22.45	22.35		
3	QPSK	1	8	22.34	22.32	22.34	24	0
3	QPSK	1	14	22.25	22.30	22.35		
3	QPSK	8	0	21.48	21.52	21.59		
3	QPSK	8	4	21.41	21.27	21.22	23	1
3	QPSK	8	7	21.47	21.45	21.39		
3	QPSK	15	0	21.44	21.50	21.58		
3	16QAM	1	0	21.67	21.77	21.70	23	1
3	16QAM	1	8	21.68	21.74	21.64		
3	16QAM	1	14	21.66	21.59	21.83		
3	16QAM	8	0	20.54	20.47	20.46	22	2
3	16QAM	8	4	20.40	20.37	20.35		
3	16QAM	8	7	20.56	20.38	20.37		
3	16QAM	15	0	20.37	20.35	20.27	22	2
3	64QAM	1	0	20.50	20.44	20.38		

3	64QAM	1	8	20.68	20.51	20.45		
3	64QAM	1	14	20.45	20.49	20.43		
3	64QAM	8	0	20.66	20.61	20.45		
3	64QAM	8	4	20.54	20.54	20.46	21	3
3	64QAM	8	7	20.51	20.50	20.32		
3	64QAM	15	0	20.37	20.39	20.40		
3	256QAM	1	0	17.44	17.42	17.40	19	5
3	256QAM	1	8	17.16	17.40	17.29		
3	256QAM	1	14	17.31	17.30	17.39		
3	256QAM	8	0	17.46	17.43	17.45	19	5
3	256QAM	8	4	17.36	17.49	17.48		
3	256QAM	8	7	17.51	17.44	17.46		
3	256QAM	15	0	17.37	17.47	17.40		
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	22.36	22.41	22.33	24	0
1.4	QPSK	1	3	22.30	22.39	22.40		
1.4	QPSK	1	5	22.30	22.32	22.43		
1.4	QPSK	3	0	22.34	22.45	22.30		
1.4	QPSK	3	1	22.26	22.39	22.43		
1.4	QPSK	3	3	22.27	22.22	22.38		
1.4	QPSK	6	0	21.41	21.52	21.50	23	1
1.4	16QAM	1	0	21.78	21.76	21.78	23	1
1.4	16QAM	1	3	21.63	21.73	21.71		
1.4	16QAM	1	5	21.69	21.56	21.83		
1.4	16QAM	3	0	21.74	21.82	21.75		
1.4	16QAM	3	1	21.69	21.72	21.63		
1.4	16QAM	3	3	21.59	21.60	21.79		
1.4	16QAM	6	0	20.41	20.28	20.25	22	2
1.4	64QAM	1	0	20.59	20.47	20.40	22	2
1.4	64QAM	1	3	20.63	20.55	20.55		
1.4	64QAM	1	5	20.51	20.55	20.39		
1.4	64QAM	3	0	20.66	20.59	20.47		
1.4	64QAM	3	1	20.52	20.49	20.47		
1.4	64QAM	3	3	20.44	20.48	20.42		
1.4	64QAM	6	0	20.45	20.47	20.47	21	3
1.4	256QAM	1	0	17.43	17.48	17.36	19	5
1.4	256QAM	1	3	17.25	17.31	17.38		
1.4	256QAM	1	5	17.21	17.26	17.34		
1.4	256QAM	3	0	17.47	17.40	17.45		
1.4	256QAM	3	1	17.38	17.40	17.51		
1.4	256QAM	3	3	17.47	17.40	17.48		
1.4	256QAM	6	0	17.34	17.37	17.38	19	5

Band 13 Ant1 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23230				
Frequency (MHz)				782				
10	QPSK	1	0		22.45		24	0
10	QPSK	1	25		22.37			
10	QPSK	1	49		22.39			
10	QPSK	25	0		21.62		23	1
10	QPSK	25	12		21.34			
10	QPSK	25	25		21.45			
10	QPSK	50	0		21.61		23	1
10	16QAM	1	0		21.84			
10	16QAM	1	25		21.70			
10	16QAM	1	49		21.64		22	2
10	16QAM	25	0		20.58			
10	16QAM	25	12		20.39			
10	16QAM	25	25		20.43		22	2
10	16QAM	50	0		20.44			
10	64QAM	1	0		20.59			
10	64QAM	1	25		20.62		21	3
10	64QAM	1	49		20.46			
10	64QAM	25	0		20.56			
10	64QAM	25	12		20.49		19	5
10	64QAM	25	25		20.40			
10	64QAM	50	0		20.44			
10	256QAM	1	0		17.47		19	5
10	256QAM	1	25		17.31			
10	256QAM	1	49		17.28			
10	256QAM	25	0		17.57		19	5
10	256QAM	25	12		17.46			
10	256QAM	25	25		17.43			
10	256QAM	50	0		17.46			
Channel				23205	23230	23255	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				779.5	782	784.5		
5	QPSK	1	0	22.42	22.25	22.26	24	0
5	QPSK	1	12	22.20	22.29	22.31		
5	QPSK	1	24	22.33	22.21	22.30		
5	QPSK	12	0	21.41	21.40	21.51	23	1
5	QPSK	12	7	21.23	21.35	21.15		
5	QPSK	12	13	21.34	21.35	21.28		
5	QPSK	25	0	21.38	21.52	21.42	23	1
5	16QAM	1	0	21.78	21.69	21.67		
5	16QAM	1	12	21.50	21.57	21.56		
5	16QAM	1	24	21.64	21.53	21.70	22	2
5	16QAM	12	0	20.45	20.44	20.38		

5	16QAM	12	7	20.30	20.26	20.25		
5	16QAM	12	13	20.39	20.30	20.33		
5	16QAM	25	0	20.37	20.27	20.29		
5	64QAM	1	0	20.48	20.45	20.36	22	2
5	64QAM	1	12	20.60	20.49	20.54		
5	64QAM	1	24	20.37	20.40	20.33		
5	64QAM	12	0	20.60	20.46	20.38	21	3
5	64QAM	12	7	20.45	20.41	20.46		
5	64QAM	12	13	20.40	20.33	20.29		
5	64QAM	25	0	20.40	20.48	20.44		
5	256QAM	1	0	17.35	17.39	17.37	19	5
5	256QAM	1	12	17.19	17.20	17.33		
5	256QAM	1	24	17.18	17.26	17.29		
5	256QAM	12	0	17.35	17.37	17.33	19	5
5	256QAM	12	7	17.29	17.33	17.44		
5	256QAM	12	13	17.38	17.46	17.44		
5	256QAM	25	0	17.16	17.29	17.31		

Band 14 Ant1 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23330				
Frequency (MHz)				793				
10	QPSK	1	0		22.47		24	0
10	QPSK	1	25		22.36			
10	QPSK	1	49		22.41			
10	QPSK	25	0		21.54		23	1
10	QPSK	25	12		21.36			
10	QPSK	25	25		21.52			
10	QPSK	50	0		21.60		23	1
10	16QAM	1	0		21.86			
10	16QAM	1	25		21.65			
10	16QAM	1	49		21.71		22	2
10	16QAM	25	0		20.57			
10	16QAM	25	12		20.32			
10	16QAM	25	25		20.46		22	2
10	16QAM	50	0		20.43			
10	64QAM	1	0		20.61			
10	64QAM	1	25		20.56		22	2
10	64QAM	1	49		20.59			
10	64QAM	25	0		20.64			
10	64QAM	25	12		20.57		21	3
10	64QAM	25	25		20.51			
10	64QAM	50	0		20.48			
10	256QAM	1	0		17.46		19	5
10	256QAM	1	25		17.34			
10	256QAM	1	49		17.32			

10	256QAM	25	0		17.56		19	5
10	256QAM	25	12		17.40			
10	256QAM	25	25		17.43			
10	256QAM	50	0		17.47			
Channel				23305	23330	23355	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	0	22.41	22.40	22.30	24	0
5	QPSK	1	12	22.29	22.34	22.26		
5	QPSK	1	24	22.25	22.19	22.25		
5	QPSK	12	0	21.47	21.42	21.51	23	1
5	QPSK	12	7	21.20	21.21	21.14		
5	QPSK	12	13	21.38	21.30	21.33		
5	QPSK	25	0	21.40	21.43	21.47		
5	16QAM	1	0	21.72	21.66	21.73	23	1
5	16QAM	1	12	21.54	21.56	21.52		
5	16QAM	1	24	21.69	21.68	21.70		
5	16QAM	12	0	20.49	20.49	20.40	22	2
5	16QAM	12	7	20.35	20.25	20.30		
5	16QAM	12	13	20.45	20.36	20.41		
5	16QAM	25	0	20.37	20.28	20.28		
5	64QAM	1	0	20.46	20.54	20.46	22	2
5	64QAM	1	12	20.63	20.50	20.52		
5	64QAM	1	24	20.52	20.45	20.41		
5	64QAM	12	0	20.56	20.50	20.35	21	3
5	64QAM	12	7	20.44	20.44	20.40		
5	64QAM	12	13	20.35	20.38	20.33		
5	64QAM	25	0	20.43	20.40	20.42		
5	256QAM	1	0	17.39	17.29	17.30	19	5
5	256QAM	1	12	17.16	17.29	17.31		
5	256QAM	1	24	17.26	17.19	17.27		
5	256QAM	12	0	17.33	17.49	17.36	19	5
5	256QAM	12	7	17.31	17.43	17.38		
5	256QAM	12	13	17.39	17.34	17.53		
5	256QAM	25	0	17.32	17.30	17.29		

Band 17 Ant1 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23780	23790	23800		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	22.60	22.66	22.51	24	0
10	QPSK	1	25	22.63	22.64	22.58		
10	QPSK	1	49	22.52	22.57	22.60		
10	QPSK	25	0	21.77	21.83	21.82	23	1
10	QPSK	25	12	21.56	21.62	21.51		
10	QPSK	25	25	21.74	21.71	21.64		
10	QPSK	50	0	21.71	21.79	21.71		

10	16QAM	1	0	22.00	22.02	22.09	23	1
10	16QAM	1	25	21.79	21.88	21.82		
10	16QAM	1	49	21.93	21.93	21.92		
10	16QAM	25	0	20.83	20.71	20.61	22	2
10	16QAM	25	12	20.55	20.54	20.56		
10	16QAM	25	25	20.71	20.68	20.65		
10	16QAM	50	0	20.59	20.64	20.55		
10	64QAM	1	0	20.77	20.72	20.71	22	2
10	64QAM	1	25	20.81	20.82	20.81		
10	64QAM	1	49	20.66	20.76	20.70		
10	64QAM	25	0	20.82	20.78	20.72	21	3
10	64QAM	25	12	20.69	20.77	20.68		
10	64QAM	25	25	20.60	20.62	20.63		
10	64QAM	50	0	20.71	20.74	20.68		
10	256QAM	1	0	17.58	17.58	17.65	19	5
10	256QAM	1	25	17.50	17.61	17.58		
10	256QAM	1	49	17.51	17.48	17.54		
10	256QAM	25	0	17.64	17.74	17.66	19	5
10	256QAM	25	12	17.62	17.63	17.73		
10	256QAM	25	25	17.72	17.61	17.75		
10	256QAM	50	0	17.57	17.60	17.52		
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	22.47	22.56	22.37	24	0
5	QPSK	1	12	22.52	22.54	22.53		
5	QPSK	1	24	22.45	22.49	22.44		
5	QPSK	12	0	21.70	21.73	21.75	23	1
5	QPSK	12	7	21.41	21.48	21.36		
5	QPSK	12	13	21.69	21.61	21.52		
5	QPSK	25	0	21.57	21.67	21.57		
5	16QAM	1	0	21.87	21.93	21.99	23	1
5	16QAM	1	12	21.73	21.77	21.68		
5	16QAM	1	24	21.85	21.85	21.82		
5	16QAM	12	0	20.69	20.62	20.57	22	2
5	16QAM	12	7	20.51	20.49	20.46		
5	16QAM	12	13	20.60	20.62	20.59		
5	16QAM	25	0	20.44	20.53	20.42		
5	64QAM	1	0	20.63	20.63	20.59	22	2
5	64QAM	1	12	20.68	20.76	20.69		
5	64QAM	1	24	20.60	20.63	20.62		
5	64QAM	12	0	20.75	20.70	20.57		
5	64QAM	12	7	20.57	20.71	20.63	21	3
5	64QAM	12	13	20.54	20.56	20.51		
5	64QAM	25	0	20.57	20.69	20.55		
5	256QAM	1	0	17.46	17.49	17.54		
5	256QAM	1	12	17.46	17.57	17.48	19	5
5	256QAM	1	24	17.39	17.43	17.44		

5	256QAM	12	0	17.49	17.61	17.56	19	5
5	256QAM	12	7	17.51	17.54	17.59		
5	256QAM	12	13	17.60	17.57	17.64		
5	256QAM	25	0	17.48	17.55	17.42		

Band 26 Ant1 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26765	26865	26965		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	22.30	22.34	22.22	23.6	0
15	QPSK	1	37	22.23	22.30	22.32		
15	QPSK	1	74	22.19	22.22	22.26		
15	QPSK	36	0	21.47	21.49	21.47	23	0.6
15	QPSK	36	20	21.21	21.26	21.10		
15	QPSK	36	39	21.37	21.32	21.40		
15	QPSK	75	0	21.40	21.47	21.40	23	0.6
15	16QAM	1	0	21.72	21.67	21.74		
15	16QAM	1	37	21.53	21.55	21.53		
15	16QAM	1	74	21.59	21.59	21.65	22	1.6
15	16QAM	36	0	20.50	20.45	20.34		
15	16QAM	36	20	20.22	20.22	20.31		
15	16QAM	36	39	20.37	20.35	20.27	22	1.6
15	16QAM	75	0	20.34	20.25	20.26		
15	64QAM	1	0	20.53	20.50	20.42		
15	64QAM	1	37	20.56	20.45	20.49	22	1.6
15	64QAM	1	74	20.46	20.41	20.39		
15	64QAM	36	0	20.52	20.49	20.40	21	2.6
15	64QAM	36	20	20.49	20.37	20.43		
15	64QAM	36	39	20.34	20.35	20.32		
15	64QAM	75	0	20.36	20.37	20.38	19	4.6
15	256QAM	1	0	17.25	17.25	17.25		
15	256QAM	1	37	17.11	17.27	17.27		
15	256QAM	1	74	17.21	17.19	17.31	19	4.6
15	256QAM	36	0	17.44	17.34	17.36		
15	256QAM	36	20	17.25	17.28	17.44		
15	256QAM	36	39	17.39	17.30	17.41	19	4.6
15	256QAM	75	0	17.30	17.30	17.30		
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	22.20	22.21	22.06		
10	QPSK	1	25	22.12	22.17	22.21	23.6	0
10	QPSK	1	49	22.09	22.18	22.14		
10	QPSK	25	0	21.41	21.35	21.33	23	0.6
10	QPSK	25	12	21.11	21.20	21.03		
10	QPSK	25	25	21.33	21.23	21.32		
10	QPSK	50	0	21.30	21.40	21.26	23	0.6



10	16QAM	1	0	21.61	21.60	21.67	23	0.6
10	16QAM	1	25	21.47	21.45	21.39		
10	16QAM	1	49	21.47	21.50	21.60		
10	16QAM	25	0	20.45	20.35	20.21	22	1.6
10	16QAM	25	12	20.11	20.16	20.16		
10	16QAM	25	25	20.26	20.21	20.18		
10	16QAM	50	0	20.25	20.12	20.12		
10	64QAM	1	0	20.38	20.35	20.36	22	1.6
10	64QAM	1	25	20.42	20.34	20.41		
10	64QAM	1	49	20.38	20.32	20.29		
10	64QAM	25	0	20.47	20.43	20.27	21	2.6
10	64QAM	25	12	20.41	20.24	20.36		
10	64QAM	25	25	20.27	20.20	20.17		
10	64QAM	50	0	20.30	20.32	20.24		
10	256QAM	1	0	17.16	17.20	17.20	19	4.6
10	256QAM	1	25	17.06	17.20	17.13		
10	256QAM	1	49	17.07	17.15	17.17		
10	256QAM	25	0	17.37	17.21	17.32	19	4.6
10	256QAM	25	12	17.10	17.13	17.30		
10	256QAM	25	25	17.34	17.14	17.31		
10	256QAM	50	0	17.25	17.20	17.22		
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	22.22	22.21	22.14	23.6	0
5	QPSK	1	12	22.11	22.23	22.27		
5	QPSK	1	24	22.05	22.11	22.16		
5	QPSK	12	0	21.32	21.35	21.39	23	0.6
5	QPSK	12	7	21.13	21.13	21.06		
5	QPSK	12	13	21.27	21.22	21.28		
5	QPSK	25	0	21.29	21.32	21.30		
5	16QAM	1	0	21.65	21.55	21.69	23	0.6
5	16QAM	1	12	21.47	21.49	21.40		
5	16QAM	1	24	21.54	21.52	21.50		
5	16QAM	12	0	20.42	20.32	20.23	22	1.6
5	16QAM	12	7	20.08	20.09	20.15		
5	16QAM	12	13	20.28	20.22	20.15		
5	16QAM	25	0	20.20	20.14	20.17		
5	64QAM	1	0	20.43	20.43	20.38	22	1.6
5	64QAM	1	12	20.45	20.39	20.40		
5	64QAM	1	24	20.35	20.25	20.27		
5	64QAM	12	0	20.40	20.36	20.30	21	2.6
5	64QAM	12	7	20.36	20.31	20.34		
5	64QAM	12	13	20.27	20.21	20.20		
5	64QAM	25	0	20.23	20.31	20.27		
5	256QAM	1	0	17.12	17.17	17.13	19	4.6
5	256QAM	1	12	17.04	17.13	17.20		
5	256QAM	1	24	17.16	17.09	17.27		

5	256QAM	12	0	17.34	17.22	17.24	19	4.6
5	256QAM	12	7	17.15	17.14	17.34		
5	256QAM	12	13	17.28	17.22	17.28		
5	256QAM	25	0	17.21	17.25	17.23		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	22.16	22.29	22.08	23.6	0
3	QPSK	1	8	22.17	22.15	22.22		
3	QPSK	1	14	22.10	22.10	22.13		
3	QPSK	8	0	21.36	21.39	21.38	23	0.6
3	QPSK	8	4	21.09	21.16	21.04		
3	QPSK	8	7	21.30	21.21	21.32		
3	QPSK	15	0	21.33	21.36	21.25		
3	16QAM	1	0	21.66	21.56	21.60	23	0.6
3	16QAM	1	8	21.39	21.40	21.48		
3	16QAM	1	14	21.54	21.54	21.52		
3	16QAM	8	0	20.35	20.33	20.27	22	1.6
3	16QAM	8	4	20.06	20.11	20.21		
3	16QAM	8	7	20.30	20.24	20.15		
3	16QAM	15	0	20.24	20.15	20.18		
3	64QAM	1	0	20.48	20.39	20.27	22	1.6
3	64QAM	1	8	20.41	20.34	20.38		
3	64QAM	1	14	20.34	20.34	20.32		
3	64QAM	8	0	20.36	20.39	20.31	21	2.6
3	64QAM	8	4	20.37	20.29	20.31		
3	64QAM	8	7	20.23	20.22	20.18		
3	64QAM	15	0	20.25	20.24	20.24		
3	256QAM	1	0	17.17	17.19	17.17	19	4.6
3	256QAM	1	8	17.03	17.19	17.13		
3	256QAM	1	14	17.17	17.09	17.25		
3	256QAM	8	0	17.35	17.28	17.22	19	4.6
3	256QAM	8	4	17.19	17.23	17.35		
3	256QAM	8	7	17.26	17.24	17.36		
3	256QAM	15	0	17.23	17.18	17.22		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	22.15	22.22	22.15	23.6	0
1.4	QPSK	1	3	22.14	22.22	22.23		
1.4	QPSK	1	5	22.15	22.12	22.19		
1.4	QPSK	3	0	22.18	22.29	22.17		
1.4	QPSK	3	1	22.09	22.17	22.24		
1.4	QPSK	3	3	22.09	22.09	22.10		
1.4	QPSK	6	0	21.25	21.37	21.25	23	0.6
1.4	16QAM	1	0	21.58	21.54	21.64	23	0.6
1.4	16QAM	1	3	21.47	21.48	21.46		
1.4	16QAM	1	5	21.51	21.45	21.58		
1.4	16QAM	3	0	21.56	21.60	21.60		

1.4	16QAM	3	1	21.40	21.48	21.48		
1.4	16QAM	3	3	21.47	21.54	21.58		
1.4	16QAM	6	0	20.18	20.14	20.19	22	1.6
1.4	64QAM	1	0	20.42	20.44	20.37	22	1.6
1.4	64QAM	1	3	20.46	20.36	20.42		
1.4	64QAM	1	5	20.37	20.25	20.26		
1.4	64QAM	3	0	20.45	20.40	20.34		
1.4	64QAM	3	1	20.36	20.28	20.28		
1.4	64QAM	3	3	20.27	20.24	20.21		
1.4	64QAM	6	0	20.30	20.30	20.29	21	2.6
1.4	256QAM	1	0	17.17	17.15	17.21	19	4.6
1.4	256QAM	1	3	17.02	17.17	17.11		
1.4	256QAM	1	5	17.11	17.11	17.24		
1.4	256QAM	3	0	17.38	17.26	17.22		
1.4	256QAM	3	1	17.15	17.13	17.29		
1.4	256QAM	3	3	17.27	17.25	17.30		
1.4	256QAM	6	0	17.20	17.18	17.18	19	4.6

Band 71 Ant1 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				133222	133297	133372		
Frequency (MHz)				673	680.5	688		
20	QPSK	1	0	21.96	21.99	21.94	23.5	0
20	QPSK	1	49	21.91	21.96	21.90		
20	QPSK	1	99	21.92	21.93	21.92		
20	QPSK	50	0	21.04	21.12	21.05	22.5	1
20	QPSK	50	24	20.88	20.86	20.81		
20	QPSK	50	50	21.03	21.05	21.00		
20	QPSK	100	0	21.08	21.15	21.10	22.5	1
20	16QAM	1	0	21.33	21.41	21.42		
20	16QAM	1	49	21.19	21.20	21.23		
20	16QAM	1	99	21.22	21.17	21.33	21.5	2
20	16QAM	50	0	20.13	20.11	20.00		
20	16QAM	50	24	19.85	19.88	19.87		
20	16QAM	50	50	20.05	20.04	19.93	21.5	2
20	16QAM	100	0	19.91	19.96	19.87		
20	64QAM	1	0	20.18	20.05	20.00		
20	64QAM	1	49	20.19	20.15	20.12	21.5	2
20	64QAM	1	99	19.99	20.01	20.01		
20	64QAM	50	0	20.22	20.09	19.99		
20	64QAM	50	24	20.02	20.05	20.10	20.5	3
20	64QAM	50	50	19.94	19.99	19.97		
20	64QAM	100	0	20.01	20.06	20.10		
20	256QAM	1	0	16.89	16.92	16.96	18.5	5
20	256QAM	1	49	16.83	16.89	16.93		

20	256QAM	1	99	16.87	16.84	16.89		
20	256QAM	50	0	16.99	17.09	16.92	18.5	5
20	256QAM	50	24	16.88	16.92	17.02		
20	256QAM	50	50	17.04	17.05	17.14		
20	256QAM	100	0	16.90	16.91	16.89		
Channel				133197	133297	133397	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	0	21.83	21.84	21.85	23.5	0
15	QPSK	1	37	21.82	21.87	21.84		
15	QPSK	1	74	21.83	21.77	21.83		
15	QPSK	36	0	20.89	20.96	20.94	22.5	1
15	QPSK	36	20	20.76	20.76	20.70		
15	QPSK	36	39	20.98	20.96	20.93		
15	QPSK	75	0	20.94	20.99	20.97		
15	16QAM	1	0	21.24	21.36	21.36	22.5	1
15	16QAM	1	37	21.04	21.15	21.13		
15	16QAM	1	74	21.10	21.07	21.20		
15	16QAM	36	0	20.03	20.02	19.93	21.5	2
15	16QAM	36	20	19.77	19.79	19.79		
15	16QAM	36	39	19.95	19.94	19.87		
15	16QAM	75	0	19.86	19.92	19.77		
15	64QAM	1	0	20.09	19.89	19.94	21.5	2
15	64QAM	1	37	20.13	20.08	19.99		
15	64QAM	1	74	19.84	19.93	19.93		
15	64QAM	36	0	20.09	19.97	19.89	20.5	3
15	64QAM	36	20	19.96	19.95	20.00		
15	64QAM	36	39	19.81	19.87	19.87		
15	64QAM	75	0	19.90	19.96	19.96		
15	256QAM	1	0	16.80	16.84	16.89	18.5	5
15	256QAM	1	37	16.71	16.75	16.84		
15	256QAM	1	74	16.81	16.73	16.81		
15	256QAM	36	0	16.89	17.03	16.78	18.5	5
15	256QAM	36	20	16.84	16.83	16.97		
15	256QAM	36	39	16.91	16.94	17.02		
15	256QAM	75	0	16.78	16.82	16.78		
Channel				133172	133297	133422	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	680.5	693		
10	QPSK	1	0	21.91	21.93	21.88	23.5	0
10	QPSK	1	25	21.79	21.91	21.79		
10	QPSK	1	49	21.83	21.85	21.83		
10	QPSK	25	0	20.88	20.98	20.98	22.5	1
10	QPSK	25	12	20.74	20.78	20.71		
10	QPSK	25	25	20.87	20.99	20.93		
10	QPSK	50	0	20.93	20.99	21.06		
10	16QAM	1	0	21.21	21.31	21.28	22.5	1
10	16QAM	1	25	21.15	21.14	21.19		
10	16QAM	1	49	21.17	21.08	21.28		

10	16QAM	25	0	20.02	20.00	19.85	21.5	2
10	16QAM	25	12	19.70	19.84	19.77		
10	16QAM	25	25	19.97	19.92	19.81		
10	16QAM	50	0	19.77	19.90	19.72		
10	64QAM	1	0	20.02	19.99	19.91	21.5	2
10	64QAM	1	25	20.06	20.01	19.96		
10	64QAM	1	49	19.88	19.87	19.88		
10	64QAM	25	0	20.16	20.04	19.87	20.5	3
10	64QAM	25	12	19.97	19.90	20.06		
10	64QAM	25	25	19.86	19.89	19.91		
10	64QAM	50	0	19.88	19.94	20.05		
10	256QAM	1	0	16.84	16.79	16.92	18.5	5
10	256QAM	1	25	16.77	16.83	16.86		
10	256QAM	1	49	16.76	16.68	16.74		
10	256QAM	25	0	16.90	16.93	16.86	18.5	5
10	256QAM	25	12	16.75	16.82	16.87		
10	256QAM	25	25	16.92	16.89	17.00		
10	256QAM	50	0	16.86	16.84	16.74		
Channel				133147	133297	133447	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	0	21.81	21.92	21.83	23.5	0
5	QPSK	1	12	21.81	21.84	21.82		
5	QPSK	1	24	21.81	21.82	21.76		
5	QPSK	12	0	20.91	21.07	20.96	22.5	1
5	QPSK	12	7	20.73	20.78	20.68		
5	QPSK	12	13	20.93	20.99	20.90		
5	QPSK	25	0	21.03	21.09	20.96		
5	16QAM	1	0	21.26	21.26	21.34	22.5	1
5	16QAM	1	12	21.08	21.12	21.15		
5	16QAM	1	24	21.07	21.09	21.22		
5	16QAM	12	0	20.09	19.97	19.85	21.5	2
5	16QAM	12	7	19.73	19.79	19.75		
5	16QAM	12	13	19.91	19.88	19.85		
5	16QAM	25	0	19.84	19.91	19.73		
5	64QAM	1	0	20.12	19.91	19.87	21.5	2
5	64QAM	1	12	20.10	20.00	20.05		
5	64QAM	1	24	19.85	19.92	19.94		
5	64QAM	12	0	20.06	20.00	19.86	20.5	3
5	64QAM	12	7	19.86	20.00	20.02		
5	64QAM	12	13	19.80	19.87	19.88		
5	64QAM	25	0	19.88	19.93	19.96		
5	256QAM	1	0	16.83	16.83	16.85	18.5	5
5	256QAM	1	12	16.73	16.83	16.88		
5	256QAM	1	24	16.74	16.73	16.78		
5	256QAM	12	0	16.90	17.01	16.78	18.5	5
5	256QAM	12	7	16.81	16.81	16.91		
5	256QAM	12	13	16.90	16.89	17.06		

5	256QAM	25	0	16.77	16.76	16.82		
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Band 2 Ant2 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	19.16	19.52	19.26	20.2	0
20	QPSK	1	49	19.24	19.29	19.49		
20	QPSK	1	99	19.37	19.49	19.32		
20	QPSK	50	0	19.04	19.49	19.27	20.2	0
20	QPSK	50	24	19.35	19.13	19.38		
20	QPSK	50	50	19.24	19.16	19.29		
20	QPSK	100	0	19.04	19.16	19.01	20.2	0
20	16QAM	1	0	19.06	19.43	19.19		
20	16QAM	1	49	19.19	19.26	19.45		
20	16QAM	1	99	19.32	19.41	19.29	20.2	0
20	16QAM	50	0	19.01	19.39	19.20		
20	16QAM	50	24	19.28	19.05	19.34		
20	16QAM	50	50	19.20	19.07	19.26	20.2	0
20	16QAM	100	0	18.94	19.08	18.94		
20	64QAM	1	0	19.09	19.46	19.23	20.2	0
20	64QAM	1	49	19.16	19.24	19.46		
20	64QAM	1	99	19.33	19.43	19.24		
20	64QAM	50	0	18.97	19.40	19.19	20.2	0
20	64QAM	50	24	19.32	19.08	19.33		
20	64QAM	50	50	19.19	19.10	19.22		
20	64QAM	100	0	18.96	19.14	18.98	20	0.2
20	256QAM	1	0	18.77	18.80	18.80		
20	256QAM	1	49	18.54	18.57	18.65		
20	256QAM	1	99	18.45	18.60	18.66	20	0.2
20	256QAM	50	0	18.45	18.54	18.46		
20	256QAM	50	24	18.55	18.67	18.64		
20	256QAM	50	50	18.44	18.35	18.39	20.2	0
20	256QAM	100	0	18.67	18.63	18.59		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	19.09	19.45	19.21	20.2	0
15	QPSK	1	37	19.20	19.25	19.43		
15	QPSK	1	74	19.34	19.39	19.26		
15	QPSK	36	0	18.99	19.39	19.21	20.2	0
15	QPSK	36	20	19.28	19.07	19.29		
15	QPSK	36	39	19.21	19.06	19.21		
15	QPSK	75	0	18.97	19.08	18.94	20.2	0
15	16QAM	1	0	19.03	19.39	19.13		
15	16QAM	1	37	19.16	19.20	19.38		
15	16QAM	1	74	19.27	19.37	19.23		



15	16QAM	36	0	18.95	19.34	19.13	20.2	0
15	16QAM	36	20	19.18	18.99	19.29		
15	16QAM	36	39	19.12	19.02	19.22		
15	16QAM	75	0	18.87	19.03	18.91		
15	64QAM	1	0	19.04	19.37	19.20	20.2	0
15	64QAM	1	37	19.14	19.18	19.42		
15	64QAM	1	74	19.30	19.35	19.16		
15	64QAM	36	0	18.92	19.32	19.17	20.2	0
15	64QAM	36	20	19.26	19.05	19.28		
15	64QAM	36	39	19.11	19.03	19.13		
15	64QAM	75	0	18.86	19.10	18.90		
15	256QAM	1	0	18.60	18.78	18.64	20	0.2
15	256QAM	1	37	18.51	18.42	18.51		
15	256QAM	1	74	18.37	18.44	18.47		
15	256QAM	36	0	18.36	18.51	18.29	20	0.2
15	256QAM	36	20	18.42	18.54	18.47		
15	256QAM	36	39	18.29	18.34	18.25		
15	256QAM	75	0	18.48	18.53	18.39		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	19.14	19.46	19.20	20.2	0
10	QPSK	1	25	19.15	19.21	19.45		
10	QPSK	1	49	19.30	19.46	19.26		
10	QPSK	25	0	18.95	19.46	19.23	20.2	0
10	QPSK	25	12	19.27	19.07	19.35		
10	QPSK	25	25	19.15	19.06	19.20		
10	QPSK	50	0	18.98	19.10	18.97		
10	16QAM	1	0	18.98	19.38	19.12	20.2	0
10	16QAM	1	25	19.14	19.18	19.37		
10	16QAM	1	49	19.25	19.35	19.20		
10	16QAM	25	0	18.98	19.32	19.13	20.2	0
10	16QAM	25	12	19.19	19.01	19.27		
10	16QAM	25	25	19.17	19.01	19.24		
10	16QAM	50	0	18.86	19.01	18.88		
10	64QAM	1	0	19.05	19.36	19.20	20.2	0
10	64QAM	1	25	19.13	19.14	19.44		
10	64QAM	1	49	19.24	19.39	19.19		
10	64QAM	25	0	18.89	19.36	19.10	20.2	0
10	64QAM	25	12	19.23	19.01	19.26		
10	64QAM	25	25	19.11	19.05	19.14		
10	64QAM	50	0	18.89	19.07	18.93		
10	256QAM	1	0	18.57	18.71	18.70	20	0.2
10	256QAM	1	25	18.35	18.50	18.48		
10	256QAM	1	49	18.31	18.49	18.64		
10	256QAM	25	0	18.30	18.34	18.28	20	0.2
10	256QAM	25	12	18.50	18.59	18.53		
10	256QAM	25	25	18.33	18.20	18.30		

10	256QAM	50	0	18.55	18.44	18.44		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	19.13	19.48	19.20	20.2	0
5	QPSK	1	12	19.15	19.22	19.44		
5	QPSK	1	24	19.34	19.45	19.24		
5	QPSK	12	0	18.95	19.40	19.18	20.2	0
5	QPSK	12	7	19.25	19.11	19.29		
5	QPSK	12	13	19.16	19.10	19.24		
5	QPSK	25	0	18.96	19.06	18.99	20.2	0
5	16QAM	1	0	18.99	19.37	19.12		
5	16QAM	1	12	19.12	19.24	19.41		
5	16QAM	1	24	19.29	19.35	19.21	20.2	0
5	16QAM	12	0	18.91	19.31	19.15		
5	16QAM	12	7	19.22	18.97	19.25		
5	16QAM	12	13	19.11	19.01	19.23	20.2	0
5	16QAM	25	0	18.85	19.03	18.85		
5	64QAM	1	0	19.03	19.36	19.14		
5	64QAM	1	12	19.07	19.21	19.41	20.2	0
5	64QAM	1	24	19.29	19.37	19.17		
5	64QAM	12	0	18.92	19.34	19.14		
5	64QAM	12	7	19.29	19.01	19.31	20.2	0
5	64QAM	12	13	19.17	19.07	19.18		
5	64QAM	25	0	18.94	19.05	18.93		
5	256QAM	1	0	18.59	18.75	18.60	20	0.2
5	256QAM	1	12	18.47	18.53	18.62		
5	256QAM	1	24	18.33	18.58	18.52		
5	256QAM	12	0	18.41	18.54	18.43	20	0.2
5	256QAM	12	7	18.49	18.57	18.55		
5	256QAM	12	13	18.38	18.27	18.28		
5	256QAM	25	0	18.53	18.50	18.53	Channel	Tune-up limit (dBm)
Channel				18615	18900	19185		
Frequency (MHz)				1851.5	1880	1908.5	Tune-up limit (dBm)	MPR (dB)
3	QPSK	1	0	19.11	19.45	19.18		
3	QPSK	1	8	19.17	19.25	19.45	20.2	0
3	QPSK	1	14	19.31	19.39	19.23		
3	QPSK	8	0	18.94	19.42	19.21		
3	QPSK	8	4	19.31	19.10	19.30	20.2	0
3	QPSK	8	7	19.14	19.13	19.26		
3	QPSK	15	0	18.99	19.12	18.97		
3	16QAM	1	0	18.98	19.33	19.13	20.2	0
3	16QAM	1	8	19.13	19.18	19.40		
3	16QAM	1	14	19.23	19.34	19.24		
3	16QAM	8	0	18.94	19.34	19.13	20.2	0
3	16QAM	8	4	19.25	19.02	19.25		
3	16QAM	8	7	19.11	19.00	19.18		
3	16QAM	15	0	18.84	19.00	18.90		

3	64QAM	1	0	19.01	19.43	19.19	20.2	0
3	64QAM	1	8	19.13	19.21	19.42		
3	64QAM	1	14	19.26	19.38	19.19		
3	64QAM	8	0	18.89	19.30	19.14	20.2	0
3	64QAM	8	4	19.24	19.01	19.27		
3	64QAM	8	7	19.11	19.05	19.18		
3	64QAM	15	0	18.93	19.09	18.89		
3	256QAM	1	0	18.69	18.65	18.74	20	0.2
3	256QAM	1	8	18.43	18.39	18.45		
3	256QAM	1	14	18.36	18.53	18.63		
3	256QAM	8	0	18.36	18.38	18.34	20	0.2
3	256QAM	8	4	18.36	18.54	18.50		
3	256QAM	8	7	18.38	18.28	18.24		
3	256QAM	15	0	18.52	18.61	18.39		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	19.13	19.43	19.19	20.2	0
1.4	QPSK	1	3	19.16	19.26	19.46		
1.4	QPSK	1	5	19.31	19.41	19.27		
1.4	QPSK	3	0	18.95	19.43	19.20		
1.4	QPSK	3	1	19.32	19.05	19.30		
1.4	QPSK	3	3	19.19	19.08	19.21		
1.4	QPSK	6	0	18.95	19.13	18.95	20.2	0
1.4	16QAM	1	0	19.01	19.36	19.10	20.2	0
1.4	16QAM	1	3	19.10	19.18	19.36		
1.4	16QAM	1	5	19.23	19.39	19.21		
1.4	16QAM	3	0	18.96	19.29	19.12		
1.4	16QAM	3	1	19.26	18.99	19.30		
1.4	16QAM	3	3	19.17	19.05	19.20		
1.4	16QAM	6	0	18.90	19.03	18.90	20.2	0
1.4	64QAM	1	0	19.05	19.37	19.14	20.2	0
1.4	64QAM	1	3	19.13	19.21	19.40		
1.4	64QAM	1	5	19.27	19.41	19.21		
1.4	64QAM	3	0	18.91	19.33	19.11		
1.4	64QAM	3	1	19.22	18.99	19.25		
1.4	64QAM	3	3	19.13	19.04	19.16		
1.4	64QAM	6	0	18.92	19.06	18.91	20.2	0
1.4	256QAM	1	0	18.77	18.68	18.63	20	0.2
1.4	256QAM	1	3	18.41	18.52	18.53		
1.4	256QAM	1	5	18.36	18.49	18.62		
1.4	256QAM	3	0	18.42	18.40	18.30		
1.4	256QAM	3	1	18.44	18.54	18.57		
1.4	256QAM	3	3	18.37	18.24	18.25		
1.4	256QAM	6	0	18.65	18.48	18.56	20	0.2

Band 4 Ant2 DSI4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20050	20175	20300	20.6	0
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	19.81	20.03	19.76	20.6	0
20	QPSK	1	49	19.98	19.95	20.00		
20	QPSK	1	99	19.80	19.77	19.78		
20	QPSK	50	0	19.55	20.01	19.69	20.6	0
20	QPSK	50	24	19.78	19.76	19.87		
20	QPSK	50	50	19.77	19.66	19.87		
20	QPSK	100	0	19.56	19.95	19.40	20.6	0
20	16QAM	1	0	19.59	19.68	19.64		
20	16QAM	1	49	19.88	19.63	19.47		
20	16QAM	1	99	19.53	19.46	19.61	20.6	0
20	16QAM	50	0	19.70	19.50	19.62		
20	16QAM	50	24	19.40	19.46	19.44		
20	16QAM	50	50	19.56	19.68	19.74	20.6	0
20	16QAM	100	0	19.40	19.61	19.46		
20	64QAM	1	0	19.64	19.68	19.48		
20	64QAM	1	49	19.59	19.50	19.73	20.6	0
20	64QAM	1	99	19.56	19.53	19.59		
20	64QAM	50	0	19.72	19.97	19.71		
20	64QAM	50	24	19.94	19.89	19.94	20.6	0
20	64QAM	50	50	19.76	19.71	19.68		
20	64QAM	100	0	19.50	19.98	19.59		
20	256QAM	1	0	18.48	18.46	18.35	20	0.6
20	256QAM	1	49	18.66	18.43	18.54		
20	256QAM	1	99	18.45	18.44	18.27		
20	256QAM	50	0	18.49	18.52	18.31	20	0.6
20	256QAM	50	24	18.45	18.59	18.51		
20	256QAM	50	50	18.49	18.56	18.47		
20	256QAM	100	0	18.46	18.56	18.46	20.6	0
Channel				20025	20175	20325		
Frequency (MHz)				1717.5	1732.5	1747.5	20.6	0
15	QPSK	1	0	19.72	19.94	19.73		
15	QPSK	1	37	19.92	19.91	19.90	20.6	0
15	QPSK	1	74	19.77	19.72	19.70		
15	QPSK	36	0	19.48	19.98	19.61		
15	QPSK	36	20	19.70	19.67	19.77	20.6	0
15	QPSK	36	39	19.71	19.56	19.83		
15	QPSK	75	0	19.50	19.86	19.30		
15	16QAM	1	0	19.54	19.59	19.59	20.6	0
15	16QAM	1	37	19.80	19.60	19.42		
15	16QAM	1	74	19.44	19.39	19.57		
15	16QAM	36	0	19.64	19.46	19.56	20.6	0
15	16QAM	36	20	19.34	19.40	19.39		
15	16QAM	36	39	19.50	19.60	19.65		



15	16QAM	75	0	19.33	19.56	19.43		
15	64QAM	1	0	19.61	19.65	19.44	20.6	0
15	64QAM	1	37	19.53	19.47	19.67		
15	64QAM	1	74	19.49	19.51	19.57		
15	64QAM	36	0	19.68	19.91	19.63	20.6	0
15	64QAM	36	20	19.87	19.80	19.92		
15	64QAM	36	39	19.74	19.65	19.63		
15	64QAM	75	0	19.43	19.89	19.53		
15	256QAM	1	0	18.34	18.38	18.20	20	0.6
15	256QAM	1	37	18.58	18.40	18.42		
15	256QAM	1	74	18.29	18.32	18.26		
15	256QAM	36	0	18.36	18.48	18.27	20	0.6
15	256QAM	36	20	18.31	18.58	18.43		
15	256QAM	36	39	18.42	18.37	18.32		
15	256QAM	75	0	18.35	18.54	18.45		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	19.78	19.99	19.72	20.6	0
10	QPSK	1	25	19.94	19.88	19.93		
10	QPSK	1	49	19.74	19.74	19.76		
10	QPSK	25	0	19.46	19.96	19.66	20.6	0
10	QPSK	25	12	19.75	19.68	19.78		
10	QPSK	25	25	19.67	19.60	19.83		
10	QPSK	50	0	19.50	19.91	19.31		
10	16QAM	1	0	19.56	19.66	19.61	20.6	0
10	16QAM	1	25	19.80	19.55	19.38		
10	16QAM	1	49	19.47	19.43	19.55		
10	16QAM	25	0	19.67	19.42	19.59	20.6	0
10	16QAM	25	12	19.33	19.40	19.39		
10	16QAM	25	25	19.49	19.61	19.68		
10	16QAM	50	0	19.33	19.57	19.43		
10	64QAM	1	0	19.60	19.58	19.43	20.6	0
10	64QAM	1	25	19.52	19.44	19.65		
10	64QAM	1	49	19.47	19.48	19.51		
10	64QAM	25	0	19.67	19.91	19.69	20.6	0
10	64QAM	25	12	19.85	19.87	19.85		
10	64QAM	25	25	19.70	19.62	19.61		
10	64QAM	50	0	19.41	19.90	19.56		
10	256QAM	1	0	18.42	18.34	18.33	20	0.6
10	256QAM	1	25	18.50	18.25	18.38		
10	256QAM	1	49	18.34	18.27	18.21		
10	256QAM	25	0	18.31	18.41	18.29	20	0.6
10	256QAM	25	12	18.28	18.57	18.49		
10	256QAM	25	25	18.38	18.47	18.47		
10	256QAM	50	0	18.44	18.43	18.28		
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		

5	QPSK	1	0	19.75	19.97	19.70	20.6	0
5	QPSK	1	12	19.90	19.89	19.95		
5	QPSK	1	24	19.76	19.70	19.76		
5	QPSK	12	0	19.49	19.99	19.65	20.6	0
5	QPSK	12	7	19.68	19.69	19.78		
5	QPSK	12	13	19.68	19.58	19.84		
5	QPSK	25	0	19.50	19.87	19.37		
5	16QAM	1	0	19.51	19.58	19.57	20.6	0
5	16QAM	1	12	19.80	19.60	19.41		
5	16QAM	1	24	19.46	19.36	19.55		
5	16QAM	12	0	19.62	19.45	19.55	20.6	0
5	16QAM	12	7	19.32	19.44	19.35		
5	16QAM	12	13	19.47	19.65	19.69		
5	16QAM	25	0	19.31	19.53	19.39		
5	64QAM	1	0	19.60	19.64	19.40	20.6	0
5	64QAM	1	12	19.56	19.44	19.63		
5	64QAM	1	24	19.53	19.43	19.50		
5	64QAM	12	0	19.66	19.91	19.63	20.6	0
5	64QAM	12	7	19.87	19.82	19.91		
5	64QAM	12	13	19.66	19.66	19.64		
5	64QAM	25	0	19.41	19.91	19.50		
5	256QAM	1	0	18.37	18.34	18.19	20	0.6
5	256QAM	1	12	18.57	18.31	18.39		
5	256QAM	1	24	18.40	18.32	18.09		
5	256QAM	12	0	18.44	18.39	18.17	20	0.6
5	256QAM	12	7	18.33	18.51	18.48		
5	256QAM	12	13	18.44	18.44	18.46		
5	256QAM	25	0	18.29	18.56	18.44		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	19.71	20.00	19.68	20.6	0
3	QPSK	1	8	19.90	19.88	19.93		
3	QPSK	1	14	19.73	19.74	19.71		
3	QPSK	8	0	19.51	19.93	19.62	20.6	0
3	QPSK	8	4	19.69	19.67	19.80		
3	QPSK	8	7	19.70	19.59	19.77		
3	QPSK	15	0	19.52	19.85	19.34		
3	16QAM	1	0	19.52	19.63	19.56	20.6	0
3	16QAM	1	8	19.82	19.53	19.44		
3	16QAM	1	14	19.43	19.38	19.56		
3	16QAM	8	0	19.61	19.43	19.58	20.6	0
3	16QAM	8	4	19.32	19.38	19.41		
3	16QAM	8	7	19.48	19.63	19.65		
3	16QAM	15	0	19.34	19.58	19.44		
3	64QAM	1	0	19.58	19.62	19.43	20.6	0
3	64QAM	1	8	19.57	19.46	19.65		
3	64QAM	1	14	19.50	19.44	19.51		

3	64QAM	8	0	19.66	19.94	19.65	20.6	0
3	64QAM	8	4	19.88	19.82	19.91		
3	64QAM	8	7	19.70	19.68	19.65		
3	64QAM	15	0	19.45	19.95	19.51		
3	256QAM	1	0	18.34	18.31	18.22	20	0.6
3	256QAM	1	8	18.49	18.42	18.48		
3	256QAM	1	14	18.37	18.38	18.17		
3	256QAM	8	0	18.34	18.38	18.29	20	0.6
3	256QAM	8	4	18.34	18.40	18.33		
3	256QAM	8	7	18.44	18.55	18.27		
3	256QAM	15	0	18.29	18.53	18.36		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	19.75	19.97	19.72	20.6	0
1.4	QPSK	1	3	19.91	19.86	19.95		
1.4	QPSK	1	5	19.78	19.74	19.71		
1.4	QPSK	3	0	19.46	19.95	19.59		
1.4	QPSK	3	1	19.71	19.70	19.79		
1.4	QPSK	3	3	19.75	19.59	19.80		
1.4	QPSK	6	0	19.46	19.89	19.31	20.6	0
1.4	16QAM	1	0	19.49	19.59	19.60	20.6	0
1.4	16QAM	1	3	19.79	19.60	19.41		
1.4	16QAM	1	5	19.46	19.38	19.51		
1.4	16QAM	3	0	19.65	19.46	19.58		
1.4	16QAM	3	1	19.37	19.44	19.41		
1.4	16QAM	3	3	19.47	19.63	19.70		
1.4	16QAM	6	0	19.34	19.57	19.41	20.6	0
1.4	64QAM	1	0	19.57	19.64	19.44	20.6	0
1.4	64QAM	1	3	19.55	19.44	19.69		
1.4	64QAM	1	5	19.52	19.44	19.54		
1.4	64QAM	3	0	19.66	19.92	19.63		
1.4	64QAM	3	1	19.86	19.80	19.86		
1.4	64QAM	3	3	19.73	19.62	19.66		
1.4	64QAM	6	0	19.44	19.88	19.54	20.6	0
1.4	256QAM	1	0	18.44	18.48	18.49	20	0.6
1.4	256QAM	1	3	18.68	18.41	18.46		
1.4	256QAM	1	5	18.49	18.49	18.45		
1.4	256QAM	3	0	18.48	18.44	18.43		
1.4	256QAM	3	1	18.45	18.68	18.51		
1.4	256QAM	3	3	18.55	18.48	18.50		
1.4	256QAM	6	0	18.47	18.51	18.58	20	0.6

Band 25 Ant2 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26140	26340	26590		
Frequency (MHz)				1860	1880	1905		



20	QPSK	1	0	19.34	19.56	19.41	20.2	0
20	QPSK	1	49	19.41	19.40	19.54		
20	QPSK	1	99	19.51	19.51	19.45		
20	QPSK	50	0	19.22	19.51	19.35	20.2	0
20	QPSK	50	24	19.35	19.20	19.40		
20	QPSK	50	50	19.40	19.24	19.36		
20	QPSK	100	0	19.17	19.27	19.01		
20	16QAM	1	0	19.31	19.51	19.35	20.2	0
20	16QAM	1	49	19.34	19.37	19.50		
20	16QAM	1	99	19.45	19.46	19.42		
20	16QAM	50	0	19.18	19.46	19.30	20.2	0
20	16QAM	50	24	19.28	19.14	19.34		
20	16QAM	50	50	19.37	19.19	19.33		
20	16QAM	100	0	19.12	19.22	18.99		
20	64QAM	1	0	19.27	19.46	19.33	20.2	0
20	64QAM	1	49	19.33	19.33	19.52		
20	64QAM	1	99	19.44	19.44	19.36		
20	64QAM	50	0	19.12	19.45	19.25	20.2	0
20	64QAM	50	24	19.31	19.11	19.32		
20	64QAM	50	50	19.30	19.16	19.31		
20	64QAM	100	0	19.15	19.21	18.96		
20	256QAM	1	0	18.79	18.87	18.82	20	0.2
20	256QAM	1	49	18.71	18.74	18.78		
20	256QAM	1	99	18.61	18.68	18.77		
20	256QAM	50	0	18.64	18.63	18.61	20	0.2
20	256QAM	50	24	18.60	18.67	18.76		
20	256QAM	50	50	18.56	18.53	18.43		
20	256QAM	100	0	18.70	18.70	18.79		
Channel				26115	26340	26615	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1907.5		
15	QPSK	1	0	19.29	19.51	19.35	20.2	0
15	QPSK	1	37	19.32	19.34	19.46		
15	QPSK	1	74	19.42	19.47	19.38		
15	QPSK	36	0	19.16	19.46	19.33	20.2	0
15	QPSK	36	20	19.30	19.16	19.31		
15	QPSK	36	39	19.30	19.17	19.31		
15	QPSK	75	0	19.09	19.22	18.94		
15	16QAM	1	0	19.27	19.44	19.33	20.2	0
15	16QAM	1	37	19.31	19.29	19.41		
15	16QAM	1	74	19.40	19.43	19.35		
15	16QAM	36	0	19.13	19.39	19.27	20.2	0
15	16QAM	36	20	19.19	19.11	19.31		
15	16QAM	36	39	19.29	19.09	19.26		
15	16QAM	75	0	19.07	19.15	18.91		
15	64QAM	1	0	19.23	19.43	19.25	20.2	0
15	64QAM	1	37	19.25	19.31	19.48		
15	64QAM	1	74	19.34	19.34	19.27		



15	64QAM	36	0	19.05	19.42	19.17	20.2	0
15	64QAM	36	20	19.28	19.02	19.24		
15	64QAM	36	39	19.21	19.13	19.28		
15	64QAM	75	0	19.06	19.11	18.88		
15	256QAM	1	0	18.68	18.77	18.73	20	0.2
15	256QAM	1	37	18.64	18.56	18.60		
15	256QAM	1	74	18.55	18.67	18.71		
15	256QAM	36	0	18.45	18.57	18.56	20	0.2
15	256QAM	36	20	18.55	18.47	18.59		
15	256QAM	36	39	18.40	18.41	18.28		
15	256QAM	75	0	18.53	18.69	18.64		
Channel				26090	26340	26640	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1910		
10	QPSK	1	0	19.26	19.49	19.37	20.2	0
10	QPSK	1	25	19.36	19.33	19.50		
10	QPSK	1	49	19.48	19.45	19.42		
10	QPSK	25	0	19.17	19.48	19.32	20.2	0
10	QPSK	25	12	19.28	19.11	19.34		
10	QPSK	25	25	19.31	19.15	19.31		
10	QPSK	50	0	19.15	19.23	18.95		
10	16QAM	1	0	19.22	19.41	19.28	20.2	0
10	16QAM	1	25	19.26	19.28	19.42		
10	16QAM	1	49	19.39	19.44	19.39		
10	16QAM	25	0	19.14	19.43	19.21	20.2	0
10	16QAM	25	12	19.22	19.06	19.31		
10	16QAM	25	25	19.32	19.16	19.29		
10	16QAM	50	0	19.09	19.12	18.95		
10	64QAM	1	0	19.18	19.38	19.28	20.2	0
10	64QAM	1	25	19.29	19.26	19.49		
10	64QAM	1	49	19.41	19.38	19.34		
10	64QAM	25	0	19.08	19.38	19.21	20.2	0
10	64QAM	25	12	19.25	19.04	19.24		
10	64QAM	25	25	19.25	19.13	19.26		
10	64QAM	50	0	19.10	19.17	18.90		
10	256QAM	1	0	18.60	18.76	18.67	20	0.2
10	256QAM	1	25	18.54	18.64	18.59		
10	256QAM	1	49	18.56	18.55	18.60		
10	256QAM	25	0	18.48	18.58	18.60	20	0.2
10	256QAM	25	12	18.51	18.58	18.73		
10	256QAM	25	25	18.54	18.42	18.41		
10	256QAM	50	0	18.60	18.56	18.74		
Channel				26065	26340	26665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1912.5		
5	QPSK	1	0	19.32	19.48	19.35	20.2	0
5	QPSK	1	12	19.37	19.33	19.48		
5	QPSK	1	24	19.41	19.47	19.39		
5	QPSK	12	0	19.15	19.42	19.27	20.2	0

5	QPSK	12	7	19.33	19.11	19.35		
5	QPSK	12	13	19.33	19.16	19.33		
5	QPSK	25	0	19.13	19.23	18.98		
5	16QAM	1	0	19.22	19.47	19.31	20.2	0
5	16QAM	1	12	19.32	19.28	19.42		
5	16QAM	1	24	19.38	19.40	19.40		
5	16QAM	12	0	19.13	19.39	19.22	20.2	0
5	16QAM	12	7	19.25	19.10	19.29		
5	16QAM	12	13	19.30	19.09	19.30		
5	16QAM	25	0	19.03	19.17	18.91		
5	64QAM	1	0	19.22	19.41	19.27	20.2	0
5	64QAM	1	12	19.30	19.24	19.48		
5	64QAM	1	24	19.36	19.37	19.32		
5	64QAM	12	0	19.02	19.36	19.21	20.2	0
5	64QAM	12	7	19.26	19.05	19.30		
5	64QAM	12	13	19.21	19.07	19.25		
5	64QAM	25	0	19.10	19.12	18.91		
5	256QAM	1	0	18.59	18.79	18.75	20	0.2
5	256QAM	1	12	18.53	18.69	18.71		
5	256QAM	1	24	18.58	18.58	18.66		
5	256QAM	12	0	18.54	18.50	18.41	20	0.2
5	256QAM	12	7	18.43	18.61	18.70		
5	256QAM	12	13	18.50	18.52	18.33		
5	256QAM	25	0	18.65	18.67	18.73		
Channel				26055	26340	26675	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1913.5		
3	QPSK	1	0	19.30	19.48	19.32	20.2	0
3	QPSK	1	8	19.36	19.32	19.45		
3	QPSK	1	14	19.42	19.49	19.40		
3	QPSK	8	0	19.16	19.46	19.28	20.2	0
3	QPSK	8	4	19.28	19.16	19.32		
3	QPSK	8	7	19.35	19.19	19.26		
3	QPSK	15	0	19.12	19.23	18.91		
3	16QAM	1	0	19.23	19.46	19.30	20.2	0
3	16QAM	1	8	19.28	19.31	19.46		
3	16QAM	1	14	19.40	19.43	19.36		
3	16QAM	8	0	19.12	19.41	19.24	20.2	0
3	16QAM	8	4	19.22	19.07	19.27		
3	16QAM	8	7	19.30	19.16	19.25		
3	16QAM	15	0	19.09	19.19	18.90		
3	64QAM	1	0	19.18	19.39	19.27	20.2	0
3	64QAM	1	8	19.28	19.26	19.47		
3	64QAM	1	14	19.40	19.40	19.33		
3	64QAM	8	0	19.03	19.38	19.23	20.2	0
3	64QAM	8	4	19.27	19.08	19.23		
3	64QAM	8	7	19.26	19.12	19.28		
3	64QAM	15	0	19.09	19.11	18.91		

3	256QAM	1	0	18.60	18.77	18.77	20	0.2
3	256QAM	1	8	18.60	18.59	18.69		
3	256QAM	1	14	18.56	18.51	18.58		
3	256QAM	8	0	18.55	18.53	18.54	20	0.2
3	256QAM	8	4	18.40	18.56	18.65		
3	256QAM	8	7	18.41	18.40	18.35		
3	256QAM	15	0	18.63	18.50	18.77		
Channel				26047	26340	26683	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1914.3		
1.4	QPSK	1	0	19.27	19.54	19.32	20.2	0
1.4	QPSK	1	3	19.33	19.36	19.51		
1.4	QPSK	1	5	19.45	19.43	19.38		
1.4	QPSK	3	0	19.17	19.43	19.30		
1.4	QPSK	3	1	19.32	19.17	19.33		
1.4	QPSK	3	3	19.32	19.21	19.30		
1.4	QPSK	6	0	19.12	19.19	18.93	20.2	0
1.4	16QAM	1	0	19.26	19.49	19.26	20.2	0
1.4	16QAM	1	3	19.29	19.34	19.42		
1.4	16QAM	1	5	19.38	19.42	19.35		
1.4	16QAM	3	0	19.09	19.41	19.24		
1.4	16QAM	3	1	19.26	19.11	19.26		
1.4	16QAM	3	3	19.35	19.13	19.25		
1.4	16QAM	6	0	19.06	19.12	18.90	20.2	0
1.4	64QAM	1	0	19.22	19.43	19.29	20.2	0
1.4	64QAM	1	3	19.24	19.31	19.45		
1.4	64QAM	1	5	19.35	19.39	19.27		
1.4	64QAM	3	0	19.02	19.43	19.15		
1.4	64QAM	3	1	19.27	19.07	19.23		
1.4	64QAM	3	3	19.27	19.13	19.25		
1.4	64QAM	6	0	19.11	19.18	18.90	20.2	0
1.4	256QAM	1	0	18.73	18.77	18.65	20	0.2
1.4	256QAM	1	3	18.51	18.54	18.63		
1.4	256QAM	1	5	18.46	18.54	18.75		
1.4	256QAM	3	0	18.63	18.59	18.42		
1.4	256QAM	3	1	18.45	18.50	18.70		
1.4	256QAM	3	3	18.48	18.37	18.38		
1.4	256QAM	6	0	18.70	18.64	18.67	20	0.2

Band 66 Ant2 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	19.88	20.09	19.82	20.6	0
20	QPSK	1	49	20.00	20.04	20.02		
20	QPSK	1	99	19.97	19.90	19.95		
20	QPSK	50	0	19.68	20.01	19.83	20.6	0

20	QPSK	50	24	19.85	19.92	19.92		
20	QPSK	50	50	19.87	19.83	19.88		
20	QPSK	100	0	19.62	19.84	19.60		
20	16QAM	1	0	19.73	19.75	19.76	20.6	0
20	16QAM	1	49	19.92	19.78	19.65		
20	16QAM	1	99	19.53	19.49	19.66		
20	16QAM	50	0	19.72	19.58	19.71	20.6	0
20	16QAM	50	24	19.53	19.51	19.57		
20	16QAM	50	50	19.75	19.78	19.77		
20	16QAM	100	0	19.51	19.61	19.66	20.6	0
20	64QAM	1	0	19.80	19.71	19.60		
20	64QAM	1	49	19.64	19.60	19.76		
20	64QAM	1	99	19.66	19.59	19.65	20.6	0
20	64QAM	50	0	19.86	20.00	19.74		
20	64QAM	50	24	19.98	19.95	19.97		
20	64QAM	50	50	19.91	19.86	19.85	20	0.6
20	256QAM	1	0	18.49	18.54	18.46		
20	256QAM	1	49	18.69	18.61	18.61		
20	256QAM	1	99	18.52	18.44	18.35	20	0.6
20	256QAM	50	0	18.60	18.53	18.48		
20	256QAM	50	24	18.65	18.62	18.70		
20	256QAM	50	50	18.53	18.62	18.64	20	0.6
20	256QAM	100	0	18.53	18.58	18.54		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	19.85	20.01	19.73	20.6	0
15	QPSK	1	37	19.90	19.97	19.92		
15	QPSK	1	74	19.90	19.87	19.90		
15	QPSK	36	0	19.62	19.94	19.78	20.6	0
15	QPSK	36	20	19.76	19.87	19.86		
15	QPSK	36	39	19.81	19.78	19.78		
15	QPSK	75	0	19.54	19.74	19.55	20.6	0
15	16QAM	1	0	19.68	19.68	19.67		
15	16QAM	1	37	19.88	19.70	19.61		
15	16QAM	1	74	19.47	19.44	19.60	20.6	0
15	16QAM	36	0	19.67	19.49	19.65		
15	16QAM	36	20	19.49	19.49	19.52		
15	16QAM	36	39	19.68	19.72	19.70	20.6	0
15	16QAM	75	0	19.41	19.56	19.60		
15	64QAM	1	0	19.71	19.65	19.54		
15	64QAM	1	37	19.60	19.56	19.71	20.6	0
15	64QAM	1	74	19.59	19.55	19.56		
15	64QAM	36	0	19.80	19.92	19.69		
15	64QAM	36	20	19.92	19.85	19.90	20.6	0
15	64QAM	36	39	19.88	19.79	19.76		
15	64QAM	75	0	19.51	19.86	19.72		

15	256QAM	1	0	18.40	18.48	18.29	20	0.6
15	256QAM	1	37	18.57	18.43	18.42		
15	256QAM	1	74	18.35	18.25	18.20		
15	256QAM	36	0	18.56	18.50	18.35	20	0.6
15	256QAM	36	20	18.54	18.47	18.58		
15	256QAM	36	39	18.47	18.60	18.59		
15	256QAM	75	0	18.47	18.41	18.47		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	19.78	20.06	19.76	20.6	0
10	QPSK	1	25	19.94	19.96	19.97		
10	QPSK	1	49	19.88	19.80	19.91		
10	QPSK	25	0	19.66	19.98	19.77	20.6	0
10	QPSK	25	12	19.77	19.88	19.84		
10	QPSK	25	25	19.84	19.79	19.78		
10	QPSK	50	0	19.54	19.82	19.53		
10	16QAM	1	0	19.64	19.66	19.70	20.6	0
10	16QAM	1	25	19.84	19.70	19.58		
10	16QAM	1	49	19.49	19.46	19.64		
10	16QAM	25	0	19.66	19.53	19.63	20.6	0
10	16QAM	25	12	19.48	19.42	19.55		
10	16QAM	25	25	19.67	19.70	19.70		
10	16QAM	50	0	19.48	19.54	19.62		
10	64QAM	1	0	19.75	19.68	19.51	20.6	0
10	64QAM	1	25	19.61	19.51	19.69		
10	64QAM	1	49	19.58	19.53	19.57		
10	64QAM	25	0	19.77	19.94	19.69	20.6	0
10	64QAM	25	12	19.94	19.86	19.93		
10	64QAM	25	25	19.89	19.82	19.77		
10	64QAM	50	0	19.50	19.87	19.71		
10	256QAM	1	0	18.30	18.40	18.27	20	0.6
10	256QAM	1	25	18.51	18.56	18.56		
10	256QAM	1	49	18.36	18.42	18.29		
10	256QAM	25	0	18.41	18.42	18.42	20	0.6
10	256QAM	25	12	18.54	18.50	18.61		
10	256QAM	25	25	18.42	18.54	18.57		
10	256QAM	50	0	18.41	18.53	18.42		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	19.82	20.06	19.77	20.6	0
5	QPSK	1	12	19.91	19.99	19.99		
5	QPSK	1	24	19.88	19.80	19.88		
5	QPSK	12	0	19.64	19.92	19.74	20.6	0
5	QPSK	12	7	19.83	19.89	19.88		
5	QPSK	12	13	19.83	19.76	19.83		
5	QPSK	25	0	19.60	19.78	19.54		
5	16QAM	1	0	19.66	19.69	19.71	20.6	0

5	16QAM	1	12	19.86	19.76	19.57		
5	16QAM	1	24	19.45	19.43	19.56		
5	16QAM	12	0	19.65	19.54	19.65		
5	16QAM	12	7	19.45	19.49	19.55	20.6	0
5	16QAM	12	13	19.73	19.72	19.73		
5	16QAM	25	0	19.43	19.57	19.57		
5	64QAM	1	0	19.71	19.64	19.55	20.6	0
5	64QAM	1	12	19.56	19.56	19.74		
5	64QAM	1	24	19.59	19.54	19.58		
5	64QAM	12	0	19.79	19.90	19.70	20.6	0
5	64QAM	12	7	19.89	19.88	19.87		
5	64QAM	12	13	19.84	19.84	19.77		
5	64QAM	25	0	19.53	19.87	19.67	20	0.6
5	256QAM	1	0	18.46	18.37	18.26		
5	256QAM	1	12	18.50	18.46	18.57		
5	256QAM	1	24	18.45	18.32	18.24	20	0.6
5	256QAM	12	0	18.42	18.35	18.43		
5	256QAM	12	7	18.61	18.56	18.59		
5	256QAM	12	13	18.45	18.59	18.58	20	0.6
5	256QAM	25	0	18.41	18.40	18.53		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	19.84	20.04	19.72	20.6	0
3	QPSK	1	8	19.95	19.95	19.94		
3	QPSK	1	14	19.88	19.82	19.86		
3	QPSK	8	0	19.63	19.98	19.81	20.6	0
3	QPSK	8	4	19.75	19.89	19.88		
3	QPSK	8	7	19.82	19.81	19.80		
3	QPSK	15	0	19.53	19.78	19.52	20.6	0
3	16QAM	1	0	19.66	19.73	19.69		
3	16QAM	1	8	19.83	19.69	19.59		
3	16QAM	1	14	19.46	19.46	19.60	20.6	0
3	16QAM	8	0	19.70	19.55	19.65		
3	16QAM	8	4	19.49	19.49	19.48		
3	16QAM	8	7	19.69	19.70	19.70	20.6	0
3	16QAM	15	0	19.41	19.54	19.63		
3	64QAM	1	0	19.77	19.62	19.55		
3	64QAM	1	8	19.55	19.55	19.69	20.6	0
3	64QAM	1	14	19.60	19.56	19.55		
3	64QAM	8	0	19.83	19.94	19.67		
3	64QAM	8	4	19.88	19.90	19.90	20.6	0
3	64QAM	8	7	19.84	19.81	19.77		
3	64QAM	15	0	19.48	19.83	19.70		
3	256QAM	1	0	18.41	18.40	18.41	20	0.6
3	256QAM	1	8	18.55	18.42	18.46		
3	256QAM	1	14	18.33	18.24	18.26		
3	256QAM	8	0	18.53	18.53	18.44	20	0.6

3	256QAM	8	4	18.51	18.59	18.53		
3	256QAM	8	7	18.39	18.55	18.46		
3	256QAM	15	0	18.51	18.58	18.47		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	19.79	20.02	19.76	20.6	0
1.4	QPSK	1	3	19.97	19.95	19.96		
1.4	QPSK	1	5	19.94	19.84	19.89		
1.4	QPSK	3	0	19.59	19.92	19.74		
1.4	QPSK	3	1	19.76	19.88	19.89		
1.4	QPSK	3	3	19.85	19.73	19.81		
1.4	QPSK	6	0	19.55	19.76	19.51	20.6	0
1.4	16QAM	1	0	19.68	19.71	19.66	20.6	0
1.4	16QAM	1	3	19.86	19.69	19.63		
1.4	16QAM	1	5	19.45	19.44	19.59		
1.4	16QAM	3	0	19.64	19.50	19.64		
1.4	16QAM	3	1	19.46	19.45	19.49		
1.4	16QAM	3	3	19.69	19.69	19.68		
1.4	16QAM	6	0	19.48	19.53	19.58	20.6	0
1.4	64QAM	1	0	19.74	19.63	19.52	20.6	0
1.4	64QAM	1	3	19.61	19.54	19.73		
1.4	64QAM	1	5	19.58	19.50	19.58		
1.4	64QAM	3	0	19.78	19.98	19.70		
1.4	64QAM	3	1	19.92	19.90	19.90		
1.4	64QAM	3	3	19.85	19.82	19.79		
1.4	64QAM	6	0	19.49	19.85	19.67	20.6	0
1.4	256QAM	1	0	18.41	18.50	18.52	20	0.6
1.4	256QAM	1	3	18.65	18.49	18.43		
1.4	256QAM	1	5	18.48	18.41	18.49		
1.4	256QAM	3	0	18.50	18.42	18.46		
1.4	256QAM	3	1	18.46	18.50	18.61		
1.4	256QAM	3	3	18.51	18.45	18.52		
1.4	256QAM	6	0	18.41	18.40	18.53	20	0.6

Band 7 Ant3 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	16.75	16.85	16.77	17.9	0
20	QPSK	1	49	16.81	16.78	16.75		
20	QPSK	1	99	16.77	16.82	16.65		
20	QPSK	50	0	16.66	16.78	16.69	17.9	0
20	QPSK	50	24	16.70	16.56	16.71		
20	QPSK	50	50	16.72	16.57	16.63		
20	QPSK	100	0	16.39	16.64	16.47	17.9	0
20	16QAM	1	0	16.57	16.47	16.51		
20	16QAM	1	49	16.53	16.56	16.54		
20	16QAM	1	99	16.30	16.24	16.34	17.9	0
20	16QAM	50	0	16.53	16.22	16.49		
20	16QAM	50	24	16.28	16.31	16.37		
20	16QAM	50	50	16.51	16.42	16.52	17.9	0
20	16QAM	100	0	16.42	16.35	16.47		
20	64QAM	1	0	16.53	16.39	16.26		
20	64QAM	1	49	16.47	16.31	16.51	17.9	0
20	64QAM	1	99	16.47	16.39	16.44		
20	64QAM	50	0	16.38	16.29	16.30		
20	64QAM	50	24	16.51	16.50	16.44	17.9	0
20	64QAM	50	50	16.40	16.38	16.51		
20	64QAM	100	0	16.37	16.28	16.42		
20	256QAM	1	0	16.66	16.79	16.73	17.9	0
20	256QAM	1	49	16.67	16.70	16.65		
20	256QAM	1	99	16.69	16.80	16.58		
20	256QAM	50	0	16.52	16.74	16.61	17.9	0
20	256QAM	50	24	16.60	16.51	16.64		
20	256QAM	50	50	16.59	16.48	16.57		
20	256QAM	100	0	16.32	16.55	16.40	17.9	0
Channel				20825	21100	21375		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	16.72	16.71	16.66	17.9	0
15	QPSK	1	37	16.70	16.68	16.62		
15	QPSK	1	74	16.64	16.75	16.56		
15	QPSK	36	0	16.53	16.76	16.55	17.9	0
15	QPSK	36	20	16.59	16.47	16.63		
15	QPSK	36	39	16.63	16.55	16.53		
15	QPSK	75	0	16.34	16.52	16.45	17.9	0
15	16QAM	1	0	16.45	16.38	16.41		
15	16QAM	1	37	16.47	16.50	16.49		
15	16QAM	1	74	16.19	16.16	16.29	17.9	0

15	16QAM	36	0	16.40	16.18	16.45	17.9	0
15	16QAM	36	20	16.17	16.29	16.25		
15	16QAM	36	39	16.38	16.30	16.49		
15	16QAM	75	0	16.39	16.23	16.41		
15	64QAM	1	0	16.41	16.34	16.18	17.9	0
15	64QAM	1	37	16.43	16.17	16.41		
15	64QAM	1	74	16.41	16.27	16.41		
15	64QAM	36	0	16.31	16.23	16.22	17.9	0
15	64QAM	36	20	16.48	16.39	16.31		
15	64QAM	36	39	16.34	16.27	16.43		
15	64QAM	75	0	16.33	16.25	16.36		
15	256QAM	1	0	16.63	16.75	16.62	17.9	0
15	256QAM	1	37	16.57	16.64	16.61		
15	256QAM	1	74	16.67	16.66	16.45		
15	256QAM	36	0	16.41	16.67	16.48	17.9	0
15	256QAM	36	20	16.53	16.43	16.53		
15	256QAM	36	39	16.46	16.40	16.49		
15	256QAM	75	0	16.22	16.48	16.34		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	16.62	16.79	16.66	17.9	0
10	QPSK	1	25	16.72	16.65	16.63		
10	QPSK	1	49	16.75	16.76	16.62		
10	QPSK	25	0	16.58	16.72	16.57	17.9	0
10	QPSK	25	12	16.61	16.53	16.62		
10	QPSK	25	25	16.66	16.54	16.55		
10	QPSK	50	0	16.34	16.52	16.35		
10	16QAM	1	0	16.49	16.39	16.41	17.9	0
10	16QAM	1	25	16.47	16.49	16.47		
10	16QAM	1	49	16.21	16.13	16.20		
10	16QAM	25	0	16.49	16.17	16.40	17.9	0
10	16QAM	25	12	16.18	16.28	16.35		
10	16QAM	25	25	16.45	16.29	16.46		
10	16QAM	50	0	16.33	16.30	16.40		
10	64QAM	1	0	16.50	16.33	16.20	17.9	0
10	64QAM	1	25	16.45	16.19	16.40		
10	64QAM	1	49	16.37	16.33	16.31		
10	64QAM	25	0	16.34	16.26	16.16	17.9	0
10	64QAM	25	12	16.44	16.47	16.32		
10	64QAM	25	25	16.37	16.32	16.38		
10	64QAM	50	0	16.33	16.21	16.36		
10	256QAM	1	0	16.62	16.71	16.63	17.9	0
10	256QAM	1	25	16.54	16.66	16.63		
10	256QAM	1	49	16.63	16.73	16.54		
10	256QAM	25	0	16.43	16.66	16.53	17.9	0
10	256QAM	25	12	16.50	16.37	16.53		
10	256QAM	25	25	16.52	16.36	16.52		

10	256QAM	50	0	16.19	16.47	16.33		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	16.64	16.77	16.64	17.9	0
5	QPSK	1	12	16.78	16.73	16.71		
5	QPSK	1	24	16.69	16.78	16.57		
5	QPSK	12	0	16.63	16.65	16.65	17.9	0
5	QPSK	12	7	16.58	16.43	16.64		
5	QPSK	12	13	16.60	16.45	16.56		
5	QPSK	25	0	16.29	16.52	16.35	17.9	0
5	16QAM	1	0	16.44	16.38	16.46		
5	16QAM	1	12	16.46	16.51	16.44		
5	16QAM	1	24	16.18	16.17	16.31	17.9	0
5	16QAM	12	0	16.45	16.19	16.45		
5	16QAM	12	7	16.17	16.25	16.24		
5	16QAM	12	13	16.47	16.32	16.46	17.9	0
5	16QAM	25	0	16.36	16.27	16.37		
5	64QAM	1	0	16.44	16.28	16.17		
5	64QAM	1	12	16.39	16.21	16.39	17.9	0
5	64QAM	1	24	16.41	16.29	16.30		
5	64QAM	12	0	16.34	16.17	16.20		
5	64QAM	12	7	16.46	16.47	16.39	17.9	0
5	64QAM	12	13	16.29	16.27	16.39		
5	64QAM	25	0	16.25	16.21	16.39		
5	256QAM	1	0	16.54	16.67	16.62	17.9	0
5	256QAM	1	12	16.61	16.62	16.52		
5	256QAM	1	24	16.59	16.75	16.46		
5	256QAM	12	0	16.47	16.63	16.52	17.9	0
5	256QAM	12	7	16.53	16.45	16.61		
5	256QAM	12	13	16.51	16.39	16.55		
5	256QAM	25	0	16.28	16.45	16.31		

Band 30 Ant3 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				27710				
Frequency (MHz)				2310				
10	QPSK	1	0		18.01		18.9	0
10	QPSK	1	25		17.88			
10	QPSK	1	49		17.96			
10	QPSK	25	0		17.96		18.9	0
10	QPSK	25	12		17.72			
10	QPSK	25	25		17.84			
10	QPSK	50	0		17.67		18.9	0
10	16QAM	1	0		17.97			
10	16QAM	1	25		17.76			

10	16QAM	1	49		17.93			
10	16QAM	25	0		17.87			
10	16QAM	25	12		17.58		18.9	0
10	16QAM	25	25		17.75			
10	16QAM	50	0		17.58			
10	64QAM	1	0		17.92		18.9	0
10	64QAM	1	25		17.82			
10	64QAM	1	49		17.88			
10	64QAM	25	0		17.91		18.9	0
10	64QAM	25	12		17.70			
10	64QAM	25	25		17.72			
10	64QAM	50	0		17.55			
10	256QAM	1	0		17.96		18.9	0
10	256QAM	1	25		17.84			
10	256QAM	1	49		17.87			
10	256QAM	25	0		17.88		18.9	0
10	256QAM	25	12		17.62			
10	256QAM	25	25		17.72			
10	256QAM	50	0		17.65			
Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	0	17.97	17.95	17.87	18.9	0
5	QPSK	1	12	17.76	17.85	17.75		
5	QPSK	1	24	17.93	17.92	17.88		
5	QPSK	12	0	17.91	17.82	17.90	18.9	0
5	QPSK	12	7	17.69	17.66	17.66		
5	QPSK	12	13	17.79	17.81	17.74		
5	QPSK	25	0	17.55	17.58	17.63		
5	16QAM	1	0	17.97	17.98	17.95	18.9	0
5	16QAM	1	12	17.76	17.74	17.83		
5	16QAM	1	24	17.83	17.84	17.91		
5	16QAM	12	0	17.87	17.92	17.82	18.9	0
5	16QAM	12	7	17.64	17.64	17.64		
5	16QAM	12	13	17.72	17.71	17.73		
5	16QAM	25	0	17.62	17.64	17.60		
5	64QAM	1	0	17.91	17.94	17.96	18.9	0
5	64QAM	1	12	17.79	17.83	17.77		
5	64QAM	1	24	17.86	17.85	17.82		
5	64QAM	12	0	17.91	17.91	17.94	18.9	0
5	64QAM	12	7	17.69	17.68	17.64		
5	64QAM	12	13	17.80	17.82	17.79		
5	64QAM	25	0	17.53	17.56	17.60		
5	256QAM	1	0	17.93	17.88	17.95	18.9	0
5	256QAM	1	12	17.81	17.81	17.84		
5	256QAM	1	24	17.88	17.83	17.90		
5	256QAM	12	0	17.90	17.85	17.85	18.9	0
5	256QAM	12	7	17.62	17.69	17.67		

5	256QAM	12	13	17.75	17.73	17.76		
5	256QAM	25	0	17.59	17.58	17.55		

Band 2 Ant5 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	20.67	20.85	20.53	21.7	0
20	QPSK	1	49	20.71	20.80	20.62		
20	QPSK	1	99	20.59	20.69	20.59		
20	QPSK	50	0	20.55	20.81	20.41	21.7	0
20	QPSK	50	24	20.68	20.69	20.50		
20	QPSK	50	50	20.53	20.66	20.49		
20	QPSK	100	0	20.63	20.74	20.50		
20	16QAM	1	0	20.53	20.78	20.49	21.7	0
20	16QAM	1	49	20.58	20.75	20.50		
20	16QAM	1	99	20.46	20.67	20.56		
20	16QAM	50	0	20.62	20.79	20.46	21.7	0
20	16QAM	50	24	20.63	20.73	20.50		
20	16QAM	50	50	20.53	20.62	20.56		
20	16QAM	100	0	20.44	20.76	20.37		
20	64QAM	1	0	20.61	20.67	20.43	21.7	0
20	64QAM	1	49	20.41	20.58	20.46		
20	64QAM	1	99	20.53	20.68	20.45		
20	64QAM	50	0	20.40	20.54	20.40	21.7	0
20	64QAM	50	24	20.37	20.51	20.39		
20	64QAM	50	50	20.42	20.52	20.42		
20	64QAM	100	0	20.45	20.55	20.48		
20	256QAM	1	0	18.48	18.64	18.52	20	1.7
20	256QAM	1	49	18.50	18.57	18.51		
20	256QAM	1	99	18.43	18.56	18.44		
20	256QAM	50	0	18.52	18.58	18.53	20	1.7
20	256QAM	50	24	18.42	18.54	18.39		
20	256QAM	50	50	18.42	18.51	18.41		
20	256QAM	100	0	18.46	18.61	18.49		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	20.60	20.76	20.40	21.7	0
15	QPSK	1	37	20.58	20.72	20.52		
15	QPSK	1	74	20.49	20.61	20.55		
15	QPSK	36	0	20.48	20.72	20.37	21.7	0
15	QPSK	36	20	20.63	20.60	20.46		
15	QPSK	36	39	20.41	20.57	20.41		
15	QPSK	75	0	20.59	20.69	20.47		
15	16QAM	1	0	20.39	20.66	20.37	21.7	0
15	16QAM	1	37	20.47	20.61	20.43		

15	16QAM	1	74	20.42	20.56	20.44		
15	16QAM	36	0	20.52	20.65	20.39	21.7	0
15	16QAM	36	20	20.56	20.64	20.44		
15	16QAM	36	39	20.41	20.55	20.52		
15	16QAM	75	0	20.31	20.63	20.29		
15	64QAM	1	0	20.52	20.53	20.31	21.7	0
15	64QAM	1	37	20.28	20.51	20.41		
15	64QAM	1	74	20.48	20.66	20.32		
15	64QAM	36	0	20.25	20.47	20.33	21.7	0
15	64QAM	36	20	20.33	20.45	20.24		
15	64QAM	36	39	20.27	20.48	20.34		
15	64QAM	75	0	20.38	20.46	20.36		
15	256QAM	1	0	18.35	18.56	18.37	20	1.7
15	256QAM	1	37	18.35	18.53	18.36		
15	256QAM	1	74	18.31	18.42	18.31		
15	256QAM	36	0	18.41	18.47	18.41	20	1.7
15	256QAM	36	20	18.37	18.42	18.23		
15	256QAM	36	39	18.30	18.42	18.26		
15	256QAM	75	0	18.39	18.46	18.35		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	20.60	20.83	20.46	21.7	0
10	QPSK	1	25	20.63	20.69	20.56		
10	QPSK	1	49	20.52	20.57	20.54		
10	QPSK	25	0	20.46	20.73	20.38	21.7	0
10	QPSK	25	12	20.60	20.58	20.37		
10	QPSK	25	25	20.42	20.54	20.47		
10	QPSK	50	0	20.55	20.61	20.48		
10	16QAM	1	0	20.42	20.68	20.43	21.7	0
10	16QAM	1	25	20.47	20.72	20.37		
10	16QAM	1	49	20.39	20.63	20.48		
10	16QAM	25	0	20.51	20.73	20.41	21.7	0
10	16QAM	25	12	20.53	20.66	20.38		
10	16QAM	25	25	20.41	20.58	20.52		
10	16QAM	50	0	20.42	20.62	20.26		
10	64QAM	1	0	20.58	20.60	20.37	21.7	0
10	64QAM	1	25	20.28	20.55	20.34		
10	64QAM	1	49	20.41	20.59	20.35		
10	64QAM	25	0	20.30	20.39	20.36	21.7	0
10	64QAM	25	12	20.33	20.46	20.32		
10	64QAM	25	25	20.27	20.39	20.34		
10	64QAM	50	0	20.38	20.50	20.40		
10	256QAM	1	0	18.38	18.59	18.41	20	1.7
10	256QAM	1	25	18.45	18.44	18.38		
10	256QAM	1	49	18.36	18.44	18.30		
10	256QAM	25	0	18.46	18.53	18.41	20	1.7
10	256QAM	25	12	18.37	18.45	18.32		

10	256QAM	25	25	18.30	18.40	18.37		
10	256QAM	50	0	18.30	18.48	18.41		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	20.54	20.78	20.42	21.7	0
5	QPSK	1	12	20.65	20.68	20.49		
5	QPSK	1	24	20.57	20.64	20.49		
5	QPSK	12	0	20.47	20.69	20.29	21.7	0
5	QPSK	12	7	20.65	20.62	20.45		
5	QPSK	12	13	20.39	20.61	20.38		
5	QPSK	25	0	20.56	20.72	20.39		
5	16QAM	1	0	20.47	20.64	20.40	21.7	0
5	16QAM	1	12	20.45	20.67	20.43		
5	16QAM	1	24	20.39	20.61	20.45		
5	16QAM	12	0	20.57	20.66	20.35	21.7	0
5	16QAM	12	7	20.58	20.66	20.47		
5	16QAM	12	13	20.48	20.57	20.47		
5	16QAM	25	0	20.37	20.64	20.33		
5	64QAM	1	0	20.53	20.58	20.35	21.7	0
5	64QAM	1	12	20.32	20.44	20.33		
5	64QAM	1	24	20.41	20.60	20.41		
5	64QAM	12	0	20.31	20.39	20.34	21.7	0
5	64QAM	12	7	20.28	20.37	20.27		
5	64QAM	12	13	20.36	20.40	20.29		
5	64QAM	25	0	20.38	20.44	20.41		
5	256QAM	1	0	18.44	18.60	18.36	20	1.7
5	256QAM	1	12	18.42	18.44	18.43		
5	256QAM	1	24	18.28	18.51	18.33		
5	256QAM	12	0	18.37	18.47	18.43	20	1.7
5	256QAM	12	7	18.28	18.43	18.25		
5	256QAM	12	13	18.31	18.41	18.35		
5	256QAM	25	0	18.38	18.52	18.33		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	20.54	20.80	20.40	21.7	0
3	QPSK	1	8	20.63	20.71	20.57		
3	QPSK	1	14	20.49	20.66	20.46		
3	QPSK	8	0	20.51	20.79	20.27	21.7	0
3	QPSK	8	4	20.63	20.57	20.40		
3	QPSK	8	7	20.50	20.63	20.44		
3	QPSK	15	0	20.57	20.64	20.39		
3	16QAM	1	0	20.50	20.66	20.46	21.7	0
3	16QAM	1	8	20.54	20.69	20.39		
3	16QAM	1	14	20.37	20.64	20.49		
3	16QAM	8	0	20.51	20.70	20.42	21.7	0
3	16QAM	8	4	20.58	20.69	20.47		
3	16QAM	8	7	20.46	20.58	20.47		

3	16QAM	15	0	20.31	20.66	20.29		
3	64QAM	1	0	20.56	20.59	20.41	21.7	0
3	64QAM	1	8	20.29	20.55	20.37		
3	64QAM	1	14	20.39	20.62	20.39		
3	64QAM	8	0	20.28	20.39	20.34	21.7	0
3	64QAM	8	4	20.31	20.46	20.28		
3	64QAM	8	7	20.37	20.46	20.30		
3	64QAM	15	0	20.33	20.47	20.33		
3	256QAM	1	0	18.39	18.50	18.45	20	1.7
3	256QAM	1	8	18.40	18.46	18.43		
3	256QAM	1	14	18.33	18.46	18.36		
3	256QAM	8	0	18.43	18.50	18.45	20	1.7
3	256QAM	8	4	18.32	18.41	18.30		
3	256QAM	8	7	18.30	18.37	18.35		
3	256QAM	15	0	18.36	18.53	18.42		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	20.55	20.80	20.51	21.7	0
1.4	QPSK	1	3	20.65	20.77	20.59		
1.4	QPSK	1	5	20.56	20.66	20.51		
1.4	QPSK	3	0	20.53	20.76	20.48		
1.4	QPSK	3	1	20.64	20.68	20.59		
1.4	QPSK	3	3	20.53	20.64	20.48		
1.4	QPSK	6	0	20.53	20.71	20.30	21.7	0
1.4	16QAM	1	0	20.61	20.66	20.46	21.7	0
1.4	16QAM	1	3	20.45	20.59	20.36		
1.4	16QAM	1	5	20.60	20.62	20.42		
1.4	16QAM	3	0	20.45	20.73	20.44		
1.4	16QAM	3	1	20.54	20.64	20.42		
1.4	16QAM	3	3	20.40	20.58	20.43		
1.4	16QAM	6	0	20.55	20.73	20.43	21.7	0
1.4	64QAM	1	0	20.55	20.68	20.44	21.7	0
1.4	64QAM	1	3	20.41	20.48	20.48		
1.4	64QAM	1	5	20.40	20.69	20.25		
1.4	64QAM	3	0	20.56	20.60	20.37		
1.4	64QAM	3	1	20.37	20.52	20.41		
1.4	64QAM	3	3	20.39	20.64	20.32		
1.4	64QAM	6	0	20.25	20.50	20.29	21.7	0
1.4	256QAM	1	0	18.32	18.46	18.29	20	1.7
1.4	256QAM	1	3	18.38	18.43	18.37		
1.4	256QAM	1	5	18.40	18.45	18.43		
1.4	256QAM	3	0	18.26	18.44	18.24		
1.4	256QAM	3	1	18.37	18.44	18.37		
1.4	256QAM	3	3	18.41	18.48	18.33		
1.4	256QAM	6	0	18.31	18.51	18.42	20	1.7

Band 4 Ant5 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	20.33	20.60	20.24	21.5	0
20	QPSK	1	49	20.41	20.52	20.31		
20	QPSK	1	99	20.22	20.43	20.16		
20	QPSK	50	0	20.22	20.45	20.12	21.5	0
20	QPSK	50	24	20.34	20.34	20.28		
20	QPSK	50	50	20.16	20.27	20.04		
20	QPSK	100	0	20.23	20.40	20.12	21.5	0
20	16QAM	1	0	20.29	20.30	20.30		
20	16QAM	1	49	20.21	20.33	20.21		
20	16QAM	1	99	20.27	20.47	20.06	21.5	0
20	16QAM	50	0	20.29	20.47	20.15		
20	16QAM	50	24	20.25	20.48	20.16		
20	16QAM	50	50	20.27	20.43	20.28	21.5	0
20	16QAM	100	0	20.17	20.33	20.16		
20	64QAM	1	0	20.21	20.43	20.08		
20	64QAM	1	49	20.21	20.19	20.19	21.5	0
20	64QAM	1	99	20.11	20.22	19.90		
20	64QAM	50	0	20.12	20.19	20.10		
20	64QAM	50	24	20.01	20.24	20.13	21.5	0
20	64QAM	50	50	20.27	20.24	20.12		
20	64QAM	100	0	20.23	20.38	20.35		
20	256QAM	1	0	18.43	18.58	18.36	20	1.5
20	256QAM	1	49	18.45	18.49	18.41		
20	256QAM	1	99	18.37	18.44	18.38		
20	256QAM	50	0	18.47	18.47	18.39	20	1.5
20	256QAM	50	24	18.26	18.40	18.25		
20	256QAM	50	50	18.29	18.39	18.28		
20	256QAM	100	0	18.42	18.50	18.41	21.5	0
Channel				20025	20175	20325		
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	20.22	20.49	20.12	21.5	0
15	QPSK	1	37	20.27	20.41	20.28		
15	QPSK	1	74	20.13	20.34	20.10		
15	QPSK	36	0	20.20	20.40	20.08	21.5	0
15	QPSK	36	20	20.23	20.25	20.21		
15	QPSK	36	39	20.10	20.13	20.02		
15	QPSK	75	0	20.17	20.35	20.02	21.5	0
15	16QAM	1	0	20.18	20.27	20.24		
15	16QAM	1	37	20.17	20.26	20.13		
15	16QAM	1	74	20.21	20.37	19.99	21.5	0
15	16QAM	36	0	20.22	20.35	20.04		

15	16QAM	36	20	20.12	20.40	20.03		
15	16QAM	36	39	20.15	20.36	20.15		
15	16QAM	75	0	20.06	20.31	20.10		
15	64QAM	1	0	20.10	20.31	20.02	21.5	0
15	64QAM	1	37	20.14	20.06	20.14		
15	64QAM	1	74	20.04	20.10	19.85		
15	64QAM	36	0	20.05	20.13	19.97	21.5	0
15	64QAM	36	20	19.95	20.10	20.00		
15	64QAM	36	39	20.19	20.18	20.10		
15	64QAM	75	0	20.20	20.30	20.23	20	1.5
15	256QAM	1	0	18.25	18.41	18.22		
15	256QAM	1	37	18.22	18.45	18.30		
15	256QAM	1	74	18.21	18.38	18.19	20	1.5
15	256QAM	36	0	18.35	18.41	18.34		
15	256QAM	36	20	18.26	18.36	18.09		
15	256QAM	36	39	18.15	18.30	18.21	Tune-up limit (dBm)	MPR (dB)
15	256QAM	75	0	18.24	18.37	18.31		
Channel				20000	20175	20350		
Frequency (MHz)				1715	1732.5	1750	21.5	0
10	QPSK	1	0	20.22	20.48	20.19		
10	QPSK	1	25	20.31	20.42	20.28		
10	QPSK	1	49	20.17	20.38	20.06	21.5	0
10	QPSK	25	0	20.15	20.37	19.99		
10	QPSK	25	12	20.30	20.26	20.16		
10	QPSK	25	25	20.09	20.20	20.00	21.5	0
10	QPSK	50	0	20.14	20.33	20.02		
10	16QAM	1	0	20.19	20.25	20.17		
10	16QAM	1	25	20.17	20.20	20.18	21.5	0
10	16QAM	1	49	20.15	20.34	20.00		
10	16QAM	25	0	20.27	20.35	20.02		
10	16QAM	25	12	20.16	20.41	20.04	21.5	0
10	16QAM	25	25	20.21	20.33	20.24		
10	16QAM	50	0	20.12	20.24	20.08		
10	64QAM	1	0	20.17	20.35	20.04	21.5	0
10	64QAM	1	25	20.13	20.07	20.16		
10	64QAM	1	49	19.98	20.18	19.81		
10	64QAM	25	0	20.00	20.16	20.00	21.5	0
10	64QAM	25	12	19.99	20.11	20.04		
10	64QAM	25	25	20.25	20.20	20.03		
10	64QAM	50	0	20.10	20.24	20.31	20	1.5
10	256QAM	1	0	18.29	18.44	18.26		
10	256QAM	1	25	18.40	18.31	18.23		
10	256QAM	1	49	18.31	18.37	18.19	20	1.5
10	256QAM	25	0	18.34	18.46	18.32		
10	256QAM	25	12	18.29	18.34	18.19		
10	256QAM	25	25	18.22	18.32	18.22	20	1.5
10	256QAM	50	0	18.24	18.37	18.34		

Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	20.26	20.47	20.13	21.5	0
5	QPSK	1	12	20.28	20.48	20.23		
5	QPSK	1	24	20.15	20.32	20.11		
5	QPSK	12	0	20.11	20.33	19.99	21.5	0
5	QPSK	12	7	20.22	20.30	20.22		
5	QPSK	12	13	20.14	20.13	19.93		
5	QPSK	25	0	20.10	20.33	20.01	21.5	0
5	16QAM	1	0	20.22	20.19	20.17		
5	16QAM	1	12	20.13	20.19	20.13		
5	16QAM	1	24	20.16	20.43	19.93	21.5	0
5	16QAM	12	0	20.21	20.34	20.13		
5	16QAM	12	7	20.21	20.38	20.13		
5	16QAM	12	13	20.16	20.30	20.24	21.5	0
5	16QAM	25	0	20.04	20.24	20.03		
5	64QAM	1	0	20.11	20.32	20.01		
5	64QAM	1	12	20.12	20.09	20.12	21.5	0
5	64QAM	1	24	20.08	20.19	19.87		
5	64QAM	12	0	19.98	20.15	19.96		
5	64QAM	12	7	19.88	20.11	20.05	21.5	0
5	64QAM	12	13	20.22	20.19	20.09		
5	64QAM	25	0	20.13	20.29	20.31		
5	256QAM	1	0	18.34	18.55	18.25	20	1.5
5	256QAM	1	12	18.34	18.29	18.29		
5	256QAM	1	24	18.24	18.45	18.21		
5	256QAM	12	0	18.28	18.32	18.32	20	1.5
5	256QAM	12	7	18.22	18.32	18.12		
5	256QAM	12	13	18.24	18.27	18.20		
5	256QAM	25	0	18.23	18.46	18.17	20	1.5
Channel				19965	20175	20385		
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	20.21	20.50	20.15	21.5	0
3	QPSK	1	8	20.31	20.47	20.23		
3	QPSK	1	14	20.13	20.32	20.02		
3	QPSK	8	0	20.11	20.36	20.00	21.5	0
3	QPSK	8	4	20.23	20.29	20.26		
3	QPSK	8	7	20.08	20.18	20.00		
3	QPSK	15	0	20.14	20.27	20.01	21.5	0
3	16QAM	1	0	20.27	20.23	20.18		
3	16QAM	1	8	20.09	20.25	20.09		
3	16QAM	1	14	20.16	20.34	19.94	21.5	0
3	16QAM	8	0	20.22	20.41	20.04		
3	16QAM	8	4	20.21	20.37	20.10		
3	16QAM	8	7	20.19	20.39	20.26	21.5	0
3	16QAM	15	0	20.15	20.28	20.05		
3	64QAM	1	0	20.14	20.31	20.00		

3	64QAM	1	8	20.12	20.07	20.13		
3	64QAM	1	14	20.02	20.13	19.80		
3	64QAM	8	0	20.06	20.11	20.08		
3	64QAM	8	4	19.91	20.11	20.09	21.5	0
3	64QAM	8	7	20.20	20.17	20.01		
3	64QAM	15	0	20.09	20.34	20.30		
3	256QAM	1	0	18.33	18.35	18.33	20	1.5
3	256QAM	1	8	18.27	18.36	18.33		
3	256QAM	1	14	18.25	18.34	18.24		
3	256QAM	8	0	18.38	18.41	18.35	20	1.5
3	256QAM	8	4	18.25	18.36	18.25		
3	256QAM	8	7	18.23	18.24	18.31		
3	256QAM	15	0	18.23	18.48	18.31		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	20.27	20.52	20.20	21.5	0
1.4	QPSK	1	3	20.36	20.41	20.23		
1.4	QPSK	1	5	20.12	20.38	20.10		
1.4	QPSK	3	0	20.15	20.34	20.04		
1.4	QPSK	3	1	20.28	20.31	20.24		
1.4	QPSK	3	3	20.03	20.18	19.98		
1.4	QPSK	6	0	20.17	20.27	20.03	21.5	0
1.4	16QAM	1	0	20.22	20.19	20.23	21.5	0
1.4	16QAM	1	3	20.16	20.28	20.16		
1.4	16QAM	1	5	20.19	20.44	19.93		
1.4	16QAM	3	0	20.27	20.39	20.03		
1.4	16QAM	3	1	20.17	20.38	20.02		
1.4	16QAM	3	3	20.15	20.33	20.23		
1.4	16QAM	6	0	20.03	20.30	20.14	21.5	0
1.4	64QAM	1	0	20.10	20.39	19.98	21.5	0
1.4	64QAM	1	3	20.15	20.10	20.10		
1.4	64QAM	1	5	20.01	20.17	19.80		
1.4	64QAM	3	0	20.09	20.11	20.03		
1.4	64QAM	3	1	19.92	20.19	20.04		
1.4	64QAM	3	3	20.25	20.18	19.99		
1.4	64QAM	6	0	20.14	20.30	20.31	21.5	0
1.4	256QAM	1	0	18.27	18.35	18.18	20	1.5
1.4	256QAM	1	3	18.23	18.35	18.26		
1.4	256QAM	1	5	18.32	18.34	18.37		
1.4	256QAM	3	0	18.14	18.32	18.15		
1.4	256QAM	3	1	18.30	18.36	18.26		
1.4	256QAM	3	3	18.32	18.38	18.20		
1.4	256QAM	6	0	18.19	18.40	18.37	20	1.5

Band 66 Ant5 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	20.43	20.65	20.28	21.5	0
20	QPSK	1	49	20.48	20.55	20.37		
20	QPSK	1	99	20.30	20.47	20.29		
20	QPSK	50	0	20.30	20.53	20.15	21.5	0
20	QPSK	50	24	20.37	20.46	20.34		
20	QPSK	50	50	20.27	20.38	20.16		
20	QPSK	100	0	20.30	20.51	20.17	21.5	0
20	16QAM	1	0	20.42	20.44	20.35		
20	16QAM	1	49	20.23	20.39	20.25		
20	16QAM	1	99	20.31	20.53	20.16	21.5	0
20	16QAM	50	0	20.38	20.55	20.23		
20	16QAM	50	24	20.30	20.59	20.25		
20	16QAM	50	50	20.36	20.52	20.34	21.5	0
20	16QAM	100	0	20.20	20.42	20.23		
20	64QAM	1	0	20.26	20.45	20.13		
20	64QAM	1	49	20.34	20.33	20.27	21.5	0
20	64QAM	1	99	20.24	20.26	20.04		
20	64QAM	50	0	20.19	20.33	20.17		
20	64QAM	50	24	20.10	20.31	20.25	21.5	0
20	64QAM	50	50	20.29	20.33	20.21		
20	64QAM	100	0	20.32	20.42	20.37		
20	256QAM	1	0	18.38	18.42	18.30	20	1.5
20	256QAM	1	49	18.39	18.43	18.34		
20	256QAM	1	99	18.30	18.31	18.23		
20	256QAM	50	0	18.34	18.32	18.27	20	1.5
20	256QAM	50	24	18.14	18.35	18.14		
20	256QAM	50	50	18.19	18.26	18.21		
20	256QAM	100	0	18.37	18.36	18.29	21.5	0
Channel				132047	132322	132597		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	20.37	20.59	20.16	21.5	0
15	QPSK	1	37	20.36	20.48	20.25		
15	QPSK	1	74	20.22	20.35	20.25		
15	QPSK	36	0	20.18	20.40	20.09	21.5	0
15	QPSK	36	20	20.29	20.43	20.29		
15	QPSK	36	39	20.22	20.28	20.13		
15	QPSK	75	0	20.21	20.40	20.08	21.5	0
15	16QAM	1	0	20.35	20.34	20.26		
15	16QAM	1	37	20.20	20.32	20.20		
15	16QAM	1	74	20.22	20.44	20.08	21.5	0
15	16QAM	36	0	20.25	20.50	20.15		

15	16QAM	36	20	20.20	20.56	20.12		
15	16QAM	36	39	20.25	20.40	20.31		
15	16QAM	75	0	20.08	20.34	20.13		
15	64QAM	1	0	20.17	20.31	20.01	21.5	0
15	64QAM	1	37	20.31	20.21	20.14		
15	64QAM	1	74	20.11	20.21	19.93		
15	64QAM	36	0	20.15	20.22	20.18	21.5	0
15	64QAM	36	20	20.14	20.21	20.03		
15	64QAM	36	39	20.09	20.28	20.14		
15	64QAM	75	0	20.15	20.20	20.15	20	1.5
15	256QAM	1	0	18.12	18.35	18.11		
15	256QAM	1	37	18.14	18.33	18.21		
15	256QAM	1	74	18.15	18.30	18.04	20	1.5
15	256QAM	36	0	18.28	18.28	18.21		
15	256QAM	36	20	18.15	18.29	18.29		
15	256QAM	36	39	18.06	18.25	18.07	Tune-up limit (dBm)	MPR (dB)
15	256QAM	75	0	18.19	18.32	18.26		
Channel				132022	132322	132622		
Frequency (MHz)				1715	1745	1775	21.5	0
10	QPSK	1	0	20.31	20.60	20.15		
10	QPSK	1	25	20.43	20.45	20.34		
10	QPSK	1	49	20.20	20.43	20.22	21.5	0
10	QPSK	25	0	20.24	20.51	20.10		
10	QPSK	25	12	20.29	20.41	20.27		
10	QPSK	25	25	20.25	20.35	20.06	21.5	0
10	QPSK	50	0	20.26	20.39	20.06		
10	16QAM	1	0	20.32	20.37	20.24		
10	16QAM	1	25	20.20	20.29	20.22	21.5	0
10	16QAM	1	49	20.22	20.43	20.11		
10	16QAM	25	0	20.36	20.48	20.11		
10	16QAM	25	12	20.20	20.49	20.17	21.5	0
10	16QAM	25	25	20.26	20.41	20.27		
10	16QAM	50	0	20.17	20.32	20.14		
10	64QAM	1	0	20.12	20.34	20.02	21.5	0
10	64QAM	1	25	20.23	20.23	20.18		
10	64QAM	1	49	20.17	20.22	19.92		
10	64QAM	25	0	20.03	20.09	20.07	21.5	0
10	64QAM	25	12	20.11	20.17	20.14		
10	64QAM	25	25	20.00	20.20	20.17		
10	64QAM	50	0	20.17	20.22	20.18	20	1.5
10	256QAM	1	0	18.18	18.40	18.13		
10	256QAM	1	25	18.30	18.18	18.10		
10	256QAM	1	49	18.18	18.28	18.07	20	1.5
10	256QAM	25	0	18.24	18.34	18.22		
10	256QAM	25	12	18.14	18.27	18.04		
10	256QAM	25	25	18.14	18.25	18.11	20	1.5
10	256QAM	50	0	18.14	18.21	18.26		

Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	20.29	20.59	20.21	21.5	0
5	QPSK	1	12	20.46	20.46	20.30		
5	QPSK	1	24	20.20	20.45	20.22		
5	QPSK	12	0	20.18	20.46	20.11	21.5	0
5	QPSK	12	7	20.29	20.36	20.26		
5	QPSK	12	13	20.23	20.30	20.06		
5	QPSK	25	0	20.23	20.41	20.11	21.5	0
5	16QAM	1	0	20.40	20.31	20.22		
5	16QAM	1	12	20.20	20.33	20.23		
5	16QAM	1	24	20.23	20.47	20.10	21.5	0
5	16QAM	12	0	20.33	20.41	20.17		
5	16QAM	12	7	20.27	20.49	20.15		
5	16QAM	12	13	20.33	20.38	20.24	21.5	0
5	16QAM	25	0	20.16	20.36	20.16		
5	64QAM	1	0	20.23	20.36	20.09		
5	64QAM	1	12	20.30	20.24	20.23	21.5	0
5	64QAM	1	24	20.11	20.20	19.97		
5	64QAM	12	0	20.07	20.16	20.21		
5	64QAM	12	7	20.12	20.23	20.07	21.5	0
5	64QAM	12	13	20.17	20.14	20.05		
5	64QAM	25	0	20.17	20.22	20.25		
5	256QAM	1	0	18.22	18.40	18.19	20	1.5
5	256QAM	1	12	18.26	18.21	18.19		
5	256QAM	1	24	18.17	18.41	18.08		
5	256QAM	12	0	18.18	18.17	18.25	20	1.5
5	256QAM	12	7	18.14	18.28	18.01		
5	256QAM	12	13	18.14	18.18	18.07		
5	256QAM	25	0	18.11	18.41	18.11	20	1.5
Channel				131987	132322	132657		
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	20.34	20.57	20.23	21.5	0
3	QPSK	1	8	20.38	20.52	20.33		
3	QPSK	1	14	20.23	20.44	20.27		
3	QPSK	8	0	20.18	20.40	20.10	21.5	0
3	QPSK	8	4	20.33	20.42	20.27		
3	QPSK	8	7	20.23	20.33	20.09		
3	QPSK	15	0	20.19	20.39	20.10	21.5	0
3	16QAM	1	0	20.38	20.36	20.25		
3	16QAM	1	8	20.10	20.37	20.13		
3	16QAM	1	14	20.21	20.44	20.09	21.5	0
3	16QAM	8	0	20.27	20.50	20.16		
3	16QAM	8	4	20.20	20.50	20.20		
3	16QAM	8	7	20.26	20.42	20.21	21.5	0
3	16QAM	15	0	20.09	20.36	20.09		
3	64QAM	1	0	20.12	20.40	20.04		

3	64QAM	1	8	20.32	20.30	20.22		
3	64QAM	1	14	20.16	20.18	19.95		
3	64QAM	8	0	20.01	20.23	20.10		
3	64QAM	8	4	20.16	20.24	20.06	21.5	0
3	64QAM	8	7	20.19	20.25	20.13		
3	64QAM	15	0	20.08	20.19	20.17		
3	256QAM	1	0	18.20	18.28	18.25	20	1.5
3	256QAM	1	8	18.11	18.22	18.22		
3	256QAM	1	14	18.18	18.24	18.12		
3	256QAM	8	0	18.27	18.29	18.20	20	1.5
3	256QAM	8	4	18.15	18.22	18.12		
3	256QAM	8	7	18.15	18.09	18.24		
3	256QAM	15	0	18.12	18.36	18.16		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	20.30	20.60	20.26	21.5	0
1.4	QPSK	1	3	20.36	20.52	20.32		
1.4	QPSK	1	5	20.19	20.40	20.26		
1.4	QPSK	3	0	20.37	20.52	20.19		
1.4	QPSK	3	1	20.36	20.42	20.31		
1.4	QPSK	3	3	20.23	20.37	20.24		
1.4	QPSK	6	0	20.20	20.49	20.11	21.5	0
1.4	16QAM	1	0	20.34	20.36	20.25	21.5	0
1.4	16QAM	1	3	20.19	20.28	20.09		
1.4	16QAM	1	5	20.19	20.48	20.05		
1.4	16QAM	3	0	20.29	20.40	20.24		
1.4	16QAM	3	1	20.16	20.35	20.16		
1.4	16QAM	3	3	20.23	20.43	20.14		
1.4	16QAM	6	0	20.33	20.42	20.14	21.5	0
1.4	64QAM	1	0	20.25	20.48	20.16	21.5	0
1.4	64QAM	1	3	20.26	20.42	20.26		
1.4	64QAM	1	5	20.14	20.34	20.15		
1.4	64QAM	3	0	20.24	20.41	20.06		
1.4	64QAM	3	1	20.20	20.22	20.16		
1.4	64QAM	3	3	20.11	20.16	19.91		
1.4	64QAM	6	0	20.08	20.39	20.18	21.5	0
1.4	256QAM	1	0	18.41	18.49	18.38	20	1.5
1.4	256QAM	1	3	18.41	18.53	18.49		
1.4	256QAM	1	5	18.55	18.49	18.56		
1.4	256QAM	3	0	18.30	18.55	18.31		
1.4	256QAM	3	1	18.51	18.54	18.48		
1.4	256QAM	3	3	18.54	18.59	18.38		
1.4	256QAM	6	0	18.44	18.58	18.52	20	1.5

Reduced Power Mode for DSI 5

Band 5 Ant0 DSI5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	23.00	23.10	23.09	24.5	0
10	QPSK	1	25	23.05	23.05	23.05		
10	QPSK	1	49	23.09	23.05	23.01		
10	QPSK	25	0	22.78	22.83	22.81	24	0.5
10	QPSK	25	12	22.62	22.61	22.51		
10	QPSK	25	25	22.73	22.71	22.71		
10	QPSK	50	0	22.75	22.81	22.80	24	0.5
10	16QAM	1	0	23.05	23.07	23.08		
10	16QAM	1	25	22.87	22.94	22.89		
10	16QAM	1	49	22.97	22.91	23.01	23	1.5
10	16QAM	25	0	21.81	21.78	21.71		
10	16QAM	25	12	21.58	21.61	21.63		
10	16QAM	25	25	21.77	21.72	21.65	23	1.5
10	16QAM	50	0	21.65	21.65	21.62		
10	64QAM	1	0	21.84	21.80	21.73		
10	64QAM	1	25	21.90	21.81	21.83	22	2.5
10	64QAM	1	49	21.76	21.76	21.75		
10	64QAM	25	0	21.91	21.82	21.72		
10	64QAM	25	12	21.79	21.76	21.78	20	4.5
10	64QAM	25	25	21.70	21.69	21.70		
10	64QAM	50	0	21.71	21.74	21.76		
10	256QAM	1	0	18.64	18.67	18.64	20	4.5
10	256QAM	1	25	18.51	18.61	18.65		
10	256QAM	1	49	18.52	18.54	18.62		
10	256QAM	25	0	18.74	18.76	18.66	20	4.5
10	256QAM	25	12	18.61	18.69	18.76		
10	256QAM	25	25	18.71	18.71	18.80		
10	256QAM	50	0	18.62	18.65	18.61	23	1.5
Channel				20425	20525	20625		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	23.05	23.05	22.98	24.5	0
5	QPSK	1	12	23.05	23.06	23.03		
5	QPSK	1	24	23.06	22.98	23.02		
5	QPSK	12	0	22.79	22.64	22.73	24	0.5
5	QPSK	12	7	22.57	22.49	22.35		
5	QPSK	12	13	22.61	22.60	22.61		
5	QPSK	25	0	22.59	22.68	22.68	24	0.5
5	16QAM	1	0	22.95	23.02	22.95		
5	16QAM	1	12	22.76	22.87	22.76		
5	16QAM	1	24	22.94	22.88	22.89	23	1.5
5	16QAM	12	0	21.67	21.62	21.69		

5	16QAM	12	7	21.43	21.53	21.45		
5	16QAM	12	13	21.60	21.60	21.61		
5	16QAM	25	0	21.61	21.47	21.56		
5	64QAM	1	0	21.79	21.67	21.63	23	1.5
5	64QAM	1	12	21.80	21.70	21.67		
5	64QAM	1	24	21.66	21.65	21.63		
5	64QAM	12	0	21.81	21.68	21.59	22	2.5
5	64QAM	12	7	21.65	21.63	21.66		
5	64QAM	12	13	21.52	21.65	21.66		
5	64QAM	25	0	21.61	21.61	21.61		
5	256QAM	1	0	18.50	18.65	18.47	20	4.5
5	256QAM	1	12	18.41	18.56	18.56		
5	256QAM	1	24	18.48	18.40	18.56		
5	256QAM	12	0	18.70	18.67	18.53	20	4.5
5	256QAM	12	7	18.56	18.63	18.62		
5	256QAM	12	13	18.69	18.56	18.66		
5	256QAM	25	0	18.53	18.49	18.54		
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	23.00	23.05	23.08	24.5	0
3	QPSK	1	8	23.01	23.08	22.98		
3	QPSK	1	14	23.05	23.00	23.03		
3	QPSK	8	0	22.80	22.72	22.72	24	0.5
3	QPSK	8	4	22.59	22.47	22.40		
3	QPSK	8	7	22.63	22.62	22.59		
3	QPSK	15	0	22.67	22.68	22.64		
3	16QAM	1	0	23.01	22.95	22.92	24	0.5
3	16QAM	1	8	22.69	22.80	22.76		
3	16QAM	1	14	22.92	22.81	22.96		
3	16QAM	8	0	21.63	21.68	21.60	23	1.5
3	16QAM	8	4	21.42	21.55	21.50		
3	16QAM	8	7	21.63	21.66	21.57		
3	16QAM	15	0	21.53	21.49	21.58		
3	64QAM	1	0	21.79	21.71	21.57	23	1.5
3	64QAM	1	8	21.87	21.73	21.69		
3	64QAM	1	14	21.65	21.64	21.68		
3	64QAM	8	0	21.88	21.74	21.57	22	2.5
3	64QAM	8	4	21.61	21.67	21.63		
3	64QAM	8	7	21.55	21.66	21.58		
3	64QAM	15	0	21.62	21.67	21.72		
3	256QAM	1	0	18.58	18.60	18.57	20	4.5
3	256QAM	1	8	18.37	18.57	18.53		
3	256QAM	1	14	18.36	18.37	18.52		
3	256QAM	8	0	18.65	18.66	18.49	20	4.5
3	256QAM	8	4	18.46	18.52	18.62		
3	256QAM	8	7	18.59	18.62	18.71		
3	256QAM	15	0	18.56	18.53	18.49		

Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	23.06	23.05	23.01	24.5	0
1.4	QPSK	1	3	23.06	23.04	23.07		
1.4	QPSK	1	5	23.01	22.92	22.98		
1.4	QPSK	3	0	23.04	23.06	23.02		
1.4	QPSK	3	1	23.06	23.03	23.03		
1.4	QPSK	3	3	23.01	23.02	22.98		
1.4	QPSK	6	0	22.71	22.68	22.69	24	0.5
1.4	16QAM	1	0	22.48	22.54	22.46	24	0.5
1.4	16QAM	1	3	22.64	22.60	22.60		
1.4	16QAM	1	5	22.60	22.59	22.68		
1.4	16QAM	3	0	22.99	22.90	23.06		
1.4	16QAM	3	1	22.81	22.92	22.73		
1.4	16QAM	3	3	22.82	22.87	22.91		
1.4	16QAM	6	0	21.64	21.62	21.66	23	1.5
1.4	64QAM	1	0	21.52	21.53	21.52	23	1.5
1.4	64QAM	1	3	21.62	21.69	21.56		
1.4	64QAM	1	5	21.61	21.62	21.50		
1.4	64QAM	3	0	21.81	21.72	21.56		
1.4	64QAM	3	1	21.87	21.68	21.67		
1.4	64QAM	3	3	21.65	21.69	21.62		
1.4	64QAM	6	0	21.82	21.73	21.66	22	2.5
1.4	256QAM	1	0	18.44	18.59	18.67	20	4.5
1.4	256QAM	1	3	18.55	18.59	18.76		
1.4	256QAM	1	5	18.51	18.59	18.56		
1.4	256QAM	3	0	18.52	18.58	18.51		
1.4	256QAM	3	1	18.45	18.52	18.61		
1.4	256QAM	3	3	18.61	18.58	18.68		
1.4	256QAM	6	0	18.47	18.51	18.54	20	4.5

Band 12 Ant0 DSI5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	23.65	23.89	23.76	25	0
10	QPSK	1	25	23.79	23.84	23.84		
10	QPSK	1	49	23.85	23.79	23.76		
10	QPSK	25	0	22.77	22.85	22.83	24	1
10	QPSK	25	12	22.73	22.80	22.80		
10	QPSK	25	25	22.69	22.73	22.75		
10	QPSK	50	0	22.64	22.81	22.73		
10	16QAM	1	0	23.28	23.22	23.14	24	1
10	16QAM	1	25	23.03	23.04	23.01		
10	16QAM	1	49	23.15	23.13	23.07		
10	16QAM	25	0	21.72	21.70	21.72	23	2

10	16QAM	25	12	21.50	21.56	21.53		
10	16QAM	25	25	21.59	21.69	21.71		
10	16QAM	50	0	21.45	21.53	21.43		
10	64QAM	1	0	22.11	22.16	22.25	23	2
10	64QAM	1	25	22.16	22.12	22.22		
10	64QAM	1	49	22.15	22.09	22.04		
10	64QAM	25	0	20.72	20.74	20.83	22	3
10	64QAM	25	12	20.78	20.73	20.66		
10	64QAM	25	25	20.84	20.85	20.91		
10	64QAM	50	0	20.80	20.79	20.79		
10	256QAM	1	0	19.41	19.34	19.38	20	5
10	256QAM	1	25	19.20	19.29	19.32		
10	256QAM	1	49	19.41	19.40	19.31		
10	256QAM	25	0	18.88	18.94	19.00	20	5
10	256QAM	25	12	18.90	18.85	18.75		
10	256QAM	25	25	18.97	18.87	18.94		
10	256QAM	50	0	18.82	18.87	18.95		
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	23.60	23.76	23.67	25	0
5	QPSK	1	12	23.64	23.75	23.70		
5	QPSK	1	24	23.79	23.71	23.59		
5	QPSK	12	0	22.69	22.63	22.80	24	1
5	QPSK	12	7	22.70	22.70	22.71		
5	QPSK	12	13	22.64	22.60	22.63		
5	QPSK	25	0	22.59	22.60	22.71		
5	16QAM	1	0	23.24	23.08	23.04	24	1
5	16QAM	1	12	22.87	22.86	22.99		
5	16QAM	1	24	23.05	23.07	22.94		
5	16QAM	12	0	21.61	21.61	21.55	23	2
5	16QAM	12	7	21.41	21.54	21.45		
5	16QAM	12	13	21.55	21.58	21.59		
5	16QAM	25	0	21.40	21.49	21.40		
5	64QAM	1	0	22.03	22.01	22.15	23	2
5	64QAM	1	12	22.07	21.98	22.14		
5	64QAM	1	24	22.12	22.05	21.99		
5	64QAM	12	0	20.66	20.58	20.68	22	3
5	64QAM	12	7	20.66	20.57	20.61		
5	64QAM	12	13	20.66	20.82	20.75		
5	64QAM	25	0	20.65	20.76	20.66		
5	256QAM	1	0	19.31	19.19	19.21	20	5
5	256QAM	1	12	19.13	19.15	19.27		
5	256QAM	1	24	19.32	19.24	19.24		
5	256QAM	12	0	18.82	18.84	18.96	20	5
5	256QAM	12	7	18.77	18.78	18.59		
5	256QAM	12	13	18.92	18.81	18.86		
5	256QAM	25	0	18.66	18.73	18.77		

Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	23.48	23.71	23.70	25	0
3	QPSK	1	8	23.74	23.68	23.66		
3	QPSK	1	14	23.73	23.63	23.61		
3	QPSK	8	0	22.71	22.65	22.72	24	1
3	QPSK	8	4	22.62	22.74	22.76		
3	QPSK	8	7	22.52	22.70	22.58		
3	QPSK	15	0	22.56	22.55	22.61	24	1
3	16QAM	1	0	23.16	23.04	23.09		
3	16QAM	1	8	22.86	22.96	22.99		
3	16QAM	1	14	23.13	22.95	22.96	23	2
3	16QAM	8	0	21.66	21.55	21.56		
3	16QAM	8	4	21.36	21.45	21.46		
3	16QAM	8	7	21.46	21.56	21.57	22	3
3	16QAM	15	0	21.37	21.48	21.36		
3	64QAM	1	0	21.98	22.10	22.18		
3	64QAM	1	8	22.08	22.10	22.19	23	2
3	64QAM	1	14	21.97	22.01	21.99		
3	64QAM	8	0	20.67	20.61	20.66		
3	64QAM	8	4	20.62	20.58	20.55	22	3
3	64QAM	8	7	20.75	20.79	20.76		
3	64QAM	15	0	20.76	20.68	20.63		
3	256QAM	1	0	19.31	19.29	19.34	20	5
3	256QAM	1	8	19.10	19.17	19.16		
3	256QAM	1	14	19.38	19.23	19.13		
3	256QAM	8	0	18.80	18.90	18.95	20	5
3	256QAM	8	4	18.88	18.69	18.71		
3	256QAM	8	7	18.82	18.84	18.87		
3	256QAM	15	0	18.77	18.76	18.85	20	5
3	256QAM	15	0	18.77	18.76	18.85		
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	23.60	23.73	23.63	25	0
1.4	QPSK	1	3	23.72	23.74	23.73		
1.4	QPSK	1	5	23.76	23.71	23.69		
1.4	QPSK	3	0	23.49	23.79	23.58		
1.4	QPSK	3	1	23.71	23.81	23.75		
1.4	QPSK	3	3	23.76	23.69	23.69	24	1
1.4	QPSK	6	0	22.62	22.59	22.72		
1.4	16QAM	1	0	22.60	22.68	22.65	24	1
1.4	16QAM	1	3	22.52	22.65	22.61		
1.4	16QAM	1	5	22.51	22.58	22.55		
1.4	16QAM	3	0	23.25	23.10	22.99		
1.4	16QAM	3	1	22.99	22.94	22.99		
1.4	16QAM	3	3	23.03	22.98	23.01	23	2
1.4	16QAM	6	0	21.68	21.66	21.55		
1.4	64QAM	1	0	21.46	21.40	21.42	23	2



1.4	64QAM	1	3	21.48	21.52	21.63		
1.4	64QAM	1	5	21.42	21.45	21.36		
1.4	64QAM	3	0	22.03	22.06	22.08		
1.4	64QAM	3	1	22.02	21.99	22.06		
1.4	64QAM	3	3	22.06	21.92	21.96		
1.4	64QAM	6	0	20.57	20.58	20.77	22	3
1.4	256QAM	1	0	19.31	19.21	19.21	20	5
1.4	256QAM	1	3	19.11	19.18	19.27		
1.4	256QAM	1	5	19.23	19.33	19.18		
1.4	256QAM	3	0	18.70	18.85	18.97		
1.4	256QAM	3	1	18.81	18.67	18.73		
1.4	256QAM	3	3	18.82	18.84	18.88	20	5
1.4	256QAM	6	0	18.65	18.73	18.77		

Band 13 Ant0 DSI5

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23230				
Frequency (MHz)				782				
10	QPSK	1	0		23.71		25	0
10	QPSK	1	25		23.67			
10	QPSK	1	49		23.57			
10	QPSK	25	0		22.71		24	1
10	QPSK	25	12		22.63			
10	QPSK	25	25		22.58			
10	QPSK	50	0		22.59		24	1
10	16QAM	1	0		22.89			
10	16QAM	1	25		23.06			
10	16QAM	1	49		23.07		23	2
10	16QAM	25	0		21.64			
10	16QAM	25	12		21.80			
10	16QAM	25	25		21.82		23	2
10	16QAM	50	0		21.78			
10	64QAM	1	0		22.05			
10	64QAM	1	25		22.12		23	2
10	64QAM	1	49		22.08			
10	64QAM	25	0		20.66			
10	64QAM	25	12		20.89		22	3
10	64QAM	25	25		20.87			
10	64QAM	50	0		20.68			
10	256QAM	1	0		18.75		20	5
10	256QAM	1	25		18.61			
10	256QAM	1	49		18.57			
10	256QAM	25	0		18.75		20	5
10	256QAM	25	12		18.88			

10	256QAM	25	25		18.85			
10	256QAM	50	0		18.87			
Channel				23205	23230	23255	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				779.5	782	784.5		
5	QPSK	1	0	23.52	23.65	23.39	25	0
5	QPSK	1	12	23.35	23.59	23.49		
5	QPSK	1	24	23.25	23.44	23.40		
5	QPSK	12	0	22.52	22.63	22.36	24	1
5	QPSK	12	7	22.52	22.49	22.45		
5	QPSK	12	13	22.38	22.42	22.33		
5	QPSK	25	0	22.47	22.44	22.36		
5	16QAM	1	0	22.66	22.80	22.69	24	1
5	16QAM	1	12	22.93	23.03	22.99		
5	16QAM	1	24	22.96	23.05	22.74		
5	16QAM	12	0	21.31	21.61	21.44	23	2
5	16QAM	12	7	21.61	21.68	21.55		
5	16QAM	12	13	21.71	21.75	21.61		
5	16QAM	25	0	21.56	21.68	21.64		
5	64QAM	1	0	21.74	21.94	21.92	23	2
5	64QAM	1	12	21.88	22.06	21.93		
5	64QAM	1	24	21.79	21.98	21.86		
5	64QAM	12	0	20.41	20.59	20.38	22	3
5	64QAM	12	7	20.60	20.81	20.83		
5	64QAM	12	13	20.55	20.80	20.68		
5	64QAM	25	0	20.45	20.53	20.46		
5	256QAM	1	0	18.49	18.70	18.55	20	5
5	256QAM	1	12	18.39	18.54	18.53		
5	256QAM	1	24	18.38	18.42	18.35		
5	256QAM	12	0	18.44	18.62	18.62	20	5
5	256QAM	12	7	18.67	18.78	18.80		
5	256QAM	12	13	18.60	18.78	18.55		
5	256QAM	25	0	18.52	18.78	18.56		

Band 14 Ant0 DSI5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23330				
Frequency (MHz)				793				
10	QPSK	1	0		23.83		25	0
10	QPSK	1	25		23.76			
10	QPSK	1	49		23.79			
10	QPSK	25	0		22.82		24	1
10	QPSK	25	12		22.67			
10	QPSK	25	25		22.78			
10	QPSK	50	0		22.80			

10	16QAM	1	0		23.12		24	1
10	16QAM	1	25		23.24			
10	16QAM	1	49		23.04			
10	16QAM	25	0		21.80		23	2
10	16QAM	25	12		21.90			
10	16QAM	25	25		21.82			
10	16QAM	50	0		21.86			
10	64QAM	1	0		21.73		23	2
10	64QAM	1	25		21.72			
10	64QAM	1	49		21.69			
10	64QAM	25	0		20.79		22	3
10	64QAM	25	12		20.78			
10	64QAM	25	25		20.78			
10	64QAM	50	0		20.79			
10	256QAM	1	0		18.76		20	5
10	256QAM	1	25		18.90			
10	256QAM	1	49		18.84			
10	256QAM	25	0		18.71		20	5
10	256QAM	25	12		18.83			
10	256QAM	25	25		18.76			
10	256QAM	50	0		18.62			
Channel				23305	23330	23355	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	0	23.63	23.81	23.63	25	0
5	QPSK	1	12	23.66	23.66	23.63		
5	QPSK	1	24	23.68	23.70	23.53		
5	QPSK	12	0	22.38	22.52	22.37	24	1
5	QPSK	12	7	22.39	22.59	22.48		
5	QPSK	12	13	22.73	22.74	22.48		
5	QPSK	25	0	22.57	22.68	22.70		
5	16QAM	1	0	22.85	22.97	23.03	24	1
5	16QAM	1	12	22.97	23.20	23.07		
5	16QAM	1	24	22.77	22.92	22.79		
5	16QAM	12	0	21.56	21.64	21.66	23	2
5	16QAM	12	7	21.85	21.78	21.68		
5	16QAM	12	13	21.68	21.74	21.68		
5	16QAM	25	0	21.75	21.73	21.81		
5	64QAM	1	0	21.59	21.57	21.42	23	2
5	64QAM	1	12	21.54	21.65	21.50		
5	64QAM	1	24	21.49	21.67	21.47		
5	64QAM	12	0	20.63	20.64	20.62	22	3
5	64QAM	12	7	20.59	20.71	20.43		
5	64QAM	12	13	20.45	20.65	20.67		
5	64QAM	25	0	20.58	20.62	20.63		
5	256QAM	1	0	18.52	18.62	18.59	20	5
5	256QAM	1	12	18.66	18.76	18.67		
5	256QAM	1	24	18.60	18.82	18.70		

5	256QAM	12	0	18.46	18.61	18.51	20	5
5	256QAM	12	7	18.63	18.67	18.60		
5	256QAM	12	13	18.61	18.70	18.56		
5	256QAM	25	0	18.46	18.49	18.42		

Band 17 Ant0 DSI5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23780	23790	23800		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	23.77	23.82	23.74	25	0
10	QPSK	1	25	23.77	23.81	23.73		
10	QPSK	1	49	23.71	23.79	23.58		
10	QPSK	25	0	22.71	22.78	22.72	24	1
10	QPSK	25	12	22.76	22.72	22.70		
10	QPSK	25	25	22.70	22.72	22.66		
10	QPSK	50	0	22.65	22.69	22.58	24	1
10	16QAM	1	0	22.86	22.91	22.98		
10	16QAM	1	25	23.05	23.04	23.13		
10	16QAM	1	49	22.83	22.92	22.90	23	2
10	16QAM	25	0	21.63	21.71	21.76		
10	16QAM	25	12	21.67	21.76	21.72		
10	16QAM	25	25	21.70	21.69	21.75	23	2
10	16QAM	50	0	21.94	21.90	21.85		
10	64QAM	1	0	21.95	21.89	21.84		
10	64QAM	1	25	21.74	21.73	21.68	22	3
10	64QAM	1	49	21.88	21.79	21.70		
10	64QAM	25	0	20.72	20.72	20.76		
10	64QAM	25	12	20.79	20.75	20.77	20	5
10	64QAM	25	25	20.93	20.85	20.90		
10	64QAM	50	0	20.65	20.73	20.67		
10	256QAM	1	0	19.21	19.22	19.29	20	5
10	256QAM	1	25	19.21	19.24	19.32		
10	256QAM	1	49	19.31	19.33	19.39		
10	256QAM	25	0	19.25	19.19	19.17	20	5
10	256QAM	25	12	19.33	19.25	19.18		
10	256QAM	25	25	19.31	19.21	19.29		
10	256QAM	50	0	19.10	19.14	19.12	25	0
5	QPSK	1	0	23.69	23.76	23.72		
5	QPSK	1	12	23.70	23.66	23.68		
5	QPSK	1	24	23.58	23.62	23.53	24	1
5	QPSK	12	0	22.53	22.52	22.57		
5	QPSK	12	7	22.63	22.60	22.60		
5	QPSK	12	13	22.56	22.57	22.50	24	1
5	QPSK	25	0	22.55	22.44	22.43		

5	16QAM	1	0	22.72	22.84	22.88	24	1
5	16QAM	1	12	23.02	22.99	23.10		
5	16QAM	1	24	22.77	22.83	22.84		
5	16QAM	12	0	21.51	21.56	21.59	23	2
5	16QAM	12	7	21.59	21.72	21.61		
5	16QAM	12	13	21.56	21.61	21.59		
5	16QAM	25	0	21.81	21.84	21.72	23	2
5	64QAM	1	0	21.86	21.80	21.73		
5	64QAM	1	12	21.64	21.62	21.64		
5	64QAM	1	24	21.83	21.68	21.61	22	3
5	64QAM	12	0	20.64	20.55	20.60		
5	64QAM	12	7	20.64	20.62	20.68		
5	64QAM	12	13	20.84	20.71	20.75	20	5
5	64QAM	25	0	20.59	20.62	20.51		
5	256QAM	1	0	19.11	19.16	19.26		
5	256QAM	1	12	19.05	19.14	19.18	20	5
5	256QAM	1	24	19.25	19.24	19.23		
5	256QAM	12	0	19.22	19.10	19.00		
5	256QAM	12	7	19.22	19.14	19.05	20	5
5	256QAM	12	13	19.16	19.06	19.12		
5	256QAM	25	0	19.07	19.09	19.04		

Band 26 Ant0 DSI5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26765	26865	26965		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	23.07	23.11	22.95	24.5	0
15	QPSK	1	37	22.96	23.07	23.02		
15	QPSK	1	74	22.96	23.02	23.10		
15	QPSK	36	0	22.73	22.75	22.65	24	0.5
15	QPSK	36	20	22.65	22.63	22.56		
15	QPSK	36	39	22.72	22.67	22.67		
15	QPSK	75	0	22.59	22.63	22.60	24	0.5
15	16QAM	1	0	22.89	22.80	22.83		
15	16QAM	1	37	22.70	22.76	22.79		
15	16QAM	1	74	22.70	22.69	22.69	23	1.5
15	16QAM	36	0	21.75	21.70	21.62		
15	16QAM	36	20	21.53	21.49	21.51		
15	16QAM	36	39	21.69	21.61	21.60	23	1.5
15	16QAM	75	0	21.61	21.56	21.46		
15	64QAM	1	0	21.59	21.59	21.56		
15	64QAM	1	37	21.72	21.72	21.80	23	1.5
15	64QAM	1	74	21.59	21.64	21.56		
15	64QAM	36	0	20.57	20.61	20.62		
15	64QAM	36	20	20.60	20.51	20.42	22	2.5
15	64QAM	36	39	20.59	20.61	20.54		

15	64QAM	75	0	20.58	20.58	20.65	20	4.5
15	256QAM	1	0	18.82	18.74	18.80		
15	256QAM	1	37	18.92	18.83	18.86		
15	256QAM	1	74	18.82	18.83	18.84	20	4.5
15	256QAM	36	0	18.60	18.65	18.67		
15	256QAM	36	20	18.70	18.70	18.73		
15	256QAM	36	39	18.70	18.70	18.75		
15	256QAM	75	0	18.86	18.79	18.73		
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	23.05	23.02	22.83	24.5	0
10	QPSK	1	25	22.91	22.96	22.93		
10	QPSK	1	49	22.82	22.96	23.07		
10	QPSK	25	0	22.58	22.65	22.60	24	0.5
10	QPSK	25	12	22.57	22.60	22.43		
10	QPSK	25	25	22.60	22.67	22.62		
10	QPSK	50	0	22.44	22.47	22.54		
10	16QAM	1	0	22.74	22.77	22.67	24	0.5
10	16QAM	1	25	22.65	22.74	22.76		
10	16QAM	1	49	22.60	22.63	22.67		
10	16QAM	25	0	21.64	21.66	21.54	23	1.5
10	16QAM	25	12	21.50	21.34	21.37		
10	16QAM	25	25	21.56	21.47	21.49		
10	16QAM	50	0	21.52	21.45	21.30		
10	64QAM	1	0	21.55	21.56	21.49	23	1.5
10	64QAM	1	25	21.64	21.66	21.73		
10	64QAM	1	49	21.49	21.47	21.43		
10	64QAM	25	0	20.41	20.51	20.45	22	2.5
10	64QAM	25	12	20.50	20.45	20.32		
10	64QAM	25	25	20.50	20.47	20.39		
10	64QAM	50	0	20.55	20.42	20.52		
10	256QAM	1	0	18.66	18.58	18.70	20	4.5
10	256QAM	1	25	18.89	18.80	18.82		
10	256QAM	1	49	18.64	18.72	18.74		
10	256QAM	25	0	18.54	18.58	18.63	20	4.5
10	256QAM	25	12	18.65	18.60	18.59		
10	256QAM	25	25	18.57	18.62	18.70		
10	256QAM	50	0	18.81	18.65	18.70		
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	22.99	23.04	22.85	24.5	0
5	QPSK	1	12	22.84	22.96	22.91		
5	QPSK	1	24	22.90	22.99	23.05		
5	QPSK	12	0	22.67	22.64	22.47	24	0.5
5	QPSK	12	7	22.51	22.52	22.53		
5	QPSK	12	13	22.62	22.66	22.63		
5	QPSK	25	0	22.53	22.52	22.48		



5	16QAM	1	0	22.84	22.67	22.75	24	0.5
5	16QAM	1	12	22.53	22.72	22.74		
5	16QAM	1	24	22.67	22.57	22.57		
5	16QAM	12	0	21.57	21.60	21.58	23	1.5
5	16QAM	12	7	21.44	21.38	21.42		
5	16QAM	12	13	21.54	21.51	21.51		
5	16QAM	25	0	21.44	21.39	21.28	23	1.5
5	64QAM	1	0	21.45	21.53	21.40		
5	64QAM	1	12	21.57	21.58	21.63		
5	64QAM	1	24	21.56	21.49	21.45	22	2.5
5	64QAM	12	0	20.47	20.58	20.55		
5	64QAM	12	7	20.46	20.48	20.40		
5	64QAM	12	13	20.41	20.54	20.48	20	4.5
5	64QAM	25	0	20.44	20.51	20.54		
5	256QAM	1	0	18.70	18.66	18.76		
5	256QAM	1	12	18.76	18.65	18.75	20	4.5
5	256QAM	1	24	18.71	18.71	18.78		
5	256QAM	12	0	18.48	18.49	18.56		
5	256QAM	12	7	18.59	18.66	18.56	20	4.5
5	256QAM	12	13	18.58	18.67	18.65		
5	256QAM	25	0	18.76	18.67	18.69		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	22.98	23.02	22.91	24.5	0
3	QPSK	1	8	22.88	23.03	22.93		
3	QPSK	1	14	22.86	22.89	23.03		
3	QPSK	8	0	22.64	22.57	22.61	24	0.5
3	QPSK	8	4	22.62	22.58	22.53		
3	QPSK	8	7	22.63	22.58	22.50		
3	QPSK	15	0	22.45	22.52	22.55	24	0.5
3	16QAM	1	0	22.72	22.65	22.80		
3	16QAM	1	8	22.67	22.62	22.76		
3	16QAM	1	14	22.60	22.66	22.58	23	1.5
3	16QAM	8	0	21.70	21.64	21.56		
3	16QAM	8	4	21.47	21.39	21.39		
3	16QAM	8	7	21.54	21.54	21.45	23	1.5
3	16QAM	15	0	21.47	21.53	21.36		
3	64QAM	1	0	21.51	21.48	21.53		
3	64QAM	1	8	21.64	21.62	21.69	22	2.5
3	64QAM	1	14	21.49	21.59	21.40		
3	64QAM	8	0	20.49	20.45	20.48		
3	64QAM	8	4	20.53	20.46	20.25	20	4.5
3	64QAM	8	7	20.50	20.57	20.39		
3	64QAM	15	0	20.48	20.46	20.55		
3	256QAM	1	0	18.65	18.66	18.66	20	4.5
3	256QAM	1	8	18.79	18.72	18.78		
3	256QAM	1	14	18.66	18.75	18.76		

3	256QAM	8	0	18.43	18.52	18.52	20	4.5
3	256QAM	8	4	18.54	18.57	18.60		
3	256QAM	8	7	18.63	18.65	18.59		
3	256QAM	15	0	18.81	18.72	18.65		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	22.99	23.07	22.91	24.5	0
1.4	QPSK	1	3	22.88	22.95	22.99		
1.4	QPSK	1	5	22.91	22.99	23.06		
1.4	QPSK	3	0	23.03	22.97	22.82		
1.4	QPSK	3	1	22.94	23.00	22.97		
1.4	QPSK	3	3	22.86	22.93	23.01		
1.4	QPSK	6	0	22.61	22.63	22.49	24	0.5
1.4	16QAM	1	0	22.53	22.52	22.53	24	0.5
1.4	16QAM	1	3	22.68	22.58	22.63		
1.4	16QAM	1	5	22.57	22.50	22.51		
1.4	16QAM	3	0	22.84	22.66	22.79		
1.4	16QAM	3	1	22.66	22.58	22.61		
1.4	16QAM	3	3	22.57	22.53	22.58		
1.4	16QAM	6	0	21.58	21.62	21.55	23	1.5
1.4	64QAM	1	0	21.48	21.41	21.36	23	1.5
1.4	64QAM	1	3	21.63	21.46	21.47		
1.4	64QAM	1	5	21.51	21.45	21.30		
1.4	64QAM	3	0	21.57	21.43	21.53		
1.4	64QAM	3	1	21.55	21.70	21.66		
1.4	64QAM	3	3	21.55	21.58	21.45		
1.4	64QAM	6	0	20.46	20.48	20.52	22	2.5
1.4	256QAM	1	0	18.78	18.64	18.74	20	4.5
1.4	256QAM	1	3	18.88	18.77	18.75		
1.4	256QAM	1	5	18.69	18.74	18.82		
1.4	256QAM	3	0	18.43	18.62	18.56		
1.4	256QAM	3	1	18.57	18.53	18.60		
1.4	256QAM	3	3	18.65	18.61	18.60		
1.4	256QAM	6	0	18.81	18.75	18.60	20	4.5

Band 71 Ant0 DSI5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				133222	133297	133372		
Frequency (MHz)				673	680.5	688		
20	QPSK	1	0	22.67	22.76	22.63	24	0
20	QPSK	1	49	22.66	22.73	22.69		
20	QPSK	1	99	22.66	22.65	22.62		
20	QPSK	50	0	21.65	21.68	21.63	23	1
20	QPSK	50	24	21.64	21.60	21.64		

20	QPSK	50	50	21.55	21.52	21.62		
20	QPSK	100	0	21.59	21.62	21.60		
20	16QAM	1	0	21.82	21.87	21.93		
20	16QAM	1	49	21.82	21.83	21.82	23	1
20	16QAM	1	99	21.98	21.91	21.88	22	2
20	16QAM	50	0	20.67	20.65	20.64		
20	16QAM	50	24	20.58	20.58	20.53		
20	16QAM	50	50	20.79	20.78	20.70		
20	16QAM	100	0	20.67	20.66	20.70	22	2
20	64QAM	1	0	20.91	20.95	21.04		
20	64QAM	1	49	21.06	21.01	21.07		
20	64QAM	1	99	20.96	20.97	20.94	21	3
20	64QAM	50	0	19.72	19.67	19.66		
20	64QAM	50	24	19.47	19.55	19.54		
20	64QAM	50	50	19.66	19.64	19.57		
20	64QAM	100	0	19.60	19.62	19.55	19	5
20	256QAM	1	0	17.68	17.60	17.65		
20	256QAM	1	49	17.62	17.61	17.71		
20	256QAM	1	99	17.71	17.70	17.71	19	5
20	256QAM	50	0	17.63	17.55	17.58		
20	256QAM	50	24	17.56	17.59	17.57		
20	256QAM	50	50	17.52	17.61	17.71		
20	256QAM	100	0	17.64	17.70	17.79	Tune-up limit (dBm)	MPR (dB)
Channel				133197	133297	133397		
Frequency (MHz)				670.5	680.5	690.5	24	0
15	QPSK	1	0	22.65	22.70	22.52		
15	QPSK	1	37	22.63	22.60	22.53		
15	QPSK	1	74	22.51	22.61	22.51	23	1
15	QPSK	36	0	21.44	21.49	21.57		
15	QPSK	36	20	21.50	21.48	21.57		
15	QPSK	36	39	21.52	21.37	21.56		
15	QPSK	75	0	21.40	21.40	21.47	23	1
15	16QAM	1	0	21.64	21.80	21.89		
15	16QAM	1	37	21.79	21.77	21.77		
15	16QAM	1	74	21.92	21.88	21.71	22	2
15	16QAM	36	0	20.50	20.61	20.61		
15	16QAM	36	20	20.47	20.47	20.43		
15	16QAM	36	39	20.73	20.69	20.61		
15	16QAM	75	0	20.57	20.57	20.58	22	2
15	64QAM	1	0	20.81	20.90	21.00		
15	64QAM	1	37	20.91	20.96	20.99		
15	64QAM	1	74	20.86	20.84	20.77	21	3
15	64QAM	36	0	19.63	19.59	19.48		
15	64QAM	36	20	19.30	19.50	19.52		
15	64QAM	36	39	19.56	19.47	19.53		
15	64QAM	75	0	19.49	19.52	19.51	19	5
15	256QAM	1	0	17.53	17.52	17.55		

15	256QAM	1	37	17.45	17.53	17.55	19	5
15	256QAM	1	74	17.67	17.62	17.57		
15	256QAM	36	0	17.59	17.38	17.40		
15	256QAM	36	20	17.53	17.57	17.40		
15	256QAM	36	39	17.35	17.58	17.67		
15	256QAM	75	0	17.57	17.65	17.70		
Channel				133172	133297	133422	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	680.5	693		
10	QPSK	1	0	22.64	22.70	22.52	24	0
10	QPSK	1	25	22.62	22.63	22.55		
10	QPSK	1	49	22.56	22.49	22.50		
10	QPSK	25	0	21.38	21.59	21.55	23	1
10	QPSK	25	12	21.61	21.46	21.59		
10	QPSK	25	25	21.46	21.39	21.47		
10	QPSK	50	0	21.35	21.47	21.44		
10	16QAM	1	0	21.75	21.70	21.88	23	1
10	16QAM	1	25	21.64	21.75	21.68		
10	16QAM	1	49	21.81	21.87	21.86		
10	16QAM	25	0	20.53	20.56	20.55	22	2
10	16QAM	25	12	20.43	20.45	20.44		
10	16QAM	25	25	20.63	20.73	20.53		
10	16QAM	50	0	20.52	20.51	20.59		
10	64QAM	1	0	20.74	20.86	20.93	22	2
10	64QAM	1	25	20.99	20.88	20.95		
10	64QAM	1	49	20.80	20.86	20.86		
10	64QAM	25	0	19.69	19.64	19.56	21	3
10	64QAM	25	12	19.37	19.40	19.44		
10	64QAM	25	25	19.55	19.53	19.48		
10	64QAM	50	0	19.46	19.45	19.46		
10	256QAM	1	0	17.62	17.51	17.48	19	5
10	256QAM	1	25	17.54	17.55	17.59		
10	256QAM	1	49	17.54	17.67	17.54		
10	256QAM	25	0	17.56	17.41	17.52	19	5
10	256QAM	25	12	17.46	17.55	17.48		
10	256QAM	25	25	17.35	17.54	17.65		
10	256QAM	50	0	17.47	17.66	17.72		
Channel				133147	133297	133447	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	0	22.61	22.68	22.52	24	0
5	QPSK	1	12	22.63	22.62	22.60		
5	QPSK	1	24	22.60	22.59	22.49		
5	QPSK	12	0	21.51	21.61	21.53	23	1
5	QPSK	12	7	21.58	21.49	21.49		
5	QPSK	12	13	21.52	21.41	21.52		
5	QPSK	25	0	21.40	21.46	21.58		
5	16QAM	1	0	21.77	21.72	21.81	23	1
5	16QAM	1	12	21.78	21.79	21.71		

5	16QAM	1	24	21.90	21.78	21.76	22	2
5	16QAM	12	0	20.62	20.54	20.54		
5	16QAM	12	7	20.41	20.43	20.40		
5	16QAM	12	13	20.68	20.63	20.58		
5	16QAM	25	0	20.63	20.61	20.56	22	2
5	64QAM	1	0	20.74	20.90	21.00		
5	64QAM	1	12	21.02	20.93	20.98		
5	64QAM	1	24	20.81	20.85	20.85	21	3
5	64QAM	12	0	19.57	19.58	19.58		
5	64QAM	12	7	19.41	19.45	19.47		
5	64QAM	12	13	19.52	19.47	19.50		
5	64QAM	25	0	19.57	19.58	19.39	19	5
5	256QAM	1	0	17.57	17.43	17.55		
5	256QAM	1	12	17.52	17.53	17.59		
5	256QAM	1	24	17.61	17.60	17.66		
5	256QAM	12	0	17.54	17.44	17.45	19	5
5	256QAM	12	7	17.42	17.48	17.43		
5	256QAM	12	13	17.41	17.53	17.66		
5	256QAM	25	0	17.51	17.61	17.76		

Band 5 Ant1 DSI5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600	24	0
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	22.30	22.36	22.23		
10	QPSK	1	25	22.22	22.29	22.31	23	1
10	QPSK	1	49	22.31	22.20	22.28		
10	QPSK	25	0	21.48	21.54	21.53		
10	QPSK	25	12	21.24	21.22	21.19		
10	QPSK	25	25	21.37	21.42	21.38	23	1
10	QPSK	50	0	21.45	21.50	21.47		
10	16QAM	1	0	21.65	21.72	21.72		
10	16QAM	1	25	21.57	21.57	21.60	22	2
10	16QAM	1	49	21.67	21.52	21.66		
10	16QAM	25	0	20.52	20.49	20.35		
10	16QAM	25	12	20.23	20.22	20.33	22	2
10	16QAM	25	25	20.40	20.36	20.33		
10	16QAM	50	0	20.34	20.31	20.25		
10	64QAM	1	0	20.51	20.50	20.38		
10	64QAM	1	25	20.55	20.42	20.50	21	3
10	64QAM	1	49	20.42	20.47	20.41		
10	64QAM	25	0	20.62	20.50	20.38		
10	64QAM	25	12	20.43	20.44	20.39		
10	64QAM	25	25	20.40	20.30	20.35	19	5
10	64QAM	50	0	20.31	20.34	20.41		
10	256QAM	1	0	17.31	17.27	17.35		

10	256QAM	1	25	17.14	17.30	17.36		
10	256QAM	1	49	17.19	17.23	17.34		
10	256QAM	25	0	17.37	17.44	17.26		
10	256QAM	25	12	17.23	17.31	17.37	19	5
10	256QAM	25	25	17.37	17.37	17.41		
10	256QAM	50	0	17.27	17.34	17.26		
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	22.26	22.28	22.14	24	0
5	QPSK	1	12	22.17	22.18	22.22		
5	QPSK	1	24	22.23	22.08	22.12		
5	QPSK	12	0	21.33	21.41	21.38	23	1
5	QPSK	12	7	21.12	21.12	21.15		
5	QPSK	12	13	21.27	21.36	21.26		
5	QPSK	25	0	21.32	21.44	21.40	23	1
5	16QAM	1	0	21.50	21.68	21.59		
5	16QAM	1	12	21.48	21.44	21.52		
5	16QAM	1	24	21.53	21.43	21.52	22	2
5	16QAM	12	0	20.39	20.35	20.19		
5	16QAM	12	7	20.16	20.07	20.19		
5	16QAM	12	13	20.33	20.24	20.20	22	2
5	16QAM	25	0	20.19	20.26	20.10		
5	64QAM	1	0	20.46	20.40	20.32		
5	64QAM	1	12	20.40	20.29	20.40	22	2
5	64QAM	1	24	20.31	20.38	20.35		
5	64QAM	12	0	20.50	20.45	20.22		
5	64QAM	12	7	20.33	20.33	20.27	21	3
5	64QAM	12	13	20.28	20.25	20.31		
5	64QAM	25	0	20.15	20.18	20.31		
5	256QAM	1	0	17.22	17.15	17.28	19	5
5	256QAM	1	12	17.04	17.16	17.29		
5	256QAM	1	24	17.06	17.11	17.28		
5	256QAM	12	0	17.27	17.31	17.14	19	5
5	256QAM	12	7	17.17	17.21	17.27		
5	256QAM	12	13	17.24	17.26	17.25		
5	256QAM	25	0	17.18	17.28	17.12	Tune-up limit (dBm)	MPR (dB)
Channel				20415	20525	20635		
Frequency (MHz)				825.5	836.5	847.5	24	0
3	QPSK	1	0	22.16	22.24	22.10		
3	QPSK	1	8	22.11	22.18	22.16		
3	QPSK	1	14	22.21	22.14	22.19	23	1
3	QPSK	8	0	21.43	21.45	21.47		
3	QPSK	8	4	21.11	21.12	21.06		
3	QPSK	8	7	21.32	21.37	21.22	23	1
3	QPSK	15	0	21.39	21.44	21.42		
3	16QAM	1	0	21.61	21.59	21.62		
3	16QAM	1	8	21.41	21.41	21.50	Tune-up limit (dBm)	MPR (dB)

3	16QAM	1	14	21.52	21.38	21.59		
3	16QAM	8	0	20.43	20.37	20.22	22	2
3	16QAM	8	4	20.12	20.07	20.19		
3	16QAM	8	7	20.28	20.23	20.18		
3	16QAM	15	0	20.22	20.21	20.10		
3	64QAM	1	0	20.41	20.37	20.22	22	2
3	64QAM	1	8	20.48	20.33	20.43		
3	64QAM	1	14	20.34	20.33	20.36		
3	64QAM	8	0	20.50	20.45	20.30	21	3
3	64QAM	8	4	20.29	20.29	20.24		
3	64QAM	8	7	20.30	20.23	20.24		
3	64QAM	15	0	20.15	20.27	20.25		
3	256QAM	1	0	17.17	17.17	17.25	19	5
3	256QAM	1	8	17.06	17.16	17.27		
3	256QAM	1	14	17.09	17.14	17.22		
3	256QAM	8	0	17.32	17.35	17.14	19	5
3	256QAM	8	4	17.07	17.18	17.31		
3	256QAM	8	7	17.30	17.31	17.37		
3	256QAM	15	0	17.22	17.22	17.15		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	22.18	22.21	22.12	24	0
1.4	QPSK	1	3	22.14	22.22	22.17		
1.4	QPSK	1	5	22.25	22.12	22.16		
1.4	QPSK	3	0	22.20	22.21	22.16		
1.4	QPSK	3	1	22.12	22.15	22.18		
1.4	QPSK	3	3	22.26	22.14	22.15		
1.4	QPSK	6	0	21.36	21.39	21.39	23	1
1.4	16QAM	1	0	21.57	21.63	21.56	23	1
1.4	16QAM	1	3	21.51	21.45	21.55		
1.4	16QAM	1	5	21.60	21.40	21.52		
1.4	16QAM	3	0	21.52	21.62	21.65		
1.4	16QAM	3	1	21.51	21.50	21.46		
1.4	16QAM	3	3	21.61	21.44	21.60		
1.4	16QAM	6	0	20.24	20.19	20.15	22	2
1.4	64QAM	1	0	20.44	20.44	20.33	22	2
1.4	64QAM	1	3	20.49	20.36	20.36		
1.4	64QAM	1	5	20.35	20.36	20.33		
1.4	64QAM	3	0	20.52	20.42	20.34		
1.4	64QAM	3	1	20.33	20.31	20.24		
1.4	64QAM	3	3	20.25	20.22	20.21		
1.4	64QAM	6	0	20.26	20.21	20.29	21	3
1.4	256QAM	1	0	17.22	17.19	17.24	19	5
1.4	256QAM	1	3	17.01	17.24	17.31		
1.4	256QAM	1	5	17.09	17.16	17.28		
1.4	256QAM	3	0	17.22	17.36	17.15		
1.4	256QAM	3	1	17.18	17.23	17.32		

1.4	256QAM	3	3	17.32	17.24	17.31		
1.4	256QAM	6	0	17.14	17.26	17.12	19	5

Band 12 Ant1 DSI5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	22.47	22.52	22.41	24	0
10	QPSK	1	25	22.42	22.48	22.49		
10	QPSK	1	49	22.37	22.37	22.48		
10	QPSK	25	0	21.55	21.68	21.66	23	1
10	QPSK	25	12	21.47	21.38	21.33		
10	QPSK	25	25	21.55	21.55	21.49		
10	QPSK	50	0	21.55	21.66	21.64	23	1
10	16QAM	1	0	21.82	21.87	21.86		
10	16QAM	1	25	21.74	21.79	21.75		
10	16QAM	1	49	21.73	21.70	21.89	22	2
10	16QAM	25	0	20.59	20.62	20.57		
10	16QAM	25	12	20.45	20.44	20.50		
10	16QAM	25	25	20.62	20.51	20.50	22	2
10	16QAM	50	0	20.46	20.43	20.39		
10	64QAM	1	0	20.63	20.60	20.53		
10	64QAM	1	25	20.74	20.66	20.60	22	2
10	64QAM	1	49	20.59	20.64	20.53		
10	64QAM	25	0	20.75	20.67	20.52		
10	64QAM	25	12	20.60	20.63	20.55	21	3
10	64QAM	25	25	20.56	20.56	20.47		
10	64QAM	50	0	20.52	20.52	20.52		
10	256QAM	1	0	17.48	17.54	17.47	19	5
10	256QAM	1	25	17.31	17.45	17.45		
10	256QAM	1	49	17.36	17.36	17.49		
10	256QAM	25	0	17.59	17.53	17.50	19	5
10	256QAM	25	12	17.43	17.54	17.57		
10	256QAM	25	25	17.56	17.50	17.59		
10	256QAM	50	0	17.49	17.52	17.49	19	5
Channel				23035	23095	23155		
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	22.36	22.47	22.26	24	0
5	QPSK	1	12	22.32	22.32	22.35		
5	QPSK	1	24	22.30	22.23	22.33		
5	QPSK	12	0	21.50	21.64	21.61	23	1
5	QPSK	12	7	21.40	21.31	21.19		
5	QPSK	12	13	21.45	21.44	21.35		
5	QPSK	25	0	21.41	21.61	21.57	23	1
5	16QAM	1	0	21.75	21.81	21.75		
5	16QAM	1	12	21.65	21.67	21.70		

5	16QAM	1	24	21.64	21.58	21.76	22	2
5	16QAM	12	0	20.45	20.51	20.46		
5	16QAM	12	7	20.38	20.36	20.37		
5	16QAM	12	13	20.47	20.36	20.36		
5	16QAM	25	0	20.40	20.28	20.30	22	2
5	64QAM	1	0	20.50	20.50	20.44		
5	64QAM	1	12	20.61	20.55	20.56		
5	64QAM	1	24	20.49	20.56	20.39	21	3
5	64QAM	12	0	20.67	20.54	20.38		
5	64QAM	12	7	20.53	20.55	20.45		
5	64QAM	12	13	20.41	20.45	20.38		
5	64QAM	25	0	20.44	20.42	20.42	19	5
5	256QAM	1	0	17.36	17.39	17.34		
5	256QAM	1	12	17.26	17.39	17.33		
5	256QAM	1	24	17.30	17.32	17.38		
5	256QAM	12	0	17.54	17.41	17.35	19	5
5	256QAM	12	7	17.37	17.43	17.48		
5	256QAM	12	13	17.50	17.35	17.46		
5	256QAM	25	0	17.36	17.40	17.37		
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	22.33	22.45	22.35	24	0
3	QPSK	1	8	22.34	22.32	22.34		
3	QPSK	1	14	22.25	22.30	22.35		
3	QPSK	8	0	21.48	21.52	21.59	23	1
3	QPSK	8	4	21.41	21.27	21.22		
3	QPSK	8	7	21.47	21.45	21.39		
3	QPSK	15	0	21.44	21.50	21.58		
3	16QAM	1	0	21.67	21.77	21.70	23	1
3	16QAM	1	8	21.68	21.74	21.64		
3	16QAM	1	14	21.66	21.59	21.83		
3	16QAM	8	0	20.54	20.47	20.46	22	2
3	16QAM	8	4	20.40	20.37	20.35		
3	16QAM	8	7	20.56	20.38	20.37		
3	16QAM	15	0	20.37	20.35	20.27		
3	64QAM	1	0	20.50	20.44	20.38	22	2
3	64QAM	1	8	20.68	20.51	20.45		
3	64QAM	1	14	20.45	20.49	20.43		
3	64QAM	8	0	20.66	20.61	20.45	21	3
3	64QAM	8	4	20.54	20.54	20.46		
3	64QAM	8	7	20.51	20.50	20.32		
3	64QAM	15	0	20.37	20.39	20.40		
3	256QAM	1	0	17.44	17.42	17.40	19	5
3	256QAM	1	8	17.16	17.40	17.29		
3	256QAM	1	14	17.31	17.30	17.39		
3	256QAM	8	0	17.46	17.43	17.45	19	5
3	256QAM	8	4	17.36	17.49	17.48		

3	256QAM	8	7	17.51	17.44	17.46		
3	256QAM	15	0	17.37	17.47	17.40		
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	22.36	22.41	22.33	24	0
1.4	QPSK	1	3	22.30	22.39	22.40		
1.4	QPSK	1	5	22.30	22.32	22.43		
1.4	QPSK	3	0	22.34	22.45	22.30		
1.4	QPSK	3	1	22.26	22.39	22.43		
1.4	QPSK	3	3	22.27	22.22	22.38		
1.4	QPSK	6	0	21.41	21.52	21.50	23	1
1.4	16QAM	1	0	21.78	21.76	21.78	23	1
1.4	16QAM	1	3	21.63	21.73	21.71		
1.4	16QAM	1	5	21.69	21.56	21.83		
1.4	16QAM	3	0	21.74	21.82	21.75		
1.4	16QAM	3	1	21.69	21.72	21.63		
1.4	16QAM	3	3	21.59	21.60	21.79		
1.4	16QAM	6	0	20.41	20.28	20.25	22	2
1.4	64QAM	1	0	20.59	20.47	20.40	22	2
1.4	64QAM	1	3	20.63	20.55	20.55		
1.4	64QAM	1	5	20.51	20.55	20.39		
1.4	64QAM	3	0	20.66	20.59	20.47		
1.4	64QAM	3	1	20.52	20.49	20.47		
1.4	64QAM	3	3	20.44	20.48	20.42		
1.4	64QAM	6	0	20.45	20.47	20.47	21	3
1.4	256QAM	1	0	17.43	17.48	17.36	19	5
1.4	256QAM	1	3	17.25	17.31	17.38		
1.4	256QAM	1	5	17.21	17.26	17.34		
1.4	256QAM	3	0	17.47	17.40	17.45		
1.4	256QAM	3	1	17.38	17.40	17.51		
1.4	256QAM	3	3	17.47	17.40	17.48		
1.4	256QAM	6	0	17.34	17.37	17.38	19	5

Band 13 Ant1 DSI5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23230				
Frequency (MHz)				782				
10	QPSK	1	0		22.45		24	0
10	QPSK	1	25		22.37			
10	QPSK	1	49		22.39			
10	QPSK	25	0		21.62		23	1
10	QPSK	25	12		21.34			
10	QPSK	25	25		21.45			
10	QPSK	50	0		21.61		23	1
10	16QAM	1	0		21.84			
10	16QAM	1	25		21.70			
10	16QAM	1	49		21.64		22	2
10	16QAM	25	0		20.58			
10	16QAM	25	12		20.39			
10	16QAM	25	25		20.43		22	2
10	16QAM	50	0		20.44			
10	64QAM	1	0		20.59			
10	64QAM	1	25		20.62		21	3
10	64QAM	1	49		20.46			
10	64QAM	25	0		20.56			
10	64QAM	25	12		20.49		19	5
10	64QAM	25	25		20.40			
10	64QAM	50	0		20.44			
10	256QAM	1	0		17.47		19	5
10	256QAM	1	25		17.31			
10	256QAM	1	49		17.28			
10	256QAM	25	0		17.57		19	5
10	256QAM	25	12		17.46			
10	256QAM	25	25		17.43			
10	256QAM	50	0		17.46		24	0
Channel				23205	23230	23255		
Frequency (MHz)				779.5	782	784.5	24	0
5	QPSK	1	0	22.42	22.25	22.26		
5	QPSK	1	12	22.20	22.29	22.31		
5	QPSK	1	24	22.33	22.21	22.30	23	1
5	QPSK	12	0	21.41	21.40	21.51		
5	QPSK	12	7	21.23	21.35	21.15		
5	QPSK	12	13	21.34	21.35	21.28	23	1
5	QPSK	25	0	21.38	21.52	21.42		
5	16QAM	1	0	21.78	21.69	21.67		
5	16QAM	1	12	21.50	21.57	21.56	22	2
5	16QAM	1	24	21.64	21.53	21.70		
5	16QAM	12	0	20.45	20.44	20.38		

5	16QAM	12	7	20.30	20.26	20.25		
5	16QAM	12	13	20.39	20.30	20.33		
5	16QAM	25	0	20.37	20.27	20.29		
5	64QAM	1	0	20.48	20.45	20.36	22	2
5	64QAM	1	12	20.60	20.49	20.54		
5	64QAM	1	24	20.37	20.40	20.33		
5	64QAM	12	0	20.60	20.46	20.38	21	3
5	64QAM	12	7	20.45	20.41	20.46		
5	64QAM	12	13	20.40	20.33	20.29		
5	64QAM	25	0	20.40	20.48	20.44		
5	256QAM	1	0	17.35	17.39	17.37	19	5
5	256QAM	1	12	17.19	17.20	17.33		
5	256QAM	1	24	17.18	17.26	17.29		
5	256QAM	12	0	17.35	17.37	17.33	19	5
5	256QAM	12	7	17.29	17.33	17.44		
5	256QAM	12	13	17.38	17.46	17.44		
5	256QAM	25	0	17.16	17.29	17.31		

Band 14 Ant1 DSI5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23330				
Frequency (MHz)				793				
10	QPSK	1	0		22.47		24	0
10	QPSK	1	25		22.36			
10	QPSK	1	49		22.41			
10	QPSK	25	0		21.54		23	1
10	QPSK	25	12		21.36			
10	QPSK	25	25		21.52			
10	QPSK	50	0		21.60			
10	16QAM	1	0		21.86		23	1
10	16QAM	1	25		21.65			
10	16QAM	1	49		21.71			
10	16QAM	25	0		20.57		22	2
10	16QAM	25	12		20.32			
10	16QAM	25	25		20.46			
10	16QAM	50	0		20.43			
10	64QAM	1	0		20.61		22	2
10	64QAM	1	25		20.56			
10	64QAM	1	49		20.59			
10	64QAM	25	0		20.64		21	3
10	64QAM	25	12		20.57			
10	64QAM	25	25		20.51			
10	64QAM	50	0		20.48			
10	256QAM	1	0		17.46		19	5
10	256QAM	1	25		17.34			
10	256QAM	1	49		17.32			

10	256QAM	25	0		17.56		19	5
10	256QAM	25	12		17.40			
10	256QAM	25	25		17.43			
10	256QAM	50	0		17.47			
Channel				23305	23330	23355	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	0	22.41	22.40	22.30	24	0
5	QPSK	1	12	22.29	22.34	22.26		
5	QPSK	1	24	22.25	22.19	22.25		
5	QPSK	12	0	21.47	21.42	21.51	23	1
5	QPSK	12	7	21.20	21.21	21.14		
5	QPSK	12	13	21.38	21.30	21.33		
5	QPSK	25	0	21.40	21.43	21.47		
5	16QAM	1	0	21.72	21.66	21.73	23	1
5	16QAM	1	12	21.54	21.56	21.52		
5	16QAM	1	24	21.69	21.68	21.70		
5	16QAM	12	0	20.49	20.49	20.40	22	2
5	16QAM	12	7	20.35	20.25	20.30		
5	16QAM	12	13	20.45	20.36	20.41		
5	16QAM	25	0	20.37	20.28	20.28		
5	64QAM	1	0	20.46	20.54	20.46	22	2
5	64QAM	1	12	20.63	20.50	20.52		
5	64QAM	1	24	20.52	20.45	20.41		
5	64QAM	12	0	20.56	20.50	20.35	21	3
5	64QAM	12	7	20.44	20.44	20.40		
5	64QAM	12	13	20.35	20.38	20.33		
5	64QAM	25	0	20.43	20.40	20.42		
5	256QAM	1	0	17.39	17.29	17.30	19	5
5	256QAM	1	12	17.16	17.29	17.31		
5	256QAM	1	24	17.26	17.19	17.27		
5	256QAM	12	0	17.33	17.49	17.36	19	5
5	256QAM	12	7	17.31	17.43	17.38		
5	256QAM	12	13	17.39	17.34	17.53		
5	256QAM	25	0	17.32	17.30	17.29		

Band 17 Ant1 DSI5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23780	23790	23800		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	22.60	22.66	22.51	24	0
10	QPSK	1	25	22.63	22.64	22.58		
10	QPSK	1	49	22.52	22.57	22.60		
10	QPSK	25	0	21.77	21.83	21.82	23	1
10	QPSK	25	12	21.56	21.62	21.51		
10	QPSK	25	25	21.74	21.71	21.64		
10	QPSK	50	0	21.71	21.79	21.71		

10	16QAM	1	0	22.00	22.02	22.09	23	1
10	16QAM	1	25	21.79	21.88	21.82		
10	16QAM	1	49	21.93	21.93	21.92		
10	16QAM	25	0	20.83	20.71	20.61	22	2
10	16QAM	25	12	20.55	20.54	20.56		
10	16QAM	25	25	20.71	20.68	20.65		
10	16QAM	50	0	20.59	20.64	20.55		
10	64QAM	1	0	20.77	20.72	20.71	22	2
10	64QAM	1	25	20.81	20.82	20.81		
10	64QAM	1	49	20.66	20.76	20.70		
10	64QAM	25	0	20.82	20.78	20.72	21	3
10	64QAM	25	12	20.69	20.77	20.68		
10	64QAM	25	25	20.60	20.62	20.63		
10	64QAM	50	0	20.71	20.74	20.68		
10	256QAM	1	0	17.58	17.58	17.65	19	5
10	256QAM	1	25	17.50	17.61	17.58		
10	256QAM	1	49	17.51	17.48	17.54		
10	256QAM	25	0	17.64	17.74	17.66	19	5
10	256QAM	25	12	17.62	17.63	17.73		
10	256QAM	25	25	17.72	17.61	17.75		
10	256QAM	50	0	17.57	17.60	17.52		
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	22.47	22.56	22.37	24	0
5	QPSK	1	12	22.52	22.54	22.53		
5	QPSK	1	24	22.45	22.49	22.44		
5	QPSK	12	0	21.70	21.73	21.75	23	1
5	QPSK	12	7	21.41	21.48	21.36		
5	QPSK	12	13	21.69	21.61	21.52		
5	QPSK	25	0	21.57	21.67	21.57		
5	16QAM	1	0	21.87	21.93	21.99	23	1
5	16QAM	1	12	21.73	21.77	21.68		
5	16QAM	1	24	21.85	21.85	21.82		
5	16QAM	12	0	20.69	20.62	20.57	22	2
5	16QAM	12	7	20.51	20.49	20.46		
5	16QAM	12	13	20.60	20.62	20.59		
5	16QAM	25	0	20.44	20.53	20.42		
5	64QAM	1	0	20.63	20.63	20.59	22	2
5	64QAM	1	12	20.68	20.76	20.69		
5	64QAM	1	24	20.60	20.63	20.62		
5	64QAM	12	0	20.75	20.70	20.57		
5	64QAM	12	7	20.57	20.71	20.63	21	3
5	64QAM	12	13	20.54	20.56	20.51		
5	64QAM	25	0	20.57	20.69	20.55		
5	256QAM	1	0	17.46	17.49	17.54		
5	256QAM	1	12	17.46	17.57	17.48	19	5
5	256QAM	1	24	17.39	17.43	17.44		

5	256QAM	12	0	17.49	17.61	17.56	19	5
5	256QAM	12	7	17.51	17.54	17.59		
5	256QAM	12	13	17.60	17.57	17.64		
5	256QAM	25	0	17.48	17.55	17.42		

Band 26 Ant1 DSI5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26765	26865	26965		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	22.30	22.34	22.22	24	0
15	QPSK	1	37	22.23	22.30	22.32		
15	QPSK	1	74	22.19	22.22	22.26		
15	QPSK	36	0	21.47	21.49	21.47	23	1
15	QPSK	36	20	21.21	21.26	21.10		
15	QPSK	36	39	21.37	21.32	21.40		
15	QPSK	75	0	21.40	21.47	21.40	23	1
15	16QAM	1	0	21.72	21.67	21.74		
15	16QAM	1	37	21.53	21.55	21.53		
15	16QAM	1	74	21.59	21.59	21.65	22	2
15	16QAM	36	0	20.50	20.45	20.34		
15	16QAM	36	20	20.22	20.22	20.31		
15	16QAM	36	39	20.37	20.35	20.27	22	2
15	16QAM	75	0	20.34	20.25	20.26		
15	64QAM	1	0	20.53	20.50	20.42	22	2
15	64QAM	1	37	20.56	20.45	20.49		
15	64QAM	1	74	20.46	20.41	20.39		
15	64QAM	36	0	20.52	20.49	20.40	21	3
15	64QAM	36	20	20.49	20.37	20.43		
15	64QAM	36	39	20.34	20.35	20.32		
15	64QAM	75	0	20.36	20.37	20.38	19	5
15	256QAM	1	0	17.25	17.25	17.25		
15	256QAM	1	37	17.11	17.27	17.27		
15	256QAM	1	74	17.21	17.19	17.31	19	5
15	256QAM	36	0	17.44	17.34	17.36		
15	256QAM	36	20	17.25	17.28	17.44		
15	256QAM	36	39	17.39	17.30	17.41	19	5
15	256QAM	75	0	17.30	17.30	17.30		
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	22.20	22.21	22.06		
10	QPSK	1	25	22.12	22.17	22.21	24	0
10	QPSK	1	49	22.09	22.18	22.14		
10	QPSK	25	0	21.41	21.35	21.33	23	1
10	QPSK	25	12	21.11	21.20	21.03		
10	QPSK	25	25	21.33	21.23	21.32		
10	QPSK	50	0	21.30	21.40	21.26	23	1

10	16QAM	1	0	21.61	21.60	21.67	23	1
10	16QAM	1	25	21.47	21.45	21.39		
10	16QAM	1	49	21.47	21.50	21.60		
10	16QAM	25	0	20.45	20.35	20.21	22	2
10	16QAM	25	12	20.11	20.16	20.16		
10	16QAM	25	25	20.26	20.21	20.18		
10	16QAM	50	0	20.25	20.12	20.12		
10	64QAM	1	0	20.38	20.35	20.36	22	2
10	64QAM	1	25	20.42	20.34	20.41		
10	64QAM	1	49	20.38	20.32	20.29		
10	64QAM	25	0	20.47	20.43	20.27	21	3
10	64QAM	25	12	20.41	20.24	20.36		
10	64QAM	25	25	20.27	20.20	20.17		
10	64QAM	50	0	20.30	20.32	20.24		
10	256QAM	1	0	17.16	17.20	17.20	19	5
10	256QAM	1	25	17.06	17.20	17.13		
10	256QAM	1	49	17.07	17.15	17.17		
10	256QAM	25	0	17.37	17.21	17.32	19	5
10	256QAM	25	12	17.10	17.13	17.30		
10	256QAM	25	25	17.34	17.14	17.31		
10	256QAM	50	0	17.25	17.20	17.22		
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	22.22	22.21	22.14	24	0
5	QPSK	1	12	22.11	22.23	22.27		
5	QPSK	1	24	22.05	22.11	22.16		
5	QPSK	12	0	21.32	21.35	21.39	23	1
5	QPSK	12	7	21.13	21.13	21.06		
5	QPSK	12	13	21.27	21.22	21.28		
5	QPSK	25	0	21.29	21.32	21.30		
5	16QAM	1	0	21.65	21.55	21.69	23	1
5	16QAM	1	12	21.47	21.49	21.40		
5	16QAM	1	24	21.54	21.52	21.50		
5	16QAM	12	0	20.42	20.32	20.23	22	2
5	16QAM	12	7	20.08	20.09	20.15		
5	16QAM	12	13	20.28	20.22	20.15		
5	16QAM	25	0	20.20	20.14	20.17		
5	64QAM	1	0	20.43	20.43	20.38	22	2
5	64QAM	1	12	20.45	20.39	20.40		
5	64QAM	1	24	20.35	20.25	20.27		
5	64QAM	12	0	20.40	20.36	20.30	21	3
5	64QAM	12	7	20.36	20.31	20.34		
5	64QAM	12	13	20.27	20.21	20.20		
5	64QAM	25	0	20.23	20.31	20.27		
5	256QAM	1	0	17.12	17.17	17.13	19	5
5	256QAM	1	12	17.04	17.13	17.20		
5	256QAM	1	24	17.16	17.09	17.27		

5	256QAM	12	0	17.34	17.22	17.24	19	5
5	256QAM	12	7	17.15	17.14	17.34		
5	256QAM	12	13	17.28	17.22	17.28		
5	256QAM	25	0	17.21	17.25	17.23		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	22.16	22.29	22.08	24	0
3	QPSK	1	8	22.17	22.15	22.22		
3	QPSK	1	14	22.10	22.10	22.13		
3	QPSK	8	0	21.36	21.39	21.38	23	1
3	QPSK	8	4	21.09	21.16	21.04		
3	QPSK	8	7	21.30	21.21	21.32		
3	QPSK	15	0	21.33	21.36	21.25		
3	16QAM	1	0	21.66	21.56	21.60	23	1
3	16QAM	1	8	21.39	21.40	21.48		
3	16QAM	1	14	21.54	21.54	21.52		
3	16QAM	8	0	20.35	20.33	20.27	22	2
3	16QAM	8	4	20.06	20.11	20.21		
3	16QAM	8	7	20.30	20.24	20.15		
3	16QAM	15	0	20.24	20.15	20.18		
3	64QAM	1	0	20.48	20.39	20.27	22	2
3	64QAM	1	8	20.41	20.34	20.38		
3	64QAM	1	14	20.34	20.34	20.32		
3	64QAM	8	0	20.36	20.39	20.31	21	3
3	64QAM	8	4	20.37	20.29	20.31		
3	64QAM	8	7	20.23	20.22	20.18		
3	64QAM	15	0	20.25	20.24	20.24		
3	256QAM	1	0	17.17	17.19	17.17	19	5
3	256QAM	1	8	17.03	17.19	17.13		
3	256QAM	1	14	17.17	17.09	17.25		
3	256QAM	8	0	17.35	17.28	17.22	19	5
3	256QAM	8	4	17.19	17.23	17.35		
3	256QAM	8	7	17.26	17.24	17.36		
3	256QAM	15	0	17.23	17.18	17.22		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	22.15	22.22	22.15	24	0
1.4	QPSK	1	3	22.14	22.22	22.23		
1.4	QPSK	1	5	22.15	22.12	22.19		
1.4	QPSK	3	0	22.18	22.29	22.17		
1.4	QPSK	3	1	22.09	22.17	22.24		
1.4	QPSK	3	3	22.09	22.09	22.10		
1.4	QPSK	6	0	21.25	21.37	21.25	23	1
1.4	16QAM	1	0	21.58	21.54	21.64	23	1
1.4	16QAM	1	3	21.47	21.48	21.46		
1.4	16QAM	1	5	21.51	21.45	21.58		
1.4	16QAM	3	0	21.56	21.60	21.60		

1.4	16QAM	3	1	21.40	21.48	21.48		
1.4	16QAM	3	3	21.47	21.54	21.58		
1.4	16QAM	6	0	20.18	20.14	20.19	22	2
1.4	64QAM	1	0	20.42	20.44	20.37	22	2
1.4	64QAM	1	3	20.46	20.36	20.42		
1.4	64QAM	1	5	20.37	20.25	20.26		
1.4	64QAM	3	0	20.45	20.40	20.34		
1.4	64QAM	3	1	20.36	20.28	20.28		
1.4	64QAM	3	3	20.27	20.24	20.21		
1.4	64QAM	6	0	20.30	20.30	20.29	21	3
1.4	256QAM	1	0	17.17	17.15	17.21	19	5
1.4	256QAM	1	3	17.02	17.17	17.11		
1.4	256QAM	1	5	17.11	17.11	17.24		
1.4	256QAM	3	0	17.38	17.26	17.22		
1.4	256QAM	3	1	17.15	17.13	17.29		
1.4	256QAM	3	3	17.27	17.25	17.30		
1.4	256QAM	6	0	17.20	17.18	17.18	19	5

Band 71 Ant1 DSI5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				133222	133297	133372		
Frequency (MHz)				673	680.5	688		
20	QPSK	1	0	21.96	21.99	21.94	23.5	0
20	QPSK	1	49	21.91	21.96	21.90		
20	QPSK	1	99	21.92	21.93	21.92		
20	QPSK	50	0	21.04	21.12	21.05	22.5	1
20	QPSK	50	24	20.88	20.86	20.81		
20	QPSK	50	50	21.03	21.05	21.00		
20	QPSK	100	0	21.08	21.15	21.10		
20	16QAM	1	0	21.33	21.41	21.42	22.5	1
20	16QAM	1	49	21.19	21.20	21.23		
20	16QAM	1	99	21.22	21.17	21.33		
20	16QAM	50	0	20.13	20.11	20.00	21.5	2
20	16QAM	50	24	19.85	19.88	19.87		
20	16QAM	50	50	20.05	20.04	19.93		
20	16QAM	100	0	19.91	19.96	19.87		
20	64QAM	1	0	20.18	20.05	20.00	21.5	2
20	64QAM	1	49	20.19	20.15	20.12		
20	64QAM	1	99	19.99	20.01	20.01		
20	64QAM	50	0	20.22	20.09	19.99	20.5	3
20	64QAM	50	24	20.02	20.05	20.10		
20	64QAM	50	50	19.94	19.99	19.97		
20	64QAM	100	0	20.01	20.06	20.10		
20	256QAM	1	0	16.89	16.92	16.96	18.5	5
20	256QAM	1	49	16.83	16.89	16.93		

20	256QAM	1	99	16.87	16.84	16.89	18.5	5
20	256QAM	50	0	16.99	17.09	16.92		
20	256QAM	50	24	16.88	16.92	17.02		
20	256QAM	50	50	17.04	17.05	17.14		
20	256QAM	100	0	16.90	16.91	16.89		
Channel				133197	133297	133397	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	0	21.83	21.84	21.85	23.5	0
15	QPSK	1	37	21.82	21.87	21.84		
15	QPSK	1	74	21.83	21.77	21.83		
15	QPSK	36	0	20.89	20.96	20.94	22.5	1
15	QPSK	36	20	20.76	20.76	20.70		
15	QPSK	36	39	20.98	20.96	20.93		
15	QPSK	75	0	20.94	20.99	20.97		
15	16QAM	1	0	21.24	21.36	21.36	22.5	1
15	16QAM	1	37	21.04	21.15	21.13		
15	16QAM	1	74	21.10	21.07	21.20		
15	16QAM	36	0	20.03	20.02	19.93	21.5	2
15	16QAM	36	20	19.77	19.79	19.79		
15	16QAM	36	39	19.95	19.94	19.87		
15	16QAM	75	0	19.86	19.92	19.77		
15	64QAM	1	0	20.09	19.89	19.94	21.5	2
15	64QAM	1	37	20.13	20.08	19.99		
15	64QAM	1	74	19.84	19.93	19.93		
15	64QAM	36	0	20.09	19.97	19.89	20.5	3
15	64QAM	36	20	19.96	19.95	20.00		
15	64QAM	36	39	19.81	19.87	19.87		
15	64QAM	75	0	19.90	19.96	19.96		
15	256QAM	1	0	16.80	16.84	16.89	18.5	5
15	256QAM	1	37	16.71	16.75	16.84		
15	256QAM	1	74	16.81	16.73	16.81		
15	256QAM	36	0	16.89	17.03	16.78	18.5	5
15	256QAM	36	20	16.84	16.83	16.97		
15	256QAM	36	39	16.91	16.94	17.02		
15	256QAM	75	0	16.78	16.82	16.78		
Channel				133172	133297	133422	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	680.5	693		
10	QPSK	1	0	21.91	21.93	21.88	23.5	0
10	QPSK	1	25	21.79	21.91	21.79		
10	QPSK	1	49	21.83	21.85	21.83		
10	QPSK	25	0	20.88	20.98	20.98	22.5	1
10	QPSK	25	12	20.74	20.78	20.71		
10	QPSK	25	25	20.87	20.99	20.93		
10	QPSK	50	0	20.93	20.99	21.06		
10	16QAM	1	0	21.21	21.31	21.28	22.5	1
10	16QAM	1	25	21.15	21.14	21.19		
10	16QAM	1	49	21.17	21.08	21.28		



10	16QAM	25	0	20.02	20.00	19.85	21.5	2
10	16QAM	25	12	19.70	19.84	19.77		
10	16QAM	25	25	19.97	19.92	19.81		
10	16QAM	50	0	19.77	19.90	19.72		
10	64QAM	1	0	20.02	19.99	19.91	21.5	2
10	64QAM	1	25	20.06	20.01	19.96		
10	64QAM	1	49	19.88	19.87	19.88		
10	64QAM	25	0	20.16	20.04	19.87	20.5	3
10	64QAM	25	12	19.97	19.90	20.06		
10	64QAM	25	25	19.86	19.89	19.91		
10	64QAM	50	0	19.88	19.94	20.05		
10	256QAM	1	0	16.84	16.79	16.92	18.5	5
10	256QAM	1	25	16.77	16.83	16.86		
10	256QAM	1	49	16.76	16.68	16.74		
10	256QAM	25	0	16.90	16.93	16.86	18.5	5
10	256QAM	25	12	16.75	16.82	16.87		
10	256QAM	25	25	16.92	16.89	17.00		
10	256QAM	50	0	16.86	16.84	16.74		
Channel				133147	133297	133447	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	0	21.81	21.92	21.83	23.5	0
5	QPSK	1	12	21.81	21.84	21.82		
5	QPSK	1	24	21.81	21.82	21.76		
5	QPSK	12	0	20.91	21.07	20.96	22.5	1
5	QPSK	12	7	20.73	20.78	20.68		
5	QPSK	12	13	20.93	20.99	20.90		
5	QPSK	25	0	21.03	21.09	20.96		
5	16QAM	1	0	21.26	21.26	21.34	22.5	1
5	16QAM	1	12	21.08	21.12	21.15		
5	16QAM	1	24	21.07	21.09	21.22		
5	16QAM	12	0	20.09	19.97	19.85	21.5	2
5	16QAM	12	7	19.73	19.79	19.75		
5	16QAM	12	13	19.91	19.88	19.85		
5	16QAM	25	0	19.84	19.91	19.73		
5	64QAM	1	0	20.12	19.91	19.87	21.5	2
5	64QAM	1	12	20.10	20.00	20.05		
5	64QAM	1	24	19.85	19.92	19.94		
5	64QAM	12	0	20.06	20.00	19.86	20.5	3
5	64QAM	12	7	19.86	20.00	20.02		
5	64QAM	12	13	19.80	19.87	19.88		
5	64QAM	25	0	19.88	19.93	19.96		
5	256QAM	1	0	16.83	16.83	16.85	18.5	5
5	256QAM	1	12	16.73	16.83	16.88		
5	256QAM	1	24	16.74	16.73	16.78		
5	256QAM	12	0	16.90	17.01	16.78	18.5	5
5	256QAM	12	7	16.81	16.81	16.91		
5	256QAM	12	13	16.90	16.89	17.06		



5	256QAM	25	0	16.77	16.76	16.82		
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Band 2 Ant2 DSI5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	20.83	20.94	20.85	21.7	0
20	QPSK	1	49	20.81	20.93	20.93		
20	QPSK	1	99	20.88	20.90	20.84		
20	QPSK	50	0	20.80	20.88	20.80	21.7	0
20	QPSK	50	24	20.72	20.86	20.84		
20	QPSK	50	50	20.80	20.76	20.76		
20	QPSK	100	0	20.80	20.83	20.80		
20	16QAM	1	0	20.80	20.85	20.74	21.7	0
20	16QAM	1	49	20.78	20.85	20.87		
20	16QAM	1	99	20.78	20.84	20.80		
20	16QAM	50	0	20.74	20.89	20.82	21.7	0
20	16QAM	50	24	20.78	20.87	20.89		
20	16QAM	50	50	20.83	20.85	20.81		
20	16QAM	100	0	20.77	20.86	20.78		
20	64QAM	1	0	20.79	20.91	20.76	21.7	0
20	64QAM	1	49	20.73	20.83	20.91		
20	64QAM	1	99	20.79	20.83	20.81		
20	64QAM	50	0	20.80	20.72	20.66	21.7	0
20	64QAM	50	24	20.79	20.69	20.70		
20	64QAM	50	50	20.84	20.77	20.74		
20	64QAM	100	0	20.64	20.73	20.78		
20	256QAM	1	0	18.63	18.54	18.59	20	1.7
20	256QAM	1	49	18.64	18.59	18.60		
20	256QAM	1	99	18.57	18.56	18.63		
20	256QAM	50	0	18.68	18.58	18.63	20	1.7
20	256QAM	50	24	18.57	18.51	18.51		
20	256QAM	50	50	18.55	18.57	18.64		
20	256QAM	100	0	18.69	18.69	18.66		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	20.80	20.89	20.76	21.7	0
15	QPSK	1	37	20.78	20.84	20.86		
15	QPSK	1	74	20.79	20.87	20.76		
15	QPSK	36	0	20.70	20.82	20.76	21.7	0
15	QPSK	36	20	20.68	20.84	20.82		
15	QPSK	36	39	20.75	20.72	20.67		
15	QPSK	75	0	20.72	20.77	20.73		
15	16QAM	1	0	20.75	20.79	20.69	21.7	0
15	16QAM	1	37	20.74	20.76	20.82		
15	16QAM	1	74	20.69	20.78	20.75		



15	16QAM	36	0	20.70	20.85	20.79	21.7	0
15	16QAM	36	20	20.72	20.81	20.87		
15	16QAM	36	39	20.78	20.75	20.76		
15	16QAM	75	0	20.75	20.83	20.68	21.7	0
15	64QAM	1	0	20.75	20.86	20.73		
15	64QAM	1	37	20.70	20.81	20.86		
15	64QAM	1	74	20.77	20.75	20.78	21.7	0
15	64QAM	36	0	20.32	20.49	20.50		
15	64QAM	36	20	20.62	20.63	20.58		
15	64QAM	36	39	20.43	20.52	20.38	21.7	0
15	64QAM	75	0	20.43	20.49	20.44		
15	256QAM	1	0	18.57	18.38	18.42		
15	256QAM	1	37	18.57	18.41	18.42	20	1.7
15	256QAM	1	74	18.46	18.53	18.60		
15	256QAM	36	0	18.53	18.45	18.58		
15	256QAM	36	20	18.54	18.35	18.45	20	1.7
15	256QAM	36	39	18.45	18.44	18.46		
15	256QAM	75	0	18.58	18.55	18.56		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	20.79	20.86	20.82	21.7	0
10	QPSK	1	25	20.77	20.84	20.90		
10	QPSK	1	49	20.85	20.82	20.80		
10	QPSK	25	0	20.75	20.83	20.72	21.7	0
10	QPSK	25	12	20.62	20.82	20.77		
10	QPSK	25	25	20.73	20.72	20.73		
10	QPSK	50	0	20.71	20.80	20.73	21.7	0
10	16QAM	1	0	20.75	20.77	20.69		
10	16QAM	1	25	20.75	20.79	20.79		
10	16QAM	1	49	20.73	20.81	20.76	21.7	0
10	16QAM	25	0	20.70	20.80	20.77		
10	16QAM	25	12	20.70	20.83	20.82		
10	16QAM	25	25	20.77	20.78	20.78	21.7	0
10	16QAM	50	0	20.74	20.78	20.70		
10	64QAM	1	0	20.69	20.86	20.67		
10	64QAM	1	25	20.70	20.79	20.88	21.7	0
10	64QAM	1	49	20.70	20.73	20.72		
10	64QAM	25	0	20.33	20.46	20.55		
10	64QAM	25	12	20.51	20.60	20.57	21.7	0
10	64QAM	25	25	20.45	20.45	20.37		
10	64QAM	50	0	20.49	20.41	20.44		
10	256QAM	1	0	18.47	18.49	18.43	20	1.7
10	256QAM	1	25	18.62	18.47	18.57		
10	256QAM	1	49	18.48	18.47	18.56		
10	256QAM	25	0	18.61	18.50	18.61	20	1.7
10	256QAM	25	12	18.51	18.45	18.48		
10	256QAM	25	25	18.38	18.51	18.55		

10	256QAM	50	0	18.58	18.53	18.49		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	20.79	20.90	20.79	21.7	0
5	QPSK	1	12	20.73	20.90	20.90		
5	QPSK	1	24	20.84	20.86	20.81		
5	QPSK	12	0	20.70	20.81	20.76	21.7	0
5	QPSK	12	7	20.67	20.84	20.80		
5	QPSK	12	13	20.71	20.71	20.72		
5	QPSK	25	0	20.71	20.77	20.74		
5	16QAM	1	0	20.72	20.83	20.66	21.7	0
5	16QAM	1	12	20.76	20.80	20.80		
5	16QAM	1	24	20.72	20.78	20.74		
5	16QAM	12	0	20.68	20.83	20.77	21.7	0
5	16QAM	12	7	20.72	20.81	20.79		
5	16QAM	12	13	20.73	20.75	20.78		
5	16QAM	25	0	20.68	20.78	20.74		
5	64QAM	1	0	20.73	20.88	20.69	21.7	0
5	64QAM	1	12	20.66	20.81	20.86		
5	64QAM	1	24	20.73	20.77	20.73		
5	64QAM	12	0	20.37	20.43	20.45	21.7	0
5	64QAM	12	7	20.56	20.61	20.58		
5	64QAM	12	13	20.53	20.54	20.48		
5	64QAM	25	0	20.34	20.39	20.38	20	1.7
5	256QAM	1	0	18.48	18.44	18.51		
5	256QAM	1	12	18.51	18.44	18.54		
5	256QAM	1	24	18.50	18.47	18.50	20	1.7
5	256QAM	12	0	18.65	18.49	18.51		
5	256QAM	12	7	18.49	18.40	18.41		
5	256QAM	12	13	18.48	18.50	18.50		
5	256QAM	25	0	18.58	18.59	18.52		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	20.75	20.88	20.82	21.7	0
3	QPSK	1	8	20.78	20.83	20.87		
3	QPSK	1	14	20.86	20.85	20.81		
3	QPSK	8	0	20.74	20.79	20.72	21.7	0
3	QPSK	8	4	20.63	20.80	20.77		
3	QPSK	8	7	20.76	20.68	20.73		
3	QPSK	15	0	20.75	20.76	20.77		
3	16QAM	1	0	20.78	20.83	20.71	21.7	0
3	16QAM	1	8	20.76	20.79	20.77		
3	16QAM	1	14	20.69	20.79	20.78		
3	16QAM	8	0	20.70	20.86	20.73	21.7	0
3	16QAM	8	4	20.70	20.84	20.80		
3	16QAM	8	7	20.78	20.78	20.78		
3	16QAM	15	0	20.70	20.83	20.69		

3	64QAM	1	0	20.76	20.81	20.71	21.7	0
3	64QAM	1	8	20.68	20.74	20.86		
3	64QAM	1	14	20.76	20.77	20.75		
3	64QAM	8	0	20.31	20.40	20.55	21.7	0
3	64QAM	8	4	20.60	20.67	20.59		
3	64QAM	8	7	20.54	20.41	20.44		
3	64QAM	15	0	20.43	20.40	20.51		
3	256QAM	1	0	18.49	18.44	18.43	20	1.7
3	256QAM	1	8	18.49	18.55	18.51		
3	256QAM	1	14	18.48	18.53	18.50		
3	256QAM	8	0	18.62	18.42	18.57	20	1.7
3	256QAM	8	4	18.46	18.49	18.35		
3	256QAM	8	7	18.51	18.51	18.51		
3	256QAM	15	0	18.62	18.64	18.54		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	20.80	20.85	20.77	21.7	0
1.4	QPSK	1	3	20.74	20.84	20.90		
1.4	QPSK	1	5	20.85	20.87	20.78		
1.4	QPSK	3	0	20.77	20.88	20.79		
1.4	QPSK	3	1	20.77	20.89	20.78		
1.4	QPSK	3	3	20.76	20.84	20.87		
1.4	QPSK	6	0	20.79	20.85	20.77	21.7	0
1.4	16QAM	1	0	20.78	20.83	20.72	21.7	0
1.4	16QAM	1	3	20.63	20.77	20.77		
1.4	16QAM	1	5	20.72	20.71	20.66		
1.4	16QAM	3	0	20.71	20.73	20.77		
1.4	16QAM	3	1	20.70	20.76	20.71		
1.4	16QAM	3	3	20.73	20.77	20.80		
1.4	16QAM	6	0	20.74	20.74	20.75	21.7	0
1.4	64QAM	1	0	20.70	20.82	20.72	21.7	0
1.4	64QAM	1	3	20.73	20.83	20.81		
1.4	64QAM	1	5	20.73	20.78	20.78		
1.4	64QAM	3	0	20.72	20.78	20.72		
1.4	64QAM	3	1	20.75	20.88	20.73		
1.4	64QAM	3	3	20.63	20.78	20.89		
1.4	64QAM	6	0	20.75	20.73	20.75	21.7	0
1.4	256QAM	1	0	18.60	18.47	18.48	20	1.7
1.4	256QAM	1	3	18.56	18.41	18.46		
1.4	256QAM	1	5	18.52	18.48	18.48		
1.4	256QAM	3	0	18.62	18.42	18.50		
1.4	256QAM	3	1	18.42	18.39	18.37		
1.4	256QAM	3	3	18.51	18.52	18.51		
1.4	256QAM	6	0	18.55	18.58	18.60	20	1.7

Band 4 Ant2 DSI5

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	21.20	21.41	21.22	22.1	0
20	QPSK	1	49	21.19	21.24	21.29		
20	QPSK	1	99	21.29	21.36	21.18		
20	QPSK	50	0	21.00	21.13	21.04	22.1	0
20	QPSK	50	24	20.99	21.08	21.06		
20	QPSK	50	50	20.99	20.94	21.04		
20	QPSK	100	0	20.95	21.01	20.91	22.1	0
20	16QAM	1	0	20.52	20.64	20.41		
20	16QAM	1	49	20.56	20.50	20.43		
20	16QAM	1	99	20.32	20.53	20.29	22.1	0
20	16QAM	50	0	21.22	21.42	21.15		
20	16QAM	50	24	21.17	21.25	21.30		
20	16QAM	50	50	21.23	21.31	21.17	22.1	0
20	16QAM	100	0	21.25	21.33	21.19		
20	64QAM	1	0	21.25	21.42	21.16		
20	64QAM	1	49	21.10	21.17	21.22	22.1	0
20	64QAM	1	99	21.28	21.31	21.23		
20	64QAM	50	0	20.68	20.59	20.51		
20	64QAM	50	24	20.64	20.63	20.62	22	0.1
20	64QAM	50	50	20.46	20.55	20.64		
20	64QAM	100	0	20.75	20.71	20.75		
20	256QAM	1	0	18.73	18.73	18.75	20	2.1
20	256QAM	1	49	18.54	18.55	18.54		
20	256QAM	1	99	18.69	18.73	18.81		
20	256QAM	50	0	18.59	18.49	18.51	20	2.1
20	256QAM	50	24	18.52	18.51	18.61		
20	256QAM	50	50	18.80	18.70	18.60		
20	256QAM	100	0	18.54	18.52	18.54		
Channel				20025	20175	20325		
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	21.16	21.38	21.14	22.1	0
15	QPSK	1	37	21.14	21.13	21.25		
15	QPSK	1	74	21.25	21.33	21.12		
15	QPSK	36	0	20.97	21.07	21.01	22.1	0
15	QPSK	36	20	20.89	20.98	20.95		
15	QPSK	36	39	20.88	20.85	21.01		
15	QPSK	75	0	20.88	20.97	20.81	22.1	0
15	16QAM	1	0	20.40	20.55	20.32		
15	16QAM	1	37	20.43	20.47	20.35		
15	16QAM	1	74	20.29	20.46	20.17	22.1	0
15	16QAM	36	0	21.11	21.35	21.09		
15	16QAM	36	20	21.08	21.15	21.18		
15	16QAM	36	39	21.20	21.18	21.05		



15	16QAM	75	0	21.14	21.29	21.08		
15	64QAM	1	0	21.22	21.28	21.11	22.1	0
15	64QAM	1	37	20.97	21.09	21.08		
15	64QAM	1	74	21.16	21.21	21.21		
15	64QAM	36	0	20.52	20.52	20.48	22	0.1
15	64QAM	36	20	20.55	20.56	20.54		
15	64QAM	36	39	20.39	20.41	20.61		
15	64QAM	75	0	20.64	20.57	20.64		
15	256QAM	1	0	18.65	18.56	18.69	20	2.1
15	256QAM	1	37	18.52	18.52	18.47		
15	256QAM	1	74	18.59	18.57	18.71		
15	256QAM	36	0	18.53	18.36	18.35	20	2.1
15	256QAM	36	20	18.38	18.44	18.53		
15	256QAM	36	39	18.69	18.54	18.42		
15	256QAM	75	0	18.37	18.43	18.43		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	21.11	21.37	21.10	22.1	0
10	QPSK	1	25	21.12	21.14	21.19		
10	QPSK	1	49	21.20	21.27	21.05		
10	QPSK	25	0	20.88	21.04	20.98	22.1	0
10	QPSK	25	12	20.89	21.03	21.00		
10	QPSK	25	25	20.91	20.88	21.01		
10	QPSK	50	0	20.87	20.90	20.84		
10	16QAM	1	0	20.44	20.54	20.30	22.1	0
10	16QAM	1	25	20.52	20.47	20.30		
10	16QAM	1	49	20.26	20.44	20.25		
10	16QAM	25	0	21.11	21.35	21.04	22.1	0
10	16QAM	25	12	21.07	21.12	21.25		
10	16QAM	25	25	21.10	21.22	21.04		
10	16QAM	50	0	21.15	21.23	21.08		
10	64QAM	1	0	21.21	21.30	21.12	22.1	0
10	64QAM	1	25	20.97	21.06	21.19		
10	64QAM	1	49	21.18	21.19	21.10		
10	64QAM	25	0	20.52	20.48	20.41	22	0.1
10	64QAM	25	12	20.53	20.60	20.45		
10	64QAM	25	25	20.29	20.49	20.46		
10	64QAM	50	0	20.72	20.54	20.69		
10	256QAM	1	0	18.69	18.58	18.59	20	2.1
10	256QAM	1	25	18.51	18.51	18.42		
10	256QAM	1	49	18.54	18.65	18.63		
10	256QAM	25	0	18.45	18.35	18.38	20	2.1
10	256QAM	25	12	18.36	18.43	18.58		
10	256QAM	25	25	18.68	18.54	18.54		
10	256QAM	50	0	18.50	18.47	18.38		
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		

5	QPSK	1	0	21.11	21.27	21.09	22.1	0
5	QPSK	1	12	21.06	21.19	21.16		
5	QPSK	1	24	21.26	21.31	21.06		
5	QPSK	12	0	20.94	21.03	20.97	22.1	0
5	QPSK	12	7	20.96	21.03	20.98		
5	QPSK	12	13	20.93	20.82	20.92		
5	QPSK	25	0	20.92	20.96	20.84		
5	16QAM	1	0	20.41	20.54	20.35	22.1	0
5	16QAM	1	12	20.49	20.42	20.36		
5	16QAM	1	24	20.28	20.47	20.15		
5	16QAM	12	0	21.11	21.30	21.05	22.1	0
5	16QAM	12	7	21.06	21.13	21.27		
5	16QAM	12	13	21.13	21.27	21.06		
5	16QAM	25	0	21.18	21.27	21.06		
5	64QAM	1	0	21.12	21.37	21.13	22.1	0
5	64QAM	1	12	20.98	21.07	21.13		
5	64QAM	1	24	21.25	21.18	21.12		
5	64QAM	12	0	20.61	20.41	20.42	22	0.1
5	64QAM	12	7	20.46	20.48	20.52		
5	64QAM	12	13	20.29	20.53	20.51		
5	64QAM	25	0	20.57	20.55	20.65		
5	256QAM	1	0	18.68	18.61	18.59	20	2.1
5	256QAM	1	12	18.49	18.45	18.47		
5	256QAM	1	24	18.57	18.67	18.64		
5	256QAM	12	0	18.54	18.44	18.40	20	2.1
5	256QAM	12	7	18.40	18.41	18.58		
5	256QAM	12	13	18.62	18.63	18.44		
5	256QAM	25	0	18.37	18.48	18.48		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	21.13	21.31	21.17	22.1	0
3	QPSK	1	8	21.08	21.20	21.23		
3	QPSK	1	14	21.26	21.29	21.15		
3	QPSK	8	0	20.95	21.05	20.91	22.1	0
3	QPSK	8	4	20.87	20.98	20.96		
3	QPSK	8	7	20.86	20.90	20.97		
3	QPSK	15	0	20.91	20.89	20.80		
3	16QAM	1	0	20.49	20.56	20.31	22.1	0
3	16QAM	1	8	20.49	20.44	20.35		
3	16QAM	1	14	20.22	20.44	20.19		
3	16QAM	8	0	21.14	21.38	21.05	22.1	0
3	16QAM	8	4	21.07	21.17	21.27		
3	16QAM	8	7	21.16	21.18	21.09		
3	16QAM	15	0	21.23	21.24	21.12		
3	64QAM	1	0	21.22	21.31	21.14	22.1	0
3	64QAM	1	8	21.04	21.13	21.12		
3	64QAM	1	14	21.26	21.18	21.10		

3	64QAM	8	0	20.55	20.45	20.45	22	0.1
3	64QAM	8	4	20.55	20.46	20.58		
3	64QAM	8	7	20.41	20.53	20.57		
3	64QAM	15	0	20.68	20.58	20.68		
3	256QAM	1	0	18.68	18.64	18.57	20	2.1
3	256QAM	1	8	18.40	18.51	18.37		
3	256QAM	1	14	18.62	18.67	18.74		
3	256QAM	8	0	18.44	18.42	18.34	20	2.1
3	256QAM	8	4	18.43	18.42	18.46		
3	256QAM	8	7	18.65	18.61	18.53		
3	256QAM	15	0	18.42	18.47	18.37		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	21.18	21.36	21.13	22.1	0
1.4	QPSK	1	3	21.08	21.22	21.22		
1.4	QPSK	1	5	21.17	21.27	21.05		
1.4	QPSK	3	0	20.87	21.04	20.90		
1.4	QPSK	3	1	20.96	20.99	20.97		
1.4	QPSK	3	3	20.89	20.87	20.96		
1.4	QPSK	6	0	20.90	20.94	20.88	22.1	0
1.4	16QAM	1	0	20.42	20.52	20.37	22.1	0
1.4	16QAM	1	3	20.47	20.47	20.32		
1.4	16QAM	1	5	20.20	20.48	20.18		
1.4	16QAM	3	0	21.14	21.39	21.02		
1.4	16QAM	3	1	21.07	21.15	21.20		
1.4	16QAM	3	3	21.12	21.27	21.06		
1.4	16QAM	6	0	21.21	21.30	21.15	21.5	0.6
1.4	64QAM	1	0	21.12	21.38	21.08	21.5	0.6
1.4	64QAM	1	3	20.98	21.07	21.11		
1.4	64QAM	1	5	21.11	21.28	21.18		
1.4	64QAM	3	0	21.07	21.29	21.16		
1.4	64QAM	3	1	21.11	21.28	21.17		
1.4	64QAM	3	3	21.29	21.28	21.17		
1.4	64QAM	6	0	20.54	20.42	20.48	22	0.1
1.4	256QAM	1	0	18.70	18.63	18.58	20	2.1
1.4	256QAM	1	3	18.45	18.46	18.49		
1.4	256QAM	1	5	18.64	18.59	18.64		
1.4	256QAM	3	0	18.48	18.43	18.35		
1.4	256QAM	3	1	18.38	18.38	18.43		
1.4	256QAM	3	3	18.74	18.62	18.43		
1.4	256QAM	6	0	18.47	18.44	18.49	20	2.1

Band 25 Ant2 DSI5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26140	26340	26590		
Frequency (MHz)				1860	1880	1905		

20	QPSK	1	0	20.87	21.03	20.98	21.7	0
20	QPSK	1	49	20.87	20.91	20.97		
20	QPSK	1	99	20.88	20.91	20.94		
20	QPSK	50	0	20.73	20.96	20.91	21.7	0
20	QPSK	50	24	20.81	20.79	20.85		
20	QPSK	50	50	20.79	20.87	20.89		
20	QPSK	100	0	20.77	20.98	20.90		
20	16QAM	1	0	20.78	20.94	20.87	21.7	0
20	16QAM	1	49	20.81	20.88	20.95		
20	16QAM	1	99	20.85	20.81	20.84		
20	16QAM	50	0	20.83	20.97	20.92	21.7	0
20	16QAM	50	24	20.85	20.87	20.87		
20	16QAM	50	50	20.80	20.81	20.89		
20	16QAM	100	0	20.84	20.95	20.94		
20	64QAM	1	0	20.82	20.98	20.94	21.7	0
20	64QAM	1	49	20.82	20.88	20.88		
20	64QAM	1	99	20.85	20.89	20.87		
20	64QAM	50	0	20.80	20.72	20.66	21.7	0
20	64QAM	50	24	20.79	20.69	20.70		
20	64QAM	50	50	20.84	20.77	20.74		
20	64QAM	100	0	20.64	20.73	20.78		
20	256QAM	1	0	18.79	18.87	18.82	20	1.7
20	256QAM	1	49	18.71	18.74	18.78		
20	256QAM	1	99	18.61	18.68	18.77		
20	256QAM	50	0	18.64	18.63	18.61	20	1.7
20	256QAM	50	24	18.60	18.67	18.76		
20	256QAM	50	50	18.56	18.53	18.43		
20	256QAM	100	0	18.70	18.70	18.79		
Channel				26115	26340	26615	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1907.5		
15	QPSK	1	0	20.82	20.96	20.88	21.7	0
15	QPSK	1	37	20.84	20.84	20.92		
15	QPSK	1	74	20.83	20.89	20.86		
15	QPSK	36	0	20.65	20.88	20.84	21.7	0
15	QPSK	36	20	20.78	20.70	20.81		
15	QPSK	36	39	20.71	20.78	20.87		
15	QPSK	75	0	20.69	20.89	20.88		
15	16QAM	1	0	20.75	20.91	20.83	21.7	0
15	16QAM	1	37	20.77	20.84	20.87		
15	16QAM	1	74	20.79	20.74	20.75		
15	16QAM	36	0	20.77	20.92	20.89	21.7	0
15	16QAM	36	20	20.77	20.81	20.78		
15	16QAM	36	39	20.77	20.74	20.83		
15	16QAM	75	0	20.79	20.88	20.85		
15	64QAM	1	0	20.75	20.95	20.87	21.7	0
15	64QAM	1	37	20.80	20.81	20.85		
15	64QAM	1	74	20.80	20.86	20.85		

15	64QAM	36	0	20.64	20.58	20.58	21.7	0
15	64QAM	36	20	20.66	20.65	20.64		
15	64QAM	36	39	20.70	20.73	20.59		
15	64QAM	75	0	20.58	20.57	20.75		
15	256QAM	1	0	18.65	18.78	18.79	20	1.7
15	256QAM	1	37	18.67	18.60	18.66		
15	256QAM	1	74	18.49	18.56	18.70		
15	256QAM	36	0	18.59	18.58	18.54	20	1.7
15	256QAM	36	20	18.53	18.57	18.65		
15	256QAM	36	39	18.40	18.40	18.32		
15	256QAM	75	0	18.57	18.67	18.70		
Channel				26090	26340	26640	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1910		
10	QPSK	1	0	20.79	20.96	20.95	21.7	0
10	QPSK	1	25	20.82	20.81	20.90		
10	QPSK	1	49	20.81	20.85	20.87		
10	QPSK	25	0	20.64	20.89	20.83	21.7	0
10	QPSK	25	12	20.74	20.77	20.81		
10	QPSK	25	25	20.73	20.82	20.80		
10	QPSK	50	0	20.71	20.89	20.81		
10	16QAM	1	0	20.73	20.88	20.85	21.7	0
10	16QAM	1	25	20.72	20.79	20.92		
10	16QAM	1	49	20.82	20.76	20.76		
10	16QAM	25	0	20.75	20.93	20.88	21.7	0
10	16QAM	25	12	20.80	20.77	20.82		
10	16QAM	25	25	20.77	20.76	20.85		
10	16QAM	50	0	20.80	20.89	20.90		
10	64QAM	1	0	20.79	20.92	20.90	21.7	0
10	64QAM	1	25	20.79	20.81	20.83		
10	64QAM	1	49	20.76	20.83	20.79		
10	64QAM	25	0	20.78	20.58	20.63	21.7	0
10	64QAM	25	12	20.68	20.52	20.61		
10	64QAM	25	25	20.74	20.60	20.69		
10	64QAM	50	0	20.59	20.60	20.63		
10	256QAM	1	0	18.69	18.81	18.76	20	1.7
10	256QAM	1	25	18.66	18.58	18.74		
10	256QAM	1	49	18.45	18.63	18.69		
10	256QAM	25	0	18.61	18.59	18.52	20	1.7
10	256QAM	25	12	18.54	18.59	18.65		
10	256QAM	25	25	18.45	18.40	18.38		
10	256QAM	50	0	18.61	18.57	18.71		
Channel				26065	26340	26665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1912.5		
5	QPSK	1	0	20.77	20.95	20.89	21.7	0
5	QPSK	1	12	20.84	20.87	20.87		
5	QPSK	1	24	20.79	20.89	20.90		
5	QPSK	12	0	20.70	20.91	20.85	21.7	0

5	QPSK	12	7	20.78	20.76	20.79		
5	QPSK	12	13	20.76	20.78	20.79		
5	QPSK	25	0	20.71	20.95	20.86		
5	16QAM	1	0	20.68	20.89	20.78	21.7	0
5	16QAM	1	12	20.74	20.81	20.87		
5	16QAM	1	24	20.83	20.78	20.82		
5	16QAM	12	0	20.76	20.94	20.85	21.7	0
5	16QAM	12	7	20.76	20.78	20.83		
5	16QAM	12	13	20.71	20.74	20.79		
5	16QAM	25	0	20.74	20.92	20.88		
5	64QAM	1	0	20.78	20.93	20.90	21.7	0
5	64QAM	1	12	20.78	20.84	20.82		
5	64QAM	1	24	20.76	20.83	20.83		
5	64QAM	12	0	20.71	20.59	20.51	21.7	0
5	64QAM	12	7	20.64	20.64	20.63		
5	64QAM	12	13	20.68	20.75	20.68		
5	64QAM	25	0	20.53	20.68	20.70		
5	256QAM	1	0	18.67	18.83	18.68	20	1.7
5	256QAM	1	12	18.65	18.69	18.63		
5	256QAM	1	24	18.49	18.53	18.67		
5	256QAM	12	0	18.47	18.46	18.52	20	1.7
5	256QAM	12	7	18.46	18.61	18.66		
5	256QAM	12	13	18.53	18.35	18.26		
5	256QAM	25	0	18.62	18.52	18.62		
Channel				26055	26340	26675	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1913.5		
3	QPSK	1	0	20.80	21.00	20.89	21.7	0
3	QPSK	1	8	20.80	20.88	20.88		
3	QPSK	1	14	20.83	20.87	20.90		
3	QPSK	8	0	20.65	20.90	20.83	21.7	0
3	QPSK	8	4	20.76	20.74	20.79		
3	QPSK	8	7	20.76	20.83	20.80		
3	QPSK	15	0	20.70	20.93	20.85		
3	16QAM	1	0	20.72	20.86	20.83	21.7	0
3	16QAM	1	8	20.75	20.80	20.89		
3	16QAM	1	14	20.77	20.78	20.74		
3	16QAM	8	0	20.80	20.89	20.84	21.7	0
3	16QAM	8	4	20.83	20.82	20.85		
3	16QAM	8	7	20.70	20.74	20.85		
3	16QAM	15	0	20.80	20.92	20.89		
3	64QAM	1	0	20.79	20.93	20.90	21.7	0
3	64QAM	1	8	20.73	20.86	20.78		
3	64QAM	1	14	20.78	20.79	20.83		
3	64QAM	8	0	20.64	20.55	20.55	21.7	0
3	64QAM	8	4	20.74	20.64	20.66		
3	64QAM	8	7	20.74	20.67	20.58		
3	64QAM	15	0	20.51	20.67	20.62		

3	256QAM	1	0	18.65	18.81	18.69	20	1.7
3	256QAM	1	8	18.60	18.56	18.64		
3	256QAM	1	14	18.51	18.53	18.70		
3	256QAM	8	0	18.49	18.49	18.52	20	1.7
3	256QAM	8	4	18.52	18.50	18.72		
3	256QAM	8	7	18.46	18.50	18.25		
3	256QAM	15	0	18.58	18.57	18.63		
Channel				26047	26340	26683	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1914.3		
1.4	QPSK	1	0	20.78	20.97	20.88	21.7	0
1.4	QPSK	1	3	20.83	20.82	20.91		
1.4	QPSK	1	5	20.81	20.82	20.89		
1.4	QPSK	3	0	20.66	20.89	20.88		
1.4	QPSK	3	1	20.80	20.99	20.95		
1.4	QPSK	3	3	20.84	20.83	20.94		
1.4	QPSK	6	0	20.80	20.86	20.89	21.7	0
1.4	16QAM	1	0	20.67	20.87	20.83	21.7	0
1.4	16QAM	1	3	20.76	20.74	20.83		
1.4	16QAM	1	5	20.71	20.83	20.85		
1.4	16QAM	3	0	20.69	20.95	20.88		
1.4	16QAM	3	1	20.71	20.91	20.81		
1.4	16QAM	3	3	20.73	20.84	20.89		
1.4	16QAM	6	0	20.80	20.73	20.81	21.7	0
1.4	64QAM	1	0	20.73	20.94	20.89	21.7	0
1.4	64QAM	1	3	20.82	20.79	20.81		
1.4	64QAM	1	5	20.76	20.74	20.81		
1.4	64QAM	3	0	20.82	20.90	20.89		
1.4	64QAM	3	1	20.78	20.91	20.88		
1.4	64QAM	3	3	20.76	20.83	20.83		
1.4	64QAM	6	0	20.79	20.81	20.78	21.7	0
1.4	256QAM	1	0	18.67	18.85	18.79	20	1.7
1.4	256QAM	1	3	18.67	18.60	18.74		
1.4	256QAM	1	5	18.50	18.55	18.72		
1.4	256QAM	3	0	18.51	18.46	18.47		
1.4	256QAM	3	1	18.54	18.58	18.73		
1.4	256QAM	3	3	18.50	18.41	18.26		
1.4	256QAM	6	0	18.53	18.55	18.75	20	1.7

Band 66 Ant2 DSI5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	21.29	21.45	21.28	22.1	0
20	QPSK	1	49	21.23	21.28	21.34		
20	QPSK	1	99	21.36	21.43	21.26		
20	QPSK	50	0	21.06	21.15	21.07	22.1	0

20	QPSK	50	24	21.07	21.14	21.14		
20	QPSK	50	50	21.03	21.00	21.06		
20	QPSK	100	0	21.02	21.11	21.00		
20	16QAM	1	0	20.58	20.73	20.44	22.1	0
20	16QAM	1	49	20.63	20.59	20.48		
20	16QAM	1	99	20.37	20.57	20.36		
20	16QAM	50	0	21.24	21.31	21.21	22.1	0
20	16QAM	50	24	21.16	21.35	21.16		
20	16QAM	50	50	21.12	21.20	21.26		
20	16QAM	100	0	21.32	21.30	21.20	22.1	0
20	64QAM	1	0	21.22	21.35	21.24		
20	64QAM	1	49	21.14	21.20	21.25		
20	64QAM	1	99	21.23	21.32	21.20	22	0.1
20	64QAM	50	0	20.78	20.72	20.66		
20	64QAM	50	24	20.79	20.74	20.66		
20	64QAM	50	50	20.42	20.52	20.59	20	2.1
20	64QAM	100	0	20.62	20.68	20.66		
20	256QAM	1	0	18.49	18.54	18.46		
20	256QAM	1	49	18.69	18.61	18.61	20	2.1
20	256QAM	1	99	18.52	18.44	18.35		
20	256QAM	50	0	18.60	18.53	18.48		
20	256QAM	50	24	18.65	18.62	18.70	20	2.1
20	256QAM	50	50	18.53	18.62	18.64		
20	256QAM	100	0	18.53	18.58	18.54		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	21.21	21.42	21.24	22.1	0
15	QPSK	1	37	21.17	21.22	21.23		
15	QPSK	1	74	21.26	21.37	21.13		
15	QPSK	36	0	20.97	21.04	21.01	22.1	0
15	QPSK	36	20	20.94	21.03	21.04		
15	QPSK	36	39	20.98	20.87	20.96		
15	QPSK	75	0	20.90	21.03	20.96	22.1	0
15	16QAM	1	0	20.47	20.66	20.38		
15	16QAM	1	37	20.52	20.49	20.46		
15	16QAM	1	74	20.30	20.50	20.29	22.1	0
15	16QAM	36	0	21.11	21.28	21.18		
15	16QAM	36	20	21.08	21.22	21.08		
15	16QAM	36	39	20.98	21.10	21.21	22.1	0
15	16QAM	75	0	21.22	21.28	21.06		
15	64QAM	1	0	21.12	21.33	21.21		
15	64QAM	1	37	21.04	21.12	21.22	22	0.1
15	64QAM	1	74	21.13	21.24	21.17		
15	64QAM	36	0	20.71	20.69	20.60		
15	64QAM	36	20	20.74	20.68	20.63	22	0.1
15	64QAM	36	39	20.24	20.39	20.54		
15	64QAM	75	0	20.45	20.59	20.64		

15	256QAM	1	0	18.45	18.45	18.41	20	2.1
15	256QAM	1	37	18.63	18.52	18.47		
15	256QAM	1	74	18.45	18.37	18.27		
15	256QAM	36	0	18.57	18.39	18.40	20	2.1
15	256QAM	36	20	18.54	18.59	18.58		
15	256QAM	36	39	18.39	18.53	18.57		
15	256QAM	75	0	18.43	18.55	18.43		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	21.17	21.37	21.20	22.1	0
10	QPSK	1	25	21.19	21.22	21.29		
10	QPSK	1	49	21.27	21.36	21.21		
10	QPSK	25	0	20.97	21.11	20.96	22.1	0
10	QPSK	25	12	20.93	21.11	21.05		
10	QPSK	25	25	20.89	20.86	20.96		
10	QPSK	50	0	20.94	21.04	20.91		
10	16QAM	1	0	20.53	20.70	20.34	22.1	0
10	16QAM	1	25	20.54	20.48	20.39		
10	16QAM	1	49	20.31	20.44	20.25		
10	16QAM	25	0	21.21	21.19	21.16	22.1	0
10	16QAM	25	12	21.10	21.21	21.06		
10	16QAM	25	25	21.09	21.17	21.18		
10	16QAM	50	0	21.30	21.25	21.16		
10	64QAM	1	0	21.16	21.31	21.11	22.1	0
10	64QAM	1	25	21.04	21.18	21.13		
10	64QAM	1	49	21.12	21.21	21.18		
10	64QAM	25	0	20.62	20.61	20.51	22	0.1
10	64QAM	25	12	20.76	20.58	20.53		
10	64QAM	25	25	20.38	20.47	20.49		
10	64QAM	50	0	20.51	20.62	20.55		
10	256QAM	1	0	18.41	18.46	18.43	20	2.1
10	256QAM	1	25	18.59	18.53	18.47		
10	256QAM	1	49	18.38	18.32	18.31		
10	256QAM	25	0	18.50	18.50	18.37	20	2.1
10	256QAM	25	12	18.58	18.49	18.56		
10	256QAM	25	25	18.44	18.55	18.55		
10	256QAM	50	0	18.49	18.49	18.37		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	21.24	21.32	21.23	22.1	0
5	QPSK	1	12	21.16	21.25	21.22		
5	QPSK	1	24	21.25	21.36	21.15		
5	QPSK	12	0	20.97	21.02	21.03	22.1	0
5	QPSK	12	7	20.97	21.06	21.12		
5	QPSK	12	13	20.90	20.90	20.94		
5	QPSK	25	0	20.97	21.03	20.97		
5	16QAM	1	0	20.54	20.64	20.33	22.1	0

5	16QAM	1	12	20.56	20.53	20.38		
5	16QAM	1	24	20.27	20.44	20.29		
5	16QAM	12	0	21.11	21.19	21.15		
5	16QAM	12	7	21.04	21.27	21.09	22.1	0
5	16QAM	12	13	21.02	21.09	21.24		
5	16QAM	25	0	21.23	21.22	21.12		
5	64QAM	1	0	21.13	21.29	21.10	22.1	0
5	64QAM	1	12	21.10	21.11	21.21		
5	64QAM	1	24	21.11	21.27	21.16		
5	64QAM	12	0	20.64	20.66	20.60	22	0.1
5	64QAM	12	7	20.63	20.66	20.64		
5	64QAM	12	13	20.40	20.47	20.50		
5	64QAM	25	0	20.59	20.60	20.62	20	2.1
5	256QAM	1	0	18.33	18.40	18.36		
5	256QAM	1	12	18.52	18.45	18.45		
5	256QAM	1	24	18.36	18.30	18.20	20	2.1
5	256QAM	12	0	18.51	18.36	18.42		
5	256QAM	12	7	18.53	18.54	18.63		
5	256QAM	12	13	18.48	18.59	18.60	20	2.1
5	256QAM	25	0	18.50	18.42	18.48		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	21.17	21.39	21.21	22.1	0
3	QPSK	1	8	21.11	21.15	21.20		
3	QPSK	1	14	21.30	21.39	21.15		
3	QPSK	8	0	21.01	21.09	21.01	22.1	0
3	QPSK	8	4	21.00	21.11	21.02		
3	QPSK	8	7	20.93	20.96	20.93		
3	QPSK	15	0	20.95	21.00	20.90	22.1	0
3	16QAM	1	0	20.53	20.69	20.33		
3	16QAM	1	8	20.54	20.46	20.44		
3	16QAM	1	14	20.28	20.46	20.29	22.1	0
3	16QAM	8	0	21.14	21.28	21.17		
3	16QAM	8	4	21.06	21.30	21.09		
3	16QAM	8	7	21.04	21.06	21.21	22.1	0
3	16QAM	15	0	21.24	21.26	21.15		
3	64QAM	1	0	21.09	21.25	21.15		
3	64QAM	1	8	21.10	21.16	21.21	22	0.1
3	64QAM	1	14	21.15	21.29	21.07		
3	64QAM	8	0	20.69	20.54	20.48		
3	64QAM	8	4	20.66	20.63	20.57	20	2.1
3	64QAM	8	7	20.37	20.47	20.56		
3	64QAM	15	0	20.49	20.62	20.64		
3	256QAM	1	0	18.44	18.50	18.32	20	2.1
3	256QAM	1	8	18.66	18.50	18.45		
3	256QAM	1	14	18.39	18.28	18.19		
3	256QAM	8	0	18.56	18.45	18.38	20	2.1



3	256QAM	8	4	18.57	18.57	18.56		
3	256QAM	8	7	18.42	18.46	18.61		
3	256QAM	15	0	18.50	18.52	18.41		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	21.23	21.34	21.24	22.1	0
1.4	QPSK	1	3	21.17	21.22	21.29		
1.4	QPSK	1	5	21.30	21.40	21.19		
1.4	QPSK	3	0	21.23	21.39	21.21		
1.4	QPSK	3	1	21.20	21.17	21.25		
1.4	QPSK	3	3	21.31	21.33	21.17		
1.4	QPSK	6	0	20.97	21.10	20.96	22.1	0
1.4	16QAM	1	0	20.96	21.10	21.09	22.1	0
1.4	16QAM	1	3	20.92	20.88	21.01		
1.4	16QAM	1	5	20.90	21.03	20.92		
1.4	16QAM	3	0	20.56	20.66	20.33		
1.4	16QAM	3	1	20.57	20.51	20.34		
1.4	16QAM	3	3	20.29	20.53	20.29		
1.4	16QAM	6	0	21.20	21.28	21.13	22.1	0
1.4	64QAM	1	0	21.11	21.29	21.09	22.1	0
1.4	64QAM	1	3	21.08	21.13	21.16		
1.4	64QAM	1	5	21.24	21.27	21.17		
1.4	64QAM	3	0	21.18	21.30	21.11		
1.4	64QAM	3	1	21.07	21.06	21.18		
1.4	64QAM	3	3	21.19	21.21	21.07		
1.4	64QAM	6	0	20.63	20.57	20.62	22	0.1
1.4	256QAM	1	0	18.76	18.93	18.82	20	2.1
1.4	256QAM	1	3	18.99	18.85	18.83		
1.4	256QAM	1	5	18.77	18.75	18.81		
1.4	256QAM	3	0	18.81	18.85	18.71		
1.4	256QAM	3	1	18.96	18.85	18.90		
1.4	256QAM	3	3	18.85	18.95	18.96		
1.4	256QAM	6	0	18.80	18.89	18.94	20	2.1

Band 7 Ant3 DSI5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	18.78	18.86	18.77	19.4	0
20	QPSK	1	49	18.77	18.85	18.80		
20	QPSK	1	99	18.75	18.77	18.63		
20	QPSK	50	0	18.68	18.79	18.71	19.4	0
20	QPSK	50	24	18.72	18.78	18.70		
20	QPSK	50	50	18.63	18.64	18.57		
20	QPSK	100	0	18.67	18.76	18.64	19.4	0
20	16QAM	1	0	18.69	18.75	18.71		
20	16QAM	1	49	18.72	18.77	18.69		
20	16QAM	1	99	18.70	18.65	18.58	19.4	0
20	16QAM	50	0	18.56	18.77	18.69		
20	16QAM	50	24	18.64	18.76	18.60		
20	16QAM	50	50	18.52	18.58	18.48	19.4	0
20	16QAM	100	0	18.64	18.67	18.54		
20	64QAM	1	0	18.75	18.83	18.70		
20	64QAM	1	49	18.71	18.80	18.69	19.4	0
20	64QAM	1	99	18.70	18.64	18.53		
20	64QAM	50	0	18.47	18.38	18.37		
20	64QAM	50	24	18.37	18.35	18.26	19.4	0
20	64QAM	50	50	18.66	18.56	18.64		
20	64QAM	100	0	18.47	18.51	18.43		
20	256QAM	1	0	17.89	17.93	17.95	19	0.4
20	256QAM	1	49	17.78	17.86	17.77		
20	256QAM	1	99	17.97	17.90	17.96		
20	256QAM	50	0	17.85	17.92	17.96	19	0.4
20	256QAM	50	24	17.78	17.84	17.75		
20	256QAM	50	50	17.93	17.91	17.90		
20	256QAM	100	0	17.82	17.92	17.93	19	0.4
Channel				20825	21100	21375		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	18.71	18.83	18.72	19.4	0
15	QPSK	1	37	18.71	18.82	18.71		
15	QPSK	1	74	18.70	18.72	18.56		
15	QPSK	36	0	18.63	18.72	18.68	19.4	0
15	QPSK	36	20	18.65	18.71	18.61		
15	QPSK	36	39	18.57	18.59	18.50		
15	QPSK	75	0	18.60	18.74	18.57	19.4	0
15	16QAM	1	0	18.61	18.72	18.66		
15	16QAM	1	37	18.65	18.67	18.64		
15	16QAM	1	74	18.67	18.57	18.54	19.4	0
15	16QAM	36	0	18.53	18.67	18.62		

15	16QAM	36	20	18.59	18.68	18.52		
15	16QAM	36	39	18.42	18.54	18.41		
15	16QAM	75	0	18.57	18.58	18.50		
15	64QAM	1	0	18.69	18.78	18.65	19.4	0
15	64QAM	1	37	18.67	18.75	18.67		
15	64QAM	1	74	18.61	18.57	18.49		
15	64QAM	36	0	18.41	18.29	18.32	19.4	0
15	64QAM	36	20	18.32	18.30	18.18		
15	64QAM	36	39	18.59	18.52	18.55		
15	64QAM	75	0	18.43	18.47	18.33		
15	256QAM	1	0	17.84	17.86	17.84	19	0.4
15	256QAM	1	37	17.75	17.79	17.65		
15	256QAM	1	74	17.79	17.77	17.79		
15	256QAM	36	0	17.74	17.90	17.86	19	0.4
15	256QAM	36	20	17.62	17.74	17.66		
15	256QAM	36	39	17.75	17.74	17.73		
15	256QAM	75	0	17.75	17.81	17.83		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	18.70	18.79	18.70	19.4	0
10	QPSK	1	25	18.70	18.82	18.72		
10	QPSK	1	49	18.68	18.74	18.54		
10	QPSK	25	0	18.62	18.72	18.66	19.4	0
10	QPSK	25	12	18.67	18.72	18.63		
10	QPSK	25	25	18.57	18.60	18.53		
10	QPSK	50	0	18.64	18.73	18.58		
10	16QAM	1	0	18.60	18.69	18.67	19.4	0
10	16QAM	1	25	18.67	18.73	18.63		
10	16QAM	1	49	18.62	18.59	18.52		
10	16QAM	25	0	18.47	18.70	18.60	19.4	0
10	16QAM	25	12	18.54	18.72	18.54		
10	16QAM	25	25	18.43	18.50	18.42		
10	16QAM	50	0	18.55	18.65	18.48		
10	64QAM	1	0	18.71	18.80	18.67	19.4	0
10	64QAM	1	25	18.63	18.71	18.66		
10	64QAM	1	49	18.67	18.61	18.50		
10	64QAM	25	0	18.38	18.33	18.28	19.4	0
10	64QAM	25	12	18.30	18.26	18.24		
10	64QAM	25	25	18.58	18.52	18.59		
10	64QAM	50	0	18.42	18.43	18.34		
10	256QAM	1	0	17.82	17.77	17.86	19	0.4
10	256QAM	1	25	17.67	17.77	17.71		
10	256QAM	1	49	17.90	17.72	17.85		
10	256QAM	25	0	17.69	17.79	17.81	19	0.4
10	256QAM	25	12	17.70	17.70	17.57		
10	256QAM	25	25	17.89	17.88	17.77		
10	256QAM	50	0	17.71	17.89	17.78		

Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	18.71	18.81	18.71	19.4	0
5	QPSK	1	12	18.72	18.77	18.75		
5	QPSK	1	24	18.71	18.73	18.57		
5	QPSK	12	0	18.66	18.76	18.68	19.4	0
5	QPSK	12	7	18.63	18.75	18.62		
5	QPSK	12	13	18.59	18.61	18.55		
5	QPSK	25	0	18.64	18.71	18.59	19.4	0
5	16QAM	1	0	18.61	18.69	18.62		
5	16QAM	1	12	18.65	18.70	18.59		
5	16QAM	1	24	18.67	18.63	18.53	19.4	0
5	16QAM	12	0	18.48	18.72	18.66		
5	16QAM	12	7	18.61	18.72	18.53		
5	16QAM	12	13	18.48	18.48	18.42	19.4	0
5	16QAM	25	0	18.60	18.64	18.49		
5	64QAM	1	0	18.72	18.79	18.63	19.4	0
5	64QAM	1	12	18.61	18.75	18.64		
5	64QAM	1	24	18.64	18.62	18.44		
5	64QAM	12	0	18.37	18.34	18.27	19.4	0
5	64QAM	12	7	18.29	18.25	18.21		
5	64QAM	12	13	18.62	18.48	18.56		
5	64QAM	25	0	18.44	18.47	18.39	19	0.4
5	256QAM	1	0	17.81	17.90	17.92		
5	256QAM	1	12	17.69	17.80	17.65		
5	256QAM	1	24	17.79	17.82	17.81	19	0.4
5	256QAM	12	0	17.79	17.88	17.81		
5	256QAM	12	7	17.64	17.70	17.65		
5	256QAM	12	13	17.86	17.83	17.83	19	0.4
5	256QAM	25	0	17.70	17.83	17.85		

Band 30 Ant3 DSI5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				27710				
Frequency (MHz)				2310				
10	QPSK	1	0		17.51		18.4	0
10	QPSK	1	25		17.38			
10	QPSK	1	49		17.46			
10	QPSK	25	0		17.46		18.4	0
10	QPSK	25	12		17.22			
10	QPSK	25	25		17.34			
10	QPSK	50	0		17.17			
10	16QAM	1	0		17.07		18.4	0
10	16QAM	1	25		17.25			
10	16QAM	1	49		16.87			
10	16QAM	25	0		16.94		18.4	0

10	16QAM	25	12		17.02			
10	16QAM	25	25		17.20			
10	16QAM	50	0		17.01			
10	64QAM	1	0		17.16		18.4	0
10	64QAM	1	25		16.94			
10	64QAM	1	49		17.00			
10	64QAM	25	0		17.02		18.4	0
10	64QAM	25	12		17.01			
10	64QAM	25	25		16.97			
10	64QAM	50	0		17.03		18.4	0
10	256QAM	1	0		16.98			
10	256QAM	1	25		16.95			
10	256QAM	1	49		17.17		18.4	0
10	256QAM	25	0		16.92			
10	256QAM	25	12		17.08			
10	256QAM	25	25		16.86		18.4	0
10	256QAM	50	0		16.96			
Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	0	17.46	17.47	17.44	18.4	0
5	QPSK	1	12	17.33	17.32	17.32		
5	QPSK	1	24	17.39	17.41	17.39		
5	QPSK	12	0	17.42	17.42	17.39	18.4	0
5	QPSK	12	7	17.19	17.18	17.12		
5	QPSK	12	13	17.28	17.29	17.27		
5	QPSK	25	0	17.13	17.13	17.13	18.4	0
5	16QAM	1	0	17.04	17.01	17.02		
5	16QAM	1	12	17.17	17.18	17.20		
5	16QAM	1	24	16.84	16.81	16.83	18.4	0
5	16QAM	12	0	16.86	16.89	16.89		
5	16QAM	12	7	16.99	16.99	16.97		
5	16QAM	12	13	17.13	17.12	17.16	18.4	0
5	16QAM	25	0	16.97	16.98	16.92		
5	64QAM	1	0	17.09	17.09	17.12		
5	64QAM	1	12	16.91	16.90	16.88	18.4	0
5	64QAM	1	24	16.92	16.91	16.98		
5	64QAM	12	0	16.99	16.99	16.94		
5	64QAM	12	7	16.94	16.91	16.97	18.4	0
5	64QAM	12	13	16.91	16.92	16.95		
5	64QAM	25	0	16.99	17.00	17.00		
5	256QAM	1	0	16.94	16.92	16.91	18.4	0
5	256QAM	1	12	16.87	16.85	16.91		
5	256QAM	1	24	17.12	17.11	17.13		
5	256QAM	12	0	16.86	16.84	16.90	18.4	0
5	256QAM	12	7	17.05	17.00	16.98		
5	256QAM	12	13	16.81	16.77	16.84		
5	256QAM	25	0	16.89	16.90	16.89		

Band 2 Ant5 DSI5								
Channel				18700	18900	19100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	21.96	22.12	22.00	22.9	0
20	QPSK	1	49	21.99	22.07	21.93		
20	QPSK	1	99	21.90	22.02	21.96		
20	QPSK	50	0	21.90	22.06	21.97	22.9	0
20	QPSK	50	24	21.94	22.02	21.84		
20	QPSK	50	50	21.85	21.97	21.91		
20	QPSK	100	0	21.87	22.02	21.91		
20	16QAM	1	0	21.88	22.04	21.92	22.9	0
20	16QAM	1	49	21.96	22.03	21.86		
20	16QAM	1	99	21.81	21.96	21.93		
20	16QAM	50	0	21.60	21.65	21.52	22.9	0
20	16QAM	50	24	21.43	21.56	21.44		
20	16QAM	50	50	21.46	21.54	21.44		
20	16QAM	100	0	21.47	21.54	21.43		
20	64QAM	1	0	21.61	21.77	21.68	22.9	0
20	64QAM	1	49	21.66	21.75	21.60		
20	64QAM	1	99	21.61	21.71	21.58		
20	64QAM	50	0	20.40	20.54	20.40	22	0.9
20	64QAM	50	24	20.37	20.51	20.39		
20	64QAM	50	50	20.42	20.52	20.42		
20	64QAM	100	0	20.45	20.55	20.48	20	2.9
20	256QAM	1	0	18.48	18.64	18.52		
20	256QAM	1	49	18.50	18.57	18.51		
20	256QAM	1	99	18.43	18.56	18.44	20	2.9
20	256QAM	50	0	18.52	18.58	18.53		
20	256QAM	50	24	18.42	18.54	18.39		
20	256QAM	50	50	18.42	18.51	18.41		
20	256QAM	100	0	18.46	18.61	18.49	Channel	MPR (dB)
Frequency (MHz)				18675	18900	19125		
				1857.5	1880	1902.5	22.9	0
15	QPSK	1	0	21.94	22.07	21.96		
15	QPSK	1	37	21.91	22.01	21.84		
15	QPSK	1	74	21.81	21.94	21.93	22.9	0
15	QPSK	36	0	21.81	21.97	21.95		
15	QPSK	36	20	21.88	21.97	21.74		
15	QPSK	36	39	21.80	21.87	21.89		
15	QPSK	75	0	21.81	21.94	21.83	22.9	0
15	16QAM	1	0	21.79	22.01	21.84		
15	16QAM	1	37	21.87	22.01	21.84		
15	16QAM	1	74	21.73	21.91	21.88	22.9	0
15	16QAM	36	0	21.50	21.53	21.40		
15	16QAM	36	20	21.38	21.47	21.31		
15	16QAM	36	39	21.30	21.48	21.36		



15	16QAM	75	0	21.33	21.47	21.33	22.9	0
15	64QAM	1	0	21.52	21.62	21.54		
15	64QAM	1	37	21.59	21.69	21.55		
15	64QAM	1	74	21.54	21.65	21.42		
15	64QAM	36	0	20.25	20.47	20.33	22	0.9
15	64QAM	36	20	20.33	20.45	20.24		
15	64QAM	36	39	20.27	20.48	20.34		
15	64QAM	75	0	20.38	20.46	20.36		
15	256QAM	1	0	18.35	18.56	18.37	20	2.9
15	256QAM	1	37	18.35	18.53	18.36		
15	256QAM	1	74	18.31	18.42	18.31		
15	256QAM	36	0	18.41	18.47	18.41	20	2.9
15	256QAM	36	20	18.37	18.42	18.23		
15	256QAM	36	39	18.30	18.42	18.26		
15	256QAM	75	0	18.39	18.46	18.35		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	21.91	22.07	21.91	22.9	0
10	QPSK	1	25	21.96	21.98	21.90		
10	QPSK	1	49	21.80	21.93	21.90		
10	QPSK	25	0	21.81	22.00	21.91	22.9	0
10	QPSK	25	12	21.91	21.97	21.74		
10	QPSK	25	25	21.79	21.87	21.86		
10	QPSK	50	0	21.83	21.95	21.86		
10	16QAM	1	0	21.83	21.97	21.87	22.9	0
10	16QAM	1	25	21.90	21.99	21.82		
10	16QAM	1	49	21.77	21.94	21.87		
10	16QAM	25	0	21.50	21.59	21.37	22.9	0
10	16QAM	25	12	21.28	21.47	21.31		
10	16QAM	25	25	21.35	21.42	21.32		
10	16QAM	50	0	21.36	21.45	21.28		
10	64QAM	1	0	21.53	21.73	21.54	22.9	0
10	64QAM	1	25	21.62	21.63	21.49		
10	64QAM	1	49	21.45	21.59	21.46		
10	64QAM	25	0	20.30	20.39	20.36	22	0.9
10	64QAM	25	12	20.33	20.46	20.32		
10	64QAM	25	25	20.27	20.39	20.34		
10	64QAM	50	0	20.38	20.50	20.40		
10	256QAM	1	0	18.38	18.59	18.41	20	2.9
10	256QAM	1	25	18.45	18.44	18.38		
10	256QAM	1	49	18.36	18.44	18.30		
10	256QAM	25	0	18.46	18.53	18.41	20	2.9
10	256QAM	25	12	18.37	18.45	18.32		
10	256QAM	25	25	18.30	18.40	18.37		
10	256QAM	50	0	18.30	18.48	18.41		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		



5	QPSK	1	0	21.87	22.08	21.97	22.9	0
5	QPSK	1	12	21.90	22.01	21.91		
5	QPSK	1	24	21.81	21.98	21.91		
5	QPSK	12	0	21.84	21.99	21.92	22.9	0
5	QPSK	12	7	21.88	21.95	21.79		
5	QPSK	12	13	21.78	21.93	21.82		
5	QPSK	25	0	21.84	21.97	21.84		
5	16QAM	1	0	21.85	21.96	21.88	22.9	0
5	16QAM	1	12	21.90	21.94	21.77		
5	16QAM	1	24	21.75	21.92	21.90		
5	16QAM	12	0	21.47	21.53	21.47	22.9	0
5	16QAM	12	7	21.39	21.44	21.34		
5	16QAM	12	13	21.37	21.43	21.36		
5	16QAM	25	0	21.36	21.44	21.37		
5	64QAM	1	0	21.49	21.70	21.53	22.9	0
5	64QAM	1	12	21.55	21.60	21.45		
5	64QAM	1	24	21.53	21.58	21.48		
5	64QAM	12	0	20.31	20.39	20.34	22	0.9
5	64QAM	12	7	20.28	20.37	20.27		
5	64QAM	12	13	20.36	20.40	20.29		
5	64QAM	25	0	20.38	20.44	20.41		
5	256QAM	1	0	18.44	18.60	18.36	20	2.9
5	256QAM	1	12	18.42	18.44	18.43		
5	256QAM	1	24	18.28	18.51	18.33		
5	256QAM	12	0	18.37	18.47	18.43	20	2.9
5	256QAM	12	7	18.28	18.43	18.25		
5	256QAM	12	13	18.31	18.41	18.35		
5	256QAM	25	0	18.38	18.52	18.33		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	21.93	22.06	21.93	22.9	0
3	QPSK	1	8	21.91	22.02	21.87		
3	QPSK	1	14	21.83	21.97	21.93		
3	QPSK	8	0	21.86	22.00	21.93	22.9	0
3	QPSK	8	4	21.88	21.92	21.79		
3	QPSK	8	7	21.81	21.92	21.87		
3	QPSK	15	0	21.85	21.98	21.86		
3	16QAM	1	0	21.82	22.00	21.83	22.9	0
3	16QAM	1	8	21.93	21.95	21.77		
3	16QAM	1	14	21.73	21.87	21.91		
3	16QAM	8	0	21.52	21.59	21.47	22.9	0
3	16QAM	8	4	21.30	21.40	21.37		
3	16QAM	8	7	21.32	21.46	21.37		
3	16QAM	15	0	21.36	21.48	21.37		
3	64QAM	1	0	21.47	21.66	21.63	22.9	0
3	64QAM	1	8	21.51	21.69	21.54		
3	64QAM	1	14	21.54	21.63	21.53		



3	64QAM	8	0	20.28	20.39	20.34	22	0.9
3	64QAM	8	4	20.31	20.46	20.28		
3	64QAM	8	7	20.37	20.46	20.30		
3	64QAM	15	0	20.33	20.47	20.33		
3	256QAM	1	0	18.39	18.50	18.45	20	2.9
3	256QAM	1	8	18.40	18.46	18.43		
3	256QAM	1	14	18.33	18.46	18.36		
3	256QAM	8	0	18.43	18.50	18.45	20	2.9
3	256QAM	8	4	18.32	18.41	18.30		
3	256QAM	8	7	18.30	18.37	18.35		
3	256QAM	15	0	18.36	18.53	18.42		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	21.88	22.05	21.94	22.9	0
1.4	QPSK	1	3	21.96	22.02	21.89		
1.4	QPSK	1	5	21.85	21.92	21.89		
1.4	QPSK	3	0	21.87	22.03	21.95		
1.4	QPSK	3	1	21.96	22.02	21.84		
1.4	QPSK	3	3	21.82	21.96	21.91		
1.4	QPSK	6	0	21.84	22.01	21.90	22.9	0
1.4	16QAM	1	0	21.92	21.97	21.76	22.9	0
1.4	16QAM	1	3	21.78	21.91	21.85		
1.4	16QAM	1	5	21.78	21.95	21.89		
1.4	16QAM	3	0	21.78	21.98	21.89		
1.4	16QAM	3	1	21.94	21.95	21.80		
1.4	16QAM	3	3	21.71	21.92	21.84		
1.4	16QAM	6	0	21.45	21.55	21.43	22.9	0
1.4	64QAM	1	0	21.34	21.42	21.39	22.9	0
1.4	64QAM	1	3	21.38	21.39	21.29		
1.4	64QAM	1	5	21.33	21.43	21.29		
1.4	64QAM	3	0	21.52	21.63	21.58		
1.4	64QAM	3	1	21.59	21.61	21.46		
1.4	64QAM	3	3	21.49	21.65	21.44		
1.4	64QAM	6	0	20.25	20.50	20.29	22	0.9
1.4	256QAM	1	0	18.32	18.46	18.29	20	2.9
1.4	256QAM	1	3	18.38	18.43	18.37		
1.4	256QAM	1	5	18.40	18.45	18.43		
1.4	256QAM	3	0	18.26	18.44	18.24		
1.4	256QAM	3	1	18.37	18.44	18.37		
1.4	256QAM	3	3	18.41	18.48	18.33		
1.4	256QAM	6	0	18.31	18.51	18.42	20	2.9

Band 4 Ant5 DSI5								
Channel				20050	20175	20300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	21.72	21.88	21.61	23.5	0
20	QPSK	1	49	21.86	21.87	21.58		
20	QPSK	1	99	21.61	21.75	21.58		
20	QPSK	50	0	21.68	21.83	21.51	23.5	0
20	QPSK	50	24	21.80	21.73	21.62		
20	QPSK	50	50	21.61	21.64	21.63		
20	QPSK	100	0	21.55	21.74	21.54	23.5	0
20	16QAM	1	0	21.67	21.74	21.58		
20	16QAM	1	49	21.71	21.79	21.54		
20	16QAM	1	99	21.62	21.77	21.61	23	0.5
20	16QAM	50	0	21.49	21.53	21.45		
20	16QAM	50	24	21.37	21.43	21.35		
20	16QAM	50	50	21.32	21.43	21.35	23	0.5
20	16QAM	100	0	21.39	21.45	21.38		
20	64QAM	1	0	21.50	21.69	21.61		
20	64QAM	1	49	21.50	21.60	21.56	22	1.5
20	64QAM	1	99	21.53	21.65	21.43		
20	64QAM	50	0	20.29	20.46	20.27		
20	64QAM	50	24	20.24	20.42	20.29	20	3.5
20	64QAM	50	50	20.34	20.41	20.35		
20	256QAM	1	0	18.43	18.58	18.36		
20	256QAM	1	49	18.45	18.49	18.41	20	3.5
20	256QAM	1	99	18.37	18.44	18.38		
20	256QAM	50	0	18.47	18.47	18.39		
20	256QAM	50	24	18.26	18.40	18.25	20	3.5
20	256QAM	50	50	18.29	18.39	18.28		
20	256QAM	100	0	18.42	18.50	18.41		
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	21.65	21.75	21.57	23.5	0
15	QPSK	1	37	21.77	21.82	21.51		
15	QPSK	1	74	21.53	21.67	21.53		
15	QPSK	36	0	21.61	21.70	21.57	23.5	0
15	QPSK	36	20	21.78	21.69	21.56		
15	QPSK	36	39	21.51	21.51	21.53		
15	QPSK	75	0	21.51	21.68	21.60	23.5	0
15	16QAM	1	0	21.64	21.61	21.58		
15	16QAM	1	37	21.63	21.74	21.64		
15	16QAM	1	74	21.50	21.70	21.58	23	0.5
15	16QAM	36	0	21.35	21.39	21.29		
15	16QAM	36	20	21.29	21.37	21.20		
15	16QAM	36	39	21.22	21.34	21.27		



15	16QAM	75	0	21.20	21.41	21.17	23	0.5
15	64QAM	1	0	21.37	21.49	21.46		
15	64QAM	1	37	21.48	21.62	21.45		
15	64QAM	1	74	21.45	21.58	21.37		
15	64QAM	36	0	20.10	20.38	20.26	22	1.5
15	64QAM	36	20	20.20	20.31	20.13		
15	64QAM	36	39	20.21	20.33	20.18		
15	64QAM	75	0	20.27	20.34	20.27		
15	256QAM	1	0	18.25	18.41	18.22	20	3.5
15	256QAM	1	37	18.22	18.45	18.30		
15	256QAM	1	74	18.21	18.38	18.19		
15	256QAM	36	0	18.35	18.41	18.34	20	3.5
15	256QAM	36	20	18.26	18.36	18.09		
15	256QAM	36	39	18.15	18.30	18.21		
15	256QAM	75	0	18.24	18.37	18.31		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	21.58	21.81	21.50	23.5	0
10	QPSK	1	25	21.83	21.84	21.51		
10	QPSK	1	49	21.58	21.70	21.64		
10	QPSK	25	0	21.58	21.75	21.67	23.5	0
10	QPSK	25	12	21.72	21.67	21.65		
10	QPSK	25	25	21.59	21.61	21.55		
10	QPSK	50	0	21.53	21.68	21.61		
10	16QAM	1	0	21.54	21.64	21.55	23.5	0
10	16QAM	1	25	21.69	21.71	21.65		
10	16QAM	1	49	21.59	21.65	21.55		
10	16QAM	25	0	21.44	21.50	21.22	23	0.5
10	16QAM	25	12	21.15	21.37	21.26		
10	16QAM	25	25	21.22	21.33	21.26		
10	16QAM	50	0	21.28	21.37	21.19		
10	64QAM	1	0	21.39	21.58	21.46	23	0.5
10	64QAM	1	25	21.57	21.54	21.34		
10	64QAM	1	49	21.36	21.48	21.40		
10	64QAM	25	0	20.16	20.24	20.22	22	1.5
10	64QAM	25	12	20.21	20.30	20.22		
10	64QAM	25	25	20.14	20.24	20.25		
10	64QAM	50	0	20.29	20.34	20.29		
10	256QAM	1	0	18.29	18.44	18.26	20	3.5
10	256QAM	1	25	18.40	18.31	18.23		
10	256QAM	1	49	18.31	18.37	18.19		
10	256QAM	25	0	18.34	18.46	18.32	20	3.5
10	256QAM	25	12	18.29	18.34	18.19		
10	256QAM	25	25	18.22	18.32	18.22		
10	256QAM	50	0	18.24	18.37	18.34		
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		



5	QPSK	1	0	21.63	21.74	21.66	23.5	0
5	QPSK	1	12	21.84	21.73	21.67		
5	QPSK	1	24	21.52	21.71	21.66		
5	QPSK	12	0	21.66	21.78	21.64	23.5	0
5	QPSK	12	7	21.69	21.68	21.58		
5	QPSK	12	13	21.50	21.61	21.52		
5	QPSK	25	0	21.55	21.64	21.53		
5	16QAM	1	0	21.65	21.67	21.62	23.5	0
5	16QAM	1	12	21.57	21.68	21.61		
5	16QAM	1	24	21.50	21.65	21.53		
5	16QAM	12	0	21.36	21.48	21.35	23	0.5
5	16QAM	12	7	21.26	21.36	21.28		
5	16QAM	12	13	21.32	21.37	21.25		
5	16QAM	25	0	21.23	21.32	21.24		
5	64QAM	1	0	21.41	21.55	21.40	23	0.5
5	64QAM	1	12	21.45	21.54	21.40		
5	64QAM	1	24	21.39	21.42	21.34		
5	64QAM	12	0	20.16	20.27	20.25	22	1.5
5	64QAM	12	7	20.22	20.30	20.21		
5	64QAM	12	13	20.28	20.26	20.13		
5	64QAM	25	0	20.29	20.38	20.35		
5	256QAM	1	0	18.34	18.55	18.25	20	3.5
5	256QAM	1	12	18.34	18.29	18.29		
5	256QAM	1	24	18.24	18.45	18.21		
5	256QAM	12	0	18.28	18.32	18.32	20	3.5
5	256QAM	12	7	18.22	18.32	18.12		
5	256QAM	12	13	18.24	18.27	18.20		
5	256QAM	25	0	18.23	18.46	18.17		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	21.63	21.73	21.64	23.5	0
3	QPSK	1	8	21.64	21.85	21.66		
3	QPSK	1	14	21.62	21.64	21.68		
3	QPSK	8	0	21.67	21.75	21.74	23.5	0
3	QPSK	8	4	21.63	21.66	21.56		
3	QPSK	8	7	21.52	21.59	21.54		
3	QPSK	15	0	21.57	21.60	21.54		
3	16QAM	1	0	21.57	21.61	21.55	23.5	0
3	16QAM	1	8	21.55	21.69	21.58		
3	16QAM	1	14	21.54	21.69	21.51		
3	16QAM	8	0	21.46	21.43	21.43	23	0.5
3	16QAM	8	4	21.19	21.26	21.25		
3	16QAM	8	7	21.23	21.40	21.28		
3	16QAM	15	0	21.21	21.34	21.32		
3	64QAM	1	0	21.40	21.59	21.55	23	0.5
3	64QAM	1	8	21.39	21.56	21.48		
3	64QAM	1	14	21.43	21.53	21.46		



3	64QAM	8	0	20.15	20.32	20.22	22	1.5
3	64QAM	8	4	20.22	20.32	20.15		
3	64QAM	8	7	20.27	20.38	20.19		
3	64QAM	15	0	20.23	20.33	20.23		
3	256QAM	1	0	18.33	18.35	18.33	20	3.5
3	256QAM	1	8	18.27	18.36	18.33		
3	256QAM	1	14	18.25	18.34	18.24		
3	256QAM	8	0	18.38	18.41	18.35	20	3.5
3	256QAM	8	4	18.25	18.36	18.25		
3	256QAM	8	7	18.23	18.24	18.31		
3	256QAM	15	0	18.23	18.48	18.31		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	21.65	21.81	21.70	23.5	0
1.4	QPSK	1	3	21.72	21.78	21.65		
1.4	QPSK	1	5	21.55	21.62	21.65		
1.4	QPSK	3	0	21.68	21.82	21.66		
1.4	QPSK	3	1	21.76	21.79	21.57		
1.4	QPSK	3	3	21.52	21.71	21.53		
1.4	QPSK	6	0	21.55	21.75	21.59	23.5	0
1.4	16QAM	1	0	21.77	21.69	21.61	23.5	0
1.4	16QAM	1	3	21.56	21.51	21.60		
1.4	16QAM	1	5	21.67	21.69	21.68		
1.4	16QAM	3	0	21.70	21.67	21.67		
1.4	16QAM	3	1	21.67	21.66	21.67		
1.4	16QAM	3	3	21.70	21.66	21.73		
1.4	16QAM	6	0	21.63	21.44	21.59	23	0.5
1.4	64QAM	1	0	21.52	21.30	21.47	23	0.5
1.4	64QAM	1	3	21.60	21.24	21.52		
1.4	64QAM	1	5	21.54	21.33	21.65		
1.4	64QAM	3	0	21.64	21.54	21.58		
1.4	64QAM	3	1	21.46	21.47	21.41		
1.4	64QAM	3	3	21.37	21.58	21.32		
1.4	64QAM	6	0	20.18	20.44	20.25	22	1.5
1.4	256QAM	1	0	18.27	18.35	18.18	20	3.5
1.4	256QAM	1	3	18.23	18.35	18.26		
1.4	256QAM	1	5	18.32	18.34	18.37		
1.4	256QAM	3	0	18.14	18.32	18.15		
1.4	256QAM	3	1	18.30	18.36	18.26		
1.4	256QAM	3	3	18.32	18.38	18.20		
1.4	256QAM	6	0	18.19	18.40	18.37	20	3.5

Band 66 Ant5 DSI5								
Channel				132072	132322	132572	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	21.78	21.91	21.75	23.5	0
20	QPSK	1	49	21.89	21.89	21.70		
20	QPSK	1	99	21.75	21.87	21.71		
20	QPSK	50	0	21.75	21.87	21.63	23.5	0
20	QPSK	50	24	21.83	21.79	21.67		
20	QPSK	50	50	21.67	21.75	21.67		
20	QPSK	100	0	21.66	21.77	21.61		
20	16QAM	1	0	21.74	21.88	21.65	23.5	0
20	16QAM	1	49	21.78	21.85	21.67		
20	16QAM	1	99	21.73	21.85	21.66		
20	16QAM	50	0	21.38	21.38	21.37	23	0.5
20	16QAM	50	24	21.28	21.36	21.24		
20	16QAM	50	50	21.18	21.31	21.20		
20	16QAM	100	0	21.29	21.38	21.26		
20	64QAM	1	0	21.43	21.54	21.50	23	0.5
20	64QAM	1	49	21.46	21.49	21.41		
20	64QAM	1	99	21.43	21.61	21.29		
20	64QAM	50	0	20.19	20.33	20.17	22	1.5
20	64QAM	50	24	20.10	20.31	20.25		
20	64QAM	50	50	20.29	20.33	20.21		
20	64QAM	100	0	20.32	20.42	20.37		
20	256QAM	1	0	18.38	18.42	18.30	20	3.5
20	256QAM	1	49	18.39	18.43	18.34		
20	256QAM	1	99	18.30	18.31	18.23		
20	256QAM	50	0	18.34	18.32	18.27	20	3.5
20	256QAM	50	24	18.14	18.35	18.14		
20	256QAM	50	50	18.19	18.26	18.21		
20	256QAM	100	0	18.37	18.36	18.29		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	21.70	21.81	21.69	23.5	0
15	QPSK	1	37	21.75	21.80	21.61		
15	QPSK	1	74	21.68	21.75	21.67		
15	QPSK	36	0	21.66	21.73	21.57	23.5	0
15	QPSK	36	20	21.81	21.66	21.60		
15	QPSK	36	39	21.58	21.66	21.64		
15	QPSK	75	0	21.62	21.73	21.53		
15	16QAM	1	0	21.69	21.79	21.63	23.5	0
15	16QAM	1	37	21.76	21.82	21.61		
15	16QAM	1	74	21.68	21.81	21.53		
15	16QAM	36	0	21.22	21.33	21.24	23	0.5
15	16QAM	36	20	21.20	21.33	21.14		
15	16QAM	36	39	21.11	21.21	21.17		



15	16QAM	75	0	21.14	21.28	21.02	23	0.5
15	64QAM	1	0	21.24	21.34	21.35		
15	64QAM	1	37	21.32	21.51	21.37		
15	64QAM	1	74	21.36	21.51	21.22		
15	64QAM	36	0	20.15	20.22	20.18	22	1.5
15	64QAM	36	20	20.14	20.21	20.03		
15	64QAM	36	39	20.09	20.28	20.14		
15	64QAM	75	0	20.15	20.20	20.15		
15	256QAM	1	0	18.12	18.35	18.11	20	3.5
15	256QAM	1	37	18.14	18.33	18.21		
15	256QAM	1	74	18.15	18.30	18.04		
15	256QAM	36	0	18.28	18.28	18.21	20	3.5
15	256QAM	36	20	18.15	18.29	18.29		
15	256QAM	36	39	18.06	18.25	18.07		
15	256QAM	75	0	18.19	18.32	18.26		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	21.73	21.82	21.63	23.5	0
10	QPSK	1	25	21.78	21.86	21.67		
10	QPSK	1	49	21.70	21.85	21.61		
10	QPSK	25	0	21.63	21.79	21.50	23.5	0
10	QPSK	25	12	21.75	21.70	21.64		
10	QPSK	25	25	21.62	21.70	21.60		
10	QPSK	50	0	21.61	21.73	21.54		
10	16QAM	1	0	21.65	21.82	21.63	23.5	0
10	16QAM	1	25	21.67	21.79	21.59		
10	16QAM	1	49	21.61	21.73	21.53		
10	16QAM	25	0	21.34	21.34	21.08	23	0.5
10	16QAM	25	12	21.00	21.27	21.20		
10	16QAM	25	25	21.11	21.20	21.17		
10	16QAM	50	0	21.21	21.33	21.05		
10	64QAM	1	0	21.26	21.53	21.38	23	0.5
10	64QAM	1	25	21.51	21.41	21.21		
10	64QAM	1	49	21.29	21.36	21.26		
10	64QAM	25	0	20.03	20.09	20.07	22	1.5
10	64QAM	25	12	20.11	20.17	20.14		
10	64QAM	25	25	20.00	20.20	20.17		
10	64QAM	50	0	20.17	20.22	20.18		
10	256QAM	1	0	18.18	18.40	18.13	20	3.5
10	256QAM	1	25	18.30	18.18	18.10		
10	256QAM	1	49	18.18	18.28	18.07		
10	256QAM	25	0	18.24	18.34	18.22	20	3.5
10	256QAM	25	12	18.14	18.27	18.04		
10	256QAM	25	25	18.14	18.25	18.11		
10	256QAM	50	0	18.14	18.21	18.26		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		



5	QPSK	1	0	21.74	21.81	21.65	23.5	0
5	QPSK	1	12	21.81	21.85	21.61		
5	QPSK	1	24	21.65	21.79	21.60		
5	QPSK	12	0	21.66	21.80	21.54	23.5	0
5	QPSK	12	7	21.76	21.68	21.58		
5	QPSK	12	13	21.57	21.65	21.59		
5	QPSK	25	0	21.59	21.69	21.58		
5	16QAM	1	0	21.61	21.75	21.56	23.5	0
5	16QAM	1	12	21.75	21.77	21.60		
5	16QAM	1	24	21.69	21.75	21.54		
5	16QAM	12	0	21.26	21.34	21.23	23	0.5
5	16QAM	12	7	21.14	21.28	21.18		
5	16QAM	12	13	21.18	21.31	21.10		
5	16QAM	25	0	21.17	21.23	21.14		
5	64QAM	1	0	21.37	21.51	21.34	23	0.5
5	64QAM	1	12	21.35	21.46	21.30		
5	64QAM	1	24	21.30	21.26	21.30		
5	64QAM	12	0	20.07	20.16	20.21	22	1.5
5	64QAM	12	7	20.12	20.23	20.07		
5	64QAM	12	13	20.17	20.14	20.05		
5	64QAM	25	0	20.17	20.22	20.25		
5	256QAM	1	0	18.22	18.40	18.19	20	3.5
5	256QAM	1	12	18.26	18.21	18.19		
5	256QAM	1	24	18.17	18.41	18.08		
5	256QAM	12	0	18.18	18.17	18.25	20	3.5
5	256QAM	12	7	18.14	18.28	18.01		
5	256QAM	12	13	18.14	18.18	18.07		
5	256QAM	25	0	18.11	18.41	18.11		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	21.72	21.88	21.71	23.5	0
3	QPSK	1	8	21.86	21.78	21.65		
3	QPSK	1	14	21.70	21.75	21.63		
3	QPSK	8	0	21.68	21.83	21.59	23.5	0
3	QPSK	8	4	21.76	21.67	21.61		
3	QPSK	8	7	21.57	21.70	21.57		
3	QPSK	15	0	21.62	21.68	21.57		
3	16QAM	1	0	21.68	21.77	21.58	23.5	0
3	16QAM	1	8	21.65	21.73	21.57		
3	16QAM	1	14	21.68	21.80	21.56		
3	16QAM	8	0	21.36	21.30	21.38	23	0.5
3	16QAM	8	4	21.03	21.21	21.12		
3	16QAM	8	7	21.18	21.29	21.24		
3	16QAM	15	0	21.12	21.28	21.26		
3	64QAM	1	0	21.36	21.45	21.43	23	0.5
3	64QAM	1	8	21.25	21.45	21.36		
3	64QAM	1	14	21.36	21.43	21.30		



3	64QAM	8	0	20.01	20.23	20.10	22	1.5
3	64QAM	8	4	20.16	20.24	20.06		
3	64QAM	8	7	20.19	20.25	20.13		
3	64QAM	15	0	20.08	20.19	20.17		
3	256QAM	1	0	18.20	18.28	18.25	20	3.5
3	256QAM	1	8	18.11	18.22	18.22		
3	256QAM	1	14	18.18	18.24	18.12		
3	256QAM	8	0	18.27	18.29	18.20	20	3.5
3	256QAM	8	4	18.15	18.22	18.12		
3	256QAM	8	7	18.15	18.09	18.24		
3	256QAM	15	0	18.12	18.36	18.16		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	21.73	21.78	21.73	23.5	0
1.4	QPSK	1	3	21.87	21.80	21.57		
1.4	QPSK	1	5	21.63	21.74	21.68		
1.4	QPSK	3	0	21.75	21.83	21.72		
1.4	QPSK	3	1	21.79	21.77	21.63		
1.4	QPSK	3	3	21.70	21.76	21.65		
1.4	QPSK	6	0	21.68	21.74	21.51	23.5	0
1.4	16QAM	1	0	21.78	21.69	21.55	23.5	0
1.4	16QAM	1	3	21.56	21.71	21.57		
1.4	16QAM	1	5	21.58	21.69	21.50		
1.4	16QAM	3	0	21.71	21.76	21.59		
1.4	16QAM	3	1	21.73	21.71	21.62		
1.4	16QAM	3	3	21.68	21.82	21.56		
1.4	16QAM	6	0	21.55	21.51	21.46	23	0.5
1.4	64QAM	1	0	21.12	21.15	21.25	23	0.5
1.4	64QAM	1	3	21.18	21.09	21.10		
1.4	64QAM	1	5	21.14	21.19	21.01		
1.4	64QAM	3	0	21.30	21.40	21.38		
1.4	64QAM	3	1	21.36	21.42	21.35		
1.4	64QAM	3	3	21.33	21.46	21.22		
1.4	64QAM	6	0	20.08	20.39	20.18	22	1.5
1.4	256QAM	1	0	18.11	18.19	18.08	20	3.5
1.4	256QAM	1	3	18.11	18.23	18.19		
1.4	256QAM	1	5	18.25	18.19	18.26		
1.4	256QAM	3	0	18.00	18.25	18.01		
1.4	256QAM	3	1	18.21	18.24	18.18		
1.4	256QAM	3	3	18.24	18.29	18.08		
1.4	256QAM	6	0	18.14	18.28	18.22	20	3.5



<TDD LTE SAR Measurement>

TDD LTE configuration setup for SAR measurement

SAR was tested with a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by 3GPP.

- 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
- “special subframe S” contains both uplink and downlink transmissions, it has been taken into consideration to determine the transmission duty factor according to the worst case uplink and downlink cyclic prefix requirements for UpPTS
- Establishing connections with base station simulators ensure a consistent means for testing SAR and recommended for evaluating SAR. The Anritsu MT8820C (firmware: #22.52#004) was used for LTE output power measurements and SAR testing.

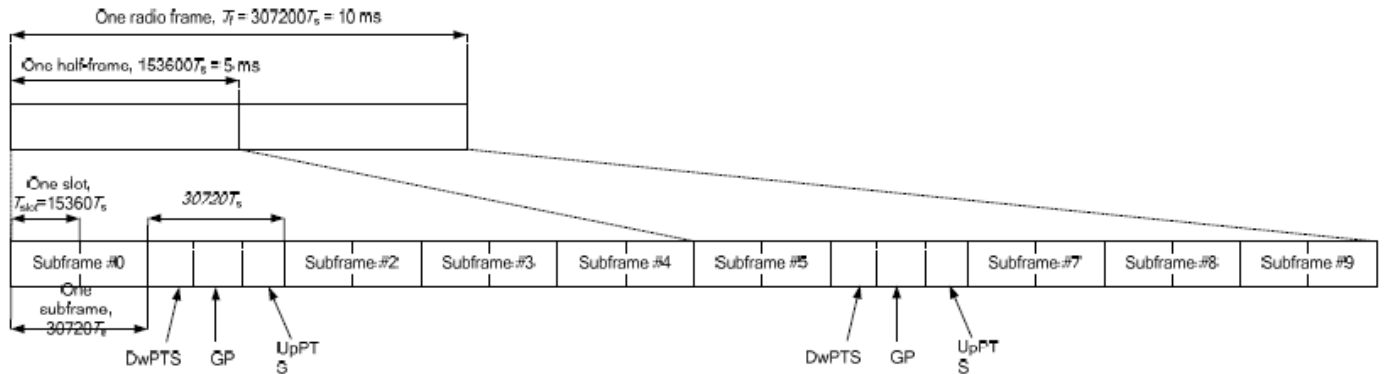


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

Table 4.2-2: Uplink-downlink configurations.

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$	-	-
8	$24144 \cdot T_s$			-		
9	$13168 \cdot T_s$			-		



Special subframe (30720·T _s): Normal cyclic prefix in downlink (UpPTS)			
	Special subframe configuration	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
Uplink duty factor in one special subframe	0~4	7.13%	8.33%
	5~9	14.3%	16.7%

Special subframe(30720·T _s): Extended cyclic prefix in downlink (UpPTS)			
	Special subframe configuration	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
Uplink duty factor in one special subframe	0~3	7.13%	8.33%
	4~7	14.3%	16.7%

The highest duty factor is resulted from:

For LTE TDD Power class 2

- Uplink-downlink configuration: 1. In a half-frame consisted of 5 subframes, uplink operation is in 2 uplink subframes and 1 special subframe.
- special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(2+0.167)/5 = 43.3\%$
- for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(2+0.143)/5 = 42.9\%$
- For TDD LTE SAR measurement, the duty cycle 1:2.33 (42.9 %) was used perform testing and considering the theoretical duty cycle of 43.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 42.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix $43.3\%/42.9\% = 1.009$ is applied to scale-up the measured SAR result. The scaled TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.

For LTE TDD Power class 3

- Uplink-downlink configuration: 0. In a half-frame consisted of 5 subframes, uplink operation is in 3 uplink subframes and 1 special subframe.
- special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.167)/5 = 63.3\%$
- for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.143)/5 = 62.9\%$
- For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix $63.3\%/62.9\% = 1.006$ is applied to scale-up the measured SAR result. The scaled TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.

The device can adjust uplink/downlink configuration automatically according to the transmitting power class level, as followings:

LTE TDD Band	Power Class level	support uplink/downlink configuration
LTE Band 41	> 23	1,2,3,4,5
	=23	0,1,2,3,4,5,6
	< 23	0,1,2,3,4,5,6

Full&Default Power Mode

Band 38 Ant3 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	22.70	22.77	22.69		
20	QPSK	1	49	22.76	22.68	22.61	24	0
20	QPSK	1	99	22.54	22.63	22.58	23	1
20	QPSK	50	0	21.76	21.80	21.64		
20	QPSK	50	24	21.56	21.60	21.64		
20	QPSK	50	50	21.78	21.75	21.70		
20	QPSK	100	0	21.68	21.78	21.76	23	1
20	16QAM	1	0	21.66	21.73	21.79		
20	16QAM	1	49	21.78	21.69	21.78		
20	16QAM	1	99	21.75	21.73	21.73	22	2
20	16QAM	50	0	20.76	20.74	20.66		
20	16QAM	50	24	20.51	20.61	20.69		
20	16QAM	50	50	20.72	20.70	20.69		
20	16QAM	100	0	20.71	20.68	20.67	22	2
20	64QAM	1	0	20.30	20.35	20.31		
20	64QAM	1	49	20.34	20.36	20.37		
20	64QAM	1	99	20.23	20.28	20.36	21	3
20	64QAM	50	0	19.71	19.71	19.76		
20	64QAM	50	24	19.68	19.77	19.72		
20	64QAM	50	50	19.64	19.69	19.78		
20	64QAM	100	0	19.86	19.79	19.70	19	5
20	256QAM	1	0	17.81	17.90	17.82		
20	256QAM	1	49	17.63	17.71	17.78		
20	256QAM	1	99	17.94	17.85	17.80	19	5
20	256QAM	50	0	17.67	17.70	17.76		
20	256QAM	50	24	17.81	17.77	17.73		
20	256QAM	50	50	17.81	17.73	17.68		
20	256QAM	100	0	17.84	17.84	17.83		
Channel				37825	38000	38175		
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	22.60	22.62	22.60	24	0
15	QPSK	1	37	22.63	22.59	22.48		
15	QPSK	1	74	22.42	22.56	22.52		
15	QPSK	36	0	21.52	21.55	21.52	23	1
15	QPSK	36	20	21.48	21.55	21.54		
15	QPSK	36	39	21.62	21.67	21.72		
15	QPSK	75	0	21.65	21.56	21.73		
15	16QAM	1	0	21.56	21.61	21.66	23	1
15	16QAM	1	37	21.62	21.57	21.71		
15	16QAM	1	74	21.58	21.59	21.56		

15	16QAM	36	0	20.67	20.65	20.63	22	2
15	16QAM	36	20	20.35	20.58	20.56		
15	16QAM	36	39	20.56	20.67	20.61		
15	16QAM	75	0	20.65	20.65	20.54		
15	64QAM	1	0	20.22	20.19	20.14	22	2
15	64QAM	1	37	20.28	20.23	20.27		
15	64QAM	1	74	20.14	20.24	20.33		
15	64QAM	36	0	19.61	19.53	19.66	21	3
15	64QAM	36	20	19.56	19.71	19.64		
15	64QAM	36	39	19.49	19.51	19.60		
15	64QAM	75	0	19.79	19.72	19.64		
15	256QAM	1	0	17.79	17.82	17.79	19	5
15	256QAM	1	37	17.48	17.55	17.73		
15	256QAM	1	74	17.79	17.82	17.63		
15	256QAM	36	0	17.60	17.66	17.59	19	5
15	256QAM	36	20	17.63	17.71	17.66		
15	256QAM	36	39	17.73	17.60	17.52		
15	256QAM	75	0	17.81	17.68	17.73		
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	22.63	22.66	22.51	24	0
10	QPSK	1	25	22.60	22.54	22.53		
10	QPSK	1	49	22.40	22.56	22.42		
10	QPSK	25	0	21.48	21.63	21.54	23	1
10	QPSK	25	12	21.51	21.45	21.56		
10	QPSK	25	25	21.75	21.57	21.65		
10	QPSK	50	0	21.53	21.49	21.72		
10	16QAM	1	0	21.58	21.68	21.65	23	1
10	16QAM	1	25	21.61	21.67	21.62		
10	16QAM	1	49	21.61	21.64	21.71		
10	16QAM	25	0	20.65	20.67	20.60	22	2
10	16QAM	25	12	20.45	20.48	20.52		
10	16QAM	25	25	20.58	20.53	20.58		
10	16QAM	50	0	20.56	20.63	20.65		
10	64QAM	1	0	20.13	20.22	20.24	22	2
10	64QAM	1	25	20.19	20.21	20.31		
10	64QAM	1	49	20.19	20.16	20.28		
10	64QAM	25	0	19.57	19.56	19.73	21	3
10	64QAM	25	12	19.60	19.70	19.58		
10	64QAM	25	25	19.50	19.57	19.63		
10	64QAM	50	0	19.72	19.75	19.65		
10	256QAM	1	0	17.67	17.77	17.70	19	5
10	256QAM	1	25	17.50	17.55	17.62		
10	256QAM	1	49	17.83	17.75	17.70		
10	256QAM	25	0	17.59	17.65	17.69	19	5
10	256QAM	25	12	17.73	17.67	17.63		
10	256QAM	25	25	17.75	17.65	17.57		
10	256QAM	50	0	17.66	17.80	17.66		
Channel				37775	38000	38225	Tune-up limit	MPR

Frequency (MHz)				2572.5	2595	2617.5	(dBm)	(dB)
5	QPSK	1	0	22.66	22.67	22.60	24	0
5	QPSK	1	12	22.70	22.66	22.54		
5	QPSK	1	24	22.47	22.54	22.44		
5	QPSK	12	0	21.52	21.62	21.48	23	1
5	QPSK	12	7	21.53	21.56	21.49		
5	QPSK	12	13	21.69	21.57	21.74		
5	QPSK	25	0	21.56	21.56	21.74		
5	16QAM	1	0	21.49	21.70	21.77	23	1
5	16QAM	1	12	21.76	21.61	21.64		
5	16QAM	1	24	21.59	21.71	21.58		
5	16QAM	12	0	20.63	20.61	20.64	22	2
5	16QAM	12	7	20.44	20.52	20.53		
5	16QAM	12	13	20.64	20.62	20.61		
5	16QAM	25	0	20.59	20.65	20.52		
5	64QAM	1	0	20.22	20.20	20.17	22	2
5	64QAM	1	12	20.26	20.31	20.28		
5	64QAM	1	24	20.14	20.20	20.20		
5	64QAM	12	0	19.62	19.58	19.71	21	3
5	64QAM	12	7	19.55	19.63	19.64		
5	64QAM	12	13	19.51	19.53	19.69		
5	64QAM	25	0	19.69	19.74	19.58		
5	256QAM	1	0	17.70	17.76	17.76	19	5
5	256QAM	1	12	17.50	17.54	17.74		
5	256QAM	1	24	17.85	17.82	17.70		
5	256QAM	12	0	17.55	17.54	17.65	19	5
5	256QAM	12	7	17.69	17.67	17.61		
5	256QAM	12	13	17.79	17.62	17.58		
5	256QAM	25	0	17.77	17.68	17.73		

Band 41 Ant3 Default											
BW [MHz]	Modulation	RB Size	RB Offset	for IC Power Low Ch. / Freq.	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39790	39750	40185	40620	41055	41490	24	0
Frequency (MHz)				2510	2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.69	22.67	22.70	22.81	22.72	22.78		
20	QPSK	1	49	22.73	22.77	22.72	22.78	22.71	22.70	23	1
20	QPSK	1	99	22.77	22.78	22.67	22.75	22.79	22.78		
20	QPSK	50	0	21.80	21.81	21.76	21.83	21.74	21.71		
20	QPSK	50	24	21.55	21.60	21.65	21.57	21.50	21.65		
20	QPSK	50	50	21.68	21.73	21.66	21.74	21.79	21.82	23	1
20	QPSK	100	0	21.70	21.71	21.65	21.73	21.60	21.63		
20	16QAM	1	0	21.56	21.57	21.56	21.60	21.60	21.64		
20	16QAM	1	49	21.65	21.68	21.67	21.63	21.65	21.61	22	2
20	16QAM	1	99	21.56	21.43	21.49	21.48	21.42	21.42		
20	16QAM	50	0	20.76	20.70	20.77	20.76	20.70	20.72		
20	16QAM	50	24	20.68	20.73	20.72	20.69	20.76	20.67	22	2

20	16QAM	50	50	20.66	20.61	20.59	20.60	20.62	20.65		
20	16QAM	100	0	20.71	20.77	20.80	20.74	20.77	20.78		
20	64QAM	1	0	20.22	20.29	20.29	20.27	20.23	20.27	22	2
20	64QAM	1	49	20.31	20.27	20.27	20.32	20.37	20.38		
20	64QAM	1	99	20.43	20.50	20.38	20.43	20.42	20.36	21	3
20	64QAM	50	0	19.76	19.71	19.69	19.68	19.76	19.69		
20	64QAM	50	24	19.51	19.55	19.56	19.57	19.63	19.60		
20	64QAM	50	50	19.60	19.70	19.71	19.65	19.60	19.58		
20	64QAM	100	0	19.66	19.75	19.62	19.68	19.68	19.74	19	5
20	256QAM	1	0	17.74	17.81	17.81	17.78	17.86	17.79		
20	256QAM	1	49	17.71	17.75	17.68	17.74	17.81	17.79		
20	256QAM	1	99	17.57	17.60	17.54	17.58	17.61	17.57	19	5
20	256QAM	50	0	17.72	17.61	17.66	17.67	17.64	17.62		
20	256QAM	50	24	17.78	17.86	17.87	17.81	17.86	17.80		
20	256QAM	50	50	17.60	17.60	17.73	17.66	17.73	17.64		
20	256QAM	100	0	17.87	17.83	17.93	17.89	17.83	17.85	Tune-up limit (dBm)	MPR (dB)
Channel				39765	39725	40173	40620	41068	41515		
Frequency (MHz)				2507.5	2503.5	2548.3	2593	2637.8	2682.5	24.00	0
15	QPSK	1	0	22.55	22.64	22.55	22.67	22.63	22.70		
15	QPSK	1	37	22.56	22.66	22.59	22.68	22.64	22.52	23	1
15	QPSK	1	74	22.70	22.65	22.50	22.64	22.65	22.71		
15	QPSK	36	0	21.49	21.60	21.49	21.41	21.62	21.44		
15	QPSK	36	20	21.44	21.57	21.53	21.40	21.46	21.54		
15	QPSK	36	39	21.60	21.61	21.48	21.64	21.71	21.67	23	1
15	QPSK	75	0	21.61	21.69	21.63	21.59	21.48	21.55		
15	16QAM	1	0	21.49	21.43	21.47	21.53	21.46	21.54		
15	16QAM	1	37	21.54	21.62	21.56	21.56	21.58	21.54	22	2
15	16QAM	1	74	21.38	21.39	21.44	21.45	21.28	21.37		
15	16QAM	36	0	20.69	20.63	20.69	20.61	20.63	20.66		
15	16QAM	36	20	20.54	20.62	20.70	20.55	20.60	20.56		
15	16QAM	36	39	20.59	20.52	20.54	20.55	20.53	20.61	22	2
15	16QAM	75	0	20.57	20.61	20.65	20.68	20.71	20.68		
15	64QAM	1	0	20.06	20.12	20.26	20.23	20.18	20.24		
15	64QAM	1	37	20.23	20.10	20.10	20.23	20.21	20.35	21	3
15	64QAM	1	74	20.32	20.39	20.34	20.29	20.25	20.33		
15	64QAM	36	0	19.67	19.59	19.58	19.63	19.68	19.59		
15	64QAM	36	20	19.35	19.46	19.53	19.47	19.50	19.55	19	5
15	64QAM	36	39	19.47	19.64	19.55	19.47	19.54	19.42		
15	64QAM	75	0	19.62	19.63	19.53	19.60	19.57	19.67		
15	256QAM	1	0	17.68	17.66	17.74	17.74	17.82	17.68	19	5
15	256QAM	1	37	17.61	17.67	17.62	17.70	17.66	17.76		
15	256QAM	1	74	17.43	17.49	17.50	17.49	17.57	17.54		
15	256QAM	36	0	17.58	17.48	17.64	17.61	17.57	17.49	19	5
15	256QAM	36	20	17.71	17.81	17.73	17.70	17.83	17.75		
15	256QAM	36	39	17.55	17.45	17.66	17.63	17.57	17.56		
15	256QAM	75	0	17.76	17.74	17.84	17.85	17.74	17.74	Tune-up limit (dBm)	MPR (dB)
Channel				39740	39700	40160	40620	41080	41540		
Frequency (MHz)				2505	2501	2547	2593	2639	2685	24.00	0
10	QPSK	1	0	22.64	22.61	22.61	22.64	22.57	22.61		



10	QPSK	1	25	22.66	22.71	22.61	22.71	22.67	22.62		
10	QPSK	1	49	22.65	22.64	22.49	22.66	22.74	22.64		
10	QPSK	25	0	21.49	21.47	21.53	21.55	21.58	21.42	23	1
10	QPSK	25	12	21.51	21.44	21.58	21.48	21.39	21.49		
10	QPSK	25	25	21.53	21.69	21.58	21.62	21.70	21.68		
10	QPSK	50	0	21.58	21.55	21.49	21.52	21.53	21.55		
10	16QAM	1	0	21.41	21.54	21.52	21.52	21.45	21.49	23	1
10	16QAM	1	25	21.56	21.51	21.54	21.54	21.62	21.53		
10	16QAM	1	49	21.51	21.30	21.40	21.41	21.25	21.36		
10	16QAM	25	0	20.73	20.62	20.66	20.66	20.53	20.60	22	2
10	16QAM	25	12	20.56	20.62	20.65	20.65	20.65	20.55		
10	16QAM	25	25	20.53	20.47	20.50	20.57	20.51	20.61		
10	16QAM	50	0	20.63	20.73	20.67	20.64	20.61	20.74		
10	64QAM	1	0	20.09	20.18	20.13	20.19	20.21	20.19	22	2
10	64QAM	1	25	20.28	20.17	20.10	20.23	20.31	20.36		
10	64QAM	1	49	20.37	20.37	20.33	20.35	20.27	20.24		
10	64QAM	25	0	19.62	19.58	19.53	19.51	19.63	19.61	21	3
10	64QAM	25	12	19.34	19.53	19.52	19.43	19.59	19.52		
10	64QAM	25	25	19.44	19.53	19.61	19.49	19.56	19.46		
10	64QAM	50	0	19.62	19.64	19.49	19.53	19.54	19.68		
10	256QAM	1	0	17.62	17.74	17.69	17.63	17.80	17.72	19	5
10	256QAM	1	25	17.54	17.68	17.59	17.70	17.75	17.65		
10	256QAM	1	49	17.51	17.57	17.49	17.44	17.45	17.46		
10	256QAM	25	0	17.63	17.58	17.53	17.58	17.59	17.50	19	5
10	256QAM	25	12	17.73	17.81	17.74	17.75	17.81	17.76		
10	256QAM	25	25	17.54	17.53	17.57	17.58	17.70	17.47		
10	256QAM	50	0	17.74	17.78	17.85	17.85	17.67	17.71		
Channel				39715	39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	22.61	22.64	22.62	22.75	22.63	22.70	24.00	0
5	QPSK	1	12	22.57	22.70	22.55	22.72	22.54	22.66		
5	QPSK	1	24	22.62	22.60	22.57	22.68	22.72	22.71		
5	QPSK	12	0	21.61	21.51	21.39	21.43	21.55	21.34	23	1
5	QPSK	12	7	21.49	21.52	21.62	21.51	21.45	21.54		
5	QPSK	12	13	21.56	21.61	21.56	21.62	21.67	21.80		
5	QPSK	25	0	21.53	21.61	21.62	21.60	21.51	21.59		
5	16QAM	1	0	21.38	21.45	21.48	21.57	21.51	21.50	23	1
5	16QAM	1	12	21.62	21.53	21.56	21.52	21.59	21.54		
5	16QAM	1	24	21.42	21.25	21.41	21.37	21.30	21.39		
5	16QAM	12	0	20.61	20.64	20.61	20.67	20.56	20.64	22	2
5	16QAM	12	7	20.61	20.68	20.66	20.65	20.64	20.57		
5	16QAM	12	13	20.56	20.47	20.47	20.46	20.44	20.50		
5	16QAM	25	0	20.57	20.71	20.75	20.59	20.61	20.68		
5	64QAM	1	0	20.05	20.14	20.16	20.10	20.13	20.13	22	2
5	64QAM	1	12	20.19	20.13	20.22	20.19	20.31	20.23		
5	64QAM	1	24	20.32	20.35	20.22	20.31	20.27	20.26		
5	64QAM	12	0	19.64	19.66	19.54	19.58	19.64	19.54	21	3
5	64QAM	12	7	19.43	19.47	19.50	19.44	19.59	19.49		
5	64QAM	12	13	19.55	19.61	19.54	19.63	19.55	19.47		

5	64QAM	25	0	19.61	19.61	19.51	19.64	19.60	19.63		
5	256QAM	1	0	17.66	17.69	17.67	17.75	17.76	17.67	19	5
5	256QAM	1	12	17.57	17.68	17.58	17.69	17.67	17.66		
5	256QAM	1	24	17.47	17.54	17.43	17.49	17.50	17.53		
5	256QAM	12	0	17.64	17.47	17.53	17.50	17.60	17.53	19	5
5	256QAM	12	7	17.75	17.83	17.77	17.66	17.72	17.62		
5	256QAM	12	13	17.46	17.50	17.67	17.52	17.61	17.54		
5	256QAM	25	0	17.77	17.75	17.77	17.82	17.65	17.76		

Band 41 HPUE Ant3 Default											
BW [MHz]	Modulation	RB Size	RB Offset	for IC Power Low Ch. / Freq.	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	25.77	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39790	39750	40185	40620	41055	41490		
Frequency (MHz)				2510	2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	25.89	25.76	25.90	26.01	25.91	25.96	27	0
20	QPSK	1	49	25.94	25.93	25.89	25.93	26.00	25.90		
20	QPSK	1	99	25.87	25.88	25.83	25.87	25.90	25.95		
20	QPSK	50	0	24.95	24.86	24.94	25.04	24.87	24.86	26	1
20	QPSK	50	24	24.99	24.96	24.95	24.97	24.91	24.94		
20	QPSK	50	50	24.93	24.98	24.97	24.92	24.90	25.00		
20	QPSK	100	0	24.99	25.10	24.98	25.11	25.00	24.98	26	1
20	16QAM	1	0	25.24	25.29	25.18	25.22	25.22	25.19		
20	16QAM	1	49	25.10	25.15	25.20	25.13	25.09	25.06		
20	16QAM	1	99	25.22	25.18	25.23	25.18	25.23	25.22	25	2
20	16QAM	50	0	23.92	23.94	23.89	23.91	23.99	23.97		
20	16QAM	50	24	23.98	23.89	23.95	23.92	23.88	23.93		
20	16QAM	50	50	23.93	23.95	23.82	23.88	23.81	23.92	25	2
20	16QAM	100	0	23.97	23.92	23.92	23.99	24.06	24.06		
20	64QAM	1	0	23.86	23.85	23.97	23.90	23.96	23.83		
20	64QAM	1	49	23.78	23.76	23.67	23.75	23.79	23.82	24	3
20	64QAM	1	99	23.75	23.74	23.82	23.76	23.81	23.82		
20	64QAM	50	0	23.02	23.05	22.97	23.01	23.07	23.01		
20	64QAM	50	24	22.89	22.96	22.93	22.94	22.95	22.89	22	5
20	64QAM	50	50	23.06	23.19	23.18	23.13	23.11	23.18		
20	64QAM	100	0	22.99	22.89	23.00	22.93	22.90	22.93		
20	256QAM	1	0	21.10	21.23	21.14	21.15	21.15	21.09	22	5
20	256QAM	1	49	21.30	21.20	21.28	21.24	21.31	21.30		
20	256QAM	1	99	21.18	21.16	21.12	21.16	21.20	21.23		
20	256QAM	50	0	20.90	21.02	20.95	20.96	20.94	20.95	22	5
20	256QAM	50	24	21.11	21.02	21.01	21.07	21.12	21.03		
20	256QAM	50	50	20.91	20.92	21.00	20.97	20.94	21.02		
20	256QAM	100	0	21.14	21.16	21.19	21.13	21.07	21.08	27.00	0
Channel				39765	39725	40173	40620	41068	41515		
Frequency (MHz)				2507.5	2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	25.79	25.64	25.86	25.96	25.77	25.81	27.00	0
15	QPSK	1	37	25.86	25.84	25.86	25.90	25.94	25.84		
15	QPSK	1	74	25.74	25.71	25.77	25.73	25.82	25.91		



15	QPSK	36	0	24.81	24.77	24.80	24.83	24.77	24.76	26	1
15	QPSK	36	20	24.85	24.92	24.79	24.89	25.01	24.88		
15	QPSK	36	39	24.78	24.85	24.88	24.77	24.72	24.97		
15	QPSK	75	0	24.85	24.95	24.82	24.85	24.91	24.86	26	1
15	16QAM	1	0	25.11	25.20	25.03	25.14	25.08	25.09		
15	16QAM	1	37	25.01	25.05	25.10	25.03	24.94	24.88		
15	16QAM	1	74	25.19	25.02	25.20	25.10	25.14	25.16	25	2
15	16QAM	36	0	23.83	23.82	23.85	23.81	23.94	23.92		
15	16QAM	36	20	23.92	23.79	23.84	23.85	23.86	23.75		
15	16QAM	36	39	23.86	23.91	23.65	23.82	23.65	23.77	25	2
15	16QAM	75	0	23.93	23.82	23.87	23.85	23.91	23.95		
15	64QAM	1	0	23.75	23.70	23.81	23.88	23.81	23.74		
15	64QAM	1	37	23.67	23.65	23.63	23.62	23.63	23.74	25	2
15	64QAM	1	74	23.58	23.66	23.73	23.71	23.63	23.69		
15	64QAM	36	0	22.98	22.94	22.81	22.83	22.92	22.92	24	3
15	64QAM	36	20	22.83	22.87	22.77	22.81	22.80	22.72		
15	64QAM	36	39	22.98	23.03	23.12	22.99	22.96	23.03		
15	64QAM	75	0	22.90	22.75	22.94	22.88	22.80	22.89	22	5
15	256QAM	1	0	20.98	21.11	21.11	21.03	20.99	21.07		
15	256QAM	1	37	21.19	21.09	21.23	21.20	21.20	21.26		
15	256QAM	1	74	21.08	21.12	21.01	21.13	21.09	21.11	22	5
15	256QAM	36	0	20.78	20.91	20.81	20.82	20.79	20.91		
15	256QAM	36	20	21.06	20.91	20.86	20.95	21.02	20.94		
15	256QAM	36	39	20.77	20.75	20.95	20.88	20.90	20.97	22	5
15	256QAM	75	0	21.00	21.02	21.03	21.08	20.95	20.98		
Channel				39740	39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2501	2547	2593	2639	2685		
10	QPSK	1	0	25.80	25.64	25.74	25.87	25.77	25.90	27.00	0
10	QPSK	1	25	25.76	25.82	25.85	25.81	25.82	25.76		
10	QPSK	1	49	25.71	25.76	25.70	25.80	25.74	25.85		
10	QPSK	25	0	24.82	24.74	24.88	24.74	24.74	24.72	26	1
10	QPSK	25	12	24.88	24.94	24.92	24.91	24.96	24.88		
10	QPSK	25	25	24.82	24.90	24.81	24.76	24.82	24.95		
10	QPSK	50	0	24.94	24.99	24.90	24.80	24.90	24.81	26	1
10	16QAM	1	0	25.19	25.21	25.00	25.12	25.06	25.13		
10	16QAM	1	25	24.96	24.98	25.16	24.97	25.03	24.91		
10	16QAM	1	49	25.18	25.14	25.18	25.10	25.09	25.13	25	2
10	16QAM	25	0	23.78	23.92	23.76	23.77	23.90	23.80		
10	16QAM	25	12	23.92	23.79	23.83	23.84	23.81	23.75		
10	16QAM	25	25	23.84	23.93	23.73	23.77	23.66	23.81	25	2
10	16QAM	50	0	23.85	23.82	23.81	23.92	23.99	23.93		
10	64QAM	1	0	23.83	23.82	23.88	23.81	23.83	23.67		
10	64QAM	1	25	23.71	23.58	23.63	23.73	23.62	23.71	25	2
10	64QAM	1	49	23.64	23.65	23.69	23.73	23.72	23.67		
10	64QAM	25	0	22.87	22.93	22.92	22.89	22.90	22.95		
10	64QAM	25	12	22.74	22.87	22.84	22.80	22.82	22.77	24	3
10	64QAM	25	25	22.91	23.10	23.12	23.08	22.99	23.07		
10	64QAM	50	0	22.84	22.86	22.92	22.75	22.82	22.90		
10	256QAM	1	0	21.03	21.14	21.12	20.99	21.03	20.97	22	5



10	256QAM	1	25	21.23	21.06	21.13	21.10	21.16	21.24		
10	256QAM	1	49	21.14	21.10	20.99	21.00	21.03	21.20		
10	256QAM	25	0	20.80	20.95	20.82	20.78	20.84	20.85		
10	256QAM	25	12	20.96	20.91	20.92	21.02	21.07	20.93	22	5
10	256QAM	25	25	20.85	20.85	20.85	20.84	20.86	20.87		
10	256QAM	50	0	21.09	21.13	21.07	21.05	21.03	20.99		
Channel				39715	39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	25.71	25.70	25.73	25.94	25.73	25.82	27.00	0
5	QPSK	1	12	25.83	25.82	25.75	25.89	25.82	25.73		
5	QPSK	1	24	25.72	25.83	25.81	25.76	25.78	25.81		
5	QPSK	12	0	24.84	24.83	24.79	24.87	24.78	24.76	26	1
5	QPSK	12	7	24.85	24.92	24.91	24.80	24.99	24.80		
5	QPSK	12	13	24.88	24.86	24.80	24.90	24.74	24.88		
5	QPSK	25	0	24.85	24.94	24.81	24.82	24.90	24.95		
5	16QAM	1	0	25.07	25.14	25.00	25.11	25.10	25.09	26	1
5	16QAM	1	12	25.01	25.01	25.18	24.98	24.95	24.93		
5	16QAM	1	24	25.14	25.02	25.17	25.01	25.18	25.07		
5	16QAM	12	0	23.90	23.84	23.77	23.75	23.92	23.93	25	2
5	16QAM	12	7	23.87	23.81	23.82	23.79	23.86	23.82		
5	16QAM	12	13	23.78	23.83	23.71	23.73	23.77	23.80		
5	16QAM	25	0	23.89	23.86	23.74	23.85	23.93	23.94		
5	64QAM	1	0	23.83	23.78	23.87	23.75	23.88	23.76	25	2
5	64QAM	1	12	23.70	23.66	23.61	23.64	23.76	23.69		
5	64QAM	1	24	23.66	23.66	23.79	23.61	23.73	23.72		
5	64QAM	12	0	23.00	23.00	22.95	22.94	22.95	22.94	24	3
5	64QAM	12	7	22.75	22.83	22.79	22.78	22.80	22.84		
5	64QAM	12	13	22.95	23.14	23.01	23.07	23.00	23.02		
5	64QAM	25	0	22.84	22.84	22.97	22.77	22.81	22.78		
5	256QAM	1	0	21.00	21.08	21.11	21.03	21.06	20.97	22	5
5	256QAM	1	12	21.24	21.06	21.17	21.12	21.23	21.23		
5	256QAM	1	24	21.04	21.06	21.02	21.13	21.11	21.19		
5	256QAM	12	0	20.85	20.97	20.83	20.83	20.84	20.85	22	5
5	256QAM	12	7	21.08	20.84	20.98	20.98	20.97	20.92		
5	256QAM	12	13	20.74	20.80	20.95	20.93	20.92	20.92		
5	256QAM	25	0	20.97	21.04	21.12	21.09	20.90	20.91		

Band 48 Ant4 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	21.79	21.90	21.86	21.85	23	0
20	QPSK	1	49	21.81	21.82	21.84	21.77		
20	QPSK	1	99	21.79	21.81	21.76	21.74		
20	QPSK	50	0	20.97	21.13	20.86	20.99	22	1
20	QPSK	50	24	21.00	20.96	21.00	20.97		
20	QPSK	50	50	20.95	20.96	21.02	20.92		
20	QPSK	100	0	20.90	21.07	21.02	20.93		
20	16QAM	1	0	20.80	20.73	20.69	20.78	22	1
20	16QAM	1	49	20.77	20.75	20.70	20.68		
20	16QAM	1	99	20.70	20.73	20.70	20.65		
20	16QAM	50	0	19.82	19.80	19.83	19.85	21	2
20	16QAM	50	24	19.92	19.97	19.93	19.97		
20	16QAM	50	50	20.01	19.99	19.96	19.94		
20	16QAM	100	0	19.88	19.94	19.97	19.96		
20	64QAM	1	0	19.74	19.69	19.71	19.77	21	2
20	64QAM	1	49	19.65	19.66	19.67	19.64		
20	64QAM	1	99	19.71	19.64	19.66	19.64		
20	64QAM	50	0	19.02	18.95	19.02	18.99	20	3
20	64QAM	50	24	18.78	18.74	18.72	18.80		
20	64QAM	50	50	19.02	18.95	18.96	18.90		
20	64QAM	100	0	18.88	18.82	18.86	18.83		
20	256QAM	1	0	16.72	16.79	16.75	16.76	18	5
20	256QAM	1	49	16.79	16.72	16.69	16.65		
20	256QAM	1	99	16.70	16.72	16.70	16.71		
20	256QAM	50	0	17.02	17.02	17.09	17.06	18	5
20	256QAM	50	24	16.97	17.02	17.05	16.94		
20	256QAM	50	50	16.79	16.80	16.81	16.73		
20	256QAM	100	0	16.97	16.92	16.98	16.91		
Channel				55315	55820	56160	56665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	21.62	21.79	21.71	21.69	23	0
15	QPSK	1	37	21.77	21.73	21.66	21.64		
15	QPSK	1	74	21.72	21.74	21.71	21.70		
15	QPSK	36	0	20.80	20.75	20.80	20.84	22	1
15	QPSK	36	20	20.91	20.88	20.84	20.94		
15	QPSK	36	39	20.87	20.90	20.99	20.82		
15	QPSK	75	0	20.81	20.89	20.89	20.81		
15	16QAM	1	0	20.72	20.66	20.60	20.64	22	1
15	16QAM	1	37	20.63	20.66	20.58	20.60		
15	16QAM	1	74	20.61	20.60	20.64	20.65		
15	16QAM	36	0	19.65	19.73	19.67	19.81	21	2



15	16QAM	36	20	19.78	19.95	19.83	19.82		
15	16QAM	36	39	19.91	19.92	19.80	19.90		
15	16QAM	75	0	19.76	19.91	19.81	19.85		
15	64QAM	1	0	19.59	19.52	19.58	19.61	21	2
15	64QAM	1	37	19.67	19.66	19.54	19.56		
15	64QAM	1	74	19.56	19.52	19.54	19.51		
15	64QAM	36	0	18.98	18.81	18.98	18.90	20	3
15	64QAM	36	20	18.69	18.58	18.57	18.63		
15	64QAM	36	39	18.84	18.91	18.89	18.86		
15	64QAM	75	0	18.76	18.74	18.78	18.71	18	5
15	256QAM	1	0	16.56	16.61	16.66	16.71		
15	256QAM	1	37	16.70	16.63	16.53	16.55		
15	256QAM	1	74	16.67	16.69	16.58	16.59	18	5
15	256QAM	36	0	16.86	16.94	16.98	16.91		
15	256QAM	36	20	16.82	16.84	16.99	16.86		
15	256QAM	36	39	16.63	16.75	16.79	16.57	18	5
15	256QAM	75	0	16.81	16.85	16.84	16.78		
Channel				55290	55815	56165	56690	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	21.66	21.83	21.82	21.67	23	0
10	QPSK	1	25	21.71	21.71	21.71	21.64		
10	QPSK	1	49	21.74	21.77	21.69	21.65		
10	QPSK	25	0	20.81	20.84	20.84	20.97	22	1
10	QPSK	25	12	20.90	20.83	20.87	20.90		
10	QPSK	25	25	20.79	20.85	20.96	20.76		
10	QPSK	50	0	20.74	20.94	20.95	20.80	22	1
10	16QAM	1	0	20.71	20.56	20.53	20.66		
10	16QAM	1	25	20.70	20.58	20.63	20.62		
10	16QAM	1	49	20.65	20.64	20.63	20.61	21	2
10	16QAM	25	0	19.73	19.73	19.73	19.81		
10	16QAM	25	12	19.89	19.81	19.82	19.89		
10	16QAM	25	25	19.89	19.94	19.80	19.91	21	2
10	16QAM	50	0	19.72	19.91	19.89	19.84		
10	64QAM	1	0	19.67	19.53	19.67	19.60		
10	64QAM	1	25	19.59	19.56	19.51	19.62	20	3
10	64QAM	1	49	19.67	19.53	19.55	19.65		
10	64QAM	25	0	18.99	18.86	18.88	18.93		
10	64QAM	25	12	18.69	18.66	18.63	18.73	18	5
10	64QAM	25	25	18.88	18.80	18.89	18.83		
10	64QAM	50	0	18.84	18.68	18.71	18.75		
10	256QAM	1	0	16.66	16.61	16.64	16.66	18	5
10	256QAM	1	25	16.77	16.67	16.58	16.50		
10	256QAM	1	49	16.52	16.57	16.58	16.54		
10	256QAM	25	0	16.91	16.88	17.02	17.03	18	5
10	256QAM	25	12	16.95	16.92	16.90	16.89		
10	256QAM	25	25	16.70	16.76	16.66	16.62		
10	256QAM	50	0	16.91	16.83	16.95	16.87	Tune-up limit (dBm)	MPR (dB)
Channel				55265	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		



5	QPSK	1	0	21.68	21.77	21.79	21.78	23	0
5	QPSK	1	12	21.73	21.66	21.68	21.72		
5	QPSK	1	24	21.65	21.72	21.74	21.57		
5	QPSK	12	0	20.86	20.82	20.78	20.94	22	1
5	QPSK	12	7	20.89	20.88	20.98	20.90		
5	QPSK	12	13	20.77	20.81	20.84	20.81		
5	QPSK	25	0	20.84	20.81	20.89	20.90		
5	16QAM	1	0	20.72	20.70	20.54	20.75	22	1
5	16QAM	1	12	20.60	20.63	20.56	20.52		
5	16QAM	1	24	20.53	20.64	20.67	20.55		
5	16QAM	12	0	19.69	19.64	19.67	19.72	21	2
5	16QAM	12	7	19.86	19.85	19.83	19.82		
5	16QAM	12	13	19.97	19.83	19.91	19.79		
5	16QAM	25	0	19.76	19.79	19.91	19.93		
5	64QAM	1	0	19.59	19.64	19.65	19.64	21	2
5	64QAM	1	12	19.50	19.53	19.59	19.52		
5	64QAM	1	24	19.56	19.51	19.56	19.76		
5	64QAM	12	0	18.93	18.87	18.90	18.85	20	3
5	64QAM	12	7	18.65	18.71	18.63	18.75		
5	64QAM	12	13	18.89	18.81	18.83	18.80		
5	64QAM	25	0	18.77	18.75	18.71	18.75		
5	256QAM	1	0	16.67	16.65	16.73	16.58	18	5
5	256QAM	1	12	16.75	16.61	16.58	16.57		
5	256QAM	1	24	16.63	16.56	16.65	16.55		
5	256QAM	12	0	16.96	16.99	17.00	17.02	18	5
5	256QAM	12	7	16.94	16.89	16.97	16.89		
5	256QAM	12	13	16.69	16.66	16.78	16.63		
5	256QAM	25	0	16.83	16.76	16.81	16.76		

Reduced Power Mode for DSI 0

Band 38 Ant3 DSI0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	21.97	22.23	22.12	22.8	0
20	QPSK	1	49	21.97	22.14	22.13		
20	QPSK	1	99	22.04	22.10	22.15		
20	QPSK	50	0	21.76	21.80	21.64	22.8	0
20	QPSK	50	24	21.56	21.60	21.64		
20	QPSK	50	50	21.78	21.75	21.70		
20	QPSK	100	0	21.68	21.78	21.76	22.8	0
20	16QAM	1	0	21.66	21.73	21.79		
20	16QAM	1	49	21.78	21.69	21.78		
20	16QAM	1	99	21.75	21.73	21.73	22	0.8
20	16QAM	50	0	20.76	20.74	20.66		
20	16QAM	50	24	20.51	20.61	20.69		
20	16QAM	50	50	20.72	20.70	20.69	22	0.8
20	16QAM	100	0	20.71	20.68	20.67		
20	64QAM	1	0	20.30	20.35	20.31		
20	64QAM	1	49	20.34	20.36	20.37	21	1.8
20	64QAM	1	99	20.23	20.28	20.36		
20	64QAM	50	0	19.71	19.71	19.76		
20	64QAM	50	24	19.68	19.77	19.72	19	3.8
20	64QAM	50	50	19.64	19.69	19.78		
20	64QAM	100	0	19.86	19.79	19.70		
20	256QAM	1	0	17.81	17.90	17.82	19	3.8
20	256QAM	1	49	17.63	17.71	17.78		
20	256QAM	1	99	17.94	17.85	17.80		
20	256QAM	50	0	17.67	17.70	17.76	19	3.8
20	256QAM	50	24	17.81	17.77	17.73		
20	256QAM	50	50	17.81	17.73	17.68		
20	256QAM	100	0	17.84	17.84	17.83	22.8	0
15	QPSK	1	0	21.86	22.10	22.04		
15	QPSK	1	37	21.93	22.09	22.05		
15	QPSK	1	74	21.93	21.97	22.10	22.8	0
15	QPSK	36	0	21.52	21.55	21.52		
15	QPSK	36	20	21.48	21.55	21.54		
15	QPSK	36	39	21.62	21.67	21.72	22.8	0
15	QPSK	75	0	21.65	21.56	21.73		
15	16QAM	1	0	21.56	21.61	21.66		
15	16QAM	1	37	21.62	21.57	21.71	22.8	0
15	16QAM	1	74	21.58	21.59	21.56		
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5		

15	16QAM	36	0	20.67	20.65	20.63	22	0.8
15	16QAM	36	20	20.35	20.58	20.56		
15	16QAM	36	39	20.56	20.67	20.61		
15	16QAM	75	0	20.65	20.65	20.54		
15	64QAM	1	0	20.22	20.19	20.14	22	0.8
15	64QAM	1	37	20.28	20.23	20.27		
15	64QAM	1	74	20.14	20.24	20.33		
15	64QAM	36	0	19.61	19.53	19.66	21	1.8
15	64QAM	36	20	19.56	19.71	19.64		
15	64QAM	36	39	19.49	19.51	19.60		
15	64QAM	75	0	19.79	19.72	19.64		
15	256QAM	1	0	17.79	17.82	17.79	19	3.8
15	256QAM	1	37	17.48	17.55	17.73		
15	256QAM	1	74	17.79	17.82	17.63		
15	256QAM	36	0	17.60	17.66	17.59	19	3.8
15	256QAM	36	20	17.63	17.71	17.66		
15	256QAM	36	39	17.73	17.60	17.52		
15	256QAM	75	0	17.81	17.68	17.73		
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	21.85	22.17	22.04	22.8	0
10	QPSK	1	25	21.91	22.02	21.99		
10	QPSK	1	49	21.93	22.03	22.11		
10	QPSK	25	0	21.48	21.63	21.54	22.8	0
10	QPSK	25	12	21.51	21.45	21.56		
10	QPSK	25	25	21.75	21.57	21.65		
10	QPSK	50	0	21.53	21.49	21.72		
10	16QAM	1	0	21.58	21.68	21.65	22.8	0
10	16QAM	1	25	21.61	21.67	21.62		
10	16QAM	1	49	21.61	21.64	21.71		
10	16QAM	25	0	20.65	20.67	20.60	22	0.8
10	16QAM	25	12	20.45	20.48	20.52		
10	16QAM	25	25	20.58	20.53	20.58		
10	16QAM	50	0	20.56	20.63	20.65		
10	64QAM	1	0	20.13	20.22	20.24	22	0.8
10	64QAM	1	25	20.19	20.21	20.31		
10	64QAM	1	49	20.19	20.16	20.28		
10	64QAM	25	0	19.57	19.56	19.73	21	1.8
10	64QAM	25	12	19.60	19.70	19.58		
10	64QAM	25	25	19.50	19.57	19.63		
10	64QAM	50	0	19.72	19.75	19.65		
10	256QAM	1	0	17.67	17.77	17.70	19	3.8
10	256QAM	1	25	17.50	17.55	17.62		
10	256QAM	1	49	17.83	17.75	17.70		
10	256QAM	25	0	17.59	17.65	17.69	19	3.8
10	256QAM	25	12	17.73	17.67	17.63		
10	256QAM	25	25	17.75	17.65	17.57		
10	256QAM	50	0	17.66	17.80	17.66		
Channel				37775	38000	38225	Tune-up limit	MPR

Frequency (MHz)				2572.5	2595	2617.5	(dBm)	(dB)
5	QPSK	1	0	21.87	22.18	22.00	22.8	0
5	QPSK	1	12	21.84	22.10	22.06		
5	QPSK	1	24	21.94	22.01	22.10		
5	QPSK	12	0	21.52	21.62	21.48	22.8	0
5	QPSK	12	7	21.53	21.56	21.49		
5	QPSK	12	13	21.69	21.57	21.74		
5	QPSK	25	0	21.56	21.56	21.74		
5	16QAM	1	0	21.49	21.70	21.77	22.8	0
5	16QAM	1	12	21.76	21.61	21.64		
5	16QAM	1	24	21.59	21.71	21.58		
5	16QAM	12	0	20.63	20.61	20.64	22	0.8
5	16QAM	12	7	20.44	20.52	20.53		
5	16QAM	12	13	20.64	20.62	20.61		
5	16QAM	25	0	20.59	20.65	20.52		
5	64QAM	1	0	20.22	20.20	20.17	22	0.8
5	64QAM	1	12	20.26	20.31	20.28		
5	64QAM	1	24	20.14	20.20	20.20		
5	64QAM	12	0	19.62	19.58	19.71	21	1.8
5	64QAM	12	7	19.55	19.63	19.64		
5	64QAM	12	13	19.51	19.53	19.69		
5	64QAM	25	0	19.69	19.74	19.58		
5	256QAM	1	0	17.70	17.76	17.76	19	3.8
5	256QAM	1	12	17.50	17.54	17.74		
5	256QAM	1	24	17.85	17.82	17.70		
5	256QAM	12	0	17.55	17.54	17.65	19	3.8
5	256QAM	12	7	17.69	17.67	17.61		
5	256QAM	12	13	17.79	17.62	17.58		
5	256QAM	25	0	17.77	17.68	17.73		

Band 41 Ant3 DSI0											
BW [MHz]	Modulation	RB Size	RB Offset	for IC Power Low Ch. / Freq.	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39790	39750	40185	40620	41055	41490	23	0
Frequency (MHz)				2510	2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.11	22.04	22.07	22.25	22.17	22.16		
20	QPSK	1	49	22.17	22.13	22.09	22.21	22.15	22.08	22.8	0
20	QPSK	1	99	22.19	22.13	22.11	22.19	22.23	22.18		
20	QPSK	50	0	21.80	21.81	21.76	21.83	21.74	21.71		
20	QPSK	50	24	21.55	21.60	21.65	21.57	21.50	21.65		
20	QPSK	50	50	21.68	21.73	21.66	21.74	21.79	21.82	22.8	0
20	QPSK	100	0	21.70	21.71	21.65	21.73	21.60	21.63		
20	16QAM	1	0	21.56	21.57	21.56	21.60	21.60	21.64		
20	16QAM	1	49	21.65	21.68	21.67	21.63	21.65	21.61	22	0.8
20	16QAM	1	99	21.56	21.43	21.49	21.48	21.42	21.42		
20	16QAM	50	0	20.76	20.70	20.77	20.76	20.70	20.72		
20	16QAM	50	24	20.68	20.73	20.72	20.69	20.76	20.67		

20	16QAM	50	50	20.66	20.61	20.59	20.60	20.62	20.65		
20	16QAM	100	0	20.71	20.77	20.80	20.74	20.77	20.78		
20	64QAM	1	0	20.22	20.29	20.29	20.27	20.23	20.27	22	0.8
20	64QAM	1	49	20.31	20.27	20.27	20.32	20.37	20.38		
20	64QAM	1	99	20.43	20.50	20.38	20.43	20.42	20.36	21	1.8
20	64QAM	50	0	19.76	19.71	19.69	19.68	19.76	19.69		
20	64QAM	50	24	19.51	19.55	19.56	19.57	19.63	19.60		
20	64QAM	50	50	19.60	19.70	19.71	19.65	19.60	19.58		
20	64QAM	100	0	19.66	19.75	19.62	19.68	19.68	19.74	19	3.8
20	256QAM	1	0	17.74	17.81	17.81	17.78	17.86	17.79		
20	256QAM	1	49	17.71	17.75	17.68	17.74	17.81	17.79		
20	256QAM	1	99	17.57	17.60	17.54	17.58	17.61	17.57	19	3.8
20	256QAM	50	0	17.72	17.61	17.66	17.67	17.64	17.62		
20	256QAM	50	24	17.78	17.86	17.87	17.81	17.86	17.80		
20	256QAM	50	50	17.60	17.60	17.73	17.66	17.73	17.64		
20	256QAM	100	0	17.87	17.83	17.93	17.89	17.83	17.85	Tune-up limit (dBm)	MPR (dB)
Channel				39765	39725	40173	40620	41068	41515		
Frequency (MHz)				2507.5	2503.5	2548.3	2593	2637.8	2682.5	23	0
15	QPSK	1	0	22.01	21.96	21.98	22.20	22.04	22.11		
15	QPSK	1	37	22.09	22.03	22.04	22.14	22.10	22.06	22.8	0
15	QPSK	1	74	22.11	22.07	22.03	22.16	22.17	22.07		
15	QPSK	36	0	21.49	21.60	21.49	21.41	21.62	21.44		
15	QPSK	36	20	21.44	21.57	21.53	21.40	21.46	21.54		
15	QPSK	36	39	21.60	21.61	21.48	21.64	21.71	21.67	22.8	0
15	QPSK	75	0	21.61	21.69	21.63	21.59	21.48	21.55		
15	16QAM	1	0	21.49	21.43	21.47	21.53	21.46	21.54		
15	16QAM	1	37	21.54	21.62	21.56	21.56	21.58	21.54	22.8	0
15	16QAM	1	74	21.38	21.39	21.44	21.45	21.28	21.37		
15	16QAM	36	0	20.69	20.63	20.69	20.61	20.63	20.66		
15	16QAM	36	20	20.54	20.62	20.70	20.55	20.60	20.56	22	0.8
15	16QAM	36	39	20.59	20.52	20.54	20.55	20.53	20.61		
15	16QAM	75	0	20.57	20.61	20.65	20.68	20.71	20.68		
15	64QAM	1	0	20.06	20.12	20.26	20.23	20.18	20.24	22	0.8
15	64QAM	1	37	20.23	20.10	20.10	20.23	20.21	20.35		
15	64QAM	1	74	20.32	20.39	20.34	20.29	20.25	20.33		
15	64QAM	36	0	19.67	19.59	19.58	19.63	19.68	19.59	21	1.8
15	64QAM	36	20	19.35	19.46	19.53	19.47	19.50	19.55		
15	64QAM	36	39	19.47	19.64	19.55	19.47	19.54	19.42		
15	64QAM	75	0	19.62	19.63	19.53	19.60	19.57	19.67	19	3.8
15	256QAM	1	0	17.68	17.66	17.74	17.74	17.82	17.68		
15	256QAM	1	37	17.61	17.67	17.62	17.70	17.66	17.76		
15	256QAM	1	74	17.43	17.49	17.50	17.49	17.57	17.54	19	3.8
15	256QAM	36	0	17.58	17.48	17.64	17.61	17.57	17.49		
15	256QAM	36	20	17.71	17.81	17.73	17.70	17.83	17.75		
15	256QAM	36	39	17.55	17.45	17.66	17.63	17.57	17.56		
15	256QAM	75	0	17.76	17.74	17.84	17.85	17.74	17.74	Tune-up limit (dBm)	MPR (dB)
Channel				39740	39700	40160	40620	41080	41540		
Frequency (MHz)				2505	2501	2547	2593	2639	2685	23	0
10	QPSK	1	0	22.07	21.99	21.94	22.16	22.10	22.07		



10	QPSK	1	25	22.11	22.05	22.07	22.16	22.05	22.03		
10	QPSK	1	49	22.15	22.01	22.06	22.09	22.16	22.09		
10	QPSK	25	0	21.49	21.47	21.53	21.55	21.58	21.42	22.8	0
10	QPSK	25	12	21.51	21.44	21.58	21.48	21.39	21.49		
10	QPSK	25	25	21.53	21.69	21.58	21.62	21.70	21.68		
10	QPSK	50	0	21.58	21.55	21.49	21.52	21.53	21.55		
10	16QAM	1	0	21.41	21.54	21.52	21.52	21.45	21.49	22.8	0
10	16QAM	1	25	21.56	21.51	21.54	21.54	21.62	21.53		
10	16QAM	1	49	21.51	21.30	21.40	21.41	21.25	21.36		
10	16QAM	25	0	20.73	20.62	20.66	20.66	20.53	20.60	22	0.8
10	16QAM	25	12	20.56	20.62	20.65	20.65	20.65	20.55		
10	16QAM	25	25	20.53	20.47	20.50	20.57	20.51	20.61		
10	16QAM	50	0	20.63	20.73	20.67	20.64	20.61	20.74		
10	64QAM	1	0	20.09	20.18	20.13	20.19	20.21	20.19	22	0.8
10	64QAM	1	25	20.28	20.17	20.10	20.23	20.31	20.36		
10	64QAM	1	49	20.37	20.37	20.33	20.35	20.27	20.24		
10	64QAM	25	0	19.62	19.58	19.53	19.51	19.63	19.61	21	1.8
10	64QAM	25	12	19.34	19.53	19.52	19.43	19.59	19.52		
10	64QAM	25	25	19.44	19.53	19.61	19.49	19.56	19.46		
10	64QAM	50	0	19.62	19.64	19.49	19.53	19.54	19.68		
10	256QAM	1	0	17.62	17.74	17.69	17.63	17.80	17.72	19	3.8
10	256QAM	1	25	17.54	17.68	17.59	17.70	17.75	17.65		
10	256QAM	1	49	17.51	17.57	17.49	17.44	17.45	17.46		
10	256QAM	25	0	17.63	17.58	17.53	17.58	17.59	17.50	19	3.8
10	256QAM	25	12	17.73	17.81	17.74	17.75	17.81	17.76		
10	256QAM	25	25	17.54	17.53	17.57	17.58	17.70	17.47		
10	256QAM	50	0	17.74	17.78	17.85	17.85	17.67	17.71		
Channel				39715	39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	22.08	21.95	21.95	22.15	22.06	22.11	23	0
5	QPSK	1	12	22.13	22.07	22.03	22.11	22.07	22.01		
5	QPSK	1	24	22.13	22.04	22.00	22.16	22.11	22.15		
5	QPSK	12	0	21.61	21.51	21.39	21.43	21.55	21.34	22.8	0
5	QPSK	12	7	21.49	21.52	21.62	21.51	21.45	21.54		
5	QPSK	12	13	21.56	21.61	21.56	21.62	21.67	21.80		
5	QPSK	25	0	21.53	21.61	21.62	21.60	21.51	21.59		
5	16QAM	1	0	21.38	21.45	21.48	21.57	21.51	21.50	22.8	0
5	16QAM	1	12	21.62	21.53	21.56	21.52	21.59	21.54		
5	16QAM	1	24	21.42	21.25	21.41	21.37	21.30	21.39		
5	16QAM	12	0	20.61	20.64	20.61	20.67	20.56	20.64	22	0.8
5	16QAM	12	7	20.61	20.68	20.66	20.65	20.64	20.57		
5	16QAM	12	13	20.56	20.47	20.47	20.46	20.44	20.50		
5	16QAM	25	0	20.57	20.71	20.75	20.59	20.61	20.68		
5	64QAM	1	0	20.05	20.14	20.16	20.10	20.13	20.13	22	0.8
5	64QAM	1	12	20.19	20.13	20.22	20.19	20.31	20.23		
5	64QAM	1	24	20.32	20.35	20.22	20.31	20.27	20.26		
5	64QAM	12	0	19.64	19.66	19.54	19.58	19.64	19.54	21	1.8
5	64QAM	12	7	19.43	19.47	19.50	19.44	19.59	19.49		
5	64QAM	12	13	19.55	19.61	19.54	19.63	19.55	19.47		

5	64QAM	25	0	19.61	19.61	19.51	19.64	19.60	19.63		
5	256QAM	1	0	17.66	17.69	17.67	17.75	17.76	17.67	19	3.8
5	256QAM	1	12	17.57	17.68	17.58	17.69	17.67	17.66		
5	256QAM	1	24	17.47	17.54	17.43	17.49	17.50	17.53		
5	256QAM	12	0	17.64	17.47	17.53	17.50	17.60	17.53	19	3.8
5	256QAM	12	7	17.75	17.83	17.77	17.66	17.72	17.62		
5	256QAM	12	13	17.46	17.50	17.67	17.52	17.61	17.54		
5	256QAM	25	0	17.77	17.75	17.77	17.82	17.65	17.76		

Band 41 HPUE Ant3 DSI0											
BW [MHz]	Modulation	RB Size	RB Offset	for IC Power Low Ch. / Freq.	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39790	39750	40185	40620	41055	41490		
Frequency (MHz)				2510	2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.84	23.64	23.84	23.88	23.80	23.85	24.4	0
20	QPSK	1	49	23.82	23.80	23.82	23.83	23.85	23.84		
20	QPSK	1	99	23.72	23.75	23.77	23.80	23.86	23.82		
20	QPSK	50	0	23.81	23.56	23.78	23.86	23.77	23.78	24.4	0
20	QPSK	50	24	23.72	23.70	23.69	23.78	23.82	23.77		
20	QPSK	50	50	23.59	23.66	23.68	23.70	23.79	23.81		
20	QPSK	100	0	23.76	23.55	23.70	23.80	23.67	23.79		
20	16QAM	1	0	23.79	23.52	23.72	23.76	23.68	23.76	24.4	0
20	16QAM	1	49	23.78	23.68	23.76	23.79	23.81	23.71		
20	16QAM	1	99	23.59	23.66	23.68	23.74	23.73	23.83		
20	16QAM	50	0	23.72	23.58	23.71	23.77	23.75	23.81	24.4	0
20	16QAM	50	24	23.74	23.51	23.72	23.82	23.68	23.76		
20	16QAM	50	50	23.80	23.73	23.74	23.78	23.71	23.82		
20	16QAM	100	0	23.66	23.68	23.71	23.77	23.79	23.83		
20	64QAM	1	0	23.73	23.61	23.81	23.78	23.72	23.79	24.4	0
20	64QAM	1	49	23.78	23.68	23.75	23.70	23.74	23.78		
20	64QAM	1	99	23.67	23.70	23.64	23.67	23.75	23.77		
20	64QAM	50	0	23.02	23.05	22.97	23.01	23.07	23.01	24	0.4
20	64QAM	50	24	22.89	22.96	22.93	22.94	22.95	22.89		
20	64QAM	50	50	23.06	23.19	23.18	23.13	23.11	23.18		
20	64QAM	100	0	22.99	22.89	23.00	22.93	22.90	22.93		
20	256QAM	1	0	21.10	21.23	21.14	21.15	21.15	21.09	22	2.4
20	256QAM	1	49	21.30	21.20	21.28	21.24	21.31	21.30		
20	256QAM	1	99	21.18	21.16	21.12	21.16	21.20	21.23		
20	256QAM	50	0	20.90	21.02	20.95	20.96	20.94	20.95	22	2.4
20	256QAM	50	24	21.11	21.02	21.01	21.07	21.12	21.03		
20	256QAM	50	50	20.91	20.92	21.00	20.97	20.94	21.02		
20	256QAM	100	0	21.14	21.16	21.19	21.13	21.07	21.08		
Channel				39765	39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	23.76	23.52	23.72	23.84	23.73	23.75		
15	QPSK	1	37	23.75	23.76	23.75	23.69	23.82	23.81	24	0
15	QPSK	1	74	23.65	23.67	23.68	23.73	23.74	23.77		

15	QPSK	36	0	23.72	23.52	23.75	23.79	23.65	23.70	24.4	0
15	QPSK	36	20	23.67	23.58	23.57	23.70	23.78	23.70		
15	QPSK	36	39	23.51	23.59	23.62	23.67	23.73	23.78		
15	QPSK	75	0	23.71	23.50	23.59	23.72	23.63	23.73	24.4	0
15	16QAM	1	0	23.76	23.38	23.58	23.63	23.62	23.72		
15	16QAM	1	37	23.71	23.55	23.65	23.66	23.69	23.69		
15	16QAM	1	74	23.54	23.56	23.61	23.66	23.63	23.73	24.4	0
15	16QAM	36	0	23.65	23.48	23.60	23.66	23.72	23.79		
15	16QAM	36	20	23.69	23.43	23.70	23.71	23.60	23.62		
15	16QAM	36	39	23.73	23.66	23.61	23.70	23.61	23.70	24.4	0
15	16QAM	75	0	23.56	23.62	23.62	23.72	23.72	23.75		
15	64QAM	1	0	23.70	23.59	23.75	23.69	23.70	23.68		
15	64QAM	1	37	23.66	23.58	23.71	23.56	23.61	23.75	24.4	0
15	64QAM	1	74	23.64	23.61	23.61	23.61	23.71	23.67		
15	64QAM	36	0	22.98	22.94	22.81	22.83	22.92	22.92		
15	64QAM	36	20	22.83	22.87	22.77	22.81	22.80	22.72	24	0.4
15	64QAM	36	39	22.98	23.03	23.12	22.99	22.96	23.03		
15	64QAM	75	0	22.90	22.75	22.94	22.88	22.80	22.89		
15	256QAM	1	0	20.98	21.11	21.11	21.03	20.99	21.07	22	2.4
15	256QAM	1	37	21.19	21.09	21.23	21.20	21.20	21.26		
15	256QAM	1	74	21.08	21.12	21.01	21.13	21.09	21.11		
15	256QAM	36	0	20.78	20.91	20.81	20.82	20.79	20.91	22	2.4
15	256QAM	36	20	21.06	20.91	20.86	20.95	21.02	20.94		
15	256QAM	36	39	20.77	20.75	20.95	20.88	20.90	20.97		
15	256QAM	75	0	21.00	21.02	21.03	21.08	20.95	20.98		
Channel				39740	39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2501	2547	2593	2639	2685		
10	QPSK	1	0	23.73	23.55	23.74	23.82	23.66	23.78	24	0
10	QPSK	1	25	23.79	23.68	23.79	23.77	23.75	23.78		
10	QPSK	1	49	23.61	23.70	23.64	23.72	23.84	23.85		
10	QPSK	25	0	23.69	23.46	23.74	23.78	23.64	23.72	24.4	0
10	QPSK	25	12	23.66	23.63	23.58	23.70	23.77	23.71		
10	QPSK	25	25	23.47	23.60	23.62	23.62	23.70	23.68		
10	QPSK	50	0	23.70	23.47	23.68	23.77	23.58	23.65	24.4	0
10	16QAM	1	0	23.77	23.45	23.63	23.70	23.62	23.70		
10	16QAM	1	25	23.73	23.58	23.64	23.73	23.77	23.59		
10	16QAM	1	49	23.55	23.60	23.64	23.62	23.65	23.71	24.4	0
10	16QAM	25	0	23.69	23.51	23.59	23.73	23.63	23.70		
10	16QAM	25	12	23.61	23.42	23.60	23.68	23.65	23.66		
10	16QAM	25	25	23.68	23.66	23.60	23.65	23.64	23.72	24.4	0
10	16QAM	50	0	23.58	23.62	23.67	23.68	23.69	23.76		
10	64QAM	1	0	23.67	23.57	23.77	23.66	23.68	23.68		
10	64QAM	1	25	23.74	23.58	23.66	23.67	23.63	23.67	24.4	0
10	64QAM	1	49	23.55	23.66	23.56	23.57	23.64	23.66		
10	64QAM	25	0	22.87	22.93	22.92	22.89	22.90	22.95		
10	64QAM	25	12	22.74	22.87	22.84	22.80	22.82	22.77	24	0.4
10	64QAM	25	25	22.91	23.10	23.12	23.08	22.99	23.07		
10	64QAM	50	0	22.84	22.86	22.92	22.75	22.82	22.90		
10	256QAM	1	0	21.03	21.14	21.12	20.99	21.03	20.97	22	2.4



10	256QAM	1	25	21.23	21.06	21.13	21.10	21.16	21.24		
10	256QAM	1	49	21.14	21.10	20.99	21.00	21.03	21.20		
10	256QAM	25	0	20.80	20.95	20.82	20.78	20.84	20.85		
10	256QAM	25	12	20.96	20.91	20.92	21.02	21.07	20.93	22	2.4
10	256QAM	25	25	20.85	20.85	20.85	20.84	20.86	20.87		
10	256QAM	50	0	21.09	21.13	21.07	21.05	21.03	20.99		
Channel				39715	39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	23.81	23.55	23.75	23.77	23.76	23.75	24	0
5	QPSK	1	12	23.73	23.69	23.74	23.70	23.77	23.81		
5	QPSK	1	24	23.62	23.61	23.68	23.67	23.76	23.83		
5	QPSK	12	0	23.72	23.52	23.69	23.82	23.75	23.65	24.4	0
5	QPSK	12	7	23.61	23.62	23.57	23.69	23.73	23.71		
5	QPSK	12	13	23.47	23.59	23.63	23.57	23.72	23.78		
5	QPSK	25	0	23.71	23.48	23.65	23.75	23.54	23.71		
5	16QAM	1	0	23.68	23.45	23.60	23.63	23.66	23.71	24.4	0
5	16QAM	1	12	23.75	23.62	23.66	23.74	23.75	23.57		
5	16QAM	1	24	23.52	23.64	23.61	23.71	23.70	23.76		
5	16QAM	12	0	23.68	23.49	23.66	23.63	23.66	23.74	24.4	0
5	16QAM	12	7	23.62	23.47	23.68	23.71	23.55	23.68		
5	16QAM	12	13	23.70	23.67	23.65	23.72	23.66	23.76		
5	16QAM	25	0	23.55	23.65	23.63	23.63	23.66	23.80		
5	64QAM	1	0	23.71	23.49	23.74	23.72	23.70	23.70	24.4	0
5	64QAM	1	12	23.65	23.55	23.67	23.57	23.66	23.74		
5	64QAM	1	24	23.58	23.65	23.52	23.62	23.67	23.71		
5	64QAM	12	0	23.00	23.00	22.95	22.94	22.95	22.94	24	0.4
5	64QAM	12	7	22.75	22.83	22.79	22.78	22.80	22.84		
5	64QAM	12	13	22.95	23.14	23.01	23.07	23.00	23.02		
5	64QAM	25	0	22.84	22.84	22.97	22.77	22.81	22.78		
5	256QAM	1	0	21.00	21.08	21.11	21.03	21.06	20.97	22	2.4
5	256QAM	1	12	21.24	21.06	21.17	21.12	21.23	21.23		
5	256QAM	1	24	21.04	21.06	21.02	21.13	21.11	21.19		
5	256QAM	12	0	20.85	20.97	20.83	20.83	20.84	20.85	22	2.4
5	256QAM	12	7	21.08	20.84	20.98	20.98	20.97	20.92		
5	256QAM	12	13	20.74	20.80	20.95	20.93	20.92	20.92		
5	256QAM	25	0	20.97	21.04	21.12	21.09	20.90	20.91		

Band 48 Ant4 DSI0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	21.79	21.90	21.86	21.85	23	0
20	QPSK	1	49	21.81	21.82	21.84	21.77		
20	QPSK	1	99	21.79	21.81	21.76	21.74		
20	QPSK	50	0	20.97	21.13	20.86	20.99	22	1
20	QPSK	50	24	21.00	20.96	21.00	20.97		
20	QPSK	50	50	20.95	20.96	21.02	20.92		
20	QPSK	100	0	20.90	21.07	21.02	20.93	22	1
20	16QAM	1	0	20.80	20.73	20.69	20.78		
20	16QAM	1	49	20.77	20.75	20.70	20.68		
20	16QAM	1	99	20.70	20.73	20.70	20.65	21	2
20	16QAM	50	0	19.82	19.80	19.83	19.85		
20	16QAM	50	24	19.92	19.97	19.93	19.97		
20	16QAM	50	50	20.01	19.99	19.96	19.94	21	2
20	16QAM	100	0	19.88	19.94	19.97	19.96		
20	64QAM	1	0	19.74	19.69	19.71	19.77		
20	64QAM	1	49	19.65	19.66	19.67	19.64	20	3
20	64QAM	1	99	19.71	19.64	19.66	19.64		
20	64QAM	50	0	19.02	18.95	19.02	18.99		
20	64QAM	50	24	18.78	18.74	18.72	18.80	18	5
20	64QAM	50	50	19.02	18.95	18.96	18.90		
20	64QAM	100	0	18.88	18.82	18.86	18.83		
20	256QAM	1	0	16.72	16.79	16.75	16.76	18	5
20	256QAM	1	49	16.79	16.72	16.69	16.65		
20	256QAM	1	99	16.70	16.72	16.70	16.71		
20	256QAM	50	0	17.02	17.02	17.09	17.06	18	5
20	256QAM	50	24	16.97	17.02	17.05	16.94		
20	256QAM	50	50	16.79	16.80	16.81	16.73		
20	256QAM	100	0	16.97	16.92	16.98	16.91	23	0
15	QPSK	1	0	21.62	21.79	21.71	21.69		
15	QPSK	1	37	21.77	21.73	21.66	21.64		
15	QPSK	1	74	21.72	21.74	21.71	21.70	22	1
15	QPSK	36	0	20.80	20.75	20.80	20.84		
15	QPSK	36	20	20.91	20.88	20.84	20.94		
15	QPSK	36	39	20.87	20.90	20.99	20.82	22	1
15	QPSK	75	0	20.81	20.89	20.89	20.81		
15	16QAM	1	0	20.72	20.66	20.60	20.64		
15	16QAM	1	37	20.63	20.66	20.58	20.60	22	1
15	16QAM	1	74	20.61	20.60	20.64	20.65		



15	16QAM	36	0	19.65	19.73	19.67	19.81	21	2
15	16QAM	36	20	19.78	19.95	19.83	19.82		
15	16QAM	36	39	19.91	19.92	19.80	19.90		
15	16QAM	75	0	19.76	19.91	19.81	19.85		
15	64QAM	1	0	19.59	19.52	19.58	19.61	21	2
15	64QAM	1	37	19.67	19.66	19.54	19.56		
15	64QAM	1	74	19.56	19.52	19.54	19.51		
15	64QAM	36	0	18.98	18.81	18.98	18.90		
15	64QAM	36	20	18.69	18.58	18.57	18.63	20	3
15	64QAM	36	39	18.84	18.91	18.89	18.86		
15	64QAM	75	0	18.76	18.74	18.78	18.71		
15	256QAM	1	0	16.56	16.61	16.66	16.71		
15	256QAM	1	37	16.70	16.63	16.53	16.55	18	5
15	256QAM	1	74	16.67	16.69	16.58	16.59		
15	256QAM	36	0	16.86	16.94	16.98	16.91		
15	256QAM	36	20	16.82	16.84	16.99	16.86		
15	256QAM	36	39	16.63	16.75	16.79	16.57	18	5
15	256QAM	75	0	16.81	16.85	16.84	16.78		
Channel				55290	55815	56165	56690	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	21.66	21.83	21.82	21.67	23	0
10	QPSK	1	25	21.71	21.71	21.71	21.64		
10	QPSK	1	49	21.74	21.77	21.69	21.65		
10	QPSK	25	0	20.81	20.84	20.84	20.97		
10	QPSK	25	12	20.90	20.83	20.87	20.90	22	1
10	QPSK	25	25	20.79	20.85	20.96	20.76		
10	QPSK	50	0	20.74	20.94	20.95	20.80		
10	16QAM	1	0	20.71	20.56	20.53	20.66		
10	16QAM	1	25	20.70	20.58	20.63	20.62	22	1
10	16QAM	1	49	20.65	20.64	20.63	20.61		
10	16QAM	25	0	19.73	19.73	19.73	19.81		
10	16QAM	25	12	19.89	19.81	19.82	19.89		
10	16QAM	25	25	19.89	19.94	19.80	19.91	21	2
10	16QAM	50	0	19.72	19.91	19.89	19.84		
10	64QAM	1	0	19.67	19.53	19.67	19.60		
10	64QAM	1	25	19.59	19.56	19.51	19.62		
10	64QAM	1	49	19.67	19.53	19.55	19.65	21	2
10	64QAM	25	0	18.99	18.86	18.88	18.93		
10	64QAM	25	12	18.69	18.66	18.63	18.73		
10	64QAM	25	25	18.88	18.80	18.89	18.83		
10	64QAM	50	0	18.84	18.68	18.71	18.75	20	3
10	256QAM	1	0	16.66	16.61	16.64	16.66		
10	256QAM	1	25	16.77	16.67	16.58	16.50		
10	256QAM	1	49	16.52	16.57	16.58	16.54		
10	256QAM	25	0	16.91	16.88	17.02	17.03	18	5
10	256QAM	25	12	16.95	16.92	16.90	16.89		
10	256QAM	25	25	16.70	16.76	16.66	16.62		
10	256QAM	50	0	16.91	16.83	16.95	16.87		
Channel				55265	55810	56170	56715	Tune-up limit	MPR



Frequency (MHz)				3552.5	3607	3643	3697.5	(dBm)	(dB)
5	QPSK	1	0	21.68	21.77	21.79	21.78	23	0
5	QPSK	1	12	21.73	21.66	21.68	21.72		
5	QPSK	1	24	21.65	21.72	21.74	21.57		
5	QPSK	12	0	20.86	20.82	20.78	20.94	22	1
5	QPSK	12	7	20.89	20.88	20.98	20.90		
5	QPSK	12	13	20.77	20.81	20.84	20.81		
5	QPSK	25	0	20.84	20.81	20.89	20.90		
5	16QAM	1	0	20.72	20.70	20.54	20.75	22	1
5	16QAM	1	12	20.60	20.63	20.56	20.52		
5	16QAM	1	24	20.53	20.64	20.67	20.55		
5	16QAM	12	0	19.69	19.64	19.67	19.72	21	2
5	16QAM	12	7	19.86	19.85	19.83	19.82		
5	16QAM	12	13	19.97	19.83	19.91	19.79		
5	16QAM	25	0	19.76	19.79	19.91	19.93		
5	64QAM	1	0	19.59	19.64	19.65	19.64	21	2
5	64QAM	1	12	19.50	19.53	19.59	19.52		
5	64QAM	1	24	19.56	19.51	19.56	19.76		
5	64QAM	12	0	18.93	18.87	18.90	18.85	20	3
5	64QAM	12	7	18.65	18.71	18.63	18.75		
5	64QAM	12	13	18.89	18.81	18.83	18.80		
5	64QAM	25	0	18.77	18.75	18.71	18.75		
5	256QAM	1	0	16.67	16.65	16.73	16.58	18	5
5	256QAM	1	12	16.75	16.61	16.58	16.57		
5	256QAM	1	24	16.63	16.56	16.65	16.55		
5	256QAM	12	0	16.96	16.99	17.00	17.02	18	5
5	256QAM	12	7	16.94	16.89	16.97	16.89		
5	256QAM	12	13	16.69	16.66	16.78	16.63		
5	256QAM	25	0	16.83	16.76	16.81	16.76		

Reduced Power Mode for DSI 1

Band 38 Ant3 DSI1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	20.22	20.35	20.26	21.3	0
20	QPSK	1	49	20.15	20.30	20.23		
20	QPSK	1	99	20.30	20.25	20.28		
20	QPSK	50	0	19.89	20.25	20.11	21.3	0
20	QPSK	50	24	20.00	20.02	20.05		
20	QPSK	50	50	20.02	20.05	20.05		
20	QPSK	100	0	20.24	20.31	20.10		
20	16QAM	1	0	20.10	20.32	20.07	21.3	0
20	16QAM	1	49	20.01	20.08	20.29		
20	16QAM	1	99	20.09	20.10	20.16		
20	16QAM	50	0	20.22	20.23	20.28	21.3	0
20	16QAM	50	24	20.20	20.04	20.07		
20	16QAM	50	50	20.00	20.09	19.95		
20	16QAM	100	0	19.92	20.12	20.17		
20	64QAM	1	0	20.06	20.18	19.99	21.3	0
20	64QAM	1	49	19.84	20.07	19.93		
20	64QAM	1	99	19.93	19.75	19.95		
20	64QAM	50	0	19.62	19.61	19.63	21	0.3
20	64QAM	50	24	19.45	19.52	19.51		
20	64QAM	50	50	19.58	19.61	19.46		
20	64QAM	100	0	19.58	19.55	19.60		
20	256QAM	1	0	17.70	17.69	17.73	19	2.3
20	256QAM	1	49	17.56	17.68	17.71		
20	256QAM	1	99	17.48	17.46	17.50		
20	256QAM	50	0	17.54	17.58	17.52	19	2.3
20	256QAM	50	24	17.75	17.67	17.77		
20	256QAM	50	50	17.60	17.59	17.65		
20	256QAM	100	0	17.78	17.80	17.76		
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	20.07	20.19	20.19	21.3	0
15	QPSK	1	37	20.02	20.21	20.14		
15	QPSK	1	74	20.21	20.16	20.17		
15	QPSK	36	0	19.79	20.19	20.02	21.3	0
15	QPSK	36	20	19.86	19.92	19.97		
15	QPSK	36	39	19.97	19.93	19.92		
15	QPSK	75	0	20.09	20.16	20.01		
15	16QAM	1	0	19.97	20.26	19.95	21.3	0
15	16QAM	1	37	19.93	19.97	20.25		
15	16QAM	1	74	19.94	20.05	20.11		
15	16QAM	36	0	20.07	20.10	20.20	21.3	0

15	16QAM	36	20	20.12	19.97	19.96		
15	16QAM	36	39	19.94	20.01	19.89		
15	16QAM	75	0	19.77	20.03	20.09		
15	64QAM	1	0	19.96	20.14	19.84	21.3	0
15	64QAM	1	37	19.78	19.94	19.88		
15	64QAM	1	74	19.79	19.69	19.88		
15	64QAM	36	0	19.54	19.56	19.55	21	0.3
15	64QAM	36	20	19.38	19.40	19.46		
15	64QAM	36	39	19.48	19.55	19.40		
15	64QAM	75	0	19.53	19.43	19.50	19	2.3
15	256QAM	1	0	17.54	17.56	17.66		
15	256QAM	1	37	17.49	17.52	17.65		
15	256QAM	1	74	17.36	17.38	17.40	19	2.3
15	256QAM	36	0	17.46	17.46	17.40		
15	256QAM	36	20	17.68	17.56	17.73		
15	256QAM	36	39	17.56	17.52	17.59		
15	256QAM	75	0	17.69	17.73	17.62		
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	20.18	20.19	20.12	21.3	0
10	QPSK	1	25	20.06	20.22	20.10		
10	QPSK	1	49	20.15	20.13	20.14		
10	QPSK	25	0	19.73	20.11	20.02	21.3	0
10	QPSK	25	12	19.88	19.88	19.95		
10	QPSK	25	25	19.87	19.98	19.99		
10	QPSK	50	0	20.14	20.18	20.03		
10	16QAM	1	0	20.04	20.34	19.95	21.3	0
10	16QAM	1	25	19.85	20.02	20.20		
10	16QAM	1	49	19.97	19.94	20.11		
10	16QAM	25	0	20.10	20.12	20.21	21.3	0
10	16QAM	25	12	20.09	19.94	19.99		
10	16QAM	25	25	19.88	19.95	19.88		
10	16QAM	50	0	19.87	20.04	20.01		
10	64QAM	1	0	19.91	20.10	19.87	21.3	0
10	64QAM	1	25	19.75	19.99	19.78		
10	64QAM	1	49	19.81	19.66	19.81		
10	64QAM	25	0	19.50	19.55	19.50	21	0.3
10	64QAM	25	12	19.34	19.41	19.47		
10	64QAM	25	25	19.48	19.54	19.37		
10	64QAM	50	0	19.51	19.45	19.46		
10	256QAM	1	0	17.54	17.57	17.66	19	2.3
10	256QAM	1	25	17.43	17.64	17.66		
10	256QAM	1	49	17.40	17.32	17.36		
10	256QAM	25	0	17.41	17.53	17.40	19	2.3
10	256QAM	25	12	17.67	17.52	17.68		
10	256QAM	25	25	17.55	17.53	17.59		
10	256QAM	50	0	17.65	17.74	17.67		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		



5	QPSK	1	0	20.09	20.23	20.10	21.3	0
5	QPSK	1	12	20.00	20.29	20.12		
5	QPSK	1	24	20.17	20.18	20.23		
5	QPSK	12	0	19.82	20.21	20.01	21.3	0
5	QPSK	12	7	19.94	19.97	20.00		
5	QPSK	12	13	19.92	20.01	19.90		
5	QPSK	25	0	20.19	20.25	19.97		
5	16QAM	1	0	19.99	20.30	19.92	21.3	0
5	16QAM	1	12	19.89	19.98	20.22		
5	16QAM	1	24	19.97	20.04	20.01		
5	16QAM	12	0	20.15	20.12	20.13	21.3	0
5	16QAM	12	7	20.06	19.98	19.91		
5	16QAM	12	13	19.90	20.05	19.81		
5	16QAM	25	0	19.85	20.05	20.05		
5	64QAM	1	0	19.93	20.08	19.94	21.3	0
5	64QAM	1	12	19.78	20.00	19.84		
5	64QAM	1	24	19.86	19.60	19.88		
5	64QAM	12	0	19.48	19.52	19.47	21	0.3
5	64QAM	12	7	19.40	19.42	19.40		
5	64QAM	12	13	19.52	19.49	19.39		
5	64QAM	25	0	19.45	19.39	19.51		
5	256QAM	1	0	17.57	17.61	17.62	19	2.3
5	256QAM	1	12	17.41	17.62	17.64		
5	256QAM	1	24	17.43	17.34	17.46		
5	256QAM	12	0	17.42	17.49	17.40	19	2.3
5	256QAM	12	7	17.60	17.54	17.71		
5	256QAM	12	13	17.56	17.51	17.59		
5	256QAM	25	0	17.64	17.66	17.66		

Band 41 Ant3 DSI1											
BW [MHz]	Modulation	RB Size	RB Offset	for IC Power Low Ch. / Freq.	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39790	39750	40185	40620	41055	41490		
Frequency (MHz)				2510	2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	20.43	20.20	20.34	20.48	20.34	20.35		
20	QPSK	1	49	20.30	20.27	20.24	20.41	20.35	20.28	21.3	0
20	QPSK	1	99	20.47	20.36	20.41	20.37	20.41	20.30	21.3	0
20	QPSK	50	0	20.21	20.06	20.03	20.37	20.15	20.06		
20	QPSK	50	24	20.16	20.09	20.11	20.18	20.15	20.34		
20	QPSK	50	50	20.23	20.13	20.18	20.12	20.19	20.35		
20	QPSK	100	0	20.19	20.22	20.29	20.35	20.16	20.29	21.3	0
20	16QAM	1	0	20.29	20.24	20.17	20.46	20.21	20.27		
20	16QAM	1	49	20.12	20.30	20.08	20.22	20.38	20.29		
20	16QAM	1	99	20.29	20.09	20.21	20.25	20.29	20.44	21.3	0
20	16QAM	50	0	20.20	20.13	20.30	20.28	20.40	20.15		
20	16QAM	50	24	20.17	20.22	20.30	20.15	20.20	20.22		
20	16QAM	50	50	20.25	20.19	20.14	20.20	20.10	20.19		
20	16QAM	100	0	20.12	20.05	20.07	20.23	20.23	20.31	21.3	0
20	64QAM	1	0	20.19	20.16	20.13	20.28	20.14	20.10		
20	64QAM	1	49	20.10	20.04	19.92	20.19	20.08	20.12		
20	64QAM	1	99	19.95	19.89	19.98	19.87	20.06	20.07	21	0.3
20	64QAM	50	0	19.76	19.71	19.69	19.68	19.76	19.69		
20	64QAM	50	24	19.51	19.55	19.56	19.57	19.63	19.60		
20	64QAM	50	50	19.60	19.70	19.71	19.65	19.60	19.58		
20	64QAM	100	0	19.66	19.75	19.62	19.68	19.68	19.74	19	2.3
20	256QAM	1	0	17.74	17.81	17.81	17.78	17.86	17.79		
20	256QAM	1	49	17.71	17.75	17.68	17.74	17.81	17.79		
20	256QAM	1	99	17.57	17.60	17.54	17.58	17.61	17.57	19	2.3
20	256QAM	50	0	17.72	17.61	17.66	17.67	17.64	17.62		
20	256QAM	50	24	17.78	17.86	17.87	17.81	17.86	17.80		
20	256QAM	50	50	17.60	17.60	17.73	17.66	17.73	17.64		
20	256QAM	100	0	17.87	17.83	17.93	17.89	17.83	17.85	Tune-up limit (dBm)	MPR (dB)
Channel				39765	39725	40173	40620	41068	41515		
Frequency (MHz)				2507.5	2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	20.27	20.07	20.22	20.32	20.25	20.18	21.30	0
15	QPSK	1	37	20.21	20.17	20.13	20.32	20.30	20.13		
15	QPSK	1	74	20.43	20.25	20.26	20.25	20.32	20.15		
15	QPSK	36	0	20.13	20.00	19.95	20.28	20.08	20.02	21.3	0
15	QPSK	36	20	20.08	20.03	20.04	20.11	20.04	20.28		
15	QPSK	36	39	20.08	20.07	20.04	20.02	20.15	20.20		
15	QPSK	75	0	20.09	20.06	20.22	20.26	20.02	20.22	21.3	0
15	16QAM	1	0	20.19	20.10	20.03	20.36	20.09	20.15		
15	16QAM	1	37	20.01	20.14	20.02	20.11	20.31	20.20		
15	16QAM	1	74	20.22	19.98	20.15	20.10	20.17	20.35	21.3	0
15	16QAM	36	0	20.06	20.08	20.25	20.16	20.26	20.10		

15	16QAM	36	20	20.06	20.11	20.17	20.03	20.11	20.12		
15	16QAM	36	39	20.10	20.11	20.02	20.12	20.03	20.11		
15	16QAM	75	0	20.04	19.96	19.97	20.12	20.10	20.15		
15	64QAM	1	0	20.05	20.10	20.00	20.15	20.06	20.05	21.3	0
15	64QAM	1	37	20.00	19.88	19.84	20.08	19.94	20.04		
15	64QAM	1	74	19.80	19.84	19.90	19.75	19.92	20.01		
15	64QAM	36	0	19.68	19.58	19.56	19.60	19.62	19.59	21	0.3
15	64QAM	36	20	19.38	19.42	19.43	19.46	19.52	19.48		
15	64QAM	36	39	19.51	19.60	19.57	19.60	19.48	19.51		
15	64QAM	75	0	19.55	19.70	19.56	19.61	19.57	19.60	19	2.3
15	256QAM	1	0	17.63	17.75	17.74	17.73	17.81	17.65		
15	256QAM	1	37	17.64	17.68	17.60	17.63	17.71	17.70		
15	256QAM	1	74	17.43	17.52	17.49	17.51	17.48	17.50	19	2.3
15	256QAM	36	0	17.57	17.45	17.56	17.56	17.50	17.48		
15	256QAM	36	20	17.73	17.82	17.75	17.69	17.74	17.74		
15	256QAM	36	39	17.48	17.54	17.68	17.57	17.65	17.58	19	2.3
15	256QAM	75	0	17.82	17.74	17.80	17.83	17.76	17.69		
Channel				39740	39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2501	2547	2593	2639	2685		
10	QPSK	1	0	20.36	20.06	20.24	20.30	20.20	20.23	21.30	0
10	QPSK	1	25	20.24	20.18	20.09	20.36	20.29	20.15		
10	QPSK	1	49	20.33	20.28	20.34	20.21	20.37	20.19		
10	QPSK	25	0	20.07	19.94	19.92	20.24	20.02	20.00	21.3	0
10	QPSK	25	12	20.04	19.96	20.02	20.02	20.04	20.29		
10	QPSK	25	25	20.08	20.05	20.13	19.97	20.07	20.21		
10	QPSK	50	0	20.03	20.12	20.24	20.24	20.10	20.21	21.3	0
10	16QAM	1	0	20.14	20.16	20.05	20.38	20.07	20.11		
10	16QAM	1	25	20.05	20.20	20.03	20.16	20.31	20.15		
10	16QAM	1	49	20.23	20.01	20.16	20.11	20.15	20.40	21.3	0
10	16QAM	25	0	20.08	19.99	20.15	20.19	20.32	20.09		
10	16QAM	25	12	20.04	20.12	20.18	20.04	20.07	20.14		
10	16QAM	25	25	20.17	20.14	19.99	20.09	19.98	20.12	21.3	0
10	16QAM	50	0	20.04	19.99	19.95	20.16	20.14	20.22		
10	64QAM	1	0	20.06	20.10	19.97	20.23	20.01	20.03		
10	64QAM	1	25	20.00	19.94	19.86	20.12	19.98	20.08	21	0.3
10	64QAM	1	49	19.86	19.74	19.85	19.82	19.92	20.00		
10	64QAM	25	0	19.71	19.61	19.58	19.60	19.68	19.65		
10	64QAM	25	12	19.47	19.40	19.43	19.52	19.49	19.52	19	2.3
10	64QAM	25	25	19.52	19.61	19.57	19.58	19.53	19.43		
10	64QAM	50	0	19.57	19.61	19.53	19.59	19.63	19.61		
10	256QAM	1	0	17.63	17.69	17.67	17.66	17.72	17.69	19	2.3
10	256QAM	1	25	17.65	17.63	17.63	17.64	17.69	17.63		
10	256QAM	1	49	17.42	17.53	17.48	17.43	17.57	17.47		
10	256QAM	25	0	17.65	17.50	17.51	17.57	17.50	17.55	19	2.3
10	256QAM	25	12	17.69	17.76	17.82	17.68	17.71	17.73		
10	256QAM	25	25	17.48	17.50	17.65	17.53	17.63	17.55		
10	256QAM	50	0	17.73	17.71	17.85	17.83	17.78	17.73	Tune-up limit (dBm)	MPR (dB)
Channel				39715	39675	40148	40620	41093	41565		
Frequency (MHz)				2502.5	2498.5	2545.8	2593	2640.30	2687.5		

5	QPSK	1	0	20.39	20.07	20.28	20.34	20.28	20.20	21.30	0
5	QPSK	1	12	20.22	20.20	20.11	20.35	20.30	20.18		
5	QPSK	1	24	20.39	20.24	20.34	20.25	20.28	20.24		
5	QPSK	12	0	20.08	19.99	19.97	20.33	20.09	19.96	21.3	0
5	QPSK	12	7	20.05	19.94	20.03	20.08	20.02	20.23		
5	QPSK	12	13	20.07	20.03	20.07	19.96	20.06	20.29		
5	QPSK	25	0	20.12	20.09	20.15	20.28	20.02	20.19	21.3	0
5	16QAM	1	0	20.24	20.13	20.11	20.38	20.08	20.19		
5	16QAM	1	12	20.04	20.18	19.93	20.06	20.27	20.24		
5	16QAM	1	24	20.13	20.02	20.13	20.13	20.14	20.34	21.3	0
5	16QAM	12	0	20.14	20.05	20.15	20.23	20.30	20.00		
5	16QAM	12	7	20.12	20.14	20.16	20.08	20.08	20.15		
5	16QAM	12	13	20.11	20.04	20.02	20.08	19.99	20.10	21.3	0
5	16QAM	25	0	20.03	19.97	20.01	20.11	20.16	20.24		
5	64QAM	1	0	20.04	20.06	19.98	20.14	20.01	19.96	21.3	0
5	64QAM	1	12	19.96	19.92	19.82	20.04	20.03	20.07		
5	64QAM	1	24	19.84	19.81	19.87	19.71	19.96	19.99		
5	64QAM	12	0	19.66	19.66	19.57	19.59	19.63	19.65	21	0.3
5	64QAM	12	7	19.36	19.51	19.46	19.46	19.54	19.56		
5	64QAM	12	13	19.47	19.60	19.63	19.59	19.48	19.51		
5	64QAM	25	0	19.50	19.71	19.49	19.63	19.58	19.67	19	2.3
5	256QAM	1	0	17.66	17.75	17.66	17.69	17.76	17.71		
5	256QAM	1	12	17.58	17.60	17.57	17.59	17.65	17.71		
5	256QAM	1	24	17.44	17.47	17.43	17.48	17.54	17.48	19	2.3
5	256QAM	12	0	17.63	17.47	17.50	17.55	17.55	17.57		
5	256QAM	12	7	17.65	17.74	17.78	17.75	17.71	17.75		
5	256QAM	12	13	17.55	17.54	17.67	17.56	17.68	17.53	19	2.3
5	256QAM	25	0	17.76	17.74	17.80	17.75	17.75	17.76		

Band 41 HPUE Ant3 DSI1											
BW [MHz]	Modulation	RB Size	RB Offset	for IC Power Low Ch. / Freq.	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39790	39750	40185	40620	41055	41490	22.9	0
Frequency (MHz)				2510	2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.03	21.87	21.97	22.11	22.07	21.99		
20	QPSK	1	49	21.96	21.95	21.90	21.96	22.03	21.99	22.9	0
20	QPSK	1	99	22.06	21.91	21.98	21.96	22.06	21.86		
20	QPSK	50	0	21.94	21.76	21.75	22.01	21.75	21.69		
20	QPSK	50	24	21.79	21.83	21.80	21.80	21.81	21.90	22.9	0
20	QPSK	50	50	21.89	21.85	21.81	21.79	21.81	21.91		
20	QPSK	100	0	21.81	21.97	21.86	21.98	21.86	21.90		
20	16QAM	1	0	22.02	21.81	21.89	22.03	21.92	21.88	22.9	0
20	16QAM	1	49	21.77	21.91	21.71	21.82	21.94	21.91		
20	16QAM	1	99	22.00	21.80	21.92	21.85	21.95	22.00		
20	16QAM	50	0	21.75	21.78	21.88	21.88	21.99	21.84	22.9	0
20	16QAM	50	24	21.87	21.77	21.89	21.77	21.76	21.92		
20	16QAM	50	50	21.83	21.81	21.74	21.76	21.76	21.81		

20	16QAM	100	0	21.77	21.75	21.75	21.89	21.91	21.98		
20	64QAM	1	0	21.76	21.83	21.82	21.83	21.78	21.72	22.9	0
20	64QAM	1	49	21.71	21.71	21.49	21.74	21.69	21.78		
20	64QAM	1	99	21.65	21.58	21.70	21.59	21.74	21.76		
20	64QAM	50	0	21.92	21.79	21.88	22.00	22.07	21.80	22.9	0
20	64QAM	50	24	21.88	22.00	21.78	21.87	21.95	21.82		
20	64QAM	50	50	21.95	21.72	21.78	21.82	22.04	21.93		
20	64QAM	100	0	21.80	21.69	21.99	21.87	21.70	21.87		
20	256QAM	1	0	21.10	21.23	21.14	21.15	21.15	21.09	22	0.9
20	256QAM	1	49	21.30	21.20	21.28	21.24	21.31	21.30		
20	256QAM	1	99	21.18	21.16	21.12	21.16	21.20	21.23		
20	256QAM	50	0	20.90	21.02	20.95	20.96	20.94	20.95	22	0.9
20	256QAM	50	24	21.11	21.02	21.01	21.07	21.12	21.03		
20	256QAM	50	50	20.91	20.92	21.00	20.97	20.94	21.02		
20	256QAM	100	0	21.14	21.16	21.19	21.13	21.07	21.08		
Channel				39765	39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	21.96	21.85	21.92	22.02	22.06	21.93	22.90	0
15	QPSK	1	37	21.94	21.80	21.89	21.84	22.02	21.95		
15	QPSK	1	74	21.88	21.75	21.93	21.96	21.92	21.81		
15	QPSK	36	0	21.83	21.56	21.61	21.90	21.71	21.53	22.9	0
15	QPSK	36	20	21.68	21.65	21.61	21.76	21.78	21.81		
15	QPSK	36	39	21.81	21.76	21.78	21.71	21.63	21.82		
15	QPSK	75	0	21.65	21.89	21.75	21.95	21.78	21.82		
15	16QAM	1	0	21.82	21.71	21.73	22.01	21.86	21.72	22.9	0
15	16QAM	1	37	21.65	21.85	21.54	21.76	21.89	21.77		
15	16QAM	1	74	21.98	21.64	21.86	21.76	21.83	21.83		
15	16QAM	36	0	21.58	21.73	21.79	21.69	21.99	21.64	22.9	0
15	16QAM	36	20	21.77	21.58	21.85	21.58	21.70	21.87		
15	16QAM	36	39	21.75	21.76	21.62	21.56	21.70	21.71		
15	16QAM	75	0	21.68	21.63	21.68	21.84	21.72	21.87		
15	64QAM	1	0	21.73	21.72	21.67	21.78	21.73	21.62	22.9	0
15	64QAM	1	37	21.57	21.52	21.38	21.61	21.49	21.67		
15	64QAM	1	74	21.48	21.52	21.57	21.47	21.63	21.76		
15	64QAM	36	0	21.82	21.60	21.83	21.93	22.05	21.67	22.9	0
15	64QAM	36	20	21.68	21.96	21.72	21.83	21.83	21.66		
15	64QAM	36	39	21.80	21.60	21.66	21.76	22.04	21.86		
15	64QAM	75	0	21.80	21.67	21.83	21.80	21.70	21.78		
15	256QAM	1	0	20.98	21.03	20.96	21.14	21.01	20.98	22	0.9
15	256QAM	1	37	21.20	21.08	21.21	21.07	21.13	21.15		
15	256QAM	1	74	21.06	21.00	21.09	20.98	21.07	21.14		
15	256QAM	36	0	20.73	20.90	20.92	20.94	20.83	20.93	22	0.9
15	256QAM	36	20	21.03	21.02	20.85	21.07	21.04	21.01		
15	256QAM	36	39	20.90	20.88	20.88	20.92	20.78	21.02		
15	256QAM	75	0	20.97	21.08	21.08	21.05	20.87	20.96		
Channel				39740	39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2501	2547	2593	2639	2685		
10	QPSK	1	0	21.91	21.71	21.97	22.00	21.99	21.87	22.90	0
10	QPSK	1	25	21.80	21.78	21.74	21.93	21.87	21.85		



10	QPSK	1	49	21.94	21.75	21.89	21.90	21.89	21.82		
10	QPSK	25	0	21.83	21.71	21.67	22.00	21.74	21.50	22.9	0
10	QPSK	25	12	21.67	21.78	21.77	21.80	21.70	21.77		
10	QPSK	25	25	21.76	21.84	21.77	21.66	21.72	21.88		
10	QPSK	50	0	21.62	21.79	21.82	21.89	21.85	21.79		
10	16QAM	1	0	21.93	21.65	21.87	22.02	21.91	21.77	22.9	0
10	16QAM	1	25	21.65	21.81	21.63	21.70	21.76	21.82		
10	16QAM	1	49	21.90	21.74	21.80	21.78	21.90	21.95		
10	16QAM	25	0	21.59	21.70	21.86	21.69	21.91	21.83	22.9	0
10	16QAM	25	12	21.86	21.69	21.74	21.70	21.66	21.92		
10	16QAM	25	25	21.81	21.67	21.56	21.73	21.64	21.78		
10	16QAM	50	0	21.77	21.65	21.63	21.70	21.83	21.94		
10	64QAM	1	0	21.72	21.66	21.75	21.79	21.60	21.67	22.9	0
10	64QAM	1	25	21.59	21.64	21.37	21.60	21.64	21.76		
10	64QAM	1	49	21.60	21.53	21.69	21.49	21.57	21.58		
10	64QAM	25	0	21.86	21.77	21.71	21.82	21.96	21.62	22.9	0
10	64QAM	25	12	21.83	21.91	21.66	21.70	21.93	21.72		
10	64QAM	25	25	21.84	21.54	21.75	21.68	21.93	21.80		
10	64QAM	50	0	21.65	21.69	21.94	21.67	21.53	21.81		
10	256QAM	1	0	20.94	21.11	21.12	20.97	20.99	21.02	22	0.9
10	256QAM	1	25	21.18	21.03	21.20	21.12	21.22	21.10		
10	256QAM	1	49	21.12	20.97	21.00	21.12	21.09	21.13		
10	256QAM	25	0	20.85	20.85	20.86	20.94	20.85	20.77	22	0.9
10	256QAM	25	12	20.95	20.93	20.85	20.92	20.97	20.84		
10	256QAM	25	25	20.78	20.75	20.80	20.93	20.77	20.98		
10	256QAM	50	0	21.04	20.97	21.06	21.03	20.89	21.03		
Channel				39715	39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	21.91	21.68	21.86	21.96	21.97	21.95	22.90	0
5	QPSK	1	12	21.83	21.76	21.83	21.88	22.02	21.96		
5	QPSK	1	24	21.98	21.78	21.88	21.78	21.93	21.66		
5	QPSK	12	0	21.74	21.58	21.62	21.82	21.75	21.65	22.9	0
5	QPSK	12	7	21.60	21.74	21.61	21.76	21.75	21.75		
5	QPSK	12	13	21.89	21.71	21.76	21.66	21.63	21.81		
5	QPSK	25	0	21.75	21.88	21.85	21.80	21.69	21.84		
5	16QAM	1	0	21.94	21.80	21.73	21.96	21.82	21.84	22.9	0
5	16QAM	1	12	21.60	21.83	21.60	21.81	21.92	21.87		
5	16QAM	1	24	21.83	21.78	21.80	21.81	21.92	21.81		
5	16QAM	12	0	21.69	21.76	21.71	21.84	21.92	21.67	22.9	0
5	16QAM	12	7	21.68	21.62	21.76	21.71	21.75	21.83		
5	16QAM	12	13	21.76	21.73	21.70	21.57	21.61	21.76		
5	16QAM	25	0	21.75	21.70	21.66	21.73	21.81	21.83		
5	64QAM	1	0	21.65	21.67	21.80	21.63	21.61	21.66	22.9	0
5	64QAM	1	12	21.64	21.67	21.33	21.65	21.65	21.72		
5	64QAM	1	24	21.48	21.53	21.65	21.44	21.67	21.63		
5	64QAM	12	0	21.90	21.69	21.78	21.92	22.05	21.61	22.9	0
5	64QAM	12	7	21.74	21.87	21.63	21.68	21.86	21.62		
5	64QAM	12	13	21.83	21.55	21.65	21.66	21.90	21.92		
5	64QAM	25	0	21.71	21.57	21.80	21.80	21.57	21.72		



5	256QAM	1	0	21.01	21.16	20.94	20.97	21.04	21.04	22	0.9
5	256QAM	1	12	21.13	21.08	21.23	21.14	21.22	21.26		
5	256QAM	1	24	21.03	21.15	21.00	21.14	21.03	21.07		
5	256QAM	12	0	20.87	20.97	20.82	20.79	20.89	20.78	22	0.9
5	256QAM	12	7	20.94	20.96	20.86	20.97	20.99	20.94		
5	256QAM	12	13	20.86	20.80	20.93	20.93	20.88	20.88		
5	256QAM	25	0	20.98	21.02	21.09	21.03	20.90	20.93		

Band 48 Ant4 DSI1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				55340	55830	56150	56640				
Frequency (MHz)				3560	3609	3641	3690				
20	QPSK	1	0	21.79	21.90	21.86	21.85	23	0		
20	QPSK	1	49	21.81	21.82	21.84	21.77				
20	QPSK	1	99	21.79	21.81	21.76	21.74				
20	QPSK	50	0	20.97	21.13	20.86	20.99	22	1		
20	QPSK	50	24	21.00	20.96	21.00	20.97				
20	QPSK	50	50	20.95	20.96	21.02	20.92				
20	QPSK	100	0	20.90	21.07	21.02	20.93				
20	16QAM	1	0	20.80	20.73	20.69	20.78	22	1		
20	16QAM	1	49	20.77	20.75	20.70	20.68				
20	16QAM	1	99	20.70	20.73	20.70	20.65				
20	16QAM	50	0	19.82	19.80	19.83	19.85	21	2		
20	16QAM	50	24	19.92	19.97	19.93	19.97				
20	16QAM	50	50	20.01	19.99	19.96	19.94				
20	16QAM	100	0	19.88	19.94	19.97	19.96				
20	64QAM	1	0	19.74	19.69	19.71	19.77	21	2		
20	64QAM	1	49	19.65	19.66	19.67	19.64				
20	64QAM	1	99	19.71	19.64	19.66	19.64				
20	64QAM	50	0	19.02	18.95	19.02	18.99	20	3		
20	64QAM	50	24	18.78	18.74	18.72	18.80				
20	64QAM	50	50	19.02	18.95	18.96	18.90				
20	64QAM	100	0	18.88	18.82	18.86	18.83				
20	256QAM	1	0	16.72	16.79	16.75	16.76	18	5		
20	256QAM	1	49	16.79	16.72	16.69	16.65				
20	256QAM	1	99	16.70	16.72	16.70	16.71				
20	256QAM	50	0	17.02	17.02	17.09	17.06	18	5		
20	256QAM	50	24	16.97	17.02	17.05	16.94				
20	256QAM	50	50	16.79	16.80	16.81	16.73				
20	256QAM	100	0	16.97	16.92	16.98	16.91				
Channel				55315	55820	56160	56665	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3557.5	3608	3642	3692.5				
15	QPSK	1	0	21.62	21.79	21.71	21.69	23	0		
15	QPSK	1	37	21.77	21.73	21.66	21.64				
15	QPSK	1	74	21.72	21.74	21.71	21.70				
15	QPSK	36	0	20.80	20.75	20.80	20.84	22	1		



15	QPSK	36	20	20.91	20.88	20.84	20.94		
15	QPSK	36	39	20.87	20.90	20.99	20.82		
15	QPSK	75	0	20.81	20.89	20.89	20.81		
15	16QAM	1	0	20.72	20.66	20.60	20.64	22	1
15	16QAM	1	37	20.63	20.66	20.58	20.60		
15	16QAM	1	74	20.61	20.60	20.64	20.65		
15	16QAM	36	0	19.65	19.73	19.67	19.81	21	2
15	16QAM	36	20	19.78	19.95	19.83	19.82		
15	16QAM	36	39	19.91	19.92	19.80	19.90		
15	16QAM	75	0	19.76	19.91	19.81	19.85	21	2
15	64QAM	1	0	19.59	19.52	19.58	19.61		
15	64QAM	1	37	19.67	19.66	19.54	19.56		
15	64QAM	1	74	19.56	19.52	19.54	19.51	20	3
15	64QAM	36	0	18.98	18.81	18.98	18.90		
15	64QAM	36	20	18.69	18.58	18.57	18.63		
15	64QAM	36	39	18.84	18.91	18.89	18.86	18	5
15	64QAM	75	0	18.76	18.74	18.78	18.71		
15	256QAM	1	0	16.56	16.61	16.66	16.71		
15	256QAM	1	37	16.70	16.63	16.53	16.55	18	5
15	256QAM	1	74	16.67	16.69	16.58	16.59		
15	256QAM	36	0	16.86	16.94	16.98	16.91		
15	256QAM	36	20	16.82	16.84	16.99	16.86	18	5
15	256QAM	36	39	16.63	16.75	16.79	16.57		
15	256QAM	75	0	16.81	16.85	16.84	16.78		
Channel				55290	55815	56165	56690	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	21.66	21.83	21.82	21.67	23	0
10	QPSK	1	25	21.71	21.71	21.71	21.64		
10	QPSK	1	49	21.74	21.77	21.69	21.65		
10	QPSK	25	0	20.81	20.84	20.84	20.97	22	1
10	QPSK	25	12	20.90	20.83	20.87	20.90		
10	QPSK	25	25	20.79	20.85	20.96	20.76		
10	QPSK	50	0	20.74	20.94	20.95	20.80	22	1
10	16QAM	1	0	20.71	20.56	20.53	20.66		
10	16QAM	1	25	20.70	20.58	20.63	20.62		
10	16QAM	1	49	20.65	20.64	20.63	20.61	21	2
10	16QAM	25	0	19.73	19.73	19.73	19.81		
10	16QAM	25	12	19.89	19.81	19.82	19.89		
10	16QAM	25	25	19.89	19.94	19.80	19.91	21	2
10	16QAM	50	0	19.72	19.91	19.89	19.84		
10	64QAM	1	0	19.67	19.53	19.67	19.60		
10	64QAM	1	25	19.59	19.56	19.51	19.62	20	3
10	64QAM	1	49	19.67	19.53	19.55	19.65		
10	64QAM	25	0	18.99	18.86	18.88	18.93		
10	64QAM	25	12	18.69	18.66	18.63	18.73	18	5
10	64QAM	25	25	18.88	18.80	18.89	18.83		
10	64QAM	50	0	18.84	18.68	18.71	18.75		
10	256QAM	1	0	16.66	16.61	16.64	16.66	18	5
10	256QAM	1	25	16.77	16.67	16.58	16.50		



10	256QAM	1	49	16.52	16.57	16.58	16.54		
10	256QAM	25	0	16.91	16.88	17.02	17.03	18	5
10	256QAM	25	12	16.95	16.92	16.90	16.89		
10	256QAM	25	25	16.70	16.76	16.66	16.62		
10	256QAM	50	0	16.91	16.83	16.95	16.87		
Channel				55265	55810	56170	56715	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	21.68	21.77	21.79	21.78	23	0
5	QPSK	1	12	21.73	21.66	21.68	21.72		
5	QPSK	1	24	21.65	21.72	21.74	21.57		
5	QPSK	12	0	20.86	20.82	20.78	20.94	22	1
5	QPSK	12	7	20.89	20.88	20.98	20.90		
5	QPSK	12	13	20.77	20.81	20.84	20.81		
5	QPSK	25	0	20.84	20.81	20.89	20.90		
5	16QAM	1	0	20.72	20.70	20.54	20.75	22	1
5	16QAM	1	12	20.60	20.63	20.56	20.52		
5	16QAM	1	24	20.53	20.64	20.67	20.55		
5	16QAM	12	0	19.69	19.64	19.67	19.72	21	2
5	16QAM	12	7	19.86	19.85	19.83	19.82		
5	16QAM	12	13	19.97	19.83	19.91	19.79		
5	16QAM	25	0	19.76	19.79	19.91	19.93		
5	64QAM	1	0	19.59	19.64	19.65	19.64	21	2
5	64QAM	1	12	19.50	19.53	19.59	19.52		
5	64QAM	1	24	19.56	19.51	19.56	19.76		
5	64QAM	12	0	18.93	18.87	18.90	18.85	20	3
5	64QAM	12	7	18.65	18.71	18.63	18.75		
5	64QAM	12	13	18.89	18.81	18.83	18.80		
5	64QAM	25	0	18.77	18.75	18.71	18.75		
5	256QAM	1	0	16.67	16.65	16.73	16.58	18	5
5	256QAM	1	12	16.75	16.61	16.58	16.57		
5	256QAM	1	24	16.63	16.56	16.65	16.55		
5	256QAM	12	0	16.96	16.99	17.00	17.02	18	5
5	256QAM	12	7	16.94	16.89	16.97	16.89		
5	256QAM	12	13	16.69	16.66	16.78	16.63		
5	256QAM	25	0	16.83	16.76	16.81	16.76		

Reduced Power Mode for DSI 2

Band 38 Ant3 DSI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	17.41	17.52	17.46	18.7	0
20	QPSK	1	49	17.40	17.41	17.46		
20	QPSK	1	99	17.27	17.43	17.33		
20	QPSK	50	0	17.35	17.36	17.33	18.7	0
20	QPSK	50	24	17.28	17.28	17.30		
20	QPSK	50	50	17.00	17.14	17.08		
20	QPSK	100	0	17.17	17.38	17.27		
20	16QAM	1	0	17.32	17.31	17.28	18.7	0
20	16QAM	1	49	17.09	17.27	17.21		
20	16QAM	1	99	17.32	17.43	17.25		
20	16QAM	50	0	17.20	17.39	17.14	18.7	0
20	16QAM	50	24	17.18	17.30	17.21		
20	16QAM	50	50	17.41	17.42	17.21		
20	16QAM	100	0	17.23	17.34	17.16		
20	64QAM	1	0	17.16	17.29	17.20	18.7	0
20	64QAM	1	49	17.23	17.36	17.35		
20	64QAM	1	99	17.18	17.35	17.15		
20	64QAM	50	0	17.22	17.30	17.11	18.7	0
20	64QAM	50	24	17.21	17.28	17.19		
20	64QAM	50	50	17.12	17.17	17.03		
20	64QAM	100	0	17.23	17.38	17.19		
20	256QAM	1	0	17.15	17.20	17.15	18.7	0
20	256QAM	1	49	17.06	17.27	16.98		
20	256QAM	1	99	17.18	17.29	17.21		
20	256QAM	50	0	17.10	17.14	17.18	18.7	0
20	256QAM	50	24	17.20	17.09	17.01		
20	256QAM	50	50	17.17	17.26	17.30		
20	256QAM	100	0	17.15	17.15	17.05		
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	17.32	17.48	17.32	18.7	0
15	QPSK	1	37	17.36	17.31	17.33		
15	QPSK	1	74	17.23	17.35	17.18		
15	QPSK	36	0	17.22	17.27	17.24	18.7	0
15	QPSK	36	20	17.23	17.15	17.14		
15	QPSK	36	39	16.92	16.98	16.94		
15	QPSK	75	0	17.10	17.25	17.13		
15	16QAM	1	0	17.25	17.27	17.24	18.7	0
15	16QAM	1	37	17.02	17.22	17.07		
15	16QAM	1	74	17.22	17.35	17.19		
15	16QAM	36	0	17.16	17.33	17.08	18.7	0

15	16QAM	36	20	17.10	17.23	17.16		
15	16QAM	36	39	17.34	17.37	17.14		
15	16QAM	75	0	17.19	17.21	17.10		
15	64QAM	1	0	17.04	17.17	17.13	18.7	0
15	64QAM	1	37	17.12	17.25	17.30		
15	64QAM	1	74	17.03	17.30	17.03		
15	64QAM	36	0	17.16	17.25	17.07	18.7	0
15	64QAM	36	20	17.09	17.21	17.06		
15	64QAM	36	39	17.07	17.05	16.92		
15	64QAM	75	0	17.08	17.33	17.15	18.7	0
15	256QAM	1	0	17.14	17.22	17.03		
15	256QAM	1	37	17.00	17.12	17.01		
15	256QAM	1	74	17.11	17.24	17.13	18.7	0
15	256QAM	36	0	17.15	17.01	17.10		
15	256QAM	36	20	17.07	17.00	16.96		
15	256QAM	36	39	17.02	17.13	17.24	18.7	0
15	256QAM	75	0	16.93	17.09	16.88		
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	17.31	17.42	17.36	18.7	0
10	QPSK	1	25	17.27	17.33	17.37		
10	QPSK	1	49	17.16	17.29	17.25		
10	QPSK	25	0	17.21	17.24	17.19	18.7	0
10	QPSK	25	12	17.16	17.22	17.23		
10	QPSK	25	25	16.96	17.04	16.97		
10	QPSK	50	0	17.13	17.30	17.20	18.7	0
10	16QAM	1	0	17.25	17.21	17.16		
10	16QAM	1	25	16.96	17.23	17.07		
10	16QAM	1	49	17.16	17.34	17.15	18.7	0
10	16QAM	25	0	17.13	17.30	17.00		
10	16QAM	25	12	17.07	17.15	17.08		
10	16QAM	25	25	17.35	17.34	17.09	18.7	0
10	16QAM	50	0	17.13	17.27	17.09		
10	64QAM	1	0	17.05	17.13	17.10		
10	64QAM	1	25	17.11	17.28	17.26	18.7	0
10	64QAM	1	49	17.06	17.22	17.11		
10	64QAM	25	0	17.15	17.23	17.04		
10	64QAM	25	12	17.14	17.17	17.11	18.7	0
10	64QAM	25	25	17.04	17.06	16.90		
10	64QAM	50	0	17.16	17.23	17.04		
10	256QAM	1	0	17.08	17.15	17.04	18.7	0
10	256QAM	1	25	17.03	17.23	16.95		
10	256QAM	1	49	17.07	17.21	17.14		
10	256QAM	25	0	17.08	17.04	17.12	18.7	0
10	256QAM	25	12	17.06	17.05	16.88		
10	256QAM	25	25	16.93	17.15	17.24		
10	256QAM	50	0	16.96	17.01	16.91	18.7	0
Channel				37775	38000	38225		
Frequency (MHz)				2572.5	2595	2617.5	Tune-up limit (dBm)	MPR (dB)

5	QPSK	1	0	17.35	17.45	17.40	18.7	0
5	QPSK	1	12	17.34	17.31	17.34		
5	QPSK	1	24	17.15	17.36	17.28		
5	QPSK	12	0	17.28	17.28	17.26	18.7	0
5	QPSK	12	7	17.16	17.13	17.21		
5	QPSK	12	13	16.95	16.98	16.96		
5	QPSK	25	0	17.11	17.32	17.12		
5	16QAM	1	0	17.20	17.22	17.18	18.7	0
5	16QAM	1	12	17.01	17.18	17.11		
5	16QAM	1	24	17.16	17.33	17.21		
5	16QAM	12	0	17.10	17.31	17.00	18.7	0
5	16QAM	12	7	17.04	17.23	17.06		
5	16QAM	12	13	17.37	17.32	17.15		
5	16QAM	25	0	17.13	17.27	17.00		
5	64QAM	1	0	17.03	17.18	17.15	18.7	0
5	64QAM	1	12	17.14	17.25	17.21		
5	64QAM	1	24	17.02	17.27	17.00		
5	64QAM	12	0	17.09	17.19	17.04	18.7	0
5	64QAM	12	7	17.14	17.18	17.04		
5	64QAM	12	13	17.05	17.12	16.88		
5	64QAM	25	0	17.13	17.29	17.14		
5	256QAM	1	0	17.10	17.22	17.14	18.7	0
5	256QAM	1	12	17.06	17.14	16.95		
5	256QAM	1	24	17.07	17.20	17.12		
5	256QAM	12	0	17.11	16.99	17.03	18.7	0
5	256QAM	12	7	16.99	16.99	16.97		
5	256QAM	12	13	16.97	17.17	17.16		
5	256QAM	25	0	16.93	17.10	16.89		

Band 41 Ant3 DSI2											
BW [MHz]	Modulation	RB Size	RB Offset	for IC Power Low Ch. / Freq.	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39790	39750	40185	40620	41055	41490	18.7	0
Frequency (MHz)				2510	2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	17.42	17.41	17.45	17.61	17.52	17.40		
20	QPSK	1	49	17.42	17.44	17.53	17.53	17.51	17.42	18.7	0
20	QPSK	1	99	17.36	17.31	17.39	17.49	17.41	17.34		
20	QPSK	50	0	17.29	17.28	17.43	17.46	17.37	17.28		
20	QPSK	50	24	17.29	17.34	17.36	17.43	17.43	17.30		
20	QPSK	50	50	17.00	17.02	17.12	17.28	17.12	17.02	18.7	0
20	QPSK	100	0	17.22	17.21	17.29	17.51	17.32	17.17		
20	16QAM	1	0	17.22	17.23	17.45	17.45	17.35	17.29		
20	16QAM	1	49	17.19	17.12	17.24	17.33	17.25	17.17	18.7	0
20	16QAM	1	99	17.34	17.27	17.44	17.54	17.40	17.30		
20	16QAM	50	0	17.16	17.23	17.29	17.48	17.28	17.24		
20	16QAM	50	24	17.15	17.22	17.26	17.37	17.26	17.13	18.7	0
20	16QAM	50	50	17.22	17.30	17.46	17.47	17.35	17.22		

20	16QAM	100	0	17.11	17.10	17.30	17.46	17.23	17.11		
20	64QAM	1	0	17.13	17.20	17.31	17.36	17.27	17.11	18.7	0
20	64QAM	1	49	17.39	17.41	17.37	17.49	17.45	17.32		
20	64QAM	1	99	17.18	17.20	17.32	17.40	17.27	17.17		
20	64QAM	50	0	17.11	17.08	17.27	17.40	17.23	17.19	18.7	0
20	64QAM	50	24	17.16	17.18	17.32	17.37	17.23	17.10		
20	64QAM	50	50	17.11	17.08	17.20	17.24	17.15	17.03		
20	64QAM	100	0	17.15	17.17	17.31	17.45	17.30	17.19		
20	256QAM	1	0	17.20	17.16	17.27	17.32	17.27	17.12	18.7	0
20	256QAM	1	49	17.06	17.00	17.20	17.32	17.14	17.00		
20	256QAM	1	99	17.20	17.14	17.27	17.44	17.29	17.13		
20	256QAM	50	0	17.13	17.12	17.26	17.24	17.24	17.19	18.7	0
20	256QAM	50	24	16.96	17.03	17.24	17.21	17.09	16.96		
20	256QAM	50	50	17.31	17.29	17.25	17.41	17.37	17.26		
20	256QAM	100	0	17.03	17.14	17.20	17.27	17.18	17.07		
Channel				39765	39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	17.36	17.31	17.38	17.51	17.37	17.32	18.70	0
15	QPSK	1	37	17.28	17.32	17.48	17.39	17.44	17.35		
15	QPSK	1	74	17.25	17.25	17.23	17.33	17.31	17.21		
15	QPSK	36	0	17.18	17.16	17.37	17.31	17.24	17.18	18.7	0
15	QPSK	36	20	17.20	17.23	17.22	17.36	17.30	17.16		
15	QPSK	36	39	16.94	16.94	17.04	17.19	16.96	16.87		
15	QPSK	75	0	17.15	17.16	17.16	17.36	17.18	17.02		
15	16QAM	1	0	17.15	17.18	17.40	17.39	17.24	17.18	18.7	0
15	16QAM	1	37	17.13	17.01	17.09	17.28	17.14	17.04		
15	16QAM	1	74	17.19	17.19	17.36	17.38	17.30	17.18		
15	16QAM	36	0	17.11	17.13	17.15	17.36	17.24	17.12	18.7	0
15	16QAM	36	20	17.05	17.12	17.17	17.33	17.13	17.05		
15	16QAM	36	39	17.08	17.17	17.37	17.36	17.29	17.15		
15	16QAM	75	0	16.98	16.97	17.19	17.39	17.13	17.01		
15	64QAM	1	0	17.00	17.07	17.21	17.24	17.11	16.96	18.7	0
15	64QAM	1	37	17.27	17.35	17.32	17.34	17.37	17.20		
15	64QAM	1	74	17.12	17.12	17.19	17.33	17.15	17.12		
15	64QAM	36	0	17.06	16.97	17.18	17.31	17.08	17.04	18.7	0
15	64QAM	36	20	17.07	17.08	17.27	17.22	17.15	16.96		
15	64QAM	36	39	17.06	16.95	17.14	17.16	17.01	16.95		
15	64QAM	75	0	17.00	17.04	17.24	17.40	17.24	17.07		
15	256QAM	1	0	17.11	17.00	17.15	17.22	17.20	16.99	18.7	0
15	256QAM	1	37	17.01	16.95	17.09	17.24	16.98	16.91		
15	256QAM	1	74	17.08	17.07	17.14	17.37	17.22	17.07		
15	256QAM	36	0	17.06	17.00	17.19	17.18	17.12	17.13	18.7	0
15	256QAM	36	20	16.90	16.89	17.18	17.06	16.98	16.89		
15	256QAM	36	39	17.17	17.22	17.09	17.33	17.29	17.19		
15	256QAM	75	0	16.95	16.99	17.09	17.17	17.12	16.99		
Channel				39740	39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2501	2547	2593	2639	2685		
10	QPSK	1	0	17.28	17.36	17.32	17.55	17.42	17.34	18.70	0
10	QPSK	1	25	17.27	17.35	17.43	17.44	17.45	17.27		



10	QPSK	1	49	17.28	17.26	17.34	17.33	17.32	17.20		
10	QPSK	25	0	17.17	17.18	17.37	17.35	17.27	17.15	18.7	0
10	QPSK	25	12	17.14	17.24	17.28	17.36	17.29	17.15		
10	QPSK	25	25	16.90	16.97	17.05	17.15	16.97	16.87		
10	QPSK	50	0	17.09	17.16	17.20	17.42	17.27	17.02		
10	16QAM	1	0	17.07	17.11	17.39	17.35	17.20	17.23	18.7	0
10	16QAM	1	25	17.05	17.06	17.11	17.21	17.19	17.09		
10	16QAM	1	49	17.27	17.15	17.36	17.42	17.34	17.14		
10	16QAM	25	0	17.00	17.15	17.21	17.36	17.13	17.08	18.7	0
10	16QAM	25	12	17.01	17.11	17.21	17.25	17.17	17.03		
10	16QAM	25	25	17.18	17.18	17.42	17.38	17.29	17.11		
10	16QAM	50	0	17.02	17.04	17.19	17.41	17.13	16.95		
10	64QAM	1	0	17.09	17.05	17.18	17.29	17.17	16.96	18.7	0
10	64QAM	1	25	17.32	17.35	17.27	17.39	17.36	17.25		
10	64QAM	1	49	17.07	17.12	17.23	17.29	17.16	17.07		
10	64QAM	25	0	17.06	16.97	17.15	17.26	17.18	17.09	18.7	0
10	64QAM	25	12	17.10	17.04	17.23	17.32	17.10	17.02		
10	64QAM	25	25	17.04	16.93	17.13	17.17	17.03	16.91		
10	64QAM	50	0	17.00	17.06	17.25	17.33	17.19	17.06		
10	256QAM	1	0	17.08	17.07	17.19	17.20	17.12	17.06	18.7	0
10	256QAM	1	25	16.92	16.95	17.14	17.23	17.03	16.96		
10	256QAM	1	49	17.05	17.05	17.13	17.36	17.18	16.98		
10	256QAM	25	0	17.07	17.03	17.20	17.11	17.11	17.07	18.7	0
10	256QAM	25	12	16.90	16.96	17.12	17.12	16.99	16.81		
10	256QAM	25	25	17.17	17.24	17.13	17.26	17.31	17.15		
10	256QAM	50	0	16.96	17.05	17.14	17.14	17.06	17.02		
Channel				39715	39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	17.29	17.26	17.39	17.46	17.43	17.31	18.70	0
5	QPSK	1	12	17.28	17.37	17.38	17.45	17.40	17.32		
5	QPSK	1	24	17.24	17.16	17.31	17.35	17.29	17.20		
5	QPSK	12	0	17.16	17.15	17.35	17.41	17.21	17.19	18.7	0
5	QPSK	12	7	17.22	17.25	17.22	17.38	17.38	17.25		
5	QPSK	12	13	16.91	16.91	17.03	17.14	16.97	16.96		
5	QPSK	25	0	17.08	17.16	17.22	17.40	17.28	17.06		
5	16QAM	1	0	17.15	17.17	17.30	17.32	17.31	17.16	18.7	0
5	16QAM	1	12	17.04	16.98	17.17	17.23	17.15	17.07		
5	16QAM	1	24	17.27	17.23	17.40	17.48	17.31	17.16		
5	16QAM	12	0	17.05	17.10	17.19	17.36	17.19	17.08	18.7	0
5	16QAM	12	7	17.04	17.07	17.14	17.27	17.20	16.98		
5	16QAM	12	13	17.18	17.24	17.41	17.38	17.23	17.09		
5	16QAM	25	0	17.00	16.99	17.14	17.34	17.16	17.05		
5	64QAM	1	0	17.02	17.13	17.17	17.29	17.20	17.05	18.7	0
5	64QAM	1	12	17.26	17.28	17.28	17.44	17.38	17.17		
5	64QAM	1	24	17.08	17.09	17.17	17.35	17.12	17.08		
5	64QAM	12	0	17.00	17.00	17.11	17.32	17.14	17.10	18.7	0
5	64QAM	12	7	17.01	17.06	17.26	17.28	17.11	17.05		
5	64QAM	12	13	17.02	16.99	17.07	17.18	17.06	16.96		
5	64QAM	25	0	17.08	17.09	17.16	17.32	17.20	17.09		



5	256QAM	1	0	17.15	17.08	17.16	17.27	17.12	17.07	18.7	0
5	256QAM	1	12	16.91	16.90	17.06	17.19	17.02	16.86		
5	256QAM	1	24	17.13	16.99	17.18	17.35	17.18	17.07		
5	256QAM	12	0	17.05	16.99	17.19	17.11	17.16	17.11	18.7	0
5	256QAM	12	7	16.87	16.97	17.16	17.08	16.94	16.90		
5	256QAM	12	13	17.22	17.21	17.20	17.32	17.33	17.13		
5	256QAM	25	0	16.87	17.02	17.13	17.19	17.07	16.92		

Band 41 HPUE Ant3 DSI2											
BW [MHz]	Modulation	RB Size	RB Offset	for IC Power Low Ch. / Freq.	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	25.77	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39790	39750	40185	40620	41055	41490		
Frequency (MHz)				2510	2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	19.06	19.05	19.13	19.25	19.18	19.01	20.3	0
20	QPSK	1	49	19.07	19.03	19.21	19.21	19.10	19.09		
20	QPSK	1	99	18.95	18.98	18.99	19.08	18.99	18.96		
20	QPSK	50	0	18.95	18.91	19.04	19.07	19.04	18.90	20.3	0
20	QPSK	50	24	18.93	19.04	19.06	19.03	19.04	18.98		
20	QPSK	50	50	18.61	18.69	18.77	18.89	18.81	18.71		
20	QPSK	100	0	18.83	18.87	18.90	19.10	19.00	18.83		
20	16QAM	1	0	18.92	18.81	19.06	19.05	18.99	18.87	20.3	0
20	16QAM	1	49	18.83	18.78	18.90	19.00	18.87	18.78		
20	16QAM	1	99	19.04	18.90	19.03	19.21	19.04	18.96		
20	16QAM	50	0	18.76	18.81	18.93	19.10	18.88	18.86	20.3	0
20	16QAM	50	24	18.84	18.87	18.95	18.98	18.93	18.76		
20	16QAM	50	50	18.83	18.95	19.05	19.06	18.95	18.80		
20	16QAM	100	0	18.78	18.80	18.90	19.10	18.86	18.78		
20	64QAM	1	0	18.75	18.83	18.91	19.01	18.88	18.78	20.3	0
20	64QAM	1	49	19.00	19.08	18.99	19.17	19.07	18.99		
20	64QAM	1	99	18.84	18.86	18.98	19.09	18.91	18.77		
20	64QAM	50	0	18.71	18.70	18.90	19.05	18.91	18.84	20.3	0
20	64QAM	50	24	18.76	18.87	18.91	18.95	18.84	18.79		
20	64QAM	50	50	18.70	18.69	18.89	18.93	18.77	18.72		
20	64QAM	100	0	18.79	18.83	18.97	19.14	18.95	18.85		
20	256QAM	1	0	18.85	18.77	18.87	19.01	18.85	18.76	20.3	0
20	256QAM	1	49	18.68	18.65	18.84	18.92	18.76	18.61		
20	256QAM	1	99	18.86	18.81	18.92	19.09	18.95	18.74		
20	256QAM	50	0	18.72	18.70	18.91	18.93	18.94	18.79	20.3	0
20	256QAM	50	24	18.66	18.62	18.84	18.88	18.79	18.62		
20	256QAM	50	50	19.01	18.99	18.91	19.01	19.01	18.87		
20	256QAM	100	0	18.63	18.84	18.85	18.95	18.84	18.66		
Channel				39765	39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	18.99	18.94	19.05	19.13	19.06	18.92	20.30	0
15	QPSK	1	37	19.02	18.99	19.10	19.15	19.01	18.97		
15	QPSK	1	74	18.86	18.93	18.87	18.95	18.84	18.85		
15	QPSK	36	0	18.88	18.76	18.90	18.94	18.91	18.81	20.3	0



15	QPSK	36	20	18.84	18.99	18.95	18.93	18.89	18.91		
15	QPSK	36	39	18.51	18.62	18.73	18.82	18.71	18.60		
15	QPSK	75	0	18.68	18.78	18.82	19.06	18.90	18.78		
15	16QAM	1	0	18.87	18.76	18.95	18.99	18.84	18.81	20.3	0
15	16QAM	1	37	18.78	18.70	18.78	18.86	18.72	18.70		
15	16QAM	1	74	18.88	18.74	18.95	19.13	18.97	18.81		
15	16QAM	36	0	18.72	18.67	18.87	19.00	18.75	18.73	20.3	0
15	16QAM	36	20	18.71	18.78	18.88	18.89	18.80	18.67		
15	16QAM	36	39	18.78	18.87	18.93	19.01	18.79	18.73		
15	16QAM	75	0	18.65	18.75	18.84	19.06	18.74	18.66	20.3	0
15	64QAM	1	0	18.62	18.76	18.83	18.97	18.73	18.73		
15	64QAM	1	37	18.93	18.96	18.90	19.07	18.92	18.87		
15	64QAM	1	74	18.75	18.75	18.89	19.04	18.85	18.63	20.3	0
15	64QAM	36	0	18.66	18.63	18.85	18.90	18.84	18.78		
15	64QAM	36	20	18.62	18.72	18.85	18.83	18.70	18.64		
15	64QAM	36	39	18.55	18.65	18.82	18.86	18.71	18.64	20.3	0
15	64QAM	75	0	18.67	18.70	18.85	19.09	18.89	18.78		
15	256QAM	1	0	18.73	18.63	18.76	18.93	18.80	18.70		
15	256QAM	1	37	18.58	18.53	18.78	18.85	18.67	18.51	20.3	0
15	256QAM	1	74	18.71	18.75	18.85	19.00	18.86	18.60		
15	256QAM	36	0	18.64	18.56	18.85	18.78	18.83	18.66		
15	256QAM	36	20	18.60	18.53	18.71	18.75	18.72	18.49	20.3	0
15	256QAM	36	39	18.89	18.94	18.82	18.97	18.96	18.82		
15	256QAM	75	0	18.50	18.71	18.77	18.85	18.71	18.61		
Channel				39740	39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2501	2547	2593	2639	2685		
10	QPSK	1	0	18.93	18.97	19.09	19.21	19.10	18.96	20.30	0
10	QPSK	1	25	18.95	18.94	19.16	19.14	18.96	18.97		
10	QPSK	1	49	18.89	18.84	18.84	19.00	18.90	18.82		
10	QPSK	25	0	18.89	18.85	18.89	18.91	18.96	18.83	20.3	0
10	QPSK	25	12	18.78	18.98	18.96	18.88	18.97	18.88		
10	QPSK	25	25	18.48	18.62	18.67	18.83	18.76	18.58		
10	QPSK	50	0	18.73	18.76	18.81	19.00	18.94	18.73	20.3	0
10	16QAM	1	0	18.88	18.75	19.00	18.93	18.93	18.81		
10	16QAM	1	25	18.68	18.65	18.75	18.85	18.79	18.71		
10	16QAM	1	49	18.89	18.79	18.88	19.10	18.91	18.86	20.3	0
10	16QAM	25	0	18.68	18.71	18.83	18.97	18.76	18.79		
10	16QAM	25	12	18.79	18.80	18.85	18.87	18.87	18.65		
10	16QAM	25	25	18.74	18.84	18.99	18.91	18.86	18.66	20.3	0
10	16QAM	50	0	18.64	18.65	18.82	18.94	18.73	18.67		
10	64QAM	1	0	18.60	18.76	18.78	18.90	18.74	18.65		
10	64QAM	1	25	18.95	18.98	18.86	19.07	19.01	18.87	20.3	0
10	64QAM	1	49	18.77	18.78	18.82	19.04	18.83	18.73		
10	64QAM	25	0	18.59	18.55	18.85	18.95	18.85	18.70		
10	64QAM	25	12	18.70	18.83	18.76	18.83	18.68	18.72	20.3	0
10	64QAM	25	25	18.61	18.55	18.77	18.84	18.67	18.62		
10	64QAM	50	0	18.72	18.74	18.85	19.01	18.84	18.74		
10	256QAM	1	0	18.72	18.67	18.72	18.88	18.74	18.63	20.3	0
10	256QAM	1	25	18.58	18.60	18.78	18.79	18.63	18.68		



10	256QAM	1	49	18.80	18.75	18.81	19.02	18.85	18.61		
10	256QAM	25	0	18.66	18.60	18.83	18.78	18.80	18.70	20.3	0
10	256QAM	25	12	18.59	18.49	18.70	18.78	18.72	18.54		
10	256QAM	25	25	18.96	18.85	18.84	18.87	18.86	18.80		
10	256QAM	50	0	18.48	18.70	18.81	18.81	18.78	18.61		
Channel				39715	39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	18.96	18.99	19.00	19.20	19.05	18.86	20.30	0
5	QPSK	1	12	18.99	18.91	19.05	19.07	19.01	18.98		
5	QPSK	1	24	18.88	18.91	18.92	19.01	18.90	18.89		
5	QPSK	12	0	18.80	18.83	18.90	19.03	18.96	18.76	20.3	0
5	QPSK	12	7	18.81	18.96	18.97	18.95	18.90	18.82		
5	QPSK	12	13	18.67	18.63	18.66	18.76	18.74	18.58		
5	QPSK	25	0	18.67	18.81	18.82	19.04	18.92	18.75		
5	16QAM	1	0	18.82	18.66	19.00	18.96	18.88	18.76	20.3	0
5	16QAM	1	12	18.79	18.70	18.75	18.89	18.73	18.74		
5	16QAM	1	24	18.89	18.83	18.98	19.05	18.93	18.83		
5	16QAM	12	0	18.63	18.66	18.79	18.97	18.80	18.75	20.3	0
5	16QAM	12	7	18.75	18.78	18.83	18.89	18.79	18.71		
5	16QAM	12	13	18.77	18.82	18.91	18.94	18.83	18.73		
5	16QAM	25	0	18.66	18.75	18.85	19.03	18.77	18.65		
5	64QAM	1	0	18.65	18.70	18.82	18.89	18.73	18.72	20.3	0
5	64QAM	1	12	18.85	18.95	18.92	19.07	18.91	18.86		
5	64QAM	1	24	18.78	18.77	18.86	18.99	18.80	18.63		
5	64QAM	12	0	18.64	18.59	18.86	18.98	18.75	18.75	20.3	0
5	64QAM	12	7	18.68	18.77	18.84	18.83	18.72	18.73		
5	64QAM	12	13	18.59	18.57	18.77	18.80	18.63	18.66		
5	64QAM	25	0	18.73	18.70	18.84	19.01	18.87	18.72		
5	256QAM	1	0	18.71	18.72	18.74	18.95	18.75	18.65	20.3	0
5	256QAM	1	12	18.57	18.56	18.80	18.85	18.63	18.57		
5	256QAM	1	24	18.77	18.71	18.78	18.98	18.90	18.69		
5	256QAM	12	0	18.62	18.63	18.85	18.80	18.85	18.69	20.3	0
5	256QAM	12	7	18.60	18.46	18.75	18.79	18.70	18.49		
5	256QAM	12	13	18.91	18.87	18.76	18.89	18.93	18.82		
5	256QAM	25	0	18.50	18.70	18.78	18.90	18.71	18.56		

Band 48 Ant4 DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	17.24	17.41	17.31	17.34	18.2	0
20	QPSK	1	49	17.26	17.25	17.33	17.31		
20	QPSK	1	99	17.10	17.13	17.32	17.22		
20	QPSK	50	0	17.12	17.15	17.28	17.19	18.2	0
20	QPSK	50	24	17.06	17.19	17.26	17.16		
20	QPSK	50	50	16.80	16.85	17.10	16.96		
20	QPSK	100	0	16.95	17.08	17.24	17.15		
20	16QAM	1	0	17.13	16.96	17.27	17.12	18.2	0
20	16QAM	1	49	17.01	16.90	17.20	17.09		
20	16QAM	1	99	17.27	17.11	17.39	17.19		
20	16QAM	50	0	16.93	17.00	17.24	17.08	18.2	0
20	16QAM	50	24	17.07	17.00	17.18	17.15		
20	16QAM	50	50	16.97	17.17	17.18	17.16		
20	16QAM	100	0	16.93	17.00	17.28	16.99		
20	64QAM	1	0	16.91	16.96	17.24	17.05	18.2	0
20	64QAM	1	49	17.18	17.27	17.32	17.22		
20	64QAM	1	99	17.08	17.02	17.31	17.07		
20	64QAM	50	0	16.91	16.90	17.19	17.08	18.2	0
20	64QAM	50	24	16.93	17.03	17.12	17.00		
20	64QAM	50	50	16.85	16.90	17.13	16.98		
20	64QAM	100	0	16.96	17.01	17.32	17.07		
20	256QAM	1	0	17.02	16.90	17.18	17.04	18	0.2
20	256QAM	1	49	16.88	16.82	17.09	17.00		
20	256QAM	1	99	17.00	16.99	17.30	17.17		
20	256QAM	50	0	16.90	16.92	17.06	17.14	18	0.2
20	256QAM	50	24	16.87	16.85	17.02	16.97		
20	256QAM	50	50	17.24	17.19	17.25	17.15		
20	256QAM	100	0	16.77	16.96	17.16	17.03		
Channel				55315	55820	56160	56665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	17.16	17.17	17.34	17.25	18.2	0
15	QPSK	1	37	17.14	17.16	17.20	17.16		
15	QPSK	1	74	17.06	17.01	17.18	17.07		
15	QPSK	36	0	16.99	17.10	17.19	17.04	18.2	0
15	QPSK	36	20	17.01	17.04	17.12	17.00		
15	QPSK	36	39	16.75	16.79	17.04	16.83		
15	QPSK	75	0	16.81	16.96	17.19	17.10		
15	16QAM	1	0	17.08	16.87	17.13	16.96	18.2	0
15	16QAM	1	37	16.86	16.82	17.10	16.98		
15	16QAM	1	74	17.16	17.02	17.26	17.03		
15	16QAM	36	0	16.87	16.92	17.20	17.00	18.2	0



15	16QAM	36	20	16.93	16.88	17.10	17.11		
15	16QAM	36	39	16.92	17.12	17.03	17.08		
15	16QAM	75	0	16.82	16.84	17.14	16.86		
15	64QAM	1	0	16.81	16.89	17.19	16.98	18.2	0
15	64QAM	1	37	17.03	17.21	17.22	17.14		
15	64QAM	1	74	17.01	16.95	17.15	17.02		
15	64QAM	36	0	16.79	16.82	17.11	16.99	18.2	0
15	64QAM	36	20	16.86	16.94	16.96	16.88		
15	64QAM	36	39	16.70	16.79	17.03	16.84		
15	64QAM	75	0	16.82	16.94	17.27	16.93	18	0.2
15	256QAM	1	0	16.87	16.77	17.10	16.88		
15	256QAM	1	37	16.79	16.77	17.03	16.88		
15	256QAM	1	74	16.91	16.90	17.23	17.04	18	0.2
15	256QAM	36	0	16.86	16.87	16.95	17.01		
15	256QAM	36	20	16.73	16.80	16.97	16.83		
15	256QAM	36	39	17.09	17.09	17.20	17.11	18	0.2
15	256QAM	75	0	16.64	16.85	17.09	16.98		
Channel				55290	55815	56165	56690	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	17.15	17.13	17.32	17.25	18.2	0
10	QPSK	1	25	17.11	17.16	17.22	17.24		
10	QPSK	1	49	16.99	17.07	17.19	17.16		
10	QPSK	25	0	16.99	17.00	17.24	17.04	18.2	0
10	QPSK	25	12	16.97	17.05	17.21	17.00		
10	QPSK	25	25	16.74	16.77	16.97	16.83		
10	QPSK	50	0	16.82	17.02	17.10	17.09	18.2	0
10	16QAM	1	0	17.01	16.84	17.18	17.05		
10	16QAM	1	25	16.86	16.84	17.06	17.03		
10	16QAM	1	49	17.12	16.98	17.34	17.15	18.2	0
10	16QAM	25	0	16.85	16.92	17.16	16.98		
10	16QAM	25	12	16.98	16.89	17.02	17.05		
10	16QAM	25	25	16.90	17.04	17.11	17.04	18.2	0
10	16QAM	50	0	16.89	16.87	17.13	16.83		
10	64QAM	1	0	16.80	16.90	17.14	17.00		
10	64QAM	1	25	17.12	17.13	17.20	17.12	18.2	0
10	64QAM	1	49	16.98	16.96	17.18	17.03		
10	64QAM	25	0	16.80	16.82	17.06	16.93		
10	64QAM	25	12	16.83	16.90	17.03	16.96	18.2	0
10	64QAM	25	25	16.72	16.76	17.08	16.89		
10	64QAM	50	0	16.81	16.91	17.19	16.92		
10	256QAM	1	0	16.87	16.84	17.13	16.98	18	0.2
10	256QAM	1	25	16.83	16.72	16.99	16.93		
10	256QAM	1	49	16.90	16.84	17.18	17.07		
10	256QAM	25	0	16.79	16.86	16.93	17.05	18	0.2
10	256QAM	25	12	16.76	16.77	16.97	16.92		
10	256QAM	25	25	17.10	17.15	17.11	17.10		
10	256QAM	50	0	16.65	16.80	17.10	16.91	Tune-up limit (dBm)	MPR (dB)
Channel				55265	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		



5	QPSK	1	0	17.13	17.16	17.26	17.28	18.2	0
5	QPSK	1	12	17.18	17.12	17.19	17.26		
5	QPSK	1	24	16.96	17.02	17.23	17.14		
5	QPSK	12	0	17.07	17.06	17.16	17.13	18.2	0
5	QPSK	12	7	16.91	17.14	17.13	17.05		
5	QPSK	12	13	16.66	16.80	16.98	16.88		
5	QPSK	25	0	16.86	16.97	17.14	17.02	18.2	0
5	16QAM	1	0	17.08	16.83	17.12	17.03		
5	16QAM	1	12	16.97	16.91	17.12	16.95		
5	16QAM	1	24	17.13	17.02	17.32	17.07	18.2	0
5	16QAM	12	0	16.84	16.89	17.15	16.99		
5	16QAM	12	7	17.00	16.95	17.08	17.01		
5	16QAM	12	13	16.92	17.07	17.10	17.07	18.2	0
5	16QAM	25	0	16.83	16.95	17.16	16.89		
5	64QAM	1	0	16.80	16.82	17.13	16.95		
5	64QAM	1	12	17.09	17.16	17.23	17.15	18.2	0
5	64QAM	1	24	17.01	16.96	17.24	17.00		
5	64QAM	12	0	16.82	16.84	17.09	17.03		
5	64QAM	12	7	16.82	16.97	17.07	16.89	18.2	0
5	64QAM	12	13	16.70	16.80	17.02	16.87		
5	64QAM	25	0	16.84	16.90	17.22	16.98		
5	256QAM	1	0	16.92	16.77	17.03	16.98	18	0.2
5	256QAM	1	12	16.77	16.75	16.96	16.90		
5	256QAM	1	24	16.90	16.95	17.19	17.07		
5	256QAM	12	0	16.75	16.80	16.93	17.01	18	0.2
5	256QAM	12	7	16.77	16.71	16.88	16.87		
5	256QAM	12	13	17.08	17.06	17.19	17.01		
5	256QAM	25	0	16.68	16.91	17.00	16.98		

Reduced Power Mode for DSI 4

Band 38 Ant3 DSI4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	18.75	18.85	18.79	19.8	0
20	QPSK	1	49	18.59	18.65	18.76		
20	QPSK	1	99	18.71	18.63	18.80		
20	QPSK	50	0	18.46	18.78	18.41	19.8	0
20	QPSK	50	24	18.46	18.51	18.53		
20	QPSK	50	50	18.45	18.48	18.49		
20	QPSK	100	0	18.51	18.75	18.51		
20	16QAM	1	0	18.70	18.79	18.66	19.8	0
20	16QAM	1	49	18.45	18.58	18.61		
20	16QAM	1	99	18.66	18.73	18.68		
20	16QAM	50	0	18.47	18.70	18.34	19.8	0
20	16QAM	50	24	18.42	18.53	18.56		
20	16QAM	50	50	18.43	18.44	18.52		
20	16QAM	100	0	18.55	18.61	18.57		
20	64QAM	1	0	18.63	18.79	18.84	19.8	0
20	64QAM	1	49	18.50	18.63	18.69		
20	64QAM	1	99	18.65	18.57	18.81		
20	64QAM	50	0	18.45	18.72	18.39	19.8	0
20	64QAM	50	24	18.52	18.48	18.39		
20	64QAM	50	50	18.43	18.42	18.47		
20	64QAM	100	0	18.52	18.66	18.45		
20	256QAM	1	0	17.70	17.69	17.73	19	0.8
20	256QAM	1	49	17.56	17.68	17.71		
20	256QAM	1	99	17.48	17.46	17.50		
20	256QAM	50	0	17.54	17.58	17.52	19	0.8
20	256QAM	50	24	17.75	17.67	17.77		
20	256QAM	50	50	17.60	17.59	17.65		
20	256QAM	100	0	17.78	17.80	17.76		
Channel				37825	38000	38175		
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	18.66	18.75	18.73	19.8	0
15	QPSK	1	37	18.57	18.56	18.63		
15	QPSK	1	74	18.68	18.57	18.70		
15	QPSK	36	0	18.34	18.66	18.34	19.8	0
15	QPSK	36	20	18.35	18.48	18.50		
15	QPSK	36	39	18.40	18.40	18.39		
15	QPSK	75	0	18.39	18.64	18.40		
15	16QAM	1	0	18.65	18.67	18.60	19.8	0
15	16QAM	1	37	18.33	18.50	18.49		
15	16QAM	1	74	18.60	18.65	18.65		
15	16QAM	36	0	18.34	18.64	18.32	19.8	0

15	16QAM	36	20	18.36	18.43	18.42		
15	16QAM	36	39	18.30	18.35	18.40		
15	16QAM	75	0	18.51	18.53	18.50		
15	64QAM	1	0	18.50	18.68	18.71	19.8	0
15	64QAM	1	37	18.38	18.61	18.62		
15	64QAM	1	74	18.63	18.53	18.79		
15	64QAM	36	0	18.33	18.68	18.32	19.8	0
15	64QAM	36	20	18.43	18.36	18.33		
15	64QAM	36	39	18.34	18.32	18.44		
15	64QAM	75	0	18.40	18.61	18.36	19	0.8
15	256QAM	1	0	17.54	17.56	17.66		
15	256QAM	1	37	17.49	17.52	17.65		
15	256QAM	1	74	17.36	17.38	17.40	19	0.8
15	256QAM	36	0	17.46	17.46	17.40		
15	256QAM	36	20	17.68	17.56	17.73		
15	256QAM	36	39	17.56	17.52	17.59		
15	256QAM	75	0	17.69	17.73	17.62		
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	18.65	18.69	18.69	19.8	0
10	QPSK	1	25	18.45	18.62	18.62		
10	QPSK	1	49	18.63	18.52	18.71		
10	QPSK	25	0	18.42	18.71	18.33	19.8	0
10	QPSK	25	12	18.39	18.45	18.44		
10	QPSK	25	25	18.42	18.37	18.36		
10	QPSK	50	0	18.47	18.64	18.47		
10	16QAM	1	0	18.60	18.70	18.56	19.8	0
10	16QAM	1	25	18.31	18.55	18.47		
10	16QAM	1	49	18.56	18.69	18.62		
10	16QAM	25	0	18.40	18.66	18.31	19.8	0
10	16QAM	25	12	18.37	18.51	18.48		
10	16QAM	25	25	18.37	18.33	18.46		
10	16QAM	50	0	18.51	18.56	18.44		
10	64QAM	1	0	18.52	18.66	18.79	19.8	0
10	64QAM	1	25	18.37	18.54	18.59		
10	64QAM	1	49	18.57	18.47	18.69		
10	64QAM	25	0	18.42	18.63	18.26	19.8	0
10	64QAM	25	12	18.43	18.44	18.33		
10	64QAM	25	25	18.41	18.36	18.43		
10	64QAM	50	0	18.50	18.62	18.42		
10	256QAM	1	0	17.54	17.57	17.66	19	0.8
10	256QAM	1	25	17.43	17.64	17.66		
10	256QAM	1	49	17.40	17.32	17.36		
10	256QAM	25	0	17.41	17.53	17.40	19	0.8
10	256QAM	25	12	17.67	17.52	17.68		
10	256QAM	25	25	17.55	17.53	17.59		
10	256QAM	50	0	17.65	17.74	17.67		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		

5	QPSK	1	0	18.64	18.68	18.72	19.8	0
5	QPSK	1	12	18.55	18.51	18.74		
5	QPSK	1	24	18.64	18.50	18.68		
5	QPSK	12	0	18.41	18.66	18.37	19.8	0
5	QPSK	12	7	18.40	18.47	18.48		
5	QPSK	12	13	18.34	18.37	18.37		
5	QPSK	25	0	18.38	18.72	18.37		
5	16QAM	1	0	18.65	18.70	18.56	19.8	0
5	16QAM	1	12	18.34	18.52	18.59		
5	16QAM	1	24	18.61	18.66	18.58		
5	16QAM	12	0	18.44	18.57	18.25	19.8	0
5	16QAM	12	7	18.29	18.49	18.43		
5	16QAM	12	13	18.37	18.33	18.40		
5	16QAM	25	0	18.46	18.58	18.50		
5	64QAM	1	0	18.53	18.76	18.71		
5	64QAM	1	12	18.36	18.53	18.62	19.8	0
5	64QAM	1	24	18.59	18.47	18.74		
5	64QAM	12	0	18.37	18.66	18.28		
5	64QAM	12	7	18.40	18.45	18.34	19.8	0
5	64QAM	12	13	18.30	18.34	18.42		
5	64QAM	25	0	18.43	18.52	18.31		
5	256QAM	1	0	17.57	17.61	17.62		
5	256QAM	1	12	17.41	17.62	17.64	19	0.8
5	256QAM	1	24	17.43	17.34	17.46		
5	256QAM	12	0	17.42	17.49	17.40		
5	256QAM	12	7	17.60	17.54	17.71	19	0.8
5	256QAM	12	13	17.56	17.51	17.59		
5	256QAM	25	0	17.64	17.66	17.66		

Band 41 Ant3 DSI4											
BW [MHz]	Modulation	RB Size	RB Offset	for IC Power Low Ch. / Freq.	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39790	39750	40185	40620	41055	41490	19.8	0
Frequency (MHz)				2510	2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	18.77	18.64	18.78	18.91	18.89	18.85		
20	QPSK	1	49	18.73	18.81	18.70	18.70	18.79	18.81	19.8	0
20	QPSK	1	99	18.86	18.70	18.82	18.73	18.83	18.62		
20	QPSK	50	0	18.77	18.57	18.49	18.87	18.54	18.55		
20	QPSK	50	24	18.56	18.67	18.56	18.57	18.57	18.67		
20	QPSK	50	50	18.71	18.65	18.57	18.59	18.57	18.67	19.8	0
20	QPSK	100	0	18.60	18.83	18.63	18.85	18.61	18.71		
20	16QAM	1	0	18.79	18.57	18.75	18.82	18.74	18.81		
20	16QAM	1	49	18.72	18.62	18.56	18.71	18.68	18.66	19.8	0
20	16QAM	1	99	18.81	18.61	18.71	18.75	18.75	18.56		
20	16QAM	50	0	18.66	18.42	18.52	18.80	18.45	18.50		
20	16QAM	50	24	18.55	18.65	18.54	18.61	18.61	18.65	19.8	0
20	16QAM	50	50	18.60	18.54	18.54	18.47	18.55	18.64		

20	16QAM	100	0	18.49	18.71	18.61	18.73	18.61	18.67		
20	64QAM	1	0	18.75	18.69	18.66	18.90	18.88	18.68	19.8	0
20	64QAM	1	49	18.74	18.64	18.59	18.66	18.76	18.66		
20	64QAM	1	99	18.78	18.65	18.70	18.67	18.83	18.57		
20	64QAM	50	0	18.67	18.50	18.51	18.74	18.44	18.45	19.8	0
20	64QAM	50	24	18.53	18.58	18.54	18.55	18.49	18.59		
20	64QAM	50	50	18.59	18.66	18.57	18.52	18.57	18.71		
20	64QAM	100	0	18.56	18.74	18.65	18.69	18.54	18.70		
20	256QAM	1	0	17.74	17.81	17.81	17.78	17.86	17.79	19	0.8
20	256QAM	1	49	17.71	17.75	17.68	17.74	17.81	17.79		
20	256QAM	1	99	17.57	17.60	17.54	17.58	17.61	17.57		
20	256QAM	50	0	17.72	17.61	17.66	17.67	17.64	17.62	19	0.8
20	256QAM	50	24	17.78	17.86	17.87	17.81	17.86	17.80		
20	256QAM	50	50	17.60	17.60	17.73	17.66	17.73	17.64		
20	256QAM	100	0	17.87	17.83	17.93	17.89	17.83	17.85		
Channel				39765	39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	18.66	18.61	18.71	18.81	18.76	18.71	19.80	0
15	QPSK	1	37	18.61	18.70	18.61	18.60	18.70	18.70		
15	QPSK	1	74	18.82	18.67	18.70	18.69	18.79	18.54		
15	QPSK	36	0	18.69	18.52	18.46	18.81	18.51	18.52	19.8	0
15	QPSK	36	20	18.53	18.58	18.46	18.45	18.54	18.57		
15	QPSK	36	39	18.62	18.56	18.55	18.51	18.49	18.58		
15	QPSK	75	0	18.50	18.80	18.58	18.81	18.55	18.69		
15	16QAM	1	0	18.67	18.43	18.65	18.79	18.60	18.79	19.8	0
15	16QAM	1	37	18.67	18.53	18.44	18.61	18.55	18.63		
15	16QAM	1	74	18.75	18.54	18.68	18.68	18.72	18.44		
15	16QAM	36	0	18.57	18.37	18.47	18.73	18.38	18.43	19.8	0
15	16QAM	36	20	18.49	18.54	18.41	18.53	18.49	18.63		
15	16QAM	36	39	18.46	18.44	18.47	18.34	18.42	18.56		
15	16QAM	75	0	18.46	18.63	18.55	18.60	18.54	18.55		
15	64QAM	1	0	18.69	18.67	18.62	18.79	18.74	18.60	19.8	0
15	64QAM	1	37	18.62	18.54	18.49	18.60	18.72	18.53		
15	64QAM	1	74	18.65	18.55	18.65	18.57	18.76	18.52		
15	64QAM	36	0	18.57	18.40	18.47	18.72	18.33	18.32	19.8	0
15	64QAM	36	20	18.42	18.55	18.42	18.52	18.43	18.56		
15	64QAM	36	39	18.47	18.56	18.54	18.48	18.53	18.68		
15	64QAM	75	0	18.49	18.60	18.56	18.66	18.42	18.61		
15	256QAM	1	0	17.63	17.75	17.74	17.73	17.81	17.65	19	0.8
15	256QAM	1	37	17.64	17.68	17.60	17.63	17.71	17.70		
15	256QAM	1	74	17.43	17.52	17.49	17.51	17.48	17.50		
15	256QAM	36	0	17.57	17.45	17.56	17.56	17.50	17.48	19	0.8
15	256QAM	36	20	17.73	17.82	17.75	17.69	17.74	17.74		
15	256QAM	36	39	17.48	17.54	17.68	17.57	17.65	17.58		
15	256QAM	75	0	17.82	17.74	17.80	17.83	17.76	17.69		
Channel				39740	39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2501	2547	2593	2639	2685		
10	QPSK	1	0	18.68	18.57	18.68	18.84	18.78	18.76	19.80	0
10	QPSK	1	25	18.65	18.76	18.65	18.56	18.70	18.77		

10	QPSK	1	49	18.72	18.57	18.76	18.63	18.70	18.59		
10	QPSK	25	0	18.70	18.48	18.46	18.78	18.45	18.46	19.8	0
10	QPSK	25	12	18.43	18.64	18.53	18.45	18.46	18.54		
10	QPSK	25	25	18.63	18.54	18.45	18.45	18.50	18.59		
10	QPSK	50	0	18.55	18.79	18.60	18.79	18.55	18.58		
10	16QAM	1	0	18.74	18.52	18.67	18.90	18.61	18.73	19.8	0
10	16QAM	1	25	18.69	18.56	18.44	18.60	18.64	18.63		
10	16QAM	1	49	18.74	18.48	18.61	18.69	18.72	18.53		
10	16QAM	25	0	18.61	18.31	18.43	18.77	18.33	18.41	19.8	0
10	16QAM	25	12	18.47	18.60	18.50	18.55	18.57	18.53		
10	16QAM	25	25	18.56	18.42	18.49	18.37	18.48	18.52		
10	16QAM	50	0	18.43	18.64	18.56	18.67	18.56	18.56		
10	64QAM	1	0	18.64	18.59	18.57	18.82	18.74	18.54	19.8	0
10	64QAM	1	25	18.61	18.54	18.49	18.55	18.65	18.61		
10	64QAM	1	49	18.66	18.54	18.65	18.64	18.81	18.43		
10	64QAM	25	0	18.55	18.45	18.46	18.64	18.41	18.33	19.8	0
10	64QAM	25	12	18.43	18.45	18.42	18.53	18.37	18.47		
10	64QAM	25	25	18.52	18.60	18.55	18.50	18.51	18.58		
10	64QAM	50	0	18.43	18.65	18.53	18.60	18.48	18.64		
10	256QAM	1	0	17.63	17.69	17.67	17.66	17.72	17.69	19	0.8
10	256QAM	1	25	17.65	17.63	17.63	17.64	17.69	17.63		
10	256QAM	1	49	17.42	17.53	17.48	17.43	17.57	17.47		
10	256QAM	25	0	17.65	17.50	17.51	17.57	17.50	17.55	19	0.8
10	256QAM	25	12	17.69	17.76	17.82	17.68	17.71	17.73		
10	256QAM	25	25	17.48	17.50	17.65	17.53	17.63	17.55		
10	256QAM	50	0	17.73	17.71	17.85	17.83	17.78	17.73		
Channel				39715	39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	18.67	18.52	18.75	18.75	18.84	18.76	19.80	0
5	QPSK	1	12	18.62	18.69	18.58	18.57	18.69	18.68		
5	QPSK	1	24	18.80	18.60	18.68	18.62	18.74	18.57		
5	QPSK	12	0	18.64	18.49	18.45	18.74	18.47	18.45	19.8	0
5	QPSK	12	7	18.42	18.55	18.48	18.50	18.46	18.57		
5	QPSK	12	13	18.65	18.53	18.50	18.56	18.49	18.53		
5	QPSK	25	0	18.47	18.81	18.60	18.82	18.55	18.67		
5	16QAM	1	0	18.70	18.49	18.66	18.86	18.63	18.75	19.8	0
5	16QAM	1	12	18.69	18.54	18.47	18.59	18.59	18.57		
5	16QAM	1	24	18.79	18.47	18.65	18.70	18.67	18.45		
5	16QAM	12	0	18.56	18.29	18.43	18.71	18.35	18.47	19.8	0
5	16QAM	12	7	18.47	18.62	18.41	18.52	18.57	18.62		
5	16QAM	12	13	18.57	18.44	18.46	18.39	18.45	18.55		
5	16QAM	25	0	18.37	18.63	18.51	18.67	18.48	18.63		
5	64QAM	1	0	18.63	18.65	18.63	18.85	18.84	18.55	19.8	0
5	64QAM	1	12	18.61	18.62	18.46	18.55	18.71	18.57		
5	64QAM	1	24	18.70	18.62	18.66	18.57	18.74	18.46		
5	64QAM	12	0	18.64	18.37	18.37	18.66	18.40	18.40	19.8	0
5	64QAM	12	7	18.44	18.56	18.51	18.42	18.40	18.55		
5	64QAM	12	13	18.57	18.56	18.44	18.45	18.49	18.57		
5	64QAM	25	0	18.47	18.69	18.51	18.55	18.50	18.61		