

Full&Default Power Mode/Reduced Power Mode for DSI2&3&4

GSM850 Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	126	186	251	126	186	251	
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8		
GSM 1 Tx slot	31.26	31.56	31.54	32.50	22.26	22.56	22.54	23.50
GPRS 1 Tx slot	31.19	31.64	31.62	32.50	22.19	22.64	22.62	23.50
GPRS 2 Tx slots	28.02	28.16	28.32	29.00	22.02	22.16	22.32	23.00
GPRS 3 Tx slots	26.62	26.42	26.46	27.50	22.36	22.16	22.20	23.24
GPRS 4 Tx slots	25.03	25.19	25.36	26.00	22.03	22.19	22.36	23.00
EDGE 1 Tx slot	25.36	25.31	25.32	26.00	16.36	16.31	16.32	17.00
EDGE 2 Tx slots	22.78	22.72	22.73	23.50	16.78	16.72	16.73	17.50
EDGE 3 Tx slots	20.75	20.77	20.93	22.00	16.49	16.51	16.67	17.74
EDGE 4 Tx slots	19.09	18.93	19.16	20.00	16.09	15.93	16.16	17.00

GSM1800 Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	512	661	810	512	661	810	
Frequency (MHz)	1850.2	1860	1868.8	1850.2	1860	1868.8		
GSM 1 Tx slot	29.11	29.26	29.16	30.50	20.11	20.26	20.16	21.50
GPRS 1 Tx slot	28.88	29.28	29.27	30.50	19.88	20.28	20.27	21.50
GPRS 2 Tx slots	26.31	26.61	26.61	27.50	20.31	20.61	20.61	21.50
GPRS 3 Tx slots	24.42	24.54	24.50	26.00	20.16	20.28	20.34	21.74
GPRS 4 Tx slots	22.27	22.37	22.48	23.50	19.27	19.37	19.48	20.50
EDGE 1 Tx slot	24.91	25.07	25.02	26.50	15.91	16.07	16.02	17.50
EDGE 2 Tx slots	22.47	22.67	22.53	24.00	16.47	16.67	16.53	18.00
EDGE 3 Tx slots	20.34	20.71	20.71	22.00	16.06	16.45	16.45	17.74
EDGE 4 Tx slots	18.66	19.07	19.93	20.50	15.66	16.07	15.93	17.50

Band	WCDMA 8 Ant 0			Tune-up Limit (dBm)	WCDMA 19 Ant 0			Tune-up Limit (dBm)	WCDMA 5 Ant 0			Tune-up Limit (dBm)
	TX Channel	9262	9400	9538	1312	1413	1513		4132	4162	4233	
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1552.4	1560	1567.6		1712.4	1723.8	1732.8		806.4	806.4	806.6	
3GPP Rel 99 RMC 12.2Kbps	22.60	22.89	22.77	24.00	22.63	22.66	22.40	24.00	22.94	22.98	22.97	24.00
3GPP Rel 99 RMC 12.2Kbps	22.80	23.00	22.83	24.00	22.65	22.76	22.60	24.00	23.05	23.09	23.00	24.00
3GPP Rel 6 HSDPA Subtest-1	21.72	22.10	21.87	23.00	21.76	21.85	21.69	23.00	22.04	22.11	21.85	23.00
3GPP Rel 6 HSDPA Subtest-2	21.81	21.98	21.89	23.00	21.59	21.81	21.48	23.00	22.15	21.99	22.03	23.00
3GPP Rel 6 HSDPA Subtest-3	21.41	21.62	21.41	22.50	20.98	21.27	20.93	22.50	21.49	21.48	21.42	22.50
3GPP Rel 6 HSDPA Subtest-4	21.29	21.49	21.21	22.50	21.19	21.20	20.94	22.50	21.59	21.46	21.65	22.50
3GPP Rel 6 HSUPA Subtest-1	21.66	21.85	21.81	23.00	21.43	21.66	21.29	23.00	22.05	22.12	21.94	23.00
3GPP Rel 6 HSUPA Subtest-2	20.75	20.92	20.73	21.00	19.66	19.78	19.47	21.00	19.96	19.96	20.03	21.00
3GPP Rel 6 HSUPA Subtest-3	20.62	21.03	20.96	22.00	20.59	20.68	20.36	22.00	20.90	21.22	20.89	22.00
3GPP Rel 6 HSUPA Subtest-4	19.71	19.95	19.94	21.00	19.66	19.88	19.55	21.00	20.13	20.07	19.85	21.00
3GPP Rel 6 HSUPA Subtest-5	21.89	22.01	21.88	23.00	21.36	21.74	21.34	23.00	21.89	21.92	22.13	23.00
3GPP Rel 7 HSUPA+ (HSDPA) Subtest-1	19.36	19.71	19.58	20.50	19.06	19.44	19.04	20.50	19.59	19.62	19.63	20.50

Band 2 Ant 0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	APR3 (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.31	22.41	22.29			24	0		
20	QPSK	1	49	22.37	22.47	22.35						
20	QPSK	1	99	22.34	22.39	22.38						
20	QPSK	50	0	21.29	21.44	21.33						
20	QPSK	50	24	21.34	21.29	21.38			23	1		
20	QPSK	50	50	21.37	21.41	21.32						
20	QPSK	100	0	21.32	21.35	21.28						
20	16QAM	50	0	21.29	21.38	21.29						
20	16QAM	1	49	21.36	21.32	21.34			23	1		
20	16QAM	1	99	21.32	21.36	21.35						
20	16QAM	50	0	20.37	20.37	20.36						
20	16QAM	50	24	20.29	20.39	20.36						
20	16QAM	50	50	20.36	20.28	20.34			22	2		
20	16QAM	100	0	20.37	20.36	20.32						
20	84QAM	1	0	20.37	20.27	20.33						
20	84QAM	1	49	20.32	20.28	20.34			22	2		
20	84QAM	1	99	20.37	20.37	20.36						
20	84QAM	50	0	19.39	19.29	19.39						
20	84QAM	50	24	19.33	19.27	19.32			21	3		
20	84QAM	50	50	19.28	19.33	19.31						
20	84QAM	100	0	19.34	19.36	19.30						
20	84QAM	100	0	19.33	19.36	19.31						
20	256QAM	1	49	18.40	18.35	18.40			19	5		
20	256QAM	1	99	18.39	18.33	18.38						
20	256QAM	50	0	18.37	18.34	18.36						
20	256QAM	50	24	18.36	18.41	18.39						
20	256QAM	50	50	18.31	18.29	18.31			19	5		
20	256QAM	100	0	18.35	18.30	18.32						
Channel <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th>												
Frequency (MHz)												
18	QPSK	1	37	22.17	22.34	22.22			24	0		
18	QPSK	1	37	22.30	22.30	22.30						
18	QPSK	1	74	22.21	22.27	22.24						
18	QPSK	36	0	21.25	21.31	21.25						
18	QPSK	36	0	21.27	21.24	21.31			23	1		
18	QPSK	36	39	21.23	21.33	21.22						
18	QPSK	75	0	21.21	21.24	21.23						
18	QPSK	1	74	21.25	21.25	21.25						
18	16QAM	1	37	21.22	21.19	21.25			23	1		
18	16QAM	1	74	21.24	21.24	21.23						
18	16QAM	36	0	20.19	20.28	20.31						
18	16QAM	36	20	20.23	20.25	20.27						
18	16QAM	36	20	20.23	20.25	20.27			22	2		
18	16QAM	75	0	20.32	20.28	20.26						
18	84QAM	1	0	20.25	20.14	20.20						
18	84QAM	1	37	20.32	20.15	20.24						
18	84QAM	1	74	20.22	20.27	20.20			21	3		
18	84QAM	36	0	19.35	19.14	19.25						
18	84QAM	36	20	19.34	19.17	19.26						
18	84QAM	36	39	19.25	19.25	19.25						
18	84QAM	75	0	19.26	19.30	19.18			19	5		
18	256QAM	1	0	18.35	18.30	18.34						
18	256QAM	1	37	18.34	18.31	18.31						
18	256QAM	1	74	18.31	18.25	18.31						
18	256QAM	36	0	18.35	18.30	18.34			19	5		
18	256QAM	36	20	18.27	18.35	18.22						
18	256QAM	36	39	18.28	18.18	18.25						
18	256QAM	75	0	18.25	18.30	18.28						
Channel												
Frequency (MHz)												
18	QPSK	1	0	22.31	22.38	22.34			24	0		
18	QPSK	1	25	22.31	22.28	22.24						
18	QPSK	1	49	22.24	22.25	22.23						
18	QPSK	36	0	21.29	21.36	21.27						
18	QPSK	25	12	21.24	21.22	21.26			23	1		
18	QPSK	25	25	21.30	21.31	21.28						
18	QPSK	36	0	21.28	21.30	21.29						
18	16QAM	1	0	21.17	21.31	21.34						
18	16QAM	1	26	21.32	21.22	21.20			23	1		
18	16QAM	1	49	21.34	21.29	21.30						
18	16QAM	25	0	20.24	20.24	20.20						
18	16QAM	25	12	20.22	20.30	20.31						
18	16QAM	36	0	20.33	20.23	20.23			22	2		
18	16QAM	50	0	20.31	20.33	20.25						
18	84QAM	1	0	20.23	20.15	20.20						
18	84QAM	1	24	20.27	20.15	20.20						
18	84QAM	1	49	20.33	20.25	20.30			21	3		
18	84QAM	25	0	19.25	19.26	19.30						
18	84QAM	25	12	19.22	19.26	19.24						
18	84QAM	25	25	19.18	19.27	19.20						
18	84QAM	50	0	19.21	19.26	19.20			19	5		
18	256QAM	1	49	18.21	18.24	18.31						
18	256QAM	1	26	18.31	18.23	18.36						
18	256QAM	1	49	18.30	18.30	18.28						
18	256QAM	25	0	18.15	18.27	18.25			19	5		
18	256QAM	25	12	18.23	18.36	18.26						
18	256QAM	25	25	18.19	18.24	18.26						
18	256QAM	50	0	18.28	18.27	18.27						
Channel												
Frequency (MHz)												
18	QPSK	1	0	22.31	22.37	22.25			24	0		
18	QPSK	1	12	22.33	22.24	22.14						
18	QPSK	1	24	22.24	22.32	22.14						
18	QPSK	12	0	21.15	21.32	21.30						
18	QPSK	12	7	21.22	21.21	21.34			23	1		
18	QPSK	12	13	21.30	21.26	21.27						
18	QPSK	20	0	21.18	21.24	21.31						
18	16QAM	1	0	21.25	21.29	21.36						
18	16QAM	1	12	21.22	21.19	21.23			23	1		
18	16QAM	1	24	21.24	21.26	21.23						
18	16QAM	12	0	20.24	20.26	20.25						
18	16QAM	12	7	20.21	20.33	20.23						
18	16QAM	12	13	20.28	20.27	20.25			22	2		
18	16QAM	25	0	20.30	20.27	20.24						
18	84QAM	1	0	20.25	20.14	20.21						
18	84QAM	1	12	20.25	20.17	20.25						
18	84QAM	1	24	20.33	20.26	20.25			21	3		
18	84QAM	12	0	19.32	19.23	19.35						
18	84QAM	12	7	19.20	19.13	19.24						
18	84QAM	12	13	19.25	19.29	19.24						
18	84QAM	25	0	19.26	19.22	19.32			19	5		
18	256QAM	1	0	18.20	18.30	18.28						
18	256QAM	1	12	18.37	18.23	18.34						
18	256QAM	1	24	18.33	18.21	18.32						
18	256QAM	12	0	18.13	18.26	18.27			19	5		
18	256QAM	12	7	18.24	18.30	18.25						
18	256QAM	12	13	18.21	18.24	18.32						
18	256QAM	25	0	18.26	18.30	18.34						
Channel												
Frequency (MHz)												
3	QPSK	1	0	22.17	22.37	22.25			24	0		
3	QPSK	1	8	22.29	22.24	22.02						
3	QPSK	1	14	22.24	22.25	22.16						
3	QPSK	8	0	21.14	21.33	21.38						
3	QPSK	8	4	21.24	21.23	21.35			23	1		
3	QPSK	8	7	21.25	21.36	21.25						
3	QPSK	15	0	21.22	21.27	21.25						
3	16QAM	1	0	21.14	21.25	21.28						
3	16QAM	1	8	21.23	21.22	21.23			23	1		
3												

Band 12 Ant 0														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turnup time (s)	MPE (dB)						
Channel														
Frequency (MHz)														
10	QPSK	1	0	22.49	22.57	22.48	24	0						
10	QPSK	1	24	22.48	22.51	22.25								
10	QPSK	1	48	22.54	22.49	22.43								
10	QPSK	25	0	21.30	21.50	21.45								
10	QPSK	25	12	21.48	21.48	21.35	23	1						
10	QPSK	25	25	21.39	21.30	21.49								
10	QPSK	50	0	21.36	21.44	21.30								
10	16QAM	50	0	21.54	21.45	21.38								
10	16QAM	1	24	21.66	21.63	21.59	23	1						
10	16QAM	1	48	21.53	21.57	21.69								
10	16QAM	25	0	20.48	20.51	20.43								
10	16QAM	25	12	20.40	20.45	20.34								
10	16QAM	25	25	20.39	20.38	20.42	22	2						
10	16QAM	50	0	20.41	20.53	20.51								
10	64QAM	1	0	20.34	20.50	20.38								
10	64QAM	1	24	20.59	20.39	20.38								
10	64QAM	1	48	20.34	20.51	20.40	21	3						
10	64QAM	25	0	19.46	19.49	19.37								
10	64QAM	25	12	19.42	19.28	19.43								
10	64QAM	25	25	19.43	19.45	19.53								
10	64QAM	50	0	19.45	19.56	19.52	19	5						
10	256QAM	1	0	17.47	17.50	17.35								
10	256QAM	1	24	17.60	17.57	17.51								
10	256QAM	1	48	17.49	17.42	17.57								
10	256QAM	25	0	17.36	17.49	17.38	19	5						
10	256QAM	25	12	17.53	17.59	17.51								
10	256QAM	25	25	17.66	17.57	17.61								
10	256QAM	50	0	17.60	17.69	17.62								
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.41	22.45	22.38	24	0						
5	QPSK	1	12	22.37	22.38	22.18								
5	QPSK	1	24	22.41	22.38	22.28								
5	QPSK	12	0	21.15	21.35	21.37								
5	QPSK	12	7	21.33	21.36	21.27	23	1						
5	QPSK	12	13	21.32	21.19	21.34								
5	QPSK	25	0	21.22	21.31	21.18								
5	16QAM	1	0	21.43	21.33	21.53								
5	16QAM	1	12	21.54	21.54	21.51	23	1						
5	16QAM	1	24	21.47	21.50	21.61								
5	16QAM	12	0	20.39	20.41	20.31								
5	16QAM	12	7	20.31	20.36	20.45								
5	16QAM	12	13	20.32	20.32	20.35	22	2						
5	16QAM	25	0	20.29	20.42	20.45								
5	64QAM	1	0	20.25	20.37	20.30								
5	64QAM	1	12	20.30	20.30	20.30								
5	64QAM	1	24	20.26	20.41	20.31	21	3						
5	64QAM	12	0	19.36	19.23	19.25								
5	64QAM	12	13	19.33	19.30	19.44								
5	64QAM	12	13	19.40	19.43	19.39								
5	256QAM	1	0	17.36	17.49	17.34	19	5						
5	256QAM	1	12	17.49	17.47	17.51								
5	256QAM	1	24	17.40	17.31	17.47								
5	256QAM	12	0	17.46	17.52	17.44								
5	256QAM	12	7	17.43	17.52	17.49								
5	256QAM	12	13	17.45	17.47	17.51								
5	256QAM	25	0	17.46	17.50	17.50								
Channel														
Frequency (MHz)														
3	QPSK	1	0	22.42	22.48	22.39	24	0						
3	QPSK	1	8	22.39	22.41	22.19								
3	QPSK	1	14	22.42	22.38	22.30								
3	QPSK	8	0	21.16	21.36	21.36								
3	QPSK	8	7	21.37	21.38	21.31	23	1						
3	QPSK	8	7	21.32	21.21	21.33								
3	QPSK	16	0	21.23	21.30	21.20								
3	16QAM	1	0	21.49	21.37	21.57								
3	16QAM	1	8	21.67	21.56	21.48	23	1						
3	16QAM	1	16	21.46	21.51	21.59								
3	16QAM	8	0	20.39	20.43	20.31								
3	16QAM	8	4	20.29	20.38	20.43								
3	16QAM	15	0	20.35	20.30	20.36	22	2						
3	64QAM	1	0	20.27	20.45	20.45								
3	64QAM	1	0	20.24	20.42	20.30								
3	64QAM	1	8	20.40	20.34	20.31								
3	64QAM	1	14	20.25	20.39	20.30	21	3						
3	64QAM	8	0	19.37	19.43	19.27								
3	64QAM	8	4	19.32	19.22	19.36								
3	64QAM	8	7	19.31	19.33	19.40								
3	64QAM	15	0	19.39	19.42	19.38	19	5						
3	256QAM	1	0	17.38	17.41	17.34								
3	256QAM	1	8	17.51	17.49	17.53								
3	256QAM	1	14	17.37	17.29	17.44								
3	256QAM	8	0	17.52	17.54	17.56	19	5						
3	256QAM	8	4	17.40	17.50	17.46								
3	256QAM	8	7	17.52	17.46	17.55								
3	256QAM	15	0	17.44	17.50	17.48								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	22.33	22.43	22.39	24	0						
1.4	QPSK	1	3	22.37	22.41	22.17								
1.4	QPSK	1	5	22.43	22.38	22.29								
1.4	QPSK	3	0	22.42	22.44	22.40								
1.4	QPSK	3	1	22.36	22.40	22.17	23	1						
1.4	QPSK	3	3	22.38	22.38	22.30								
1.4	QPSK	6	0	21.24	21.29	21.20								
1.4	16QAM	1	0	21.44	21.36	21.55								
1.4	16QAM	1	3	21.68	21.54	21.51	23	1						
1.4	16QAM	1	5	21.42	21.51	21.59								
1.4	16QAM	3	0	21.17	21.35	21.35								
1.4	16QAM	3	1	21.36	21.36	21.27								
1.4	16QAM	6	0	20.31	20.44	20.44	22	2						
1.4	64QAM	1	0	20.27	20.39	20.38								
1.4	64QAM	1	3	20.44	20.28	20.30								
1.4	64QAM	1	5	20.23	20.42	20.29								
1.4	64QAM	3	0	20.36	20.41	20.32	21	3						
1.4	64QAM	3	1	20.31	20.34	20.43								
1.4	64QAM	3	3	20.34	20.30	20.36								
1.4	64QAM	6	0	19.40	19.45	19.39								
1.4	256QAM	1	0	17.34	17.50	17.40	19	5						
1.4	256QAM	1	3	17.52	17.49	17.49								
1.4	256QAM	1	5	17.38	17.27	17.45								
1.4	256QAM	3	0	17.50	17.50	17.61								
1.4	256QAM	3	1	17.42	17.53	17.46	19	5						
1.4	256QAM	3	3	17.34	17.44	17.52								
1.4	256QAM	6	0	17.47	17.49	17.51								

Band 26 Ant 0												
BM [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up Int. (dB)	APR3 (dB)				
Channel												
Frequency (MHz)				821.5	831.5	841.5						
15	QPSK	1	0	22.60	22.66	22.61	24	0				
15	QPSK	1	37	22.59	22.61	22.62						
15	QPSK	1	74	22.60	22.59	22.63						
15	QPSK	36	0	21.63	21.68	21.64						
15	QPSK	36	20	21.62	21.64	21.64	23	1				
15	QPSK	36	36	21.63	21.65	21.64						
15	QPSK	75	0	21.66	21.67	21.62						
15	16QAM	1	0	21.61	21.62	21.65						
15	16QAM	1	37	21.61	21.61	21.65	23	1				
15	16QAM	1	74	21.66	21.65	21.63						
15	16QAM	36	0	20.63	20.62	20.61						
15	16QAM	36	20	20.63	20.59	20.59						
15	16QAM	36	36	20.64	20.69	20.63	22	2				
15	16QAM	75	0	20.61	20.64	20.61						
15	16QAM	1	0	20.65	20.64	20.63						
15	16QAM	1	37	20.63	20.65	20.64						
15	16QAM	1	74	20.65	20.64	20.62	22	2				
15	16QAM	36	0	19.60	19.62	19.63						
15	16QAM	36	20	19.65	19.61	19.63						
15	16QAM	36	36	19.63	19.64	19.61						
15	16QAM	75	0	19.64	19.60	19.61	21	3				
15	16QAM	1	0	19.63	19.66	19.64						
15	16QAM	1	37	19.60	19.61	19.62						
15	256QAM	1	74	18.65	18.65	18.60						
15	256QAM	36	0	18.62	18.65	18.64	19	5				
15	256QAM	36	20	18.62	18.65	18.62						
15	256QAM	36	36	18.62	18.65	18.65						
15	256QAM	75	0	18.65	18.62	18.65						
Channel												
Frequency (MHz)				819	831.5	844	Turn-up Int. (dB)	APR3 (dB)				
10	QPSK	1	0	22.47	22.52	22.52	24	0				
10	QPSK	1	24	22.49	22.54	22.52						
10	QPSK	1	49	22.47	22.47	22.56						
10	QPSK	26	0	21.53	21.50	21.52						
10	QPSK	26	12	21.50	21.52	21.53	23	1				
10	QPSK	26	25	21.51	21.55	21.57						
10	QPSK	50	0	21.55	21.54	21.56						
10	16QAM	1	0	21.52	21.53	21.58						
10	16QAM	1	25	21.52	21.49	21.56	23	1				
10	16QAM	1	49	21.54	21.56	21.54						
10	16QAM	25	0	20.52	20.51	20.49						
10	16QAM	25	12	20.52	20.51	20.55						
10	16QAM	50	0	20.48	20.52	20.51	22	2				
10	16QAM	1	0	20.53	20.51	20.54						
10	16QAM	1	25	20.55	20.55	20.52						
10	16QAM	1	49	20.53	20.54	20.53						
10	16QAM	25	0	19.49	19.55	19.51	21	3				
10	16QAM	25	12	19.48	19.54	19.51						
10	16QAM	25	25	19.51	19.52	19.54						
10	16QAM	50	0	19.52	19.51	19.54						
10	256QAM	1	0	18.54	18.54	18.53	19	5				
10	256QAM	1	25	18.48	18.52	18.51						
10	256QAM	1	49	18.57	18.56	18.50						
10	256QAM	25	0	18.51	18.57	18.53						
10	256QAM	25	12	18.55	18.58	18.50	19	5				
10	256QAM	25	25	18.55	18.54	18.55						
10	256QAM	50	0	18.49	18.54	18.55						
10	256QAM	50	0	18.53	18.52	18.58						
Channel												
Frequency (MHz)				816.5	831.5	846.5	Turn-up Int. (dB)	APR3 (dB)				
5	QPSK	1	0	22.50	22.52	22.54	24	0				
5	QPSK	1	12	22.48	22.52	22.57						
5	QPSK	1	24	22.50	22.48	22.53						
5	QPSK	12	0	21.52	21.53	21.57						
5	QPSK	12	13	21.51	21.52	21.53	23	1				
5	QPSK	26	0	21.52	21.53	21.56						
5	16QAM	1	0	21.52	21.51	21.52						
5	16QAM	1	12	21.52	21.51	21.56						
5	16QAM	1	24	21.46	21.58	21.54	23	1				
5	16QAM	12	0	20.52	20.51	20.54						
5	16QAM	12	7	20.54	20.50	20.53						
5	16QAM	12	18	20.56	20.53	20.55						
5	16QAM	25	0	20.54	20.57	20.51	22	2				
5	16QAM	1	0	20.58	20.54	20.52						
5	16QAM	1	12	20.51	20.54	20.53						
5	16QAM	1	24	20.57	20.55	20.52						
5	16QAM	12	0	19.49	19.50	19.54	21	3				
5	16QAM	12	7	19.55	19.51	19.54						
5	16QAM	12	13	19.52	19.56	19.49						
5	16QAM	25	0	19.51	19.52	19.49						
5	256QAM	1	0	18.48	18.53	18.53	19	5				
5	256QAM	1	12	18.51	18.49	18.55						
5	256QAM	1	24	18.52	18.55	18.51						
5	256QAM	12	0	18.54	18.58	18.54						
5	256QAM	12	7	18.52	18.58	18.53	19	5				
5	256QAM	12	13	18.51	18.54	18.55						
5	256QAM	25	0	18.54	18.51	18.53						
5	256QAM	25	0	18.54	18.51	18.53						
Channel												
Frequency (MHz)				816.5	831.5	847.5	Turn-up Int. (dB)	APR3 (dB)				
3	QPSK	1	0	22.48	22.53	22.54	24	0				
3	QPSK	1	8	22.51	22.51	22.53						
3	QPSK	1	14	22.52	22.47	22.54						
3	QPSK	8	0	21.51	21.54	21.52						
3	QPSK	8	4	21.52	21.56	21.54	23	1				
3	QPSK	8	7	21.51	21.57	21.54						
3	QPSK	16	0	21.58	21.58	21.54						
3	16QAM	1	0	21.48	21.52	21.52						
3	16QAM	1	8	21.48	21.48	21.58	23	1				
3	16QAM	1	14	21.59	21.57	21.51						
3	16QAM	8	0	20.54	20.50	20.50						
3	16QAM	8	4	20.56	20.49	20.56						
3	16QAM	8	7	20.55	20.57	20.50	22	2				
3	16QAM	16	0	20.52	20.54	20.48						
3	16QAM	1	0	20.55	20.52	20.50						
3	16QAM	1	8	20.51	20.55	20.52						
3	16QAM	1	14	20.58	20.54	20.52	21	3				
3	16QAM	8	0	19.52	19.52	19.54						
3	16QAM	8	4	19.57	19.52	19.52						
3	16QAM	8	7	19.56	19.52	19.53						
3	16QAM	16	0	19.51	19.49	19.53	19	5				
3	256QAM	1	0	18.53	18.58	18.51						
3	256QAM	1	8	18.51	18.52	18.51						
3	256QAM	1	14	18.52	18.55	18.46						
3	256QAM	8	0	18.54	18.58	18.52	19	5				
3	256QAM	8	4	18.51	18.53	18.52						
3	256QAM	8	7									

GSM850 Ant 1		Burst Average Power (dbm)			Turn-up Limit (dbm)	Frame-Average Power (dbm)			Turn-up Limit (dbm)
TX Channel		126	189	251		191	189	231	
Frequency (MHz)		834.2	836.4	848.8		834.2	836.4	848.8	
GSM 1 Tx slot		33.49	33.76	33.76	35.00	24.49	24.76	24.76	26.00
GPRS 1 Tx slot		33.42	33.65	33.62	35.00	24.42	24.65	24.62	26.00
GPRS 2 Tx slots		30.44	30.69	30.46	32.00	24.44	24.69	24.46	26.00
GPRS 3 Tx slots		26.51	26.75	26.73	30.00	24.25	24.49	24.47	25.74
GPRS 4 Tx slots		27.48	27.48	27.76	28.50	24.48	24.48	24.76	25.50
EDGE 1 Tx slot		27.76	27.60	27.59	28.50	18.76	18.60	18.59	19.50
EDGE 2 Tx slots		23.02	24.36	25.16	26.00	18.02	18.96	18.16	20.00
EDGE 3 Tx slots		22.97	22.69	23.31	24.00	18.71	18.63	19.05	19.74
EDGE 4 Tx slots		21.34	21.33	21.55	22.50	18.34	18.33	18.55	19.50

Band		WCDMA V Ant 1			Turn-up Limit (dbm)
TX Channel		4192	4182	4233	
Rx Channel		4357	4407	4458	
Frequency (MHz)		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	22.55	22.54	22.53	24.00
3GPP Rel 99	AMR 12.2Kbps	22.58	22.55	22.57	24.00
3GPP Rel 6	HSDPA Subtest-1	21.89	21.63	21.64	22.50
3GPP Rel 6	HSDPA Subtest-2	21.66	21.58	21.61	22.50
3GPP Rel 6	HSDPA Subtest-3	21.16	21.08	21.09	22.00
3GPP Rel 6	HSDPA Subtest-4	21.16	21.11	21.14	22.00
3GPP Rel 6	HSPA Subtest-1	21.54	21.67	21.56	22.50
3GPP Rel 6	HSPA Subtest-2	19.47	19.66	19.51	20.50
3GPP Rel 6	HSPA Subtest-3	20.68	20.53	20.48	21.50
3GPP Rel 6	HSPA Subtest-4	19.47	19.61	19.49	20.50
3GPP Rel 6	HSPA Subtest-5	21.68	21.53	21.48	22.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.28	19.13	19.08	20.00

Band 5 Ant 1												
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)				830	836.5	844						
10	QPSK	1	0	22.17	22.21	22.09	24	0				
10	QPSK	1	25	22.05	22.03	22.00						
10	QPSK	1	49	22.05	22.14	22.13						
10	QPSK	25	0	21.21	21.26	21.24	23	1				
10	QPSK	25	12	21.25	21.10	21.17						
10	QPSK	25	25	21.22	21.11	21.17						
10	QPSK	50	0	21.12	21.29	21.19	23	1				
10	16QAM	1	0	21.23	21.05	21.10						
10	16QAM	1	25	21.22	21.12	21.25						
10	16QAM	1	49	21.08	21.25	21.20	22	2				
10	16QAM	25	0	20.16	20.07	20.18						
10	16QAM	25	12	20.05	20.19	20.20						
10	16QAM	25	25	20.09	20.19	20.22	22	2				
10	16QAM	50	0	20.13	20.27	20.16						
10	64QAM	1	0	20.09	20.28	20.13						
10	64QAM	1	25	20.13	20.11	20.27	22	2				
10	64QAM	1	49	20.04	20.20	20.14						
10	64QAM	25	0	19.05	19.04	19.20						
10	64QAM	25	12	19.05	19.07	19.21	21	3				
10	64QAM	25	25	19.13	19.00	19.03						
10	64QAM	50	0	19.20	19.19	19.03						
10	256QAM	1	0	17.05	17.04	17.15	19	5				
10	256QAM	1	25	17.03	17.15	17.13						
10	256QAM	1	49	17.06	17.01	17.03						
10	256QAM	25	0	17.11	17.23	17.02	19	5				
10	256QAM	25	12	17.01	17.02	17.14						
10	256QAM	25	25	17.10	17.01	17.23						
10	256QAM	50	0	17.11	17.16	17.01						
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				836.5	836.5	846.5						
5	QPSK	1	0	22.19	22.17	22.11	24	0				
5	QPSK	1	12	22.07	22.01	22.01						
5	QPSK	1	24	22.03	22.14	22.15						
5	QPSK	12	0	21.20	21.23	21.21	23	1				
5	QPSK	12	7	21.26	21.12	21.14						
5	QPSK	12	13	21.19	21.08	21.19						
5	QPSK	25	0	21.13	21.31	21.19	23	1				
5	16QAM	1	0	21.21	21.03	21.13						
5	16QAM	1	12	21.24	21.12	21.23						
5	16QAM	1	24	21.09	21.24	21.18	22	2				
5	16QAM	12	0	20.13	20.08	20.18						
5	16QAM	12	7	20.02	20.21	20.07						
5	16QAM	12	13	20.08	20.19	20.20	22	2				
5	16QAM	25	0	20.12	20.24	20.18						
5	16QAM	1	0	20.06	20.30	20.10						
5	64QAM	1	12	20.14	20.12	20.26	22	2				
5	64QAM	1	24	20.05	20.21	20.11						
5	64QAM	12	0	19.05	19.03	19.19						
5	64QAM	12	7	19.06	19.07	19.18	21	3				
5	64QAM	12	13	19.07	19.06	19.12						
5	64QAM	25	0	19.21	19.18	19.02						
5	256QAM	1	0	17.03	17.06	17.13	19	5				
5	256QAM	1	12	17.11	17.17	17.11						
5	256QAM	1	24	17.08	17.02	17.01						
5	256QAM	12	0	17.09	17.23	17.04	19	5				
5	256QAM	12	7	17.07	17.03	17.15						
5	256QAM	12	13	17.19	17.21	17.21						
5	256QAM	25	0	17.09	17.16	17.01						
Channel				825.5	836.5	847.5	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				825.5	836.5	847.5						
3	QPSK	1	0	22.16	22.17	22.10	24	0				
3	QPSK	1	8	22.02	22.02	22.01						
3	QPSK	1	14	22.07	22.15	22.16						
3	QPSK	8	0	21.23	21.24	21.23	23	1				
3	QPSK	8	4	21.26	21.11	21.16						
3	QPSK	8	7	21.23	21.11	21.18						
3	QPSK	15	0	21.09	21.28	21.18	23	1				
3	16QAM	1	0	21.20	21.05	21.10						
3	16QAM	1	8	21.22	21.14	21.22						
3	16QAM	1	14	21.09	21.25	21.20	22	2				
3	16QAM	8	0	20.17	20.06	20.16						
3	16QAM	8	4	20.05	20.20	20.07						
3	16QAM	8	7	20.07	20.18	20.24	22	2				
3	16QAM	15	0	20.14	20.27	20.15						
3	64QAM	1	0	20.08	20.30	20.14						
3	64QAM	1	8	20.12	20.13	20.27	22	2				
3	64QAM	1	14	20.06	20.20	20.12						
3	64QAM	8	0	19.06	19.02	19.19						
3	64QAM	8	4	19.03	19.05	19.20	21	3				
3	64QAM	8	7	19.15	19.02	19.04						
3	64QAM	15	0	19.22	19.16	19.03						
3	256QAM	1	0	17.07	17.06	17.14	19	5				
3	256QAM	1	8	17.03	17.14	17.13						
3	256QAM	1	14	17.07	17.01	17.02						
3	256QAM	8	0	17.13	17.21	17.00	19	5				
3	256QAM	8	4	17.03	17.01	17.12						
3	256QAM	8	7	17.21	17.20	17.22						
3	256QAM	15	0	17.13	17.17	17.01	19	5				
Channel				20407	20525	20643			Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				824.7	836.5	848.3						
14	QPSK	1	0	22.17	22.14	22.09	24	0				
14	QPSK	1	3	22.06	22.04	22.02						
14	QPSK	1	5	22.05	22.13	22.14						
14	QPSK	3	0	22.17	22.18	22.11	23	1				
14	QPSK	3	1	22.04	22.02	22.01						
14	QPSK	3	3	22.05	22.15	22.15						
14	QPSK	6	0	21.09	21.30	21.19	23	1				
14	16QAM	1	0	21.25	21.03	21.07						
14	16QAM	1	3	21.19	21.09	21.25						
14	16QAM	1	5	21.06	21.23	21.22	22	2				
14	16QAM	3	0	21.23	21.26	21.24						
14	16QAM	3	1	21.27	21.08	21.20						
14	16QAM	3	3	21.24	21.09	21.17	22	2				
14	16QAM	6	0	20.15	20.26	20.18						
14	64QAM	1	0	20.07	20.27	20.15						
14	64QAM	3	0	20.17	20.07	20.16	22	2				
14	64QAM	3	1	20.02	20.21	20.02						
14	64QAM	3	3	20.06	20.21	20.21						
14	64QAM	6	0	19.20	19.18	19.03	21	3				
14	256QAM	1	0	17.07	17.04	17.18						
14	256QAM	1	3	17.04	17.12	17.12						
14	256QAM	1	5	17.04	17.02	17.00	19	5				
14	256QAM	3	0	17.10	17.20	17.02						
14	256QAM	3	1	17.13	17.17	17.17						

Band 17 Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low		Power Middle		Power High		Tune-up limit (dbm)	MPR (db)
				Ch. / Freq.	23750	Ch. / Freq.	23750	Ch. / Freq.	23850		
Channel				709		710		711		Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				23750		23750		23850			
10	QPSK	1	0	21.81	21.82	21.73				23	0
10	QPSK	1	25	21.60	21.65	21.54					
10	QPSK	1	49	21.59	21.73	21.73					
10	QPSK	25	0	20.84	20.88	20.83					
10	QPSK	25	12	20.82	20.80	20.78					
10	QPSK	25	25	20.87	20.83	20.85				22	1
10	QPSK	50	0	20.70	20.81	20.76					
10	16QAM	1	0	20.69	20.77	20.87					
10	16QAM	1	25	20.86	20.74	20.76					
10	16QAM	1	49	20.77	20.78	20.75					
10	16QAM	25	0	19.82	19.97	19.94				21	2
10	16QAM	25	12	19.92	19.95	19.96					
10	16QAM	25	25	19.82	19.82	19.78					
10	16QAM	50	0	19.79	19.77	19.97					
10	64QAM	1	0	19.92	19.80	19.81					
10	64QAM	1	25	19.95	19.76	19.86				21	2
10	64QAM	1	49	19.77	19.88	19.89					
10	64QAM	25	0	18.75	18.83	18.80					
10	64QAM	25	12	18.82	18.85	18.90					
10	64QAM	25	25	18.93	18.80	18.95					
10	64QAM	50	0	18.80	18.94	18.88				20	3
10	256QAM	1	0	16.71	16.83	16.87					
10	256QAM	1	25	16.81	17.01	16.97					
10	256QAM	1	49	17.01	16.79	17.07					
10	256QAM	25	0	16.71	17.06	16.79					
10	256QAM	25	12	16.80	16.84	16.74				18	5
10	256QAM	25	25	16.78	16.94	16.96					
10	256QAM	50	0	17.02	16.78	17.06					
Channel				23755		23790		23825		Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				706.5		710		713.5			
5	QPSK	1	0	21.78	21.79	21.74				23	0
5	QPSK	1	12	21.59	21.62	21.54					
5	QPSK	1	24	21.58	21.74	21.75					
5	QPSK	12	0	20.82	20.84	20.82					
5	QPSK	12	7	20.81	20.79	20.78					
5	QPSK	12	13	20.84	20.86	20.85				22	1
5	QPSK	25	0	20.71	20.76	20.77					
5	16QAM	1	0	20.71	20.79	20.88					
5	16QAM	1	12	20.82	20.79	20.76					
5	16QAM	1	24	20.77	20.75	20.71					
5	16QAM	12	0	19.85	19.95	19.94				21	2
5	16QAM	12	7	19.91	19.93	19.96					
5	16QAM	12	13	19.82	19.85	19.77					
5	16QAM	25	0	19.79	19.81	19.93					
5	64QAM	1	0	19.91	19.74	19.79					
5	64QAM	1	12	19.91	19.80	19.85				21	2
5	64QAM	1	24	19.75	19.88	19.87					
5	64QAM	12	0	18.78	18.85	18.80					
5	64QAM	12	7	18.81	18.87	18.89					
5	64QAM	12	13	18.92	18.92	18.97					
5	64QAM	25	0	18.80	18.94	18.91				20	3
5	256QAM	1	0	16.70	16.86	16.89					
5	256QAM	1	12	16.81	17.00	16.99					
5	256QAM	1	24	16.97	16.75	17.07					
5	256QAM	12	0	16.72	17.05	16.82					
5	256QAM	12	7	16.78	16.81	16.71				18	5
5	256QAM	12	13	16.81	16.98	16.93					
5	256QAM	25	0	17.02	16.75	17.06					

Band 26 Ant 1														
BW [MHz]	Modulation	RB Size	RB Offset	Power Low		Power Middle		Power High		Tune-up limit (dBm)	MPR (dB)			
				Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.					
Channel				26162		26162		26162		Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				821.5		831.5		841.5						
15	QPSK	1	0	21.57	21.65	21.57				23	0			
15	QPSK	1	37	21.80	21.58	21.58								
15	QPSK	1	74	21.60	21.59	21.58								
15	QPSK	36	0	20.61	20.63	20.59								
15	QPSK	36	20	20.80	20.61	20.59								
15	QPSK	36	39	20.61	20.58	20.62				22	1			
15	QPSK	75	0	20.57	20.62	20.61								
15	16QAM	1	0	20.59	20.60	20.61								
15	16QAM	1	37	20.61	20.62	20.61								
15	16QAM	1	74	20.58	20.59	20.62								
15	16QAM	36	0	19.58	19.58	19.60				21	2			
15	16QAM	36	20	19.58	19.58	19.60								
15	16QAM	36	39	19.62	19.59	19.60								
15	16QAM	75	0	19.58	19.58	19.59								
15	64QAM	1	0	19.59	19.61	19.59								
15	64QAM	1	37	19.57	19.59	19.62				21	2			
15	64QAM	1	74	19.61	19.61	19.60								
15	64QAM	36	0	18.58	18.57	18.63								
15	64QAM	36	20	18.60	18.60	18.57								
15	64QAM	36	39	18.62	18.57	18.57								
15	64QAM	75	0	18.63	18.60	18.61				20	3			
15	256QAM	1	0	16.62	16.57	16.60								
15	256QAM	1	37	16.63	16.58	16.60								
15	256QAM	1	74	16.61	16.58	16.61								
15	256QAM	36	0	16.60	16.63	16.61								
15	256QAM	36	20	16.58	16.61	16.61				18	5			
15	256QAM	36	39	16.59	16.61	16.63								
15	256QAM	75	0	16.61	16.60	16.62								
Channel				26740		26665		26990		Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				819		831.5		844						
10	QPSK	1	0	21.56	21.59	21.57				23	0			
10	QPSK	1	25	21.61	21.55	21.56								
10	QPSK	1	49	21.62	21.57	21.54								
10	QPSK	25	0	20.62	20.61	20.59								
10	QPSK	25	12	20.60	20.63	20.55								
10	QPSK	25	25	20.60	20.56	20.59				22	1			
10	QPSK	50	0	20.58	20.59	20.58								
10	16QAM	1	0	20.58	20.56	20.60								
10	16QAM	1	25	20.60	20.61	20.57								
10	16QAM	1	49	20.54	20.55	20.59								
10	16QAM	25	0	19.58	19.59	19.60				21	2			
10	16QAM	25	12	19.56	19.56	19.61								
10	16QAM	25	25	19.63	19.59	19.62								
10	16QAM	50	0	19.58	19.54	19.57								
10	64QAM	1	0	19.58	19.60	19.59								
10	64QAM	1	25	19.58	19.60	19.61				21	2			
10	64QAM	1	49	19.57	19.62	19.58								
10	64QAM	25	0	18.57	18.57	18.62								
10	64QAM	25	12	18.61	18.59	18.58								
10	64QAM	25	25	18.61	18.57	18.58								
10	64QAM	50	0	18.60	18.61	18.62				20	3			
10	256QAM	1	0	16.59	16.58	16.62								
10	256QAM	1	25	16.62	16.56	16.61								
10	256QAM	1	49	16.60	16.54	16.59								
10	256QAM	25												

Band 38 Ant 1									
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	22.19	22.43	22.20	24	0	
20	QPSK	1	49	22.07	22.18	22.03			
20	QPSK	1	99	22.16	22.23	22.04			
20	QPSK	50	0	21.27	21.40	21.20	23	1	
20	QPSK	50	24	21.07	21.27	21.24			
20	QPSK	50	50	21.17	21.36	21.17			
20	QPSK	100	0	21.11	21.42	21.27	23	1	
20	16QAM	1	0	21.05	21.38	21.12			
20	16QAM	1	49	21.25	21.29	21.17			
20	16QAM	1	99	21.07	21.34	21.15	22	2	
20	16QAM	50	0	20.00	20.27	20.07			
20	16QAM	50	24	20.02	20.41	20.11			
20	16QAM	50	50	20.05	20.36	20.07	21	3	
20	16QAM	100	0	20.13	20.23	20.12			
20	64QAM	1	0	20.08	20.13	20.16			
20	64QAM	1	49	20.13	20.23	20.21	22	2	
20	64QAM	1	99	20.16	20.25	20.12			
20	64QAM	50	0	19.16	19.27	19.13			
20	64QAM	50	24	19.12	19.49	19.09	21	3	
20	64QAM	50	50	19.05	19.41	19.20			
20	64QAM	100	0	19.17	19.43	19.17			
20	256QAM	1	0	17.06	17.44	17.06	19	5	
20	256QAM	1	49	17.16	17.26	17.27			
20	256QAM	1	99	17.11	17.27	17.26			
20	256QAM	50	0	17.21	17.30	17.24	19	5	
20	256QAM	50	24	17.18	17.45	17.16			
20	256QAM	50	50	17.20	17.33	17.13			
20	256QAM	100	0	17.26	17.49	17.23			
Channel				37825	38000	38175	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				25775	2595	2612.5			
15	QPSK	1	0	22.16	22.37	22.20	24	0	
15	QPSK	1	37	22.06	22.14	22.02			
15	QPSK	1	74	22.16	22.22	22.04			
15	QPSK	36	0	21.28	21.39	21.19	23	1	
15	QPSK	36	20	21.08	21.24	21.23			
15	QPSK	36	39	21.17	21.32	21.18			
15	QPSK	75	0	21.11	21.43	21.27	23	1	
15	16QAM	1	0	21.06	21.39	21.10			
15	16QAM	1	37	21.21	21.27	21.18			
15	16QAM	1	74	21.06	21.32	21.12	22	2	
15	16QAM	36	0	20.01	20.27	20.06			
15	16QAM	36	20	20.03	20.42	20.10			
15	16QAM	36	39	20.06	20.37	20.03	22	2	
15	16QAM	75	0	20.10	20.23	20.12			
15	64QAM	1	0	20.06	20.14	20.14			
15	64QAM	1	37	20.11	20.20	20.23	22	2	
15	64QAM	1	74	20.17	20.23	20.12			
15	64QAM	36	0	19.14	19.26	19.14			
15	64QAM	36	20	19.08	19.50	19.07	21	3	
15	64QAM	36	39	19.06	19.39	19.16			
15	64QAM	75	0	19.17	19.39	19.16			
15	256QAM	1	0	17.03	17.41	17.07	19	5	
15	256QAM	1	37	17.17	17.27	17.24			
15	256QAM	1	74	17.08	17.27	17.27			
15	256QAM	36	0	17.19	17.27	17.22	19	5	
15	256QAM	36	20	17.14	17.45	17.13			
15	256QAM	36	39	17.16	17.31	17.15			
15	256QAM	75	0	17.26	17.46	17.21			
Channel				37900	38000	38200	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				25750	2595	2615			
10	QPSK	1	0	22.18	22.42	22.20	24	0	
10	QPSK	1	25	22.05	22.17	22.04			
10	QPSK	1	49	22.14	22.21	22.02			
10	QPSK	25	0	21.26	21.36	21.20	23	1	
10	QPSK	25	12	21.05	21.23	21.24			
10	QPSK	25	25	21.14	21.33	21.13			
10	QPSK	50	0	21.08	21.39	21.24	23	1	
10	16QAM	1	0	21.04	21.34	21.10			
10	16QAM	1	25	21.22	21.27	21.13			
10	16QAM	1	49	21.08	21.32	21.15	22	2	
10	16QAM	25	0	20.21	20.25	20.03			
10	16QAM	25	12	20.30	20.42	20.07			
10	16QAM	25	25	20.04	20.36	20.06	22	2	
10	16QAM	50	0	20.09	20.24	20.10			
10	64QAM	1	0	20.08	20.12	20.17			
10	64QAM	1	25	20.11	20.20	20.18	22	2	
10	64QAM	1	49	20.12	20.24	20.10			
10	64QAM	25	0	19.14	19.28	19.11			
10	64QAM	25	12	19.11	19.45	19.09	21	3	
10	64QAM	25	25	19.05	19.41	19.19			
10	64QAM	50	0	19.14	19.45	19.15			
10	256QAM	1	0	17.07	17.45	17.07	19	5	
10	256QAM	1	25	17.15	17.26	17.24			
10	256QAM	1	49	17.09	17.26	17.25			
10	256QAM	25	0	17.21	17.29	17.23	19	5	
10	256QAM	25	12	17.15	17.45	17.16			
10	256QAM	25	25	17.16	17.33	17.13			
10	256QAM	50	0	17.25	17.47	17.21			
Channel				37775	38000	38225	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				25725	2595	2617.5			
5	QPSK	1	0	22.16	22.40	22.16	24	0	
5	QPSK	1	12	22.06	22.18	22.04			
5	QPSK	1	24	22.15	22.25	22.05			
5	QPSK	12	0	21.27	21.38	21.19	23	1	
5	QPSK	12	7	21.03	21.27	21.23			
5	QPSK	12	13	21.16	21.32	21.18			
5	QPSK	25	0	21.10	21.40	21.25	23	1	
5	16QAM	1	0	21.05	21.39	21.11			
5	16QAM	1	12	21.26	21.30	21.16			
5	16QAM	1	24	21.05	21.33	21.14	22	2	
5	16QAM	12	0	20.21	20.26	20.07			
5	16QAM	12	7	20.23	20.40	20.12			
5	16QAM	12	13	20.04	20.35	20.06	22	2	
5	16QAM	25	0	20.12	20.21	20.10			
5	64QAM	1	0	20.05	20.10	20.13			
5	64QAM	1	12	20.09	20.21	20.19	22	2	
5	64QAM	1	24	20.17	20.24	20.08			
5	64QAM	12	0	19.16	19.27	19.13			
5	64QAM	12	7	19.11	19.48	19.10	21	3	
5	64QAM	12	13	19.05	19.38	19.18			
5	64QAM	25	0	19.17	19.41	19.18			
5	256QAM	1	0	17.06	17.41	17.06	19	5	
5	256QAM	1	12	17.12	17.27	17.26			
5	256QAM	1	24	17.10	17.26	17.23			
5	256QAM	12	0	17.21	17.30	17.24	19	5	
5	256QAM	12	7	17.16	17.42	17.16			
5	256QAM	12	13	17.16	17.29	17.09			
5	256QAM	25	0	17.25	17.49	17.23			

Band 41 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	

Band 2 Ant 5												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	APR3 (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.34	22.66	22.33			24	0		
20	QPSK	1	49	22.36	22.64	22.37						
20	QPSK	1	99	22.25	22.66	22.42						
20	QPSK	50	0	22.51	22.50	22.56						
20	QPSK	50	24	22.38	22.43	22.37			24	0		
20	QPSK	50	50	22.31	22.35	22.39						
20	QPSK	100	0	22.48	22.52	22.51						
20	16QAM	1	0	22.18	22.18	22.18						
20	16QAM	1	49	22.22	22.30	22.26			24	0		
20	16QAM	1	99	22.10	22.44	22.32						
20	16QAM	50	0	21.36	21.36	21.37						
20	16QAM	50	24	21.11	21.20	21.11						
20	16QAM	50	50	21.21	21.21	21.21			23	1		
20	16QAM	100	0	21.41	21.41	21.39						
20	64QAM	1	0	21.34	21.26	21.22						
20	64QAM	1	49	21.35	21.18	21.21						
20	64QAM	50	0	20.32	20.30	20.34			22	2		
20	64QAM	50	24	20.52	20.19	20.35						
20	64QAM	50	50	20.31	20.34	20.30						
20	64QAM	100	0	20.38	20.34	20.35						
20	256QAM	1	0	18.36	18.36	18.33			20	4		
20	256QAM	1	49	18.44	18.43	18.43						
20	256QAM	1	99	18.21	18.29	18.44						
20	256QAM	50	0	18.27	18.27	18.27						
20	256QAM	50	24	18.29	18.32	18.32			20	4		
20	256QAM	50	50	18.27	18.44	18.26						
20	256QAM	100	0	18.34	18.33	18.33						
Channel												
Frequency (MHz)												
18	QPSK	1	0	22.47	22.45	22.48			24	0		
18	QPSK	1	37	22.29	22.38	22.40						
18	QPSK	1	74	22.38	22.38	22.49						
18	QPSK	36	0	22.40	22.37	22.32						
18	QPSK	36	15	22.35	22.35	22.35			24	0		
18	QPSK	36	39	22.14	22.34	22.37						
18	QPSK	75	0	22.53	22.53	22.53						
18	16QAM	1	0	22.12	22.12	22.18						
18	16QAM	1	37	22.11	22.16	22.33			24	0		
18	16QAM	1	74	22.26	22.26	22.35						
18	16QAM	36	0	21.51	21.59	21.77						
18	16QAM	36	20	21.19	21.17	21.14						
18	16QAM	36	39	21.35	21.35	21.47			23	1		
18	16QAM	75	0	21.29	21.35	21.27						
18	64QAM	1	0	21.43	21.28	21.25						
18	64QAM	1	37	21.41	21.41	21.42						
18	64QAM	1	74	21.40	21.25	21.13			22	2		
18	64QAM	36	0	20.52	20.39	20.16						
18	64QAM	36	20	20.46	20.34	20.30						
18	64QAM	36	39	20.24	20.42	20.35						
18	64QAM	75	0	20.35	20.42	20.36			20	4		
18	256QAM	1	0	18.31	18.41	18.41						
18	256QAM	1	37	18.41	18.41	18.39						
18	256QAM	1	74	18.31	18.25	18.46						
18	256QAM	36	0	18.36	18.46	18.46			20	4		
18	256QAM	36	20	18.46	18.34	18.41						
18	256QAM	36	39	18.23	18.25	18.41						
18	256QAM	75	0	18.16	18.41	18.39						
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.37	22.37	22.37			24	0		
10	QPSK	1	25	22.35	22.42	22.42						
10	QPSK	1	49	22.24	22.38	22.28						
10	QPSK	50	0	22.18	22.18	22.18						
10	QPSK	25	12	22.15	22.22	22.34			24	0		
10	QPSK	25	25	22.35	22.34	22.35						
10	QPSK	50	0	22.22	22.22	22.22						
10	16QAM	1	0	22.22	22.31	22.34						
10	16QAM	1	25	22.22	22.19	22.43			24	0		
10	16QAM	1	49	22.15	22.35	22.38						
10	16QAM	25	0	21.45	21.40	21.19						
10	16QAM	25	12	21.22	21.24	21.32						
10	16QAM	50	0	21.32	21.32	21.34			23	1		
10	16QAM	50	0	21.24	21.32	21.44						
10	64QAM	1	0	21.44	21.29	21.36						
10	64QAM	1	24	21.42	21.42	21.45						
10	64QAM	1	49	21.41	21.23	21.31			22	2		
10	64QAM	25	0	20.49	20.39	20.18						
10	64QAM	25	12	20.34	20.35	20.39						
10	64QAM	25	25	20.21	20.35	20.39						
10	64QAM	50	0	20.34	20.42	20.35			20	4		
10	256QAM	1	0	18.27	18.43	18.43						
10	256QAM	1	25	18.31	18.46	18.37						
10	256QAM	25	0	18.17	18.37	18.47						
10	256QAM	25	12	18.32	18.18	18.46			20	4		
10	256QAM	25	25	18.31	18.46	18.51						
10	256QAM	50	0	18.34	18.46	18.51						
10	256QAM	50	0	18.25	18.46	18.51						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.33	22.48	22.43			24	0		
5	QPSK	1	12	22.14	22.40	22.30						
5	QPSK	1	24	22.34	22.47	22.37						
5	QPSK	12	0	22.40	22.44	22.44						
5	QPSK	12	7	22.29	22.35	22.27			24	0		
5	QPSK	12	13	22.08	22.41	22.46						
5	QPSK	25	0	22.42	22.38	22.34						
5	16QAM	1	0	22.19	22.39	22.17						
5	16QAM	1	12	22.12	22.37	22.27			24	0		
5	16QAM	1	24	22.06	22.44	22.44						
5	16QAM	12	0	21.43	21.34	21.37						
5	16QAM	12	7	21.11	21.38	21.22						
5	16QAM	12	13	21.36	21.31	21.32			23	1		
5	16QAM	25	0	21.23	21.46	21.27						
5	16QAM	25	0	21.43	21.32	21.30						
5	64QAM	1	0	21.33	21.13	21.33						
5	64QAM	1	24	21.27	21.25	21.12			22	2		
5	64QAM	12	0	20.47	20.35	20.34						
5	64QAM	12	7	20.52	20.32	20.43						
5	64QAM	12	13	20.10	20.20	20.37						
5	64QAM	25	0	20.39	20.41	20.35			20	4		
5	256QAM	1	0	18.19	18.35	18.15						
5	256QAM	1	12	18.31	18.30	18.32						
5	256QAM	1	24	18.26	18.40	18.45						
5	256QAM	12	0	18.19	18.51	18.51			20	4		
5	256QAM	12	7	18.51	18.25	18.38						
5	256QAM	12	13	18.13	18.26	18.46						
5	256QAM	25	0	18.26	18.33	18.36						
Channel												
Frequency (MHz)												
3	QPSK	1	0	22.35	22.40	22.33			24	0		
3	QPSK	1	8	22.16	22.46	22.62						
3	QPSK	1	14	22.24	22.43	22.39						
3	QPSK	8	0	22.20	22.51	22.51						
3	QPSK	8	4	22.12	22.30	22.37			24	0		
3	QPSK	8	7	22.15	22.33	22.43						
3	QPSK	15	0	22.28	22.53	22.53						
3	16QAM	1	0	22.23	22.29	22.38						

Band 38 Ant 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power High Ch. / Freq.	Power Middle Ch. / Freq.	Power Low Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	22.55	22.64	22.59	24	0	
20	QPSK	1	49	22.51	22.56	22.36			
20	QPSK	1	99	22.46	22.59	22.48	23	1	
20	QPSK	50	0	21.45	21.63	21.59			
20	QPSK	50	24	21.57	21.48	21.38	23	1	
20	QPSK	50	50	21.48	21.42	21.39			
20	QPSK	100	0	21.51	21.60	21.39	23	1	
20	16QAM	1	0	21.52	21.54	21.57			
20	16QAM	1	49	21.42	21.56	21.44	22	2	
20	16QAM	1	99	21.57	21.59	21.44			
20	16QAM	50	0	20.50	20.61	20.61	22	2	
20	16QAM	50	24	20.46	20.54	20.55			
20	16QAM	50	50	20.62	20.42	20.50	21	3	
20	16QAM	100	0	20.56	20.61	20.39			
20	64QAM	1	0	20.47	20.39	20.50	22	2	
20	64QAM	1	49	20.54	20.48	20.55			
20	64QAM	1	99	20.44	20.49	20.54	21	3	
20	64QAM	50	0	19.41	19.54	19.40			
20	64QAM	50	24	19.46	19.46	19.53	19	5	
20	64QAM	50	50	19.41	19.44	19.39			
20	64QAM	100	0	19.57	19.56	19.38	19	5	
20	256QAM	1	0	17.59	17.48	17.57			
20	256QAM	1	49	17.65	17.65	17.50	22	2	
20	256QAM	1	99	17.50	17.51	17.48			
20	256QAM	1	74	17.54	17.46	17.48	19	5	
20	256QAM	50	24	17.53	17.66	17.46			
20	256QAM	50	50	17.56	17.58	17.61	22	2	
20	256QAM	100	0	17.67	17.44	17.51			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	22.60	22.63	22.55	24	0	
15	QPSK	1	37	22.50	22.54	22.39			
15	QPSK	1	74	22.46	22.56	22.51	23	1	
15	QPSK	36	0	21.46	21.60	21.62			
15	QPSK	36	20	21.61	21.51	21.39	23	1	
15	QPSK	36	39	21.46	21.44	21.42			
15	QPSK	75	0	21.51	21.58	21.40	23	1	
15	16QAM	1	0	21.55	21.55	21.57			
15	16QAM	1	37	21.41	21.59	21.42	22	2	
15	16QAM	1	74	21.61	21.59	21.41			
15	16QAM	36	0	20.51	20.61	20.57	22	2	
15	16QAM	36	20	20.46	20.52	20.54			
15	16QAM	36	39	20.61	20.44	20.52	22	2	
15	16QAM	75	0	20.53	20.60	20.37			
15	64QAM	1	0	20.47	20.39	20.47	22	2	
15	64QAM	1	37	20.50	20.48	20.52			
15	64QAM	1	74	20.47	20.46	20.49	21	3	
15	64QAM	36	0	19.40	19.54	19.38			
15	64QAM	36	20	19.42	19.43	19.49	19	5	
15	64QAM	36	39	19.40	19.47	19.37			
15	64QAM	75	0	19.53	19.54	19.38	19	5	
15	256QAM	1	0	17.58	17.59	17.56			
15	256QAM	1	37	17.64	17.66	17.51	19	5	
15	256QAM	1	74	17.52	17.50	17.51			
15	256QAM	36	0	17.64	17.43	17.48	19	5	
15	256QAM	36	20	17.55	17.69	17.50			
15	256QAM	36	39	17.55	17.60	17.64	24	0	
15	256QAM	75	0	17.54	17.48	17.51			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	22.56	22.62	22.56	24	0	
10	QPSK	1	25	22.49	22.56	22.36			
10	QPSK	1	49	22.46	22.60	22.47	23	1	
10	QPSK	25	0	21.45	21.61	21.64			
10	QPSK	25	12	21.59	21.48	21.41	23	1	
10	QPSK	25	25	21.45	21.44	21.40			
10	QPSK	50	0	21.53	21.57	21.39	23	1	
10	16QAM	1	0	21.52	21.57	21.53			
10	16QAM	1	25	21.44	21.54	21.41	22	2	
10	16QAM	1	49	21.61	21.54	21.40			
10	16QAM	25	0	20.48	20.61	20.61	22	2	
10	16QAM	25	12	20.48	20.54	20.55			
10	16QAM	25	25	20.61	20.39	20.51	22	2	
10	16QAM	50	0	20.54	20.64	20.37			
10	64QAM	1	0	20.49	20.39	20.45	22	2	
10	64QAM	1	25	20.54	20.44	20.54			
10	64QAM	1	49	20.44	20.45	20.54	21	3	
10	64QAM	25	0	19.41	19.54	19.39			
10	64QAM	25	12	19.42	19.43	19.51	19	5	
10	64QAM	25	25	19.40	19.46	19.36			
10	64QAM	50	0	19.57	19.55	19.39	19	5	
10	256QAM	1	0	17.56	17.45	17.59			
10	256QAM	1	25	17.68	17.64	17.53	19	5	
10	256QAM	1	49	17.48	17.49	17.52			
10	256QAM	25	0	17.65	17.63	17.50	19	5	
10	256QAM	25	12	17.58	17.67	17.47			
10	256QAM	25	25	17.52	17.61	17.61	21	3	
10	256QAM	50	0	17.66	17.48	17.53			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	22.57	22.56	22.57	24	0	
5	QPSK	1	12	22.52	22.53	22.37			
5	QPSK	1	24	22.45	22.55	22.47	23	1	
5	QPSK	12	0	21.47	21.64	21.64			
5	QPSK	12	7	21.59	21.49	21.37	23	1	
5	QPSK	12	13	21.47	21.45	21.43			
5	QPSK	25	0	21.49	21.56	21.41	23	1	
5	16QAM	1	0	21.53	21.55	21.57			
5	16QAM	1	12	21.44	21.54	21.42	22	2	
5	16QAM	1	24	21.60	21.54	21.43			
5	16QAM	12	0	20.47	20.61	20.58	22	2	
5	16QAM	12	7	20.48	20.50	20.57			
5	16QAM	12	13	20.58	20.39	20.54	22	2	
5	16QAM	25	0	20.54	20.58	20.39			
5	64QAM	1	0	20.48	20.40	20.49	22	2	
5	64QAM	1	12	20.56	20.49	20.51			
5	64QAM	1	24	20.49	20.44	20.54	21	3	
5	64QAM	12	0	19.42	19.52	19.40			
5	64QAM	12	7	19.41	19.46	19.51	19	5	
5	64QAM	12	13	19.41	19.46	19.36			
5	64QAM	25	0	19.52	19.56	19.39	19	5	
5	256QAM	1	0	17.57	17.49	17.57			
5	256QAM	1	12	17.65	17.63	17.54	19	5	
5	256QAM	1	24	17.54	17.51	17.51			
5	256QAM	12	0	17.65	17.45	17.53	19	5	
5	256QAM	12	7	17.53	17.68	17.46			
5	256QAM	12	13	17.52	17.57	17.65	19	5	
5	256QAM	25	0	17.67	17.47	17.53			

Band 41 Ant5										
BW [MHz]	Modulation	RB Size	RB Offset	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				39750	40173	40620	41068	41515		
Frequency (MHz)				2556	2549.5	2595	2636.5	2680		
20	QPSK	1	0	22.32	22.30	22.65	22.59	22.57	24	0
20	QPSK	1	49	22.34	22.18	22.63	22.61	22.56		
20	QPSK	1	99	22.33	22.32	22.61	22.62	22.50		
20	QPSK	50	0	21.59	21.63	21.73	21.47	21.53		
20	QPSK	50	24	21.49	21.68	21.74	21.48	21.65	23	1
20	QPSK	50	50	21.50	21.68	21.64	21.66	21.80		
20	QPSK	100	0	21.50	21.65	21.66	21.54	21.52		
20	16QAM	1	0	21.51	21.50	21.74	21.31	21.51		
20	16QAM	1	49	21.46	21.47	21.68	21.49	21.33	23	1
20	16QAM	1	99	21.56	21.49	21.58	21.46	21.52		
20	16QAM	50	0	20.69	20.60	20.72	20.52	20.65		
20	16QAM	50	24	20.65	20.63	20.72	20.71	20.56		
20	16QAM	50	50	20.74	20.58	20.55	20.69	20.61	22	2
20	16QAM	100	0	20.68	20.63	20.62	20.57	20.65		
20	64QAM	1	0	20.57	20.70	20.53	20.59	20.76		
20	64QAM	1	49	20.70	20.55	20.66	20.66	20.41		
20	64QAM	1	99	20.73	20.58	20.66	20.71	20.57	22	2
20	64QAM	50	0	19.70	19.63	19.60	19.61	19.54		
20	64QAM	50	24	19.71	19.65	19.59	19.63	19.53		
20	64QAM	50	50	19.60	19.75	19.66	19.58	19.71		
20	64QAM	100	0	19.72	19.75	19.68	19.67	19.67	21	3
20	QPSK	1	0	17.53	17.72	17.51	17.58	17.48		
20	QPSK	1	49	17.56	17.72	17.58	17.76	17.64		
20	256QAM	1	99	17.70	17.61	17.67	17.64	17.63		
20	256QAM	50	0	17.70	17.58	17.70	17.59	17.51	19	5
20	256QAM	50	24	17.73	17.65	17.61	17.50	17.69		
20	256QAM	50	50	17.60	17.58	17.55	17.74	17.65		
20	256QAM	100	0	17.70	17.58	17.67	17.57	17.64		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2550.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	22.33	22.30	22.62	22.56	22.55	24	0
15	QPSK	1	37	22.31	22.12	22.64	22.60	22.56		
15	QPSK	1	74	22.33	22.30	22.62	22.61	22.38		
15	QPSK	36	0	21.55	21.63	21.70	21.44	21.50		
15	QPSK	36	20	21.50	21.67	21.71	21.44	21.61	23	1
15	QPSK	36	39	21.48	21.64	21.61	21.66	21.60		
15	QPSK	75	0	21.47	21.61	21.68	21.50	21.53		
15	16QAM	1	0	21.50	21.47	21.71	21.31	21.47		
15	16QAM	37	37	21.43	21.43	21.67	21.49	21.49	23	1
15	16QAM	1	74	21.52	21.50	21.58	21.45	21.50		
15	16QAM	36	0	20.70	20.60	20.74	20.50	20.52		
15	16QAM	36	20	20.65	20.60	20.72	20.70	20.57		
15	16QAM	36	39	20.72	20.55	20.56	20.70	20.61	22	2
15	16QAM	75	0	20.65	20.61	20.62	20.57	20.61		
15	64QAM	1	0	20.57	20.71	20.53	20.60	20.74		
15	64QAM	1	37	20.71	20.54	20.67	20.66	20.50		
15	64QAM	1	74	20.74	20.55	20.67	20.68	20.55	22	2
15	64QAM	36	0	19.68	19.60	19.60	19.57	19.50		
15	64QAM	36	20	19.69	19.62	19.55	19.64	19.56		
15	64QAM	36	39	19.57	19.74	19.65	19.55	19.71		
15	64QAM	75	0	19.72	19.75	19.68	19.65	19.66	21	3
15	256QAM	1	0	17.53	17.68	17.52	17.58	17.70		
15	256QAM	1	37	17.53	17.68	17.55	17.72	17.63		
15	256QAM	1	74	17.70	17.57	17.68	17.65	17.63		
15	256QAM	36	0	17.66	17.59	17.58	17.66	17.61	19	5
15	256QAM	36	20	17.72	17.62	17.61	17.51	17.69		
15	256QAM	36	39	17.58	17.55	17.55	17.72	17.64		
15	256QAM	75	0	17.67	17.59	17.65	17.58	17.51		
Channel				39700	40169	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2551	2547	2593	2633	2683		
10	QPSK	1	0	22.31	22.28	22.61	22.57	22.55	24	0
10	QPSK	1	25	22.32	22.18	22.59	22.58	22.53		
10	QPSK	1	49	22.33	22.29	22.60	22.61	22.41		
10	QPSK	25	0	21.60	21.62	21.70	21.49	21.49		
10	QPSK	25	12	21.49	21.66	21.69	21.46	21.21	23	1
10	QPSK	25	25	21.47	21.68	21.66	21.65	21.56		
10	QPSK	0	0	21.46	21.64	21.64	21.54	21.51		
10	16QAM	1	0	21.49	21.51	21.72	21.30	21.52		
10	16QAM	1	25	21.46	21.48	21.69	21.49	21.33	23	1
10	16QAM	1	49	21.57	21.46	21.55	21.47	21.53		
10	16QAM	25	0	20.69	20.59	20.72	20.51	20.48		
10	16QAM	25	12	20.67	20.60	20.72	20.72	20.55		
10	16QAM	25	25	20.73	20.57	20.56	20.65	20.60	22	2
10	16QAM	50	0	20.66	20.61	20.62	20.56	20.66		
10	64QAM	1	0	20.56	20.71	20.52	20.55	20.78		
10	64QAM	1	25	20.69	20.54	20.66	20.64	20.49		
10	64QAM	1	49	20.71	19.58	19.64	19.69	19.53	22	2
10	64QAM	25	0	19.67	19.63	19.57	19.58	19.53		
10	64QAM	25	12	19.71	19.64	19.56	19.64	19.53		
10	64QAM	25	25	19.59	19.74	19.65	19.56	19.69		
10	64QAM	50	0	19.69	19.74	19.65	19.66	19.68	21	3
10	256QAM	1	0	17.51	17.69	17.47	17.58	17.69		
10	256QAM	1	25	17.54	17.61	17.71	17.74	17.63		
10	256QAM	1	49	17.69	17.63	17.65	17.63	17.63		
10	256QAM	25	0	17.67	17.58	17.69	17.57	17.47	19	5
10	256QAM	25	12	17.70	17.63	17.58	17.47	17.67		
10	256QAM	25	25	17.57	17.58	17.55	17.75	17.64		
10	256QAM	50	0	17.67	17.55	17.63	17.53	17.62		
Channel				39675	40144	40620	41093	41555	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	22.29	22.28	22.61	22.59	22.54	24	0
5	QPSK	1	12	22.35	22.14	22.60	22.61	22.55		
5	QPSK	1	24	22.34	22.30	22.59	22.59	22.38		
5	QPSK	257	0	21.67	21.68	21.69	21.46	21.52		
5	QPSK	12	7	21.50	21.89	21.69	21.46	21.56	23	1
5	QPSK	12	13	21.52	21.67	21.66	21.65	21.60		
5	QPSK	25	0	21.49	21.62	21.65	21.55	21.49		
5	16QAM	1	0	21.52	21.49	21.72	21.31	21.48		
5	16QAM	1	12	21.46	21.49	21.64	21.47	21.34	23	1
5	16QAM	1	24	21.55	21.47	21.55	21.45	21.45		
5	16QAM	12	0	20.70	20.58	20.70	20.52	20.49		
5	16QAM	12	7	20.65	20.60	20.71	20.72	20.54		
5	16QAM	12	13	20.73	20.54	20.56	20.68	20.62	22	2
5	16QAM	25	0	20.67	20.60	20.58	20.57	20.62		
5	16QAM	25	0	20.54	20.71	20.53	20.60	20.73		
5	16QAM	1	12	20.71	20.53	20.65	20.63	20.50		
5	64QAM	1	24	20.69	20.54	20.62	20.72	20.55	22	2
5	64QAM	12	0	19.67	19.65	19.60	19.59	19.53		
5	64QAM	12	7	19.69	19.63	19.59	19.64	19.54		
5	64QAM	12	13	19.58	19.76	19.65	19.59	19.72		
5	256QAM	1	0	19.68	19.75	19.66	19.67	19.65	21	3
5	256QAM	1	0	17.53	17.70	17.49	17.59	17.69		
5	256QAM	1	12	17.52	17.68	17.55	17.73	17.64		
5	256QAM	1	24	17.66	17.59	17.64	17.60	17.61		
5	256QAM	12	0	17.70	17.55	17.67	17.55	17.48	19	5
5	256QAM	12	7	17.70	17.62	17.69	17.60	17.55		
5	256QAM	12	13	17.57	17.56	17.55	17.74	17.67		
5	256QAM	25	0	17.66	17.57	17.66	17.58	17.62		

Band 7 Ant 6									
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				2050	2100	2150			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	22.27	22.56	22.52	24	0	
20	QPSK	1	49	22.28	22.43	22.42			
20	QPSK	1	99	22.22	22.44	22.30			
20	QPSK	50	0	21.43	21.45	21.41	23	1	
20	QPSK	50	24	21.19	21.40	21.19			
20	QPSK	50	50	21.18	21.38	21.34			
20	QPSK	100	0	21.22	21.33	21.31	23	1	
20	16QAM	1	0	21.33	21.44	21.35			
20	16QAM	1	49	21.25	21.31	21.26			
20	16QAM	1	99	21.38	21.47	21.25	22	2	
20	16QAM	50	0	20.29	20.18	20.22			
20	16QAM	50	24	20.31	20.39	20.25			
20	16QAM	50	50	20.37	20.42	20.28	22	2	
20	16QAM	100	0	20.21	20.37	20.17			
20	64QAM	1	0	20.28	20.40	20.26			
20	64QAM	1	49	20.17	20.34	20.38	22	2	
20	64QAM	1	99	20.16	20.32	20.34			
20	64QAM	50	0	19.35	19.53	19.32			
20	64QAM	50	24	19.44	19.32	19.28	21	3	
20	64QAM	50	50	19.38	19.39	19.38			
20	64QAM	100	0	19.49	19.35	19.33			
20	256QAM	1	0	17.45	17.46	17.32	19	5	
20	256QAM	1	49	17.49	17.48	17.43			
20	256QAM	1	99	17.38	17.39	17.42			
20	256QAM	50	0	17.48	17.32	17.43	19	5	
20	256QAM	50	24	17.35	17.54	17.52			
20	256QAM	50	50	17.51	17.52	17.42			
20	256QAM	100	0	17.31	17.47	17.41			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	22.21	22.43	22.41	24	0	
15	QPSK	1	37	22.20	22.31	22.32			
15	QPSK	1	74	22.14	22.35	22.20			
15	QPSK	36	0	21.32	21.32	21.26	23	1	
15	QPSK	36	20	21.09	21.28	21.11			
15	QPSK	36	39	21.09	21.26	21.27			
15	QPSK	75	0	21.11	21.27	21.22	23	1	
15	16QAM	1	0	21.23	21.35	21.27			
15	16QAM	1	37	21.19	21.21	21.17			
15	16QAM	1	74	21.25	21.35	21.12	22	2	
15	16QAM	36	0	20.19	20.09	20.14			
15	16QAM	36	20	20.20	20.31	20.12			
15	16QAM	36	39	20.25	20.30	20.15	22	2	
15	16QAM	75	0	20.12	20.24	20.10			
15	64QAM	1	0	20.20	20.27	20.14			
15	64QAM	1	37	20.09	20.27	20.31	22	2	
15	64QAM	1	74	20.08	20.21	20.22			
15	64QAM	36	0	19.23	19.41	19.21			
15	64QAM	36	20	19.34	19.21	19.18	21	3	
15	64QAM	36	39	19.29	19.31	19.30			
15	64QAM	75	0	19.38	19.25	19.29			
15	256QAM	1	0	17.37	17.40	17.23	19	5	
15	256QAM	1	37	17.38	17.35	17.29			
15	256QAM	1	74	17.27	17.29	17.33			
15	256QAM	36	0	17.42	17.26	17.33	19	5	
15	256QAM	36	20	17.26	17.41	17.41			
15	256QAM	36	39	17.44	17.41	17.35			
15	256QAM	75	0	17.21	17.38	17.32			
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	22.19	22.47	22.44	24	0	
10	QPSK	1	25	22.21	22.34	22.33			
10	QPSK	1	49	22.15	22.32	22.17			
10	QPSK	25	0	21.30	21.33	21.30	23	1	
10	QPSK	25	12	21.11	21.30	21.12			
10	QPSK	25	25	21.12	21.28	21.28			
10	QPSK	50	0	21.15	21.27	21.22	23	1	
10	16QAM	1	0	21.21	21.38	21.26			
10	16QAM	1	25	21.14	21.15	21.11			
10	16QAM	1	49	21.27	21.39	21.13	22	2	
10	16QAM	25	0	20.20	20.07	20.09			
10	16QAM	25	12	20.20	20.26	20.09			
10	16QAM	25	25	20.23	20.30	20.18	22	2	
10	16QAM	50	0	20.12	20.23	20.07			
10	64QAM	1	0	20.15	20.27	20.15			
10	64QAM	1	25	20.06	20.21	20.31	22	2	
10	64QAM	1	49	20.08	20.25	20.26			
10	64QAM	25	0	19.24	19.43	19.24			
10	64QAM	25	12	19.31	19.22	19.19	21	3	
10	64QAM	25	25	19.28	19.30	19.30			
10	64QAM	50	0	19.39	19.24	19.28			
10	256QAM	1	0	17.37	17.42	17.26	19	5	
10	256QAM	1	25	17.38	17.34	17.28			
10	256QAM	1	49	17.27	17.28	17.33			
10	256QAM	25	0	17.43	17.26	17.34	19	5	
10	256QAM	25	12	17.26	17.45	17.46			
10	256QAM	25	25	17.41	17.40	17.31			
10	256QAM	50	0	17.21	17.37	17.35			
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	22.20	22.43	22.42	24	0	
5	QPSK	1	12	22.19	22.33	22.28			
5	QPSK	1	24	22.11	22.31	22.18			
5	QPSK	12	0	21.30	21.31	21.27	23	1	
5	QPSK	12	7	21.14	21.28	21.13			
5	QPSK	12	13	21.11	21.27	21.24			
5	QPSK	25	0	21.11	21.22	21.23	23	1	
5	16QAM	1	0	21.21	21.34	21.28			
5	16QAM	1	12	21.17	21.16	21.12			
5	16QAM	1	24	21.28	21.35	21.13	22	2	
5	16QAM	12	0	20.17	20.08	20.12			
5	16QAM	12	7	20.20	20.26	20.14			
5	16QAM	12	13	20.23	20.27	20.19	22	2	
5	16QAM	25	0	20.13	20.23	20.10			
5	64QAM	1	0	20.14	20.26	20.11			
5	64QAM	1	12	20.09	20.24	20.30	22	2	
5	64QAM	1	24	20.05	20.23	20.28			
5	64QAM	12	0	19.22	19.40	19.22			
5	64QAM	12	7	19.34	19.23	19.21	21	3	
5	64QAM	12	13	19.30	19.29	19.32			
5	64QAM	25	0	19.36	19.20	19.24			
5	256QAM	1	0	17.35	17.36	17.23	19	5	
5	256QAM	1	12	17.36	17.33	17.32			
5	256QAM	1	24	17.26	17.29	17.33			
5	256QAM	12	0	17.40	17.24	17.36	19	5	
5	256QAM	12	7	17.27	17.44	17.45			
5	256QAM	12	13	17.41	17.44	17.33			
5	256QAM	25	0	17.20	17.35	17.35			

Band 38 Ant 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37650	38000	38150	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	22.21	22.23	22.18	24	0	
20	QPSK	1	49	22.16	22.10	22.11			
20	QPSK	1	99	22.16	22.14	22.07	23	1	
20	QPSK	50	0	21.13	21.19	21.16			
20	QPSK	50	24	21.12	21.00	21.05	23	1	
20	QPSK	50	50	21.05	21.09	21.07			
20	QPSK	100	0	21.03	21.19	21.06	23	1	
20	16QAM	1	0	21.07	21.15	21.05			
20	16QAM	1	49	21.07	21.15	21.12	22	2	
20	16QAM	1	99	21.10	21.04	21.14			
20	16QAM	50	0	20.27	20.25	20.34	22	2	
20	16QAM	50	24	20.25	20.30	20.37			
20	16QAM	50	50	20.44	20.38	20.45	21	3	
20	16QAM	50	0	17.39	17.48	17.22			
20	64QAM	1	0	20.32	20.39	20.42	22	2	
20	64QAM	1	49	20.33	20.32	20.43			
20	64QAM	1	99	20.29	20.41	20.28	21	3	
20	64QAM	50	0	19.39	19.47	19.41			
20	64QAM	50	24	19.29	19.40	19.34	19	5	
20	64QAM	50	50	19.24	19.31	19.34			
20	64QAM	100	0	19.20	19.31	19.25	19	5	
20	256QAM	1	0	17.24	17.39	17.36			
20	256QAM	1	49	17.45	17.45	17.38	20	2	
20	256QAM	1	99	17.43	17.33	17.36			
20	256QAM	36	39	17.39	17.48	17.22	19	5	
20	256QAM	50	24	17.45	17.47	17.46			
20	256QAM	50	50	17.26	17.29	17.27	20	2	
20	256QAM	100	0	17.37	17.39	17.25			
Channel				37625	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2592.5	2607.5			
15	QPSK	1	0	22.19	22.21	22.14	24	0	
15	QPSK	1	37	22.13	22.08	22.11			
15	QPSK	1	74	22.14	22.13	22.08	23	1	
15	QPSK	36	0	21.11	21.15	21.15			
15	QPSK	36	20	21.09	21.01	21.06	23	1	
15	QPSK	36	39	21.06	21.07	21.03			
15	QPSK	75	0	21.03	21.15	21.02	23	1	
15	16QAM	1	0	21.06	21.15	21.04			
15	16QAM	1	37	21.09	21.16	21.08	22	2	
15	16QAM	1	74	21.06	21.03	21.11			
15	16QAM	36	0	20.28	20.25	20.33	22	2	
15	16QAM	36	20	20.25	20.27	20.34			
15	16QAM	36	39	20.43	20.34	20.42	22	2	
15	16QAM	75	0	20.37	20.22	20.28			
15	64QAM	1	0	20.34	20.37	20.43	22	2	
15	64QAM	1	37	20.33	20.30	20.44			
15	64QAM	1	74	20.29	20.40	20.27	21	3	
15	64QAM	36	0	19.38	19.43	19.41			
15	64QAM	36	20	19.29	19.41	19.30	19	5	
15	64QAM	36	39	19.22	19.30	19.35			
15	64QAM	75	0	19.21	19.28	19.25	19	5	
15	256QAM	1	0	17.26	17.46	17.33			
15	256QAM	1	37	17.44	17.42	17.37	19	5	
15	256QAM	1	74	17.43	17.33	17.33			
15	256QAM	36	0	17.40	17.45	17.21	19	5	
15	256QAM	36	20	17.44	17.49	17.42			
15	256QAM	36	39	17.27	17.28	17.25	20	2	
15	256QAM	75	0	17.37	17.35	17.26			
Channel				37600	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	22.21	22.15	22.15	24	0	
10	QPSK	1	25	22.13	22.08	22.13			
10	QPSK	1	49	22.17	22.21	22.05	23	1	
10	QPSK	25	0	21.09	21.17	21.12			
10	QPSK	25	12	21.11	21.13	21.05	23	1	
10	QPSK	25	25	21.06	21.09	21.03			
10	QPSK	50	0	21.01	21.19	21.03	23	1	
10	16QAM	1	0	21.03	21.15	21.02			
10	16QAM	1	25	21.06	21.13	21.10	22	2	
10	16QAM	25	0	20.24	20.23	20.30			
10	16QAM	25	12	20.22	20.30	20.35	22	2	
10	16QAM	25	25	20.43	20.39	20.46			
10	16QAM	50	0	20.36	20.22	20.24	22	2	
10	64QAM	1	0	20.28	20.39	20.41			
10	64QAM	1	25	20.34	20.33	20.43	21	3	
10	64QAM	1	49	20.28	20.40	20.29			
10	64QAM	25	0	19.41	19.46	19.38	19	5	
10	64QAM	25	12	19.25	19.37	19.32			
10	64QAM	25	25	19.23	19.29	19.32	19	5	
10	64QAM	50	0	19.16	19.32	19.21			
10	256QAM	1	0	17.25	17.40	17.35	19	5	
10	256QAM	1	25	17.46	17.41	17.38			
10	256QAM	1	49	17.43	17.30	17.36	19	5	
10	256QAM	25	0	17.36	17.49	17.22			
10	256QAM	25	12	17.41	17.45	17.42	19	5	
10	256QAM	25	25	17.26	17.26	17.26			
10	256QAM	50	0	17.38	17.39	17.25	20	2	
10	256QAM	50	0	17.38	17.39	17.25			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.5	2595	2617.5			
5	QPSK	1	0	22.16	22.16	22.14	24	0	
5	QPSK	1	12	22.16	22.11	22.08			
5	QPSK	1	24	22.15	22.11	22.08	23	1	
5	QPSK	12	0	21.13	21.17	21.12			
5	QPSK	12	7	21.09	21.00	21.01	23	1	
5	QPSK	12	13	21.01	21.05	21.06			
5	QPSK	25	0	21.02	21.17	21.05	23	1	
5	16QAM	1	0	21.08	21.11	21.01			
5	16QAM	1	12	21.04	21.14	21.08	22	2	
5	16QAM	1	24	21.07	21.04	21.14			
5	16QAM	12	0	20.27	20.24	20.33	22	2	
5	16QAM	12	7	20.24	20.29	20.33			
5	16QAM	12	13	20.41	20.39	20.47	22	2	
5	16QAM	25	0	20.38	20.19	20.24			
5	64QAM	1	0	20.31	20.35	20.42	22	2	
5	64QAM	1	12	20.34	20.32	20.41			
5	64QAM	1	24	20.26	20.40	20.27	21	3	
5	64QAM	12	0	19.39	19.43	19.42			
5	64QAM	12	7	19.29	19.41	19.31	19	5	
5	64QAM	12	13	19.24	19.29	19.33			
5	64QAM	25	0	19.21	19.32	19.21	19	5	
5	256QAM	1	0	17.25	17.38	17.35			
5	256QAM	1	12	17.44	17.42	17.38	19	5	
5	256QAM	1	24	17.43	17.31	17.37			
5	256QAM	12	0	17.38	17.49	17.22	19	5	
5	256QAM	12	7	17.41	17.44	17.44			
5	256QAM	12	13	17.26	17.30	17.25	19	5	
5	256QAM	25	0	17.34	17.39	17.21			

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power High Middle Ch. / Freq.	Power High High Ch. / Freq.	MPR (dB)	
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.16	22.17	22.26	22.16	22.24	24	0
20	QPSK	1	49	22.15	22.06	22.16	22.06	22.23		
20	QPSK	1	99	22.15	22.17	22.16	22.17	22.19		
20	QPSK	50	24	21.11	21.13	21.08	21.06	21.12		
20	QPSK	50	50	21.13	21.15	21.09	21.15	21.00	23	1
20	QPSK	100	0	21.02	21.06	21.07	21.02	21.03		
20	16QAM	1	0	21.12	21.13	21.11	21.12	21.21		
20	16QAM	1	49	21.03	21.13	21.03	21.12	21.15		
20	16QAM	1	99	21.12	21.10	21.09	21.08	21.19	23	1
20	16QAM	50	0	20.18	20.13	20.14	20.14	20.22		
20	16QAM	50	24	20.19	20.10	20.19	20.09	20.24		
20	16QAM	50	50	20.11	20.08	20.08	20.04	20.29		
20	16QAM	100	0	20.30	20.17	20.26	20.18	20.20	22	2
20	64QAM	1	0	20.22	20.19	20.20	20.19	20.09		
20	64QAM	1	49	20.26	20.11	20.23	20.13	20.19		
20	64QAM	1	99	20.26	20.10	20.25	20.10	20.11		
20	64QAM	50	0	19.05	19.20	19.04	19.18	19.14	21	3
20	64QAM	50	24	19.21	19.20	19.23	19.20	19.15		
20	64QAM	50	50	19.12	19.17	19.14	19.15	19.15		
20	64QAM	100	0	19.10	19.20	19.06	19.17	19.13		
20	256QAM	0	0	17.14	17.30	17.10	17.28	17.06	19	5
20	256QAM	1	49	17.15	17.16	17.13	17.15	17.17		
20	256QAM	1	99	17.20	17.08	17.16	17.08	17.16		
20	256QAM	50	0	17.03	17.10	17.01	17.10	17.22		
20	256QAM	50	24	17.22	17.25	17.21	17.22	17.14	19	5
20	256QAM	50	50	17.21	17.10	17.19	17.10	17.19		
20	256QAM	100	0	17.07	17.30	17.07	17.27	17.29		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2546.3	2593	2637.8	2682.5		
15	QPSK	1	0	22.16	22.14	22.21	22.14	22.22	24	0
15	QPSK	1	37	22.17	22.04	22.17	22.02	22.23		
15	QPSK	1	74	22.14	22.13	22.17	22.17	22.20		
15	QPSK	36	0	21.04	21.08	21.02	21.06	21.03		
15	QPSK	36	20	21.10	21.14	21.06	21.12	21.04	23	1
15	QPSK	36	39	21.11	21.11	21.09	21.13	21.15		
15	QPSK	75	0	21.13	21.04	21.03	21.03	21.04		
15	16QAM	1	0	21.12	21.14	21.02	21.08	21.21		
15	16QAM	1	37	21.02	21.10	21.11	21.10	21.14	23	1
15	16QAM	1	74	21.11	21.08	21.09	21.10	21.13		
15	16QAM	36	0	20.14	20.12	20.14	20.15	20.22		
15	16QAM	36	20	20.16	20.12	20.19	20.08	20.21		
15	16QAM	36	39	20.12	20.06	20.07	20.01	20.18	22	2
15	16QAM	36	50	20.28	20.17	20.23	20.18	20.15		
15	64QAM	1	0	20.17	20.22	20.18	20.20	20.09		
15	64QAM	1	37	20.23	20.08	20.22	20.13	20.16		
15	64QAM	1	74	20.25	20.11	20.21	20.06	20.10	22	2
15	64QAM	36	0	19.03	19.18	19.01	19.19	19.10		
15	64QAM	36	20	19.21	19.17	19.22	19.17	19.12		
15	64QAM	36	39	19.12	19.17	19.15	19.12	19.14		
15	64QAM	75	0	19.12	19.21	19.04	19.14	19.19	21	3
15	256QAM	1	0	17.14	17.30	17.06	17.27	17.03		
15	256QAM	1	37	17.12	17.14	17.14	17.15	17.16		
15	256QAM	1	74	17.19	17.08	17.16	17.04	17.15		
15	256QAM	36	0	17.03	17.11	17.07	17.09	17.12	19	5
15	256QAM	36	20	17.19	17.25	17.20	17.20	17.13		
15	256QAM	36	39	17.19	17.12	17.16	17.09	17.15		
15	256QAM	75	0	17.07	17.27	17.08	17.28	17.29		
Channel				39700 <th>40160<th>40620<th>41080<th>41540</th><th></th></th></th></th>	40160 <th>40620<th>41080<th>41540</th><th></th></th></th>	40620 <th>41080<th>41540</th><th></th></th>	41080 <th>41540</th> <th></th>	41540		
Frequency (MHz)				25001 <th>25457<th>2593<th>26383<th>26839</th><th></th></th></th></th>	25457 <th>2593<th>26383<th>26839</th><th></th></th></th>	2593 <th>26383<th>26839</th><th></th></th>	26383 <th>26839</th> <th></th>	26839		
10	QPSK	0	0	22.17	22.18	22.22	22.13	22.20	24	0
10	QPSK	1	25	22.11	22.04	22.17	22.03	22.20		
10	QPSK	1	49	22.12	22.14	22.16	22.14	22.20		
10	QPSK	25	0	21.04	21.06	21.03	21.04	21.05		
10	QPSK	25	12	21.09	21.14	21.09	21.09	21.02	23	1
10	QPSK	25	12	21.09	21.12	21.12	21.16	21.11		
10	QPSK	50	0	21.02	21.06	21.00	21.02	21.03		
10	16QAM	1	0	21.10	21.10	21.13	21.13	21.20		
10	16QAM	1	25	21.02	21.10	21.12	21.09	21.11	23	1
10	16QAM	1	49	21.12	21.10	21.06	21.09	21.21		
10	16QAM	25	0	20.14	20.15	20.13	20.13	20.20		
10	16QAM	25	12	20.15	20.12	20.20	20.07	20.12		
10	16QAM	25	25	20.10	20.08	20.06	20.04	20.26	22	2
10	16QAM	50	0	20.28	20.15	20.25	20.19	20.17		
10	64QAM	1	0	20.19	20.21	20.15	20.20	20.10		
10	64QAM	1	25	20.22	20.12	20.19	20.14	20.18		
10	64QAM	1	49	20.25	20.08	20.20	20.06	20.09	22	2
10	64QAM	25	0	19.06	19.21	19.03	19.16	19.13		
10	64QAM	25	12	19.18	19.20	19.23	19.17	19.15		
10	64QAM	25	25	19.10	19.15	19.13	19.12	19.15		
10	64QAM	50	0	19.09	19.18	19.02	19.16	19.16	21	3
10	256QAM	1	0	17.13	17.29	17.08	17.25	17.07		
10	256QAM	1	25	17.14	17.16	17.17	17.11	17.18		
10	256QAM	1	49	17.18	17.08	17.18	17.07	17.15		
10	256QAM	25	0	17.02	17.08	17.00	17.06	17.20	19	5
10	256QAM	25	12	17.23	17.24	17.19	17.18	17.10		
10	256QAM	25	25	17.20	17.07	17.17	17.08	17.18		
10	256QAM	50	0	17.07	17.28	17.07	17.27	17.25		
Channel				39675 <th>40148<th>40620<th>41093<th>41565</th><th></th></th></th></th>	40148 <th>40620<th>41093<th>41565</th><th></th></th></th>	40620 <th>41093<th>41565</th><th></th></th>	41093 <th>41565</th> <th></th>	41565		
Frequency (MHz)				2498.5 <th>2545.8<th>2593<th>2640.30<th>2687.5</th><th></th></th></th></th>	2545.8 <th>2593<th>2640.30<th>2687.5</th><th></th></th></th>	2593 <th>2640.30<th>2687.5</th><th></th></th>	2640.30 <th>2687.5</th> <th></th>	2687.5		
5	QPSK	1	0	22.17	22.13	22.25	22.12	22.20	24	0
5	QPSK	1	12	22.11	22.07	22.15	22.04	22.24		
5	QPSK	1	24	22.16	22.17	22.14	22.14	22.16		
5	QPSK	12	0	21.06	21.06	21.01	21.07	21.04		
5	QPSK	12	7	21.12	21.11	21.08	21.13	21.05	23	1
5	QPSK	12	13	21.14	21.17	21.06	21.14	21.12		
5	QPSK	25	0	21.01	21.07	21.05	21.03	21.00		
5	16QAM	1	0	21.02	21.11	21.12	21.12	21.22		
5	16QAM	1	12	21.04	21.15	21.03	21.09	21.11	23	1
5	16QAM	1	24	21.10	21.11	21.09	21.08	21.11		
5	16QAM	12	0	20.17	20.14	20.12	20.14	20.19		
5	16QAM	12	7	20.19	20.06	20.17	20.11	20.25		
5	16QAM	12	13	20.07	20.07	20.04	20.05	20.27	22	2
5	16QAM	25	0	20.31	20.15	20.26	20.14	20.18		
5	16QAM	25	0	20.18	20.21	20.15	20.20	20.08		
5	64QAM	1	12	20.26	20.07	20.20	20.09	20.18		
5	64QAM	1	24	20.28	20.06	20.21	20.06	20.12	22	2
5	64QAM	12	0	19.06	19.20	19.01	19.17	19.15		
5	64QAM	12	7	19.18	19.16	19.24	19.22	19.13		
5	64QAM	12	13	19.13	19.18	19.13	19.16	19.12		
5	64QAM	12	13	19.10	19.19	19.09	19.16	19.15	21	3
5	256QAM	1	0	17.15	17.29	17.09	17.27	17.07		
5	256QAM	1	12	17.15	17.15	17.09	17.11	17.18		
5	256QAM	1	24	17.17	17.09	17.15	17.05	17.17		
5	256QAM	12	0	17.23	17.24	17.19	17.18	17.10	19	5
5	256QAM	10	7	17.20	17.26	17.17	17.17	17.18		
5	256QAM	12	13	17.07	17.23	17.06	17.27	17.25		
5	256QAM	25	0	17.07	17.27	17.04	17.24	17.27		

Band 7 Ant 7									
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				20650	21100	21650			
Frequency (MHz)				2610	2635	2660			
20	QPSK	1	0	20.41	20.49	20.41	22	0	
20	QPSK	1	49	20.21	20.24	20.16			
20	QPSK	1	99	20.25	20.44	20.39			
20	QPSK	50	0	19.27	19.43	19.35	21	1	
20	QPSK	50	24	19.37	19.41	19.40			
20	QPSK	50	50	19.33	19.38	19.26			
20	QPSK	100	0	19.24	19.50	19.39	21	1	
20	16QAM	1	0	19.37	19.40	19.28			
20	16QAM	1	49	19.20	19.35	19.22			
20	16QAM	1	99	19.24	19.30	19.25	20	2	
20	16QAM	50	0	18.18	18.35	18.32			
20	16QAM	50	24	18.31	18.34	18.18			
20	16QAM	50	50	18.26	18.35	18.28	20	2	
20	16QAM	100	0	18.38	18.31	18.27			
20	64QAM	1	0	18.31	18.17	18.26			
20	64QAM	1	49	18.25	18.23	18.14	19	3	
20	64QAM	1	99	18.30	18.18	18.20			
20	64QAM	50	0	17.26	17.44	17.40			
20	64QAM	50	24	17.43	17.34	17.28	17	5	
20	64QAM	50	50	17.22	17.44	17.42			
20	64QAM	100	0	17.42	17.22	17.38			
20	256QAM	1	0	15.33	15.27	15.39	17	5	
20	256QAM	1	49	15.39	15.36	15.30			
20	256QAM	1	99	15.31	15.23	15.46			
20	256QAM	50	0	15.35	15.38	15.38	17	5	
20	256QAM	50	24	15.36	15.22	15.26			
20	256QAM	50	50	15.45	15.28	15.32			
20	256QAM	100	0	15.36	15.37	15.41			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	20.39	20.46	20.38			
15	QPSK	1	37	20.18	20.25	20.22	22	0	
15	QPSK	1	74	20.30	20.43	20.37			
15	QPSK	36	0	19.25	19.44	19.30			
15	QPSK	36	20	19.34	19.38	19.36	21	1	
15	QPSK	36	39	19.30	19.39	19.27			
15	QPSK	75	0	19.24	19.51	19.37			
15	16QAM	1	0	19.40	19.43	19.24	21	1	
15	16QAM	1	37	19.20	19.36	19.22			
15	16QAM	1	74	19.23	19.30	19.23			
15	16QAM	36	0	18.16	18.31	18.32	20	2	
15	16QAM	36	20	18.28	18.38	18.17			
15	16QAM	36	39	18.25	18.31	18.23			
15	16QAM	75	0	18.35	18.33	18.29	20	2	
15	64QAM	1	0	18.28	18.17	18.27			
15	64QAM	1	37	18.25	18.24	18.13			
15	64QAM	1	74	18.33	18.20	18.17	19	3	
15	64QAM	36	0	17.28	17.44	17.38			
15	64QAM	36	20	17.38	17.32	17.30			
15	64QAM	36	39	17.24	17.41	17.38	17	5	
15	64QAM	75	0	17.44	17.24	17.34			
15	256QAM	1	0	15.35	15.24	15.36			
15	256QAM	1	37	15.41	15.37	15.28	17	5	
15	256QAM	1	74	15.30	15.24	15.43			
15	256QAM	36	0	15.32	15.39	15.37			
15	256QAM	36	20	15.34	15.24	15.29	17	5	
15	256QAM	36	39	15.46	15.30	15.35			
15	256QAM	75	0	15.39	15.38	15.42			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	20.39	20.46	20.35	22	0	
10	QPSK	1	25	20.30	20.25	20.19			
10	QPSK	1	49	20.26	20.40	20.38			
10	QPSK	25	0	19.25	19.40	19.31	21	1	
10	QPSK	25	12	19.38	19.36	19.40			
10	QPSK	25	25	19.32	19.37	19.25			
10	QPSK	50	0	19.23	19.51	19.40	21	1	
10	16QAM	1	0	19.41	19.41	19.29			
10	16QAM	1	25	19.24	19.37	19.21			
10	16QAM	1	49	19.25	19.30	19.24	20	2	
10	16QAM	25	0	18.17	18.28	18.32			
10	16QAM	25	12	18.28	18.37	18.18			
10	16QAM	25	25	18.21	18.34	18.24	20	2	
10	16QAM	50	0	18.34	18.32	18.27			
10	64QAM	1	0	18.30	18.19	18.23			
10	64QAM	1	25	18.21	18.19	18.10	19	3	
10	64QAM	1	49	18.33	18.19	18.19			
10	64QAM	25	0	17.30	17.43	17.42			
10	64QAM	25	12	17.42	17.31	17.27	17	5	
10	64QAM	25	25	17.22	17.43	17.43			
10	64QAM	50	0	17.44	17.25	17.37			
10	256QAM	1	0	15.36	15.24	15.40	17	5	
10	256QAM	1	25	15.38	15.36	15.29			
10	256QAM	1	49	15.30	15.24	15.44			
10	256QAM	25	0	15.33	15.37	15.39	17	5	
10	256QAM	25	12	15.38	15.25	15.30			
10	256QAM	25	25	15.43	15.30	15.31			
10	256QAM	50	0	15.41	15.37	15.43			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	20.38	20.43	20.37			
5	QPSK	1	12	20.21	20.24	20.19	22	0	
5	QPSK	1	24	20.29	20.42	20.41			
5	QPSK	12	0	19.24	19.44	19.33			
5	QPSK	12	7	19.35	19.38	19.37	21	1	
5	QPSK	12	13	19.34	19.40	19.26			
5	QPSK	25	0	19.28	19.50	19.39			
5	16QAM	1	0	19.40	19.44	19.24	21	1	
5	16QAM	1	12	19.23	19.36	19.20			
5	16QAM	1	24	19.25	19.29	19.24			
5	16QAM	12	0	18.16	18.34	18.33	20	2	
5	16QAM	12	7	18.27	18.35	18.20			
5	16QAM	12	13	18.23	18.31	18.29			
5	16QAM	25	0	18.37	18.28	18.24	20	2	
5	64QAM	1	0	18.28	18.20	18.21			
5	64QAM	1	12	18.22	18.18	18.11			
5	64QAM	1	24	18.32	18.19	18.18	19	3	
5	64QAM	12	0	17.29	17.41	17.40			
5	64QAM	12	7	17.42	17.31	17.27			
5	64QAM	12	13	17.18	17.41	17.38	17	5	
5	64QAM	25	0	17.43	17.25	17.35			
5	256QAM	1	0	15.35	15.22	15.37			
5	256QAM	1	12	15.43	15.33	15.31	17	5	
5	256QAM	1	24	15.27	15.26	15.42			
5	256QAM	12	0	15.31	15.38	15.37			
5	256QAM	12	7	15.33	15.23	15.30	17	5	
5	256QAM	12	13	15.42	15.29	15.35			
5	256QAM	25	0	15.37	15.38	15.43			

Band 38 Ant 7										
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				37650	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	21.23	21.27	21.16	22.5	0		
20	QPSK	1	49	21.15	21.10	21.10				
20	QPSK	1	99	21.03	21.16	21.04				
20	QPSK	50	0	20.21	20.25	20.16				
20	QPSK	50	24	20.20	20.17	20.24	21.5	1		
20	QPSK	50	50	20.18	20.12	20.06				
20	QPSK	100	0	20.17	20.27	20.20				
20	16QAM	1	0	20.26	20.25	20.28				
20	16QAM	1	49	20.14	20.08	20.23	21.5	1		
20	16QAM	1	99	20.19	20.23	20.24				
20	16QAM	50	0	19.12	19.10	19.11				
20	16QAM	50	24	19.18	19.02	19.24				
20	16QAM	50	50	19.18	19.22	19.24	20.5	2		
20	16QAM	100	0	19.11	19.24	19.02				
20	64QAM	1	0	19.25	19.04	19.17				
20	64QAM	1	49	19.10	19.03	19.01				
20	64QAM	1	99	19.16	19.25	19.26	20.5	2		
20	64QAM	50	0	18.20	18.14	18.01				
20	64QAM	50	24	18.02	18.13	18.04				
20	64QAM	50	50	18.10	18.14	18.15				
20	64QAM	100	0	18.02	18.24	18.23	19.5	3		
20	256QAM	1	0	16.09	16.18	16.08				
20	256QAM	1	49	16.09	16.21	16.17				
20	256QAM	1	99	16.06	16.15	16.06				
20	256QAM	50	0	16.07	16.10	16.26	17.5	5		
20	256QAM	50	24	16.25	16.07	16.10				
20	256QAM	50	50	16.02	16.07	16.11				
20	256QAM	100	0	16.18	16.10	16.05				
Channel				37625	38000	38175	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	21.19	21.26	21.12	22.5	0		
15	QPSK	1	37	21.17	21.09	21.13				
15	QPSK	1	74	21.07	21.14	21.01				
15	QPSK	36	0	20.20	20.26	20.14				
15	QPSK	36	20	20.26	20.15	20.24	21.5	1		
15	QPSK	36	39	20.14	20.12	20.06				
15	QPSK	75	0	20.17	20.28	20.20				
15	16QAM	1	0	20.28	20.24	20.25				
15	16QAM	1	37	20.13	20.06	20.28	21.5	1		
15	16QAM	1	74	20.22	20.22	20.25				
15	16QAM	36	0	19.14	19.10	19.10				
15	16QAM	36	20	19.21	19.08	19.25				
15	16QAM	36	39	19.21	19.25	19.22	20.5	2		
15	16QAM	75	0	19.08	19.25	19.06				
15	64QAM	1	0	19.30	19.02	19.17				
15	64QAM	1	37	19.08	19.05	19.02				
15	64QAM	1	74	19.14	19.20	19.25	20.5	2		
15	64QAM	36	0	18.25	18.15	18.05				
15	64QAM	36	20	18.06	18.18	18.10				
15	64QAM	36	39	18.12	18.11	18.17				
15	64QAM	75	0	18.04	18.20	18.22	19.5	3		
15	256QAM	1	0	16.10	16.19	16.04				
15	256QAM	1	37	16.11	16.22	16.20				
15	256QAM	1	74	16.06	16.17	16.08				
15	256QAM	36	0	16.08	16.10	16.25	17.5	5		
15	256QAM	36	20	16.21	16.09	16.11				
15	256QAM	36	39	16.06	16.09	16.05				
15	256QAM	75	0	16.17	16.15	16.04				
Channel				37600	38000	38200	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	21.19	21.20	21.12	22.5	0		
10	QPSK	1	25	21.14	21.12	21.13				
10	QPSK	1	49	21.04	21.13	21.02				
10	QPSK	25	0	20.18	20.26	20.11				
10	QPSK	25	12	20.25	20.18	20.21	21.5	1		
10	QPSK	25	25	20.14	20.14	20.05				
10	QPSK	50	0	20.15	20.23	20.16				
10	16QAM	1	0	20.31	20.29	20.25				
10	16QAM	1	25	20.16	20.10	20.25	21.5	1		
10	16QAM	1	49	20.22	20.22	20.19				
10	16QAM	25	0	19.17	19.09	19.15				
10	16QAM	25	12	19.23	19.05	19.26				
10	16QAM	25	25	19.21	19.24	19.25	20.5	2		
10	16QAM	50	0	19.07	19.28	19.03				
10	64QAM	1	0	19.28	19.07	19.14				
10	64QAM	1	25	19.12	19.04	19.00				
10	64QAM	1	49	19.14	19.22	19.25	20.5	2		
10	64QAM	25	0	18.19	18.13	18.01				
10	64QAM	25	12	18.07	18.16	18.10				
10	64QAM	25	25	18.08	18.16	18.15				
10	64QAM	50	0	18.03	18.21	18.23	19.5	3		
10	256QAM	1	0	16.06	16.15	16.05				
10	256QAM	1	25	16.09	16.25	16.23				
10	256QAM	1	49	16.05	16.18	16.05				
10	256QAM	25	0	16.05	16.14	16.26	17.5	5		
10	256QAM	25	12	16.21	16.11	16.05				
10	256QAM	25	25	16.01	16.11	16.08				
10	256QAM	50	0	16.15	16.15	16.04				
Channel				37775	38000	38225	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	21.20	21.20	21.12	22.5	0		
5	QPSK	1	12	21.17	21.12	21.10				
5	QPSK	1	24	21.04	21.11	21.00				
5	QPSK	12	0	20.20	20.24	20.12				
5	QPSK	12	7	20.22	20.13	20.19	21.5	1		
5	QPSK	12	13	20.16	20.14	20.02				
5	QPSK	25	0	20.16	20.28	20.18				
5	16QAM	1	0	20.29	20.25	20.26				
5	16QAM	1	12	20.16	20.09	20.24	21.5	1		
5	16QAM	1	24	20.19	20.20	20.19				
5	16QAM	12	0	19.14	19.07	19.14				
5	16QAM	12	7	19.22	19.08	19.27				
5	16QAM	12	13	19.18	19.24	19.23	20.5	2		
5	16QAM	25	0	19.12	19.24	19.07				
5	64QAM	1	0	19.26	19.07	19.18				
5	64QAM	1	12	19.12	19.03	19.02				
5	64QAM	1	24	19.14	19.22	19.24	20.5	2		
5	64QAM	12	0	18.22	18.13	18.03				
5	64QAM	12	7	18.04	18.17	18.05				
5	64QAM	12	13	18.11	18.10	18.16				
5	64QAM	25	0	18.02	18.22	18.21	19.5	3		
5	256QAM	1	0	16.09	16.18	16.03				
5	256QAM	1	12	16.10	16.23	16.22				
5	256QAM	1	24	16.08	16.18	16.05				
5	256QAM	12	0	16.04	16.09	16.26	17.5	5		
5	256QAM	12	7	16.25	16.10	16.11				
5	256QAM	12	13	16.02	16.10	16.10				
5	256QAM	25	0	16.18	16.10	16.04				

Band 41 Ant 7										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)	
Channel				39750	40165	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	20.89	20.93	21.28	21.04	21.06	22.5	0
20	QPSK	1	49	20.87	20.92	21.18	20.93	21.06		
20	QPSK	1	99	20.84	20.87	21.18	20.98	21.07		
20	QPSK	50	0	19.90	19.90	20.21	20.05	20.08	21.5	1
20	QPSK	50	24	19.96	19.94	20.18	19.95	20.08		
20	QPSK	100	0	19.84	19.85	20.17	19.96	20.07		
20	QPSK	100	0	19.86	19.89	20.18	20.01	20.07	21.5	1
20	16QAM	1	0	20.18	20.12	20.20	20.21	20.23		
20	16QAM	1	49	20.11	20.07	20.09	20.11	20.12		
20	16QAM	50	0	20.13	20.17	20.21	20.04	20.24	20.5	2
20	16QAM	50	0	19.13	19.11	19.13	19.00	19.07		
20	16QAM	50	24	19.06	19.12	19.11	19.22	19.14		
20	16QAM	50	50	19.16	19.05	19.19	19.24	19.17	19.5	3
20	16QAM	100	0	19.22	19.15	19.06	19.25	19.00		
20	16QAM	100	0	19.11	19.19	19.18	19.20	19.21		
20	64QAM	1	49	19.15	19.25	19.22	19.15	19.18	20.5	2
20	64QAM	1	99	19.13	19.04	19.08	19.23	19.05		
20	64QAM	50	0	18.19	18.19	18.24	18.30	18.11		
20	64QAM	50	24	18.24	18.14	18.17	18.23	18.25	19.5	3
20	64QAM	50	50	18.21	18.26	18.20	18.23	18.16		
20	64QAM	100	0	18.08	18.23	18.25	18.26	18.28		
20	256QAM	0	0	16.07	16.14	16.29	16.09	16.23	17.5	5
20	256QAM	1	49	16.29	16.07	16.09	16.07	16.27		
20	256QAM	1	99	16.23	16.32	16.21	16.17	16.14		
20	256QAM	50	0	16.25	16.29	16.06	16.26	16.11	17.5	5
20	256QAM	50	24	16.02	16.12	16.10	16.23	16.05		
20	256QAM	100	0	16.18	16.12	16.10	16.25	16.05		
20	256QAM	100	0	16.07	16.18	16.04	16.24	16.27		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2505.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	20.85	20.93	21.24	21.00	21.07	23	0
15	QPSK	1	37	20.85	20.90	21.18	20.98	21.07		
15	QPSK	1	74	20.81	20.87	21.16	20.94	21.03		
15	QPSK	36	0	19.86	19.92	20.17	20.06	20.09	21.5	1
15	QPSK	36	20	19.87	19.96	20.17	19.94	20.05		
15	QPSK	36	39	19.84	19.87	20.18	19.97	20.03		
15	QPSK	75	0	19.88	19.86	20.16	19.98	20.07	21.5	1
15	64QAM	1	0	20.15	20.13	20.19	20.18	20.21		
15	16QAM	1	37	20.08	20.04	20.08	20.11	20.14		
15	16QAM	1	74	20.12	20.13	20.06	20.05	20.20	20.5	2
15	16QAM	36	0	19.10	19.08	19.13	18.97	19.05		
15	16QAM	36	20	19.03	19.08	19.13	19.22	19.11		
15	16QAM	36	39	19.12	19.02	19.15	19.22	19.13	20.5	2
15	16QAM	36	0	19.19	19.16	19.09	19.22	19.02		
15	64QAM	1	0	19.07	19.20	19.15	19.16	19.21		
15	64QAM	1	37	19.12	19.02	19.23	19.13	19.19	19.5	3
15	64QAM	1	74	19.09	19.01	19.07	19.19	19.06		
15	64QAM	36	0	18.16	18.20	18.22	18.29	18.10		
15	64QAM	36	20	18.25	18.12	18.13	18.23	18.25	17.5	5
15	64QAM	36	39	18.21	18.25	18.20	18.23	18.18		
15	64QAM	75	0	18.05	18.24	18.06	18.25	18.24		
15	256QAM	1	0	16.07	16.10	16.27	16.10	16.24	17.5	5
15	256QAM	1	37	16.30	16.05	16.07	16.08	16.24		
15	256QAM	1	74	16.19	16.32	16.19	16.17	16.11		
15	256QAM	36	0	16.23	16.30	16.26	16.28	16.22	17.5	5
15	256QAM	36	20	16.02	16.14	16.08	16.24	16.04		
15	256QAM	36	39	16.15	16.12	16.07	16.23	16.26		
15	256QAM	75	0	16.04	16.16	16.03	16.25	16.28		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2500	2547	2593	2639	2685		
10	QPSK	1	0	20.87	20.91	21.24	21.00	21.07	23	0
10	QPSK	1	25	20.84	20.89	21.20	20.94	21.04		
10	QPSK	1	49	20.82	20.87	21.16	20.94	21.08		
10	QPSK	25	0	19.88	19.86	20.18	20.07	20.06	21.5	1
10	QPSK	25	12	19.84	19.93	20.18	19.93	20.05		
10	QPSK	25	25	19.81	19.85	20.15	19.96	20.02		
10	QPSK	50	0	19.87	19.90	20.16	20.00	20.03	21.5	1
10	16QAM	1	0	20.14	20.13	20.21	20.21	20.22		
10	16QAM	1	25	20.08	20.07	20.05	20.07	20.12		
10	16QAM	1	49	20.14	20.15	20.09	20.02	20.25	20.5	2
10	16QAM	25	0	19.14	19.07	19.14	19.06	19.16		
10	16QAM	25	12	19.02	19.13	19.09	19.20	19.16		
10	16QAM	25	25	19.17	19.02	19.15	19.20	19.19	20.5	2
10	16QAM	50	0	19.22	19.16	19.05	19.25	19.00		
10	64QAM	1	0	19.12	19.19	19.15	19.20	19.21		
10	64QAM	1	25	19.11	19.24	19.18	19.16	19.18	19.5	3
10	64QAM	1	49	19.15	19.03	19.08	19.22	19.04		
10	64QAM	25	0	18.16	18.18	18.20	18.27	18.09		
10	64QAM	25	12	18.21	18.13	18.14	18.23	18.23	17.5	5
10	64QAM	25	25	18.20	18.24	18.20	18.21	18.14		
10	64QAM	50	0	18.04	18.24	18.07	18.25	18.25		
10	256QAM	1	0	16.05	16.13	16.31	16.09	16.20	17.5	5
10	256QAM	1	25	16.30	16.04	16.09	16.09	16.28		
10	256QAM	1	49	16.22	16.33	16.20	16.18	16.12		
10	256QAM	25	0	16.21	16.28	16.04	16.24	16.18	17.5	5
10	256QAM	25	12	16.01	16.11	16.09	16.25	16.03		
10	256QAM	25	25	16.19	16.11	16.05	16.21	16.25		
10	256QAM	50	0	16.07	16.17	16.05	16.22	16.23		
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	20.88	20.89	21.24	21.06	21.08	23	0
5	QPSK	1	12	20.83	20.92	21.15	20.92	21.02		
5	QPSK	1	24	20.84	20.86	21.16	20.95	21.07		
5	QPSK	12	0	19.89	19.86	20.20	20.02	20.02	21.5	1
5	QPSK	12	7	19.82	19.91	20.18	19.92	20.08		
5	QPSK	25	0	19.87	19.80	20.20	19.97	20.05		
5	16QAM	1	0	20.15	20.13	20.20	20.19	20.20	21.5	1
5	16QAM	1	12	20.07	20.05	20.05	20.10	20.09		
5	16QAM	24	0	20.13	20.14	20.17	20.05	20.20		
5	16QAM	12	0	19.10	19.08	19.13	18.99	19.03	20.5	2
5	16QAM	12	7	19.05	19.13	19.09	19.20	19.13		
5	16QAM	12	13	19.18	19.02	19.19	19.22	19.13		
5	16QAM	25	0	19.23	19.16	19.05	19.25	19.01	19.5	3
5	16QAM	25	0	19.11	19.18	19.15	19.18	19.23		
5	64QAM	1	12	19.16	19.26	19.23	19.17	19.19		
5	64QAM	1	24	19.13	19.04	19.07	19.21	19.04	17.5	5
5	64QAM	12	0	18.20	18.15	18.25	18.27	18.07		
5	64QAM	12	7	18.24	18.12	18.14	18.23	18.23		
5	64QAM	12	13	18.20	18.26	18.19	18.21	18.17	17.5	5
5	256QAM	1	0	16.05	16.14	16.28	16.10	16.24		
5	256QAM	1	12	16.28	16.03	16.07	16.06	16.27		
5	256QAM	1	24	16.19	16.31	16.19	16.18	16.14	17.5	5
5	256QAM	12	0	16.25	16.27	16.07	16.24	16.20		
5	256QAM	18	7	15.98	16.10	16.09	16.19	16.03		
5	256QAM	12	13	16.18	16.12	16.07	16.23	16.24	17.5	5
5	256QAM	25	0	16.05	16.19	16.06	16.21	16.25		



Band 42 FCC Ant 8											
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				43190	43340	43490	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				3560	3575	3590					
20	QPSK	1	0	23.19	23.34	23.14	24.5	0			
20	QPSK	1	49	23.18	23.21	23.15					
20	QPSK	1	99	23.21	23.27	23.09					
20	QPSK	50	0	22.18	22.38	22.12	23.5	1			
20	QPSK	50	24	22.26	22.31	22.11					
20	QPSK	50	50	22.26	22.32	22.15					
20	QPSK	100	0	22.26	22.30	22.15	23.5	1			
20	16QAM	1	0	22.24	22.35	22.18					
20	16QAM	1	49	22.22	22.30	22.09					
20	16QAM	1	99	22.18	22.36	22.13	22.5	2			
20	16QAM	50	0	21.23	21.37	21.09					
20	16QAM	50	24	21.24	21.32	21.20					
20	16QAM	50	50	21.22	21.34	21.16	21.5	3			
20	16QAM	100	0	21.27	21.27	21.15					
20	64QAM	1	0	21.27	21.32	21.12					
20	64QAM	1	49	21.26	21.25	21.20	22.5	2			
20	64QAM	1	99	21.18	21.27	21.13					
20	64QAM	50	0	20.28	20.27	20.08					
20	64QAM	50	24	20.19	20.31	20.16	21.5	3			
20	64QAM	50	50	20.19	20.30	20.12					
20	64QAM	100	0	20.29	20.23	20.21					
20	256QAM	1	0	18.23	18.25	18.15	19.5	5			
20	256QAM	1	49	18.25	18.32	18.16					
20	256QAM	1	99	18.22	18.37	18.20					
20	256QAM	50	0	18.21	18.35	18.12	19.5	5			
20	256QAM	50	24	18.23	18.28	18.12					
20	256QAM	50	50	18.28	18.31	18.20					
20	256QAM	100	0	18.22	18.35	18.18	Channel				
Frequency (MHz)				43165	43340	43515	Tune-up limit (dBm)	MPR (dB)			
				3527.5	3576	3592.5	Tune-up limit (dBm)	MPR (dB)			
15	QPSK	1	0	23.13	23.27	23.08					
15	QPSK	1	37	23.14	23.13	23.09	24.5	0			
15	QPSK	1	74	23.14	23.23	22.99					
15	QPSK	36	0	22.13	22.32	22.07	23.5	1			
15	QPSK	36	20	22.12	22.21	22.04					
15	QPSK	36	39	22.12	22.21	22.10					
15	QPSK	75	0	22.23	22.15	22.05	23.5	1			
15	16QAM	1	0	22.11	22.21	22.15					
15	16QAM	1	37	22.14	22.24	22.01					
15	16QAM	1	74	22.10	22.23	22.06	22.5	2			
15	16QAM	36	0	21.14	21.25	20.94					
15	16QAM	36	20	21.12	21.21	21.09					
15	16QAM	36	39	21.19	21.24	21.09	22.5	2			
15	16QAM	75	0	21.19	21.12	21.02					
15	64QAM	1	0	21.21	21.24	21.06					
15	64QAM	1	37	21.14	21.20	21.15	22.5	2			
15	64QAM	1	74	21.10	21.22	21.10					
15	64QAM	36	0	20.16	20.22	19.95					
15	64QAM	36	20	20.04	20.17	20.02	21.5	3			
15	64QAM	36	39	20.08	20.19	20.01					
15	64QAM	75	0	20.25	20.14	20.17					
15	256QAM	1	0	18.16	18.17	18.06	19.5	5			
15	256QAM	1	37	18.11	18.19	18.02					
15	256QAM	1	74	18.18	18.28	18.16					
15	256QAM	36	0	18.09	18.31	18.08	19.5	5			
15	256QAM	36	20	18.09	18.22	18.08					
15	256QAM	36	39	18.17	18.26	18.07					
15	256QAM	75	0	18.15	18.31	18.09	Channel				
Frequency (MHz)				43140	43340	43540	Tune-up limit (dBm)	MPR (dB)			
				3555	3575	3595	Tune-up limit (dBm)	MPR (dB)			
10	QPSK	1	0	23.06	23.23	23.03					
10	QPSK	1	25	23.04	23.14	23.09	24.5	0			
10	QPSK	1	49	23.14	23.20	22.97					
10	QPSK	25	0	22.13	22.30	22.00					
10	QPSK	25	12	22.14	22.17	21.97	23.5	1			
10	QPSK	25	25	22.13	22.22	22.03					
10	QPSK	50	0	22.17	22.20	22.02					
10	16QAM	1	0	22.10	22.21	22.05	23.5	1			
10	16QAM	1	25	22.15	22.22	22.05					
10	16QAM	1	49	22.14	22.22	21.98					
10	16QAM	25	0	21.16	21.32	21.01	22.5	2			
10	16QAM	25	12	21.19	21.21	21.09					
10	16QAM	25	25	21.13	21.24	21.07					
10	16QAM	50	0	21.21	21.22	21.06	21.5	3			
10	64QAM	1	0	21.15	21.18	21.04					
10	64QAM	1	25	21.15	21.17	21.12					
10	64QAM	1	49	21.05	21.21	21.10	22.5	2			
10	64QAM	25	0	20.18	20.18	20.02					
10	64QAM	25	12	20.15	20.21	20.08					
10	64QAM	25	25	20.04	20.24	20.07	21.5	3			
10	64QAM	50	0	20.16	20.19	20.06					
10	256QAM	1	0	18.10	18.13	18.06					
10	256QAM	1	25	18.17	18.29	18.03	19.5	5			
10	256QAM	1	49	18.09	18.31	18.09					
10	256QAM	25	0	18.14	18.32	18.01					
10	256QAM	25	12	18.17	18.15	17.98	19.5	5			
10	256QAM	25	25	18.23	18.17	18.14					
10	256QAM	50	0	18.18	18.22	18.08				Channel	
Frequency (MHz)				43115	43340	43565	Tune-up limit (dBm)			MPR (dB)	
				3552.5	3575	3597.5	Tune-up limit (dBm)	MPR (dB)			
5	QPSK	1	0	23.09	23.20	23.10					
5	QPSK	1	12	23.10	23.15	23.12	24.5	0			
5	QPSK	1	24	23.10	23.23	23.03					
5	QPSK	12	0	22.13	22.23	22.02					
5	QPSK	12	7	22.13	22.19	21.97	23.5	1			
5	QPSK	12	13	22.22	22.27	22.02					
5	QPSK	25	0	22.21	22.19	22.04					
5	16QAM	1	0	22.14	22.21	22.04	23.5	1			
5	16QAM	1	12	22.13	22.18	21.98					
5	16QAM	1	24	22.09	22.23	22.09					
5	16QAM	12	0	21.16	21.33	21.00	22.5	2			
5	16QAM	12	7	21.11	21.28	21.14					
5	16QAM	12	13	21.14	21.25	21.09					
5	16QAM	25	0	21.18	21.13	21.05	22.5	2			
5	64QAM	1	0	21.23	21.22	20.97					
5	64QAM	1	12	21.11	21.16	21.15					
5	64QAM	1	24	21.08	21.24	21.00	22.5	2			
5	64QAM	12	0	20.24	20.23	19.98					
5	64QAM	12	7	20.13	20.20	20.12					
5	64QAM	12	13	20.09	20.26	19.97	21.5	3			
5	64QAM	25	0	20.16	20.11	20.16					
5	256QAM	1	0	18.08	18.22	18.07					
5	256QAM	1	12	18.19	18.23	18.09	19.5	5			
5	256QAM	1	24	18.18	18.32	18.09					
5	256QAM	12	0	18.06	18.22	18.00					
5	256QAM	12	7	18.11	18.11	18.09	19.5	5			
5	256QAM	12	13	18.14	18.17	18.14					
5	256QAM	25	0	18.12	18.32	18.15					

Band 42 FCC Part27Q Ant 8									
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				42190	42590	42990	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	23.32	23.39	23.23	24.5	0	
20	QPSK	1	49	23.30	23.36	23.19			
20	QPSK	1	99	23.29	23.38	23.24			
20	QPSK	50	0	22.29	22.43	22.33			
20	QPSK	50	24	22.34	22.39	22.22	23.5	1	
20	QPSK	50	50	22.33	22.39	22.20			
20	QPSK	100	0	22.31	22.41	22.25			
20	QPSK	1	0	22.31	22.38	22.25			
20	16QAM	1	49	22.30	22.39	22.21	23.5	1	
20	16QAM	1	99	22.32	22.41	22.23			
20	16QAM	50	0	21.33	21.40	21.24			
20	16QAM	50	24	21.34	21.41	21.25			
20	16QAM	50	50	21.32	21.37	21.25	22.5	2	
20	16QAM	100	0	21.33	21.39	21.25			
20	64QAM	1	0	21.32	21.40	21.25			
20	64QAM	1	49	21.34	21.37	21.23			
20	64QAM	1	99	21.31	21.38	21.24	22.5	2	
20	64QAM	50	0	20.34	20.37	20.21			
20	64QAM	50	24	20.30	20.36	20.24			
20	64QAM	50	50	20.32	20.41	20.25			
20	64QAM	100	0	20.34	20.37	20.25	21.5	3	
20	256QAM	1	0	18.31	18.39	18.22			
20	256QAM	1	49	18.34	18.38	18.25			
20	256QAM	1	99	18.31	18.40	18.23			
20	256QAM	50	0	18.32	18.39	18.25	19.5	5	
20	256QAM	50	24	18.29	18.39	18.20			
20	256QAM	50	50	18.34	18.39	18.25			
20	256QAM	100	0	18.35	18.40	18.23			
Channel				42165	42590	43015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3157.5	3200	3242.5			
15	QPSK	1	0	23.16	23.24	23.11	24.5	0	
15	QPSK	1	49	23.17	23.25	23.08			
15	QPSK	1	74	23.14	23.23	23.12			
15	QPSK	36	0	22.19	22.29	22.08			
15	QPSK	36	20	22.18	22.26	22.10	23.5	1	
15	QPSK	36	39	22.22	22.24	22.07			
15	QPSK	72	0	22.18	22.25	22.05			
15	16QAM	1	0	22.17	22.27	22.13			
15	16QAM	1	37	22.15	22.27	22.08	23.5	1	
15	16QAM	1	74	22.20	22.31	22.11			
15	16QAM	36	0	21.20	21.29	21.14			
15	16QAM	36	20	21.18	21.26	21.12			
15	16QAM	36	39	21.18	21.25	21.13	22.5	3	
15	16QAM	36	50	21.18	21.25	21.12			
15	16QAM	75	0	21.20	21.24	21.12			
15	64QAM	1	0	21.27	21.30	21.09			
15	64QAM	1	37	21.22	21.25	21.09	22.5	2	
15	64QAM	1	74	21.18	21.25	21.09			
15	64QAM	36	0	20.23	20.32	20.17			
15	64QAM	36	20	20.15	20.22	20.14			
15	64QAM	36	39	20.19	20.28	20.05	21.5	3	
15	64QAM	75	0	20.19	20.21	20.11			
15	256QAM	1	0	18.16	18.28	18.10			
15	256QAM	1	37	18.21	18.27	18.14			
15	256QAM	1	74	18.18	18.24	18.14	19.5	5	
15	256QAM	36	0	18.17	18.28	18.14			
15	256QAM	36	20	18.15	18.26	18.07			
15	256QAM	36	39	18.23	18.28	18.14			
15	256QAM	75	0	18.22	18.24	18.09	19.5	5	
Channel				42160	42590	43015			
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	23.17	23.27	23.08			
10	QPSK	1	25	23.20	23.22	23.04			
10	QPSK	1	49	23.17	23.25	23.12			
10	QPSK	25	0	22.19	22.32	22.11			
10	QPSK	25	12	22.19	22.23	22.03	23.5	1	
10	QPSK	25	25	22.22	22.24	22.10			
10	QPSK	50	0	22.17	22.29	22.09			
10	16QAM	1	0	22.16	22.25	22.09			
10	16QAM	1	25	22.19	22.24	22.10	23.5	1	
10	16QAM	1	49	22.18	22.27	22.09			
10	16QAM	25	0	21.21	21.30	21.09			
10	16QAM	25	12	21.20	21.29	21.13			
10	16QAM	25	25	21.20	21.23	21.13	22.5	2	
10	16QAM	50	0	21.20	21.23	21.11			
10	64QAM	1	0	21.21	21.29	21.05			
10	64QAM	1	25	21.18	21.26	21.05			
10	64QAM	1	49	21.18	21.26	21.09	22.5	2	
10	64QAM	25	0	20.22	20.25	20.06			
10	64QAM	25	12	20.17	20.24	20.12			
10	64QAM	25	25	20.18	20.27	20.07			
10	64QAM	50	0	20.19	20.22	20.14	21.5	3	
10	64QAM	1	0	18.18	18.28	18.10			
10	256QAM	1	25	18.23	18.28	18.14			
10	256QAM	1	49	18.20	18.30	18.11			
10	256QAM	25	0	18.20	18.24	18.15	19.5	5	
10	256QAM	25	12	18.14	18.25	18.09			
10	256QAM	25	25	18.20	18.27	18.13			
10	256QAM	50	0	18.21	18.25	18.10			
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	23.16	23.24	23.09	24.5	0	
5	QPSK	1	12	23.19	23.24	23.05			
5	QPSK	1	24	23.18	23.28	23.06			
5	QPSK	12	0	22.15	22.30	22.07			
5	QPSK	12	7	22.18	22.25	22.11	23.5	1	
5	QPSK	12	13	22.22	22.29	22.06			
5	QPSK	25	0	22.16	22.26	22.10			
5	16QAM	1	0	22.15	22.27	22.13			
5	16QAM	1	12	22.18	22.28	22.10	23.5	1	
5	16QAM	1	24	22.19	22.26	22.12			
5	16QAM	12	0	21.17	21.29	21.09			
5	16QAM	12	7	21.23	21.30	21.11			
5	16QAM	12	13	21.20	21.21	21.10	22.5	2	
5	16QAM	25	0	21.22	21.27	21.08			
5	64QAM	1	0	21.20	21.29	21.05			
5	64QAM	1	12	21.22	21.25	21.11			
5	64QAM	1	24	21.19	21.22	21.11	22.5	2	
5	64QAM	12	0	20.21	20.23	20.07			
5	64QAM	12	7	20.16	20.23	20.14			
5	64QAM	12	13	20.21	20.26	20.09			
5	64QAM	25	0	20.20	20.23	20.11	21.5	3	
5	256QAM	1	0	18.15	18.26	18.07			
5	256QAM	1	12	18.20	18.25	18.12			
5	256QAM	1	24	18.19	18.27	18.11			
5	256QAM	12	0	18.18	18.24	18.12	19.5	5	
5	256QAM	12	7	18.17	18.28	18.07			
5	256QAM	12	13	18.21	18.24	18.14			
5	256QAM	25	0	18.22	18.25	18.09			

Band 43 Ant 8											
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				44190	44590	44990					
Frequency (MHz)				3610	3650	3690					
20	QPSK	1	0	23.24	23.45	23.34	24.5	0			
20	QPSK	1	49	23.05	23.26	23.21					
20	QPSK	1	99	23.11	23.27	23.32					
20	QPSK	50	0	22.26	22.47	22.36	23.5	1			
20	QPSK	50	24	22.42	22.32	22.25					
20	QPSK	50	50	22.39	22.24	22.42					
20	QPSK	100	0	22.37	22.51	22.43	23.5	1			
20	16QAM	1	0	22.47	22.40	22.24					
20	16QAM	1	49	22.42	22.32	22.42					
20	16QAM	1	99	22.34	22.24	22.23	22.5	2			
20	16QAM	50	0	21.37	21.27	21.37					
20	16QAM	50	24	21.32	21.23	21.45					
20	16QAM	50	50	21.37	21.27	21.46	21.5	3			
20	16QAM	100	0	21.37	21.27	21.40					
20	64QAM	1	0	21.33	21.39	21.38					
20	64QAM	1	49	21.48	21.46	21.37	22.5	2			
20	64QAM	1	99	21.24	21.34	21.31					
20	64QAM	50	0	20.34	20.24	20.40					
20	64QAM	50	24	20.29	20.25	20.41	21.5	3			
20	64QAM	50	50	20.26	20.35	20.22					
20	64QAM	100	0	20.37	20.30	20.38					
20	256QAM	1	0	18.11	18.14	18.26	19.5	5			
20	256QAM	1	49	18.06	18.34	18.14					
20	256QAM	1	99	18.15	18.21	18.13					
20	256QAM	50	0	18.25	18.10	18.27	19.5	5			
20	256QAM	50	24	18.03	18.26	18.16					
20	256QAM	50	50	18.25	18.21	18.17					
20	256QAM	100	0	18.11	18.08	18.13	24.5	0			
Channel				44165	44590	45015					
Frequency (MHz)				3607.5	3650	3692.5					
15	QPSK	1	0	23.12	23.36	23.29	24.5	0			
15	QPSK	1	37	22.99	23.20	23.11					
15	QPSK	1	74	22.97	23.16	23.18					
15	QPSK	36	0	22.22	22.43	22.31	23.5	1			
15	QPSK	36	20	22.33	22.24	22.21					
15	QPSK	36	39	22.30	22.12	22.30					
15	QPSK	75	0	22.22	22.36	22.35	23.5	1			
15	16QAM	1	0	22.41	22.30	22.18					
15	16QAM	1	37	22.31	22.25	22.33					
15	16QAM	1	74	22.20	22.21	22.09	22.5	2			
15	16QAM	36	0	21.26	21.13	21.27					
15	16QAM	36	20	21.21	21.09	21.38					
15	16QAM	36	39	21.30	21.13	21.41	22.5	2			
15	16QAM	75	0	21.28	21.20	21.28					
15	64QAM	1	0	21.27	21.34	21.25					
15	64QAM	1	37	21.37	21.36	21.31	22.5	2			
15	64QAM	1	74	21.20	21.27	21.19					
15	64QAM	36	0	20.21	20.09	20.37					
15	64QAM	36	20	20.22	20.13	20.26	21.5	3			
15	64QAM	36	39	20.22	20.31	20.10					
15	64QAM	75	0	20.27	20.18	20.34					
15	256QAM	1	0	18.04	18.07	18.15	19.5	5			
15	256QAM	1	37	18.00	18.31	18.05					
15	256QAM	1	74	18.04	18.11	18.07					
15	256QAM	36	0	18.12	18.00	18.23	19.5	5			
15	256QAM	36	20	17.91	18.21	18.13					
15	256QAM	36	39	18.11	18.16	18.08					
15	256QAM	75	0	18.03	17.95	18.03	24.5	0			
Channel				44130	44590	45050					
Frequency (MHz)				3605	3650	3695					
10	QPSK	1	0	23.16	23.37	23.20	24.5	0			
10	QPSK	1	25	22.91	23.12	23.10					
10	QPSK	1	49	22.96	23.14	23.22					
10	QPSK	25	0	22.18	22.39	22.30	23.5	1			
10	QPSK	25	12	22.27	22.28	22.15					
10	QPSK	25	25	22.25	22.16	22.31					
10	QPSK	50	0	22.31	22.47	22.40	23.5	1			
10	16QAM	1	0	22.40	22.33	22.11					
10	16QAM	1	25	22.31	22.17	22.29					
10	16QAM	1	49	22.31	22.17	22.19	22.5	2			
10	16QAM	25	0	21.24	21.22	21.30					
10	16QAM	25	12	21.25	21.15	21.41					
10	16QAM	25	25	21.31	21.17	21.38	22.5	2			
10	16QAM	50	0	21.31	21.15	21.33					
10	64QAM	1	0	21.28	21.25	21.30					
10	64QAM	1	25	21.42	21.40	21.23	21.5	3			
10	64QAM	1	49	21.16	21.20	21.16					
10	64QAM	25	0	20.28	20.18	20.32					
10	64QAM	25	12	20.22	20.14	20.33	19.5	5			
10	64QAM	25	25	20.13	20.29	20.15					
10	64QAM	50	0	20.27	20.26	20.34					
10	256QAM	1	0	18.04	18.07	18.23	19.5	5			
10	256QAM	1	25	18.00	18.22	18.10					
10	256QAM	1	49	18.04	18.15	17.98					
10	256QAM	25	0	18.15	17.96	18.22	19.5	5			
10	256QAM	25	12	17.98	18.23	18.06					
10	256QAM	25	25	18.21	18.09	18.06					
10	256QAM	50	0	18.07	18.02	18.10	24.5	0			
Channel				44115	44590	45065					
Frequency (MHz)				3602.5	3650	3697.5					
5	QPSK	1	0	23.13	23.41	23.20	24.5	0			
5	QPSK	1	12	22.96	23.17	23.17					
5	QPSK	1	24	22.99	23.16	23.26					
5	QPSK	12	0	22.19	22.36	22.32	23.5	1			
5	QPSK	12	7	22.36	22.18	22.17					
5	QPSK	12	13	22.32	22.19	22.36					
5	QPSK	25	0	22.24	22.38	22.29	23.5	1			
5	16QAM	1	0	22.42	22.37	22.11					
5	16QAM	1	12	22.30	22.27	22.37					
5	16QAM	1	24	22.29	22.12	22.15	22.5	2			
5	16QAM	12	0	21.28	21.22	21.30					
5	16QAM	12	7	21.20	21.13	21.40					
5	16QAM	12	13	21.24	21.17	21.33	22.5	2			
5	16QAM	25	0	21.27	21.15	21.35					
5	64QAM	1	0	21.20	21.35	21.34					
5	64QAM	1	12	21.44	21.35	21.25	22.5	2			
5	64QAM	1	24	21.10	21.27	21.19					
5	64QAM	12	0	20.26	20.10	20.35					
5	64QAM	12	7	20.16	20.20	20.32	21.5	3			
5	64QAM	12	13	20.17	20.25	20.08					
5	64QAM	25	0	20.27	20.17	20.29					
5	256QAM	1	0	18.08	18.09	18.15	19.5	5			
5	256QAM	1	12	17.92	18.23	18.01					
5	256QAM	1	24	18.02	18.15	18.09					
5	256QAM	12	0	18.16	18.03	18.20	19.5	5			
5	256QAM	12	7	17.90	18.12	18.02					
5	256QAM	12	13	18.12	18.12	18.12					
5	256QAM	25	0	17.97	17.93	18.03					

Reduced Power Mode for DS11

GSM850 Ant 0		Burst Average Power (dBm)			Tune-up		Frame Average Power (dBm)			Tune-up	
TX Channel		128	188	251	Limit		128	188	251	Limit	
Frequency (MHz)		824.2	836.4	848.8	(dBm)		824.2	836.4	848.8	(dBm)	
GSM 1 Tx slot		31.26	31.56	31.54	32.50		22.26	22.56	22.54	23.50	
GPRS 1 Tx slot		31.19	31.64	31.62	32.50		22.19	22.64	22.62	23.50	
GPRS 2 Tx slots		28.02	28.16	28.32	28.00		22.02	22.16	22.32	23.00	
GPRS 3 Tx slots		26.62	26.42	26.46	27.50		22.36	22.16	22.20	23.24	
GPRS 4 Tx slots		25.03	25.19	25.36	26.00		22.03	22.19	22.36	23.00	
EDGE 1 Tx slot		25.38	25.51	25.32	26.00		16.38	16.31	16.32	17.00	
EDGE 2 Tx slots		22.78	22.72	22.73	23.50		16.78	16.72	16.73	17.50	
EDGE 3 Tx slots		20.76	20.77	20.83	22.00		16.49	16.51	16.67	17.74	
EDGE 4 Tx slots		19.09	18.93	18.16	20.00		16.09	15.93	16.16	17.00	

GSM1900 Ant 0		Burst Average Power (dBm)			Tune-up		Frame Average Power (dBm)			Tune-up	
TX Channel		512	681	810	Limit		512	681	810	Limit	
Frequency (MHz)		1852.2	1860	1869.8	(dBm)		1852.2	1860	1869.8	(dBm)	
GSM 1 Tx slot		29.11	29.28	29.16	30.50		20.11	20.26	20.16	21.50	
GPRS 1 Tx slot		28.88	29.28	29.27	30.50		19.88	20.28	20.27	21.50	
GPRS 2 Tx slots		26.31	26.61	26.61	27.50		20.31	20.61	20.61	21.50	
GPRS 3 Tx slots		24.42	24.54	24.50	26.00		20.16	20.28	20.24	21.74	
GPRS 4 Tx slots		22.27	22.37	22.48	23.50		19.27	19.37	19.48	20.50	
EDGE 1 Tx slot		24.91	25.07	25.02	26.50		16.91	16.07	16.02	17.50	
EDGE 2 Tx slots		22.47	22.67	22.53	24.00		16.47	16.67	16.53	18.00	
EDGE 3 Tx slots		20.34	20.71	20.71	22.00		16.08	16.45	16.45	17.74	
EDGE 4 Tx slots		18.68	18.07	18.93	20.50		15.66	16.07	15.93	17.50	

Band		WCDMA S Ant 0			Tune-up Limit (dBm)	WCDMA N Ant 0			Tune-up Limit (dBm)	WCDMA V Ant 0			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1637	1638	1738		4367	4407	4458	
Frequency (MHz)		1852.4	1860	1869.8		1412.4	1422.8	1522.8		824.4	836.4	848.8	
3GPP Rel 99		22.60	22.89	22.77	24.00	22.63	22.66	22.40	24.00	22.94	22.98	22.97	24.00
3GPP Rel 99		22.80	23.00	22.83	24.00	22.65	22.76	22.60	24.00	23.05	23.09	23.00	24.00
3GPP Rel 6		21.72	22.10	21.87	23.00	21.76	21.85	21.69	23.00	22.04	22.11	21.85	23.00
3GPP Rel 6		21.81	21.98	21.89	23.00	21.58	21.81	21.48	23.00	22.15	21.99	22.03	23.00
3GPP Rel 6		21.41	21.62	21.41	22.50	20.98	21.27	20.93	22.50	21.49	21.48	21.42	22.50
3GPP Rel 6		21.29	21.49	21.21	22.50	21.19	21.20	20.94	22.50	21.59	21.46	21.65	22.50
3GPP Rel 6		21.66	21.85	21.81	23.00	21.43	21.66	21.29	23.00	22.05	22.12	21.94	23.00
3GPP Rel 6		20.75	20.92	20.73	21.00	19.66	19.79	19.47	21.00	19.96	19.96	20.03	21.00
3GPP Rel 6		20.62	21.03	20.96	22.00	20.59	20.66	20.38	22.00	20.90	21.22	20.89	22.00
3GPP Rel 6		19.71	19.95	19.94	21.00	19.66	19.86	19.55	21.00	20.13	20.07	19.85	21.00
3GPP Rel 6		21.69	22.01	21.88	23.00	21.36	21.74	21.34	23.00	21.89	21.92	22.13	23.00
3GPP Rel 7		19.38	19.71	19.58	20.50	19.06	19.44	19.04	20.50	19.59	19.62	19.83	20.50

Band 2 Ant 0														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	APR3 (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	22.31	22.41	22.29	24	0						
20	QPSK	1	49	22.37	22.47	22.35								
20	QPSK	1	99	22.34	22.39	22.38								
20	QPSK	50	0	21.29	21.44	21.33								
20	QPSK	50	24	21.34	21.29	21.38	23	1						
20	QPSK	50	50	21.37	21.41	21.32								
20	QPSK	100	0	21.32	21.35	21.28								
20	16QAM	50	0	21.29	21.38	21.29								
20	16QAM	1	49	21.36	21.32	21.34	23	1						
20	16QAM	1	99	21.32	21.36	21.35								
20	16QAM	50	0	20.37	20.37	20.36								
20	16QAM	50	24	20.29	20.39	20.36								
20	16QAM	50	50	20.36	20.28	20.34	22	2						
20	16QAM	100	0	20.37	20.36	20.32								
20	64QAM	1	0	20.37	20.27	20.33								
20	64QAM	1	49	20.32	20.28	20.34								
20	64QAM	1	99	20.37	20.37	20.36	21	3						
20	64QAM	50	0	19.39	19.29	19.39								
20	64QAM	50	24	19.33	19.27	19.32								
20	64QAM	50	50	19.28	19.33	19.31								
20	256QAM	1	49	18.40	18.35	18.40	19	5						
20	256QAM	1	99	18.39	18.33	18.38								
20	256QAM	50	0	18.36	18.33	18.36								
20	256QAM	50	24	18.36	18.41	18.30								
20	256QAM	50	50	18.31	18.29	18.31	19	5						
20	256QAM	100	0	18.35	18.30	18.32								
Channel														
Frequency (MHz)														
18	QPSK	1	37	22.17	22.34	22.22	24	0						
18	QPSK	1	37	22.30	22.30	22.30								
18	QPSK	1	74	22.21	22.27	22.24								
18	QPSK	36	0	21.25	21.31	21.25								
18	QPSK	36	24	21.27	21.24	21.31	23	1						
18	QPSK	36	39	21.23	21.33	21.22								
18	QPSK	75	0	21.21	21.24	21.23								
18	16QAM	1	74	21.25	21.35	21.30								
18	16QAM	1	37	21.22	21.19	21.25	23	1						
18	16QAM	1	74	21.24	21.24	21.25								
18	16QAM	36	0	20.19	20.28	20.31								
18	16QAM	36	20	20.23	20.25	20.27								
18	16QAM	36	20	20.23	20.25	20.27	22	2						
18	16QAM	75	0	20.32	20.28	20.26								
18	64QAM	1	0	20.25	20.14	20.20								
18	64QAM	1	37	20.32	20.15	20.24								
18	64QAM	1	74	20.22	20.27	20.30	21	3						
18	64QAM	36	0	19.35	19.14	19.25								
18	64QAM	36	20	19.34	19.17	19.26								
18	64QAM	36	39	19.25	19.25	19.25								
18	64QAM	75	0	19.26	19.30	19.18	19	5						
18	256QAM	1	0	18.35	18.30	18.34								
18	256QAM	1	37	18.34	18.31	18.31								
18	256QAM	1	74	18.31	18.25	18.31								
18	256QAM	36	0	18.35	18.30	18.30	19	5						
18	256QAM	36	20	18.27	18.35	18.22								
18	256QAM	36	39	18.28	18.18	18.25								
18	256QAM	75	0	18.25	18.30	18.28								
Channel														
Frequency (MHz)														
18	QPSK	1	0	22.31	22.34	22.22	24	0						
18	QPSK	1	25	22.31	22.28	22.24								
18	QPSK	1	49	22.24	22.25	22.23								
18	QPSK	36	0	21.29	21.36	21.27								
18	QPSK	25	12	21.24	21.22	21.26	23	1						
18	QPSK	25	25	21.30	21.31	21.28								
18	QPSK	36	18	21.28	21.28	21.28								
18	16QAM	1	0	21.17	21.31	21.34								
18	16QAM	1	26	21.32	21.22	21.20	23	1						
18	16QAM	1	49	21.34	21.29	21.30								
18	16QAM	25	0	20.24	20.24	20.20								
18	16QAM	25	12	20.22	20.30	20.31								
18	16QAM	36	0	20.33	20.30	20.29	22	2						
18	16QAM	50	0	20.31	20.33	20.27								
18	64QAM	1	0	20.23	20.15	20.20								
18	64QAM	1	24	20.27	20.15	20.20								
18	64QAM	1	49	20.33	20.25	20.30	21	3						
18	64QAM	25	0	19.25	19.26	19.30								
18	64QAM	25	12	19.22	19.26	19.24								
18	64QAM	25	25	19.18	19.27	19.20								
18	64QAM	50	0	19.21	19.26	19.20	19	5						
18	256QAM	1	49	18.21	18.24	18.31								
18	256QAM	1	26	18.31	18.23	18.36								
18	256QAM	1	49	18.30	18.30	18.28								
18	256QAM	25	0	18.15	18.27	18.25	19	5						
18	256QAM	25	12	18.23	18.36	18.26								
18	256QAM	25	25	18.19	18.24	18.26								
18	256QAM	50	0	18.28	18.27	18.27								
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.31	22.38	22.30	24	0						
5	QPSK	1	12	22.33	22.24	22.14								
5	QPSK	1	24	22.24	22.32	22.14								
5	QPSK	12	0	21.15	21.32	21.23								
5	QPSK	12	7	21.22	21.21	21.34	23	1						
5	QPSK	12	13	21.30	21.26	21.27								
5	QPSK	20	0	21.18	21.24	21.13								
5	16QAM	1	0	21.25	21.29	21.36								
5	16QAM	1	12	21.22	21.19	21.23	23	1						
5	16QAM	1	24	21.24	21.26	21.23								
5	16QAM	12	0	20.24	20.26	20.25								
5	16QAM	12	7	20.21	20.33	20.23								
5	16QAM	12	13	20.28	20.27	20.25	22	2						
5	16QAM	25	0	20.30	20.27	20.24								
5	64QAM	1	0	20.25	20.14	20.21								
5	64QAM	1	12	20.25	20.17	20.25								
5	64QAM	1	24	20.33	20.26	20.25	21	3						
5	64QAM	12	0	19.32	19.23	19.35								
5	64QAM	12	7	19.20	19.13	19.24								
5	64QAM	12	13	19.25	19.29	19.24								
5	64QAM	25	0	19.26	19.22	19.32	19	5						
5	256QAM	1	0	18.20	18.30	18.28								
5	256QAM	1	12	18.37	18.32	18.34								
5	256QAM	1	24	18.33	18.21	18.32								
5	256QAM	12	0	18.13	18.26	18.27	19	5						
5</														

Band 12 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.49	22.57	22.48	24	0		
10	QPSK	1	24	22.48	22.51	22.25				
10	QPSK	1	48	22.54	22.49	22.43				
10	QPSK	25	0	21.30	21.50	21.45				
10	QPSK	25	12	21.48	21.48	21.35	23	1		
10	QPSK	25	25	21.39	21.30	21.49				
10	QPSK	50	0	21.36	21.44	21.30				
10	16QAM	1	0	21.54	21.45	21.38				
10	16QAM	1	24	21.65	21.63	21.59	23	1		
10	16QAM	1	48	21.53	21.57	21.69				
10	16QAM	25	0	20.48	20.51	20.43				
10	16QAM	25	12	20.40	20.45	20.54				
10	16QAM	25	25	20.39	20.38	20.42	22	2		
10	16QAM	50	0	20.41	20.53	20.51				
10	64QAM	1	0	20.34	20.50	20.42				
10	64QAM	1	24	20.59	20.36	20.38				
10	64QAM	1	48	20.34	20.51	20.40	21	3		
10	64QAM	25	0	19.46	19.49	19.37				
10	64QAM	25	12	19.42	19.28	19.43				
10	64QAM	25	25	19.43	19.45	19.53				
10	64QAM	50	0	19.45	19.56	19.52	19	5		
10	256QAM	1	0	17.47	17.50	17.35				
10	256QAM	1	25	17.60	17.57	17.51				
10	256QAM	1	48	17.49	17.42	17.57				
10	256QAM	25	0	17.48	17.49	17.48	19	5		
10	256QAM	25	12	17.53	17.59	17.51				
10	256QAM	25	25	17.66	17.57	17.61				
10	256QAM	50	0	17.60	17.65	17.62				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.41	22.45	22.38	24	0		
5	QPSK	1	12	22.37	22.38	22.18				
5	QPSK	1	24	22.41	22.38	22.28				
5	QPSK	12	0	21.15	21.35	21.37				
5	QPSK	12	7	21.33	21.36	21.27	23	1		
5	QPSK	12	13	21.32	21.19	21.34				
5	QPSK	25	0	21.22	21.31	21.18				
5	16QAM	1	0	21.43	21.31	21.33				
5	16QAM	1	12	21.54	21.54	21.51	23	1		
5	16QAM	1	24	21.47	21.50	21.61				
5	16QAM	12	0	20.39	20.41	20.31				
5	16QAM	12	7	20.31	20.36	20.45				
5	16QAM	12	13	20.34	20.32	20.32	22	2		
5	16QAM	25	0	20.29	20.42	20.45				
5	64QAM	1	0	20.25	20.37	20.30				
5	64QAM	1	12	20.34	20.30	20.32				
5	64QAM	1	24	20.26	20.41	20.31	21	3		
5	64QAM	12	0	19.36	19.42	19.29				
5	64QAM	12	13	19.37	19.35	19.28				
5	64QAM	12	13	19.33	19.35	19.44				
5	64QAM	25	0	19.40	19.43	19.39	19	5		
5	256QAM	1	0	17.36	17.47	17.34				
5	256QAM	1	12	17.49	17.47	17.51				
5	256QAM	1	24	17.40	17.31	17.47				
5	256QAM	12	0	17.36	17.45	17.34	19	5		
5	256QAM	12	7	17.43	17.52	17.49				
5	256QAM	12	13	17.45	17.47	17.51				
5	256QAM	25	0	17.46	17.50	17.50				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.42	22.41	22.39	24	0		
3	QPSK	1	8	22.39	22.42	22.39				
3	QPSK	1	16	22.42	22.36	22.30				
3	QPSK	3	0	22.18	22.34	22.34				
3	QPSK	3	1	21.37	21.36	21.36	23	1		
3	QPSK	3	3	21.40	21.21	21.30				
3	QPSK	15	0	21.23	21.30	21.25				
3	16QAM	1	0	21.49	21.37	21.37				
3	16QAM	1	8	21.56	21.47	21.47	23	1		
3	16QAM	1	16	21.45	21.51	21.59				
3	16QAM	3	0	20.39	20.43	20.31				
3	16QAM	3	1	20.45	20.40	20.40				
3	16QAM	3	3	20.35	20.30	20.35	22	2		
3	16QAM	15	0	20.27	20.45	20.45				
3	64QAM	1	0	20.25	20.37	20.30				
3	64QAM	1	8	20.48	20.24	20.23				
3	64QAM	1	16	20.25	20.39	20.30	22	2		
3	64QAM	3	0	19.40	19.45	19.37				
3	64QAM	3	1	19.32	19.22	19.28				
3	64QAM	3	3	19.31	19.33	19.46				
3	64QAM	15	0	19.42	19.38	19.38	21	3		
3	256QAM	1	0	17.38	17.41	17.64				
3	256QAM	1	8	17.51	17.49	17.53				
3	256QAM	1	16	17.40	17.39	17.45				
3	256QAM	3	0	17.52	17.34	17.35	19	5		
3	256QAM	3	1	17.46	17.50	17.46				
3	256QAM	3	3	17.44	17.50	17.48				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.38	22.43	22.39	24	0		
1.4	QPSK	1	3	22.41	22.41	22.17				
1.4	QPSK	1	5	22.43	22.38	22.29				
1.4	QPSK	3	0	22.42	22.44	22.40				
1.4	QPSK	3	1	22.36	22.40	22.17	23	1		
1.4	QPSK	3	3	22.38	22.36	22.33				
1.4	QPSK	6	0	21.24	21.29	21.20				
1.4	16QAM	1	0	21.44	21.36	21.05				
1.4	16QAM	1	3	21.08	21.54	21.51	23	1		
1.4	16QAM	1	6	21.42	21.51	21.59				
1.4	16QAM	3	0	21.17	21.35	21.35				
1.4	16QAM	3	1	21.36	21.36	21.27				
1.4	16QAM	6	0	20.31	20.44	20.44	22	2		
1.4	64QAM	1	0	20.27	20.39	20.38				
1.4	64QAM	1	3	20.44	20.39	20.39				
1.4	64QAM	1	5	20.23	20.42	20.29				
1.4	64QAM	3	0	20.36	20.41	20.32	21	3		
1.4	64QAM	3	1	20.31	20.34	20.43				
1.4	64QAM	3	3	20.34	20.30	20.36				
1.4	64QAM	6	0	19.40	19.45	19.39				
1.4	256QAM	1	0	17.34	17.50	17.40	19	5		
1.4	256QAM	1	3	17.52	17.49	17.49				
1.4	256QAM	1	5	17.38	17.27	17.45				
1.4	256QAM	3	0	17.50	17.50	17.61				
1.4	256QAM	3	1	17.42	17.53	17.46	19	5		
1.4	256QAM	3	3	17.34	17.44	17.52				
1.4	256QAM	6	0	17.47	17.46	17.51				
1.4	256QAM	6	3	17.41	17.46	17.51				

Band 17 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.39	22.36	22.44	24	0		
10	QPSK	1	25	22.43	22.42	22.21				
10	QPSK	1	48	22.53	22.38	22.38				
10	QPSK	25	0	21.23	21.50	21.42				
10	QPSK	25	12	21.41	21.38	21.32	23	1		
10	QPSK	25	25	21.39	21.24	21.49				
10	QPSK	50	0	21.27	21.34	21.21				
10	16QAM	1	0	21.55	21.34	21.62				
10	16QAM	1	25	21.58	21.56	21.54	23	1		
10	16QAM	1	48	21.48	21.47	21.69				
10	16QAM	25	0	20.49	20.49	20.35				
10	16QAM	25	12	20.32	20.45	20.46				
10	16QAM	25	25	20.39	20.33	20.46	22	2		
10	16QAM	50	0	20.37	20.45	20.35				
10	64QAM	1	0	20.30	20.43	20.35				
10	64QAM	1	25	20.53	20.39	20.29				
10	64QAM	1	48	20.32	20.52	20.35	21	3		
10	64QAM	25	0	19.46	19.45	19.30				
10	64QAM	25	12	19.35	19.29	19.34				
10	64QAM	25	25	19.37	19.40	19.45				
10	64QAM	50	0	19.37	19.53	19.50	19	5		
10	256QAM	1	0	17.38	17.43	17.63				
10	256QAM	1	25	17.55	17.48	17.57				
10	256QAM	1	48	17.43	17.38	17.52				
10	256QAM	25	0	17.56	17.46	17.64	19	5		
10	256QAM	25	12	17.50	17.59	17.58				
10	256QAM	25	25	17.48	17.51	17.62				
10	256QAM	50	0	17.43	17.51	17.58				
Channel				22.55	22.56	22.57	Turn-up time (sec)	MPE (dB)		
Frequency (MHz)										
5	QPSK	1	0	22.34	22.37	22.35	24	0		
5	QPSK	1	12	22.34	22.31	22.21				
5	QPSK	1	42	22.42	22.27	22.22				
5	QPSK	12	0	21.18	21.40	21.30				
5	QPSK	12	7	21.42	21.28	21.29	23	1		
5	QPSK	12	19	21.54	21.34	21.41				
5	QPSK	25	0	21.18	21.31	21.18				
5	16QAM	1	0	21.47	21.23	21.53				
5	16QAM	1	12	21.47	21.44	21.44	22	2		
5	16QAM	1	24	21.40	21.37	21.61				
5	16QAM	12	0	20.46	20.43	20.22				
5	16QAM	12	19	20.46	20.45	20.22				
5	16QAM	12	19	20.38	20.29	20.31	22	2		
5	16QAM	25	0	20.28	20.29	20.29				
5	256QAM	1	0	17.38	17.43	17.57				
5	256QAM	1	12	20.42	20.28	20.22				
5	256QAM	1	24	20.31	20.44	20.25	21	3		
5	256QAM	12	7	19.27	19.25	19.25				
5	256QAM	12	19	19.38	19.38	19.37				
5	256QAM	12	19	19.46	19.46	19.48				
5	256QAM	1	0	17.27	17.34	17.51	19	5		
5	256QAM	1	12	17.52	17.41	17.48				
5	256QAM	12	7	17.46	17.35	17.44				
5	256QAM	12	12	17.46	17.35	17.44				
5	256QAM	12	7	17.48	17.54	17.59	19	5		
5	256QAM	12	19	17.45	17.52	17.57				
5	256QAM	25	0	17.39	17.50	17.55				
5	256QAM	25	0	17.39	17.50	17.55				

Band 26 Ant 0													
BM [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up Int. (dB)	APR3 (dB)					
Channel													
Frequency (MHz)				821.5	831.5	841.5							
15	QPSK	1	0	22.60	22.66	22.61	24	0					
15	QPSK	1	37	22.59	22.61	22.62							
15	QPSK	1	74	22.60	22.59	22.63							
15	QPSK	36	0	21.63	21.68	21.64							
15	QPSK	36	20	21.62	21.64	21.64	23	1					
15	QPSK	36	36	21.63	21.65	21.64							
15	QPSK	75	0	21.66	21.67	21.62							
15	16QAM	1	0	21.61	21.62	21.65							
15	16QAM	1	37	21.61	21.61	21.65	23	1					
15	16QAM	1	74	21.66	21.65	21.63							
15	16QAM	36	0	20.63	20.62	20.61							
15	16QAM	36	20	20.63	20.59	20.59							
15	16QAM	36	36	20.64	20.69	20.63	22	2					
15	16QAM	75	0	20.61	20.64	20.61							
15	16QAM	1	0	20.65	20.64	20.63							
15	16QAM	1	37	20.63	20.65	20.64							
15	16QAM	1	74	20.65	20.64	20.62	22	2					
15	16QAM	36	0	19.60	19.62	19.63							
15	16QAM	36	20	19.65	19.61	19.63							
15	16QAM	36	36	19.63	19.64	19.61							
15	16QAM	75	0	19.64	19.60	19.61	21	3					
15	16QAM	1	0	19.63	19.66	19.64							
15	16QAM	1	37	19.60	19.61	19.62							
15	256QAM	1	74	18.65	18.65	18.60							
15	256QAM	36	0	18.62	18.65	18.64	19	5					
15	256QAM	36	20	18.62	18.65	18.62							
15	256QAM	36	36	18.62	18.65	18.65							
15	256QAM	75	0	18.65	18.62	18.65							
Channel													
Frequency (MHz)				819	831.5	844							
10	QPSK	1	0	22.47	22.52	22.52	24	0					
10	QPSK	1	24	22.49	22.54	22.52							
10	QPSK	1	49	22.47	22.47	22.56							
10	QPSK	25	0	21.53	21.50	21.52							
10	QPSK	25	12	21.50	21.52	21.53	23	1					
10	QPSK	25	25	21.51	21.55	21.57							
10	QPSK	50	0	21.55	21.54	21.56							
10	16QAM	1	0	21.52	21.53	21.58							
10	16QAM	1	25	21.52	21.49	21.56	23	1					
10	16QAM	1	49	21.54	21.56	21.54							
10	16QAM	25	0	20.52	20.51	20.49							
10	16QAM	25	12	20.52	20.51	20.55							
10	16QAM	50	0	20.48	20.52	20.51	22	2					
10	16QAM	1	0	20.53	20.51	20.54							
10	16QAM	1	25	20.55	20.55	20.52							
10	16QAM	1	49	20.53	20.54	20.53							
10	16QAM	25	0	19.49	19.55	19.51	21	3					
10	16QAM	25	12	19.48	19.54	19.51							
10	16QAM	25	25	19.51	19.52	19.54							
10	16QAM	50	0	19.52	19.51	19.54							
10	256QAM	1	0	18.54	18.54	18.53	19	5					
10	256QAM	1	25	18.48	18.52	18.51							
10	256QAM	1	49	18.57	18.56	18.50							
10	256QAM	25	0	18.51	18.57	18.53							
10	256QAM	25	12	18.55	18.58	18.50	19	5					
10	256QAM	25	25	18.55	18.54	18.55							
10	256QAM	50	0	18.49	18.54	18.55							
10	256QAM	50	0	18.53	18.52	18.58							
Channel													
Frequency (MHz)				816.5	831.5	846.5							
5	QPSK	1	0	22.50	22.52	22.54	24	0					
5	QPSK	1	12	22.48	22.52	22.57							
5	QPSK	1	24	22.50	22.48	22.53							
5	QPSK	12	0	21.52	21.53	21.57							
5	QPSK	12	7	21.52	21.53	21.57	23	1					
5	QPSK	12	13	21.51	21.52	21.53							
5	QPSK	25	0	21.52	21.53	21.58							
5	16QAM	1	0	21.52	21.51	21.52							
5	16QAM	1	12	21.52	21.51	21.56	23	1					
5	16QAM	1	24	21.46	21.58	21.54							
5	16QAM	12	0	20.52	20.51	20.54							
5	16QAM	12	7	20.54	20.50	20.53							
5	16QAM	12	13	20.56	20.53	20.55	22	2					
5	16QAM	25	0	20.54	20.57	20.51							
5	16QAM	1	0	20.58	20.54	20.52							
5	16QAM	1	12	20.51	20.54	20.53							
5	16QAM	1	24	20.57	20.55	20.52	22	2					
5	16QAM	12	0	19.49	19.50	19.54							
5	16QAM	12	7	19.55	19.51	19.54							
5	16QAM	12	13	19.52	19.56	19.49							
5	16QAM	25	0	19.51	19.52	19.49	21	3					
5	256QAM	1	0	18.48	18.53	18.53							
5	256QAM	1	12	18.51	18.49	18.55							
5	256QAM	1	24	18.52	18.55	18.51							
5	256QAM	12	0	18.54	18.58	18.54	19	5					
5	256QAM	12	7	18.52	18.58	18.53							
5	256QAM	12	13	18.51	18.54	18.55							
5	256QAM	25	0	18.54	18.51	18.53							
Channel													
Frequency (MHz)				816.5	831.5	847.5							
3	QPSK	1	0	22.48	22.53	22.54	24	0					
3	QPSK	1	8	22.51	22.51	22.53							
3	QPSK	1	14	22.52	22.47	22.54							
3	QPSK	8	0	21.51	21.54	21.52							
3	QPSK	8	4	21.52	21.56	21.54	23	1					
3	QPSK	8	7	21.51	21.57	21.54							
3	QPSK	16	0	21.58	21.58	21.54							
3	16QAM	1	0	21.48	21.52	21.52							
3	16QAM	1	8	21.48	21.48	21.58	23	1					
3	16QAM	1	14	21.59	21.57	21.51							
3	16QAM	8	0	20.54	20.50	20.50							
3	16QAM	8	4	20.56	20.49	20.56							
3	16QAM	8	7	20.55	20.57	20.50	22	2					
3	16QAM	16	0	20.52	20.54	20.48							
3	16QAM	1	0	20.55	20.52	20.50							
3	16QAM	1	8	20.51	20.55	20.52							
3	16QAM	1	14	20.58	20.54	20.52	22	2					
3	16QAM	8	0	19.52	19.52	19.54							
3	16QAM	8	4	19.57	19.52	19.52							
3	16QAM	8	7	19.56	19.52	19.53							
3	16QAM	16	0	19.51	19.49	19.53	21	3					
3	256QAM	1	0	18.53	18.58	18.51							
3	256QAM	1	8	18.51	18.52	18.51							
3	256QAM	1	14	18.52	18.55	18.46							
3	256QAM	8	0	18.54	18.58	18.52	19	5					
3	256QAM	8	4	18.51	18.53	18.52							
3	256QAM	8	7	18.49	18								

GSM850 Ant 1		Burst Average Power (dbm)			Turn-up Limit (dbm)	Frame-Average Power (dbm)			Turn-up Limit (dbm)
TX Channel		126	189	251		161	189	251	
Frequency (MHz)		834.2	836.4	848.8		834.2	836.4	848.8	
GSM 1 Tx slot		33.49	33.76	33.76	35.00	24.49	24.76	24.76	26.00
GPRS 1 Tx slot		33.42	33.65	33.62	35.00	24.42	24.65	24.62	26.00
GPRS 2 Tx slots		30.44	30.69	30.46	32.00	24.44	24.69	24.46	26.00
GPRS 3 Tx slots		26.51	26.75	26.73	30.00	24.25	24.49	24.47	25.74
GPRS 4 Tx slots		27.48	27.48	27.76	28.50	24.48	24.48	24.76	25.50
EDGE 1 Tx slot		27.76	27.60	27.59	28.50	18.76	18.60	18.59	19.50
EDGE 2 Tx slots		25.02	24.96	25.16	26.00	18.02	18.96	18.16	20.00
EDGE 3 Tx slots		22.97	22.89	23.31	24.00	18.71	18.63	19.05	19.74
EDGE 4 Tx slots		21.34	21.33	21.55	22.50	18.34	18.33	18.55	19.50

Band		WCDMA V Ant 1			Turn-up Limit (dbm)
TX Channel		4192	4182	4233	
Rx Channel		4357	4407	4458	
Frequency (MHz)		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	22.55	22.54	22.53	24.00
3GPP Rel 99	AMR 12.2Kbps	22.58	22.55	22.57	24.00
3GPP Rel 6	HSDPA Subtest-1	21.89	21.63	21.64	22.50
3GPP Rel 6	HSDPA Subtest-2	21.66	21.58	21.61	22.50
3GPP Rel 6	HSDPA Subtest-3	21.16	21.08	21.09	22.00
3GPP Rel 6	HSDPA Subtest-4	21.16	21.11	21.14	22.00
3GPP Rel 6	HSPA Subtest-1	21.54	21.67	21.56	22.50
3GPP Rel 6	HSPA Subtest-2	19.47	19.66	19.51	20.50
3GPP Rel 6	HSPA Subtest-3	20.68	20.53	20.48	21.50
3GPP Rel 6	HSPA Subtest-4	19.47	19.61	19.49	20.50
3GPP Rel 6	HSPA Subtest-5	21.68	21.53	21.48	22.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.28	19.13	19.08	20.00

Band 5 Ant 1										
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)				820	836.5	844				
10	QPSK	1	0	22.17	22.21	22.09	24	0		
10	QPSK	1	25	22.05	22.03	22.00				
10	QPSK	1	49	22.05	22.14	22.13				
10	QPSK	25	0	21.21	21.26	21.24				
10	QPSK	25	12	21.25	21.10	21.17	23	1		
10	QPSK	25	25	21.22	21.11	21.17				
10	QPSK	50	0	21.12	21.25	21.19				
10	16QAM	1	0	21.23	21.05	21.10				
10	16QAM	1	25	21.22	21.12	21.25	23	1		
10	16QAM	1	49	21.08	21.25	21.20				
10	16QAM	25	0	20.16	20.07	20.18				
10	16QAM	25	12	20.05	20.19	20.20				
10	16QAM	25	25	20.09	20.19	20.22	22	2		
10	16QAM	50	0	20.13	20.27	20.16				
10	16QAM	1	0	20.09	20.28	20.13				
10	16QAM	1	25	20.13	20.11	20.27				
10	16QAM	1	49	20.04	20.20	20.14	22	2		
10	16QAM	25	0	19.05	19.04	19.20				
10	16QAM	25	12	19.05	19.07	19.21				
10	16QAM	25	25	19.13	19.00	19.03				
10	16QAM	50	0	19.20	19.19	19.03	21	3		
10	256QAM	1	0	17.05	17.04	17.15				
10	256QAM	1	25	17.03	17.15	17.13				
10	256QAM	1	49	17.06	17.01	17.03				
10	256QAM	25	0	17.11	17.23	17.02	19	5		
10	256QAM	25	12	17.01	17.02	17.14				
10	256QAM	25	25	17.13	17.01	17.23				
10	256QAM	50	0	17.11	17.16	17.01				
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				826.5	836.5	845.5				
5	QPSK	1	0	22.19	22.17	22.11	24	0		
5	QPSK	1	12	22.07	22.01	22.01				
5	QPSK	1	24	22.03	22.14	22.15				
5	QPSK	12	0	21.20	21.23	21.21				
5	QPSK	12	7	21.26	21.12	21.14	23	1		
5	QPSK	12	13	21.19	21.08	21.19				
5	QPSK	25	0	21.13	21.31	21.19				
5	16QAM	1	0	21.21	21.03	21.13				
5	16QAM	1	12	21.24	21.12	21.23	23	1		
5	16QAM	1	24	21.09	21.24	21.18				
5	16QAM	12	0	20.13	20.08	20.18				
5	16QAM	12	7	20.02	20.21	20.07				
5	16QAM	12	13	20.08	20.19	20.20	22	2		
5	16QAM	25	0	20.12	20.24	20.18				
5	16QAM	1	0	20.06	20.30	20.10				
5	16QAM	1	12	20.14	20.12	20.26				
5	16QAM	12	0	19.05	19.03	19.19	22	2		
5	16QAM	12	7	19.06	19.07	19.18				
5	16QAM	12	13	19.13	19.01	19.12				
5	16QAM	25	0	19.21	19.18	19.02				
5	256QAM	1	0	17.03	17.06	17.13	19	5		
5	256QAM	1	12	17.11	17.17	17.11				
5	256QAM	1	24	17.08	17.02	17.01				
5	256QAM	12	0	17.09	17.23	17.04				
5	256QAM	12	7	17.00	17.03	17.15	19	5		
5	256QAM	12	13	17.19	17.21	17.21				
5	256QAM	25	0	17.09	17.16	17.01				
Channel <td>825.5</td> <td>836.5</td> <td>847.5</td> <td>Tune-up limit (dBm)</td> <td>MPR (dB)</td> <td colspan="2"></td>				825.5	836.5	847.5			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz) <td>825.5</td> <td>836.5</td> <td>847.5</td> <td colspan="2"></td> <td colspan="2"></td>				825.5	836.5	847.5				
3	QPSK	1	0	22.16	22.17	22.10	24	0		
3	QPSK	1	8	22.02	22.02	22.01				
3	QPSK	1	14	22.07	22.15	22.16				
3	QPSK	8	0	21.23	21.24	21.23				
3	QPSK	8	4	21.26	21.11	21.16	23	1		
3	QPSK	8	7	21.23	21.11	21.18				
3	QPSK	15	0	21.09	21.28	21.18				
3	16QAM	1	0	21.20	21.05	21.10				
3	16QAM	1	8	21.22	21.14	21.22	23	1		
3	16QAM	1	14	21.09	21.25	21.20				
3	16QAM	8	0	20.17	20.06	20.16				
3	16QAM	8	4	20.05	20.20	20.07				
3	16QAM	8	7	20.07	20.18	20.24	22	2		
3	16QAM	15	0	20.14	20.27	20.15				
3	16QAM	1	0	20.08	20.30	20.14				
3	16QAM	1	8	20.12	20.13	20.27				
3	16QAM	1	14	20.06	20.20	20.12	22	2		
3	16QAM	8	0	19.06	19.02	19.19				
3	16QAM	8	4	19.03	19.05	19.20				
3	16QAM	8	7	19.15	19.02	19.04				
3	16QAM	15	0	19.22	19.16	19.03	21	3		
3	256QAM	1	0	17.07	17.06	17.14				
3	256QAM	1	8	17.03	17.14	17.13				
3	256QAM	1	14	17.07	17.01	17.02				
3	256QAM	8	0	17.13	17.21	17.00	19	5		
3	256QAM	8	4	17.03	17.01	17.12				
3	256QAM	8	7	17.21	17.20	17.22				
3	256QAM	15	0	17.13	17.17	17.01				
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				824.7	836.5	848.3				
14	QPSK	1	0	22.17	22.14	22.09	24	0		
14	QPSK	1	3	22.06	22.04	22.02				
14	QPSK	1	5	22.05	22.13	22.14				
14	QPSK	3	0	22.17	22.18	22.11				
14	QPSK	3	1	22.04	22.02	22.01	23	1		
14	QPSK	3	3	22.05	22.15	22.15				
14	QPSK	6	0	21.09	21.30	21.19				
14	16QAM	1	0	21.25	21.03	21.07				
14	16QAM	1	3	21.19	21.09	21.25	23	1		
14	16QAM	1	5	21.06	21.23	21.22				
14	16QAM	3	0	21.23	21.26	21.24				
14	16QAM	3	1	21.27	21.08	21.20				
14	16QAM	3	3	21.24	21.09	21.17	22	2		
14	16QAM	6	0	20.15	20.26	20.18				
14	16QAM	1	0	20.07	20.27	20.15				
14	16QAM	1	3	20.15	20.09	20.24				
14	16QAM	1	5	20.10	20.22	20.15	22	2		
14	16QAM	3	0	20.17	20.07	20.16				
14	16QAM	3	1	20.02	20.21	20.02				
14	16QAM	3	3	20.06	20.21	20.21				
14	16QAM	6	0	19.20	19.18	19.03	21	3		
14	256QAM	1	0	17.07	17.04	17.18				
14	256QAM	1	3	17.04	17.12	17.12				
14	256QAM	1	5	17.04	17.02	17.00	19	5		
14	256QAM	3	0	17.17	17.20	17.02				
14	256QAM	3	1	17.13	17.17	17.19				
14	256QAM	3	3	17.18	17.17	17.25				

Band 17 Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low		Power Middle		Power High		Tune-up limit (dbm)	MPR (db)
				Ch. / Freq.	2370.9	Ch. / Freq.	2370.9	Ch. / Freq.	2380.9		
Channel				709		710		711			
Frequency (MHz)											
10	QPSK	1	0	21.81	21.82	21.74				23	0
10	QPSK	1	25	21.60	21.65	21.53					
10	QPSK	1	49	21.59	21.73	21.73					
10	QPSK	25	0	20.84	20.88	20.83				22	1
10	QPSK	25	12	20.82	20.80	20.78					
10	QPSK	25	25	20.87	20.83	20.85					
10	QPSK	50	0	20.70	20.81	20.76				22	1
10	16QAM	1	0	20.69	20.77	20.87					
10	16QAM	1	25	20.86	20.74	20.76					
10	16QAM	1	49	20.77	20.78	20.75				21	2
10	16QAM	25	0	19.82	19.95	19.96					
10	16QAM	25	25	19.82	19.82	19.78					
10	16QAM	50	0	19.79	19.77	19.97				21	2
10	64QAM	1	0	19.92	19.80	19.81					
10	64QAM	1	25	19.95	19.76	19.86					
10	64QAM	1	49	19.77	19.88	19.89				20	3
10	64QAM	25	0	18.75	18.83	18.80					
10	64QAM	25	12	18.82	18.85	18.90					
10	64QAM	25	25	18.93	18.80	18.95				18	5
10	64QAM	50	0	18.80	18.94	18.88					
10	256QAM	1	0	16.71	16.83	16.87					
10	256QAM	1	25	16.81	17.01	16.97				18	5
10	256QAM	1	49	17.01	16.79	17.07					
10	256QAM	25	0	16.71	17.06	16.79					
10	256QAM	25	12	16.80	16.84	16.74				18	5
10	256QAM	25	25	16.78	16.94	16.96					
10	256QAM	50	0	17.02	16.78	17.06					
Channel				2375.5		2379.6		2382.5		Tune-up limit (dbm)	MPR (db)
Frequency (MHz)				706.5		710		713.5			
5	QPSK	1	0	21.78	21.79	21.74				23	0
5	QPSK	1	12	21.59	21.62	21.54					
5	QPSK	1	24	21.58	21.74	21.75					
5	QPSK	12	0	20.82	20.84	20.82				22	1
5	QPSK	12	7	20.81	20.79	20.78					
5	QPSK	12	13	20.84	20.86	20.85					
5	QPSK	25	0	20.71	20.76	20.77				22	1
5	16QAM	1	0	20.71	20.79	20.88					
5	16QAM	1	12	20.82	20.79	20.76					
5	16QAM	1	24	20.77	20.75	20.71				21	2
5	16QAM	12	0	19.85	19.95	19.94					
5	16QAM	12	7	19.91	19.93	19.96					
5	16QAM	12	13	19.82	19.85	19.77				20	3
5	16QAM	25	0	19.79	19.81	19.93					
5	64QAM	1	0	19.91	19.74	19.79					
5	64QAM	1	12	19.91	19.80	19.85				21	2
5	64QAM	1	24	19.75	19.88	19.87					
5	64QAM	12	0	18.78	18.85	18.80					
5	64QAM	12	7	18.81	18.87	18.89				20	3
5	64QAM	12	13	18.92	18.92	18.97					
5	64QAM	25	0	18.80	18.94	18.91					
5	256QAM	1	0	16.70	16.86	16.89				18	5
5	256QAM	1	12	16.81	17.00	16.99					
5	256QAM	1	24	16.97	16.75	17.07					
5	256QAM	12	0	16.72	17.05	16.82				18	5
5	256QAM	12	7	16.78	16.81	16.71					
5	256QAM	12	13	16.81	16.98	16.93					
5	256QAM	25	0	17.02	16.75	17.06					

Band 26 Ant 1															
BW [MHz]	Modulation	RB Size	RB Offset	Power Low		Power Middle		Power High		Tune-up limit (dBm)	MPR (dB)				
				Ch. / Freq.	2461.6	Ch. / Freq.	2465.0	Ch. / Freq.	2469.2						
Channel				821.5		831.5		841.5							
Frequency (MHz)															
15	QPSK	1	0	21.57	21.65	21.57									
15	QPSK	1	37	21.80	21.58	21.58				23	0				
15	QPSK	1	74	21.60	21.59	21.58									
15	QPSK	36	0	20.61	20.63	20.59									
15	QPSK	36	0	20.60	20.61	20.59				22	1				
15	QPSK	36	39	20.61	20.58	20.62									
15	QPSK	75	0	20.57	20.62	20.61									
15	16QAM	1	0	20.59	20.60	20.61									
15	16QAM	1	37	20.61	20.62	20.61				22	1				
15	16QAM	1	74	20.58	20.59	20.62									
15	16QAM	36	0	19.58	19.58	19.60									
15	16QAM	36	20	19.58	19.58	19.60				21	2				
15	16QAM	36	39	19.62	19.59	19.60									
15	16QAM	75	0	19.58	19.58	19.59									
15	64QAM	1	0	19.59	19.61	19.59				21	2				
15	64QAM	1	37	19.57	19.59	19.62									
15	64QAM	1	74	19.61	19.61	19.60									
15	64QAM	36	0	18.58	18.57	18.63									
15	64QAM	36	20	18.60	18.60	18.57				20	3				
15	64QAM	36	39	18.62	18.57	18.57									
15	64QAM	75	0	18.63	18.60	18.61									
15	256QAM	1	0	16.62	16.57	16.60									
15	256QAM	1	37	16.63	16.58	16.60				18	5				
15	256QAM	1	74	16.61	16.58	16.61									
15	256QAM	36	0	16.60	16.63	16.61									
15	256QAM	36	20	16.58	16.61	16.61				18	5				
15	256QAM	36	39	16.59	16.61	16.63									
15	256QAM	75	0	16.61	16.60	16.62									
Channel				2674.0		2686.5		2699.0		Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				819		831.5		844							
10	QPSK	1	0	21.56	21.59	21.57									
10	QPSK	1	25	21.61	21.55	21.56				23	0				
10	QPSK	1	49	21.62	21.57	21.54									
10	QPSK	25	0	20.62	20.61	20.59									
10	QPSK	25	12	20.60	20.63	20.55				22	1				
10	QPSK	25	25	20.60	20.56	20.59									
10	QPSK	50	0	20.58	20.59	20.58									
10	16QAM	1	0	20.58	20.56	20.60				22	1				
10	16QAM	1	25	20.60	20.61	20.57									
10	16QAM	1	49	20.54	20.55	20.59									
10	16QAM	25	0	19.58	19.59	19.60									
10	16QAM	25	12	19.56	19.56	19.61				21	2				
10	16QAM	25	25	19.63	19.59	19.62									
10	16QAM	50	0	19.58	19.54	19.57									
10	64QAM	1	0	19.58	19.60	19.59									
10	64QAM	1	25	19.58	19.60	19.61				21	2				
10	64QAM	1	49	19.57	19.62	19.58									
10	64QAM	25	0	18.57	18.57	18.62									
10	64QAM	25	12	18.61	18.59	18.58				20	3				
10	64QAM	25	25	18.61	18.57	18.58									
10	64QAM	50	0	18.60	18.61	18.62									
10	256QAM	1	0	16.59	16.58	16.62									
10	256QAM	1	25	16.62	16.56	16.61				18	5				
10	256QAM	1	49	16.60	16.54	16.59									
10	256QAM	25	0	16.57	16.60	16.60									
10	256QAM	25	12	16.56	16.57	16.57				18	5				
10	256QAM	25	25	16.60	16.60	16.62									
10	256QAM	50	0	16.58	16.58	16.59									
Channel				2671.5		2686.5		2701.5		Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				816.5		831.5		846.5							
5	QPSK	1	0	21.59	21.62	21.55									
5	QPSK	1	12	21.58	21.55	21.57				23	0				
5	QPSK	1	24	21.58	21.60	21.55									
5	QPSK	12	0	20.62	20.61	20.57									
5	QPSK	12	7	20.59	20.59	20.59				22	1				
5	QPSK	12	13	20.60	20.56	20.58									
5	QPSK	25													

Band 38 Ant 1									
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				37650	38000	38150	19	0	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	17.30	17.43	17.36	19	0	
20	QPSK	1	49	17.33	17.35	17.22			
20	QPSK	1	99	17.33	17.35	17.33	19	0	
20	QPSK	50	0	17.26	17.39	17.35			
20	QPSK	50	24	17.23	17.33	17.17	19	0	
20	QPSK	50	50	17.17	17.24	17.30			
20	QPSK	100	0	17.31	17.35	17.25	19	0	
20	16QAM	1	0	17.27	17.40	17.33			
20	16QAM	1	49	17.24	17.34	17.27	19	0	
20	16QAM	1	99	17.19	17.30	17.23			
20	16QAM	50	0	17.16	17.35	17.17	19	0	
20	16QAM	50	24	17.25	17.28	17.00			
20	16QAM	50	50	17.17	17.20	17.26	19	0	
20	16QAM	100	0	17.13	17.27	17.14			
20	64QAM	1	0	17.19	17.37	17.24	19	0	
20	64QAM	1	49	17.14	17.27	17.12			
20	64QAM	1	99	17.32	17.39	17.20	19	0	
20	64QAM	50	0	17.18	17.29	17.23			
20	64QAM	50	24	17.18	17.24	17.08	19	0	
20	64QAM	50	50	17.13	17.22	17.25			
20	64QAM	100	0	17.10	17.31	17.21	19	0	
20	256QAM	1	0	17.20	17.35	17.13			
20	256QAM	1	49	17.10	17.26	17.07	19	0	
20	256QAM	1	99	17.22	17.30	17.22			
20	256QAM	50	0	17.17	17.28	17.21	19	0	
20	256QAM	50	24	17.08	17.19	17.00			
20	256QAM	50	50	17.14	17.16	17.21	19	0	
20	256QAM	100	0	17.17	17.18	17.11			
Channel				37625	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				25775	2595	2612.5			
15	QPSK	1	0	17.27	17.37	17.26	19	0	
15	QPSK	1	37	17.24	17.29	17.17			
15	QPSK	1	74	17.30	17.30	17.25	19	0	
15	QPSK	36	0	17.22	17.36	17.34			
15	QPSK	36	20	17.14	17.32	17.09	19	0	
15	QPSK	36	39	17.07	17.20	17.29			
15	QPSK	75	0	17.32	17.27	17.20	19	0	
15	16QAM	1	0	17.23	17.30	17.22			
15	16QAM	1	37	17.21	17.24	17.18	19	0	
15	16QAM	1	74	17.19	17.28	17.15			
15	16QAM	36	0	17.07	17.26	17.06	19	0	
15	16QAM	36	20	17.24	17.21	17.00			
15	16QAM	36	39	17.14	17.19	17.20	19	0	
15	16QAM	75	0	17.05	17.27	17.08			
15	64QAM	1	0	17.14	17.32	17.22	19	0	
15	64QAM	1	37	17.15	17.21	17.06			
15	64QAM	1	74	17.30	17.40	17.20	19	0	
15	64QAM	36	0	17.07	17.20	17.14			
15	64QAM	36	20	17.08	17.13	17.07	19	0	
15	64QAM	36	39	17.04	17.12	17.17			
15	64QAM	75	0	17.10	17.31	17.13	19	0	
15	256QAM	1	0	17.16	17.25	17.04			
15	256QAM	1	37	17.02	17.16	17.09	19	0	
15	256QAM	1	74	17.21	17.28	17.14			
15	256QAM	36	0	17.11	17.18	17.18	19	0	
15	256QAM	36	20	17.02	17.11	17.10			
15	256QAM	36	39	17.05	17.12	17.16	19	0	
15	256QAM	75	0	17.15	17.12	17.07			
Channel				37900	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	17.24	17.33	17.30	19	0	
10	QPSK	1	25	17.28	17.28	17.21			
10	QPSK	1	49	17.30	17.35	17.31	19	0	
10	QPSK	25	0	17.26	17.32	17.24			
10	QPSK	25	12	17.21	17.25	17.11	19	0	
10	QPSK	25	25	17.10	17.17	17.23			
10	QPSK	50	0	17.24	17.34	17.21	19	0	
10	16QAM	1	0	17.23	17.37	17.24			
10	16QAM	1	25	17.21	17.29	17.19	19	0	
10	16QAM	1	49	17.12	17.21	17.14			
10	16QAM	25	0	17.15	17.29	17.13	19	0	
10	16QAM	25	12	17.21	17.20	17.00			
10	16QAM	25	25	17.16	17.11	17.17	19	0	
10	16QAM	50	0	17.08	17.25	17.06			
10	64QAM	1	0	17.19	17.30	17.25	19	0	
10	64QAM	1	25	17.03	17.23	17.01			
10	64QAM	1	49	17.33	17.34	17.11	19	0	
10	64QAM	25	0	17.14	17.18	17.14			
10	64QAM	25	12	17.09	17.15	17.07	19	0	
10	64QAM	25	25	17.12	17.18	17.16			
10	64QAM	50	0	17.11	17.25	17.21	19	0	
10	256QAM	1	0	17.26	17.36	17.22			
10	256QAM	1	25	17.18	17.36	17.07	19	0	
10	256QAM	1	49	17.31	17.31	17.23			
10	256QAM	25	0	17.23	17.31	17.29	19	0	
10	256QAM	25	12	17.12	17.23	17.03			
10	256QAM	25	25	17.23	17.26	17.27	19	0	
10	256QAM	50	0	17.20	17.18	17.12			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				25725	2595	2617.5			
5	QPSK	1	0	17.19	17.33	17.32	19	0	
5	QPSK	1	12	17.22	17.30	17.14			
5	QPSK	1	24	17.28	17.34	17.23	19	0	
5	QPSK	12	0	17.26	17.35	17.29			
5	QPSK	12	7	17.15	17.25	17.16	19	0	
5	QPSK	12	13	17.13	17.16	17.31			
5	QPSK	25	0	17.25	17.31	17.21	19	0	
5	16QAM	1	0	17.20	17.30	17.33			
5	16QAM	1	12	17.14	17.33	17.17	19	0	
5	16QAM	1	24	17.19	17.27	17.21			
5	16QAM	12	0	17.09	17.31	17.10	19	0	
5	16QAM	12	7	17.15	17.21	17.01			
5	16QAM	12	13	17.13	17.14	17.26	19	0	
5	16QAM	25	0	17.07	17.22	17.08			
5	64QAM	1	0	17.08	17.30	17.13	19	0	
5	64QAM	1	12	17.04	17.24	17.12			
5	64QAM	1	24	17.22	17.28	17.18	19	0	
5	64QAM	12	0	17.12	17.19	17.14			
5	64QAM	12	7	17.17	17.20	17.07	19	0	
5	64QAM	12	13	17.08	17.13	17.20			
5	64QAM	25	0	17.07	17.31	17.15	19	0	
5	256QAM	1	0	17.20	17.37	17.14			
5	256QAM	1	12	17.16	17.29	17.10	19	0	
5	256QAM	1	24	17.27	17.36	17.27			
5	256QAM	12	0	17.18	17.32	17.30	19	0	
5	256QAM	12	7	17.13	17.22	17.06			
5	256QAM	12	13	17.17	17.18	17.31	19	0	
5	256QAM	25	0	17.21	17.24	17.17			

Band 41 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power	

Band 2 Ant 5												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	APR3 (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.34	22.66	22.33			24	0		
20	QPSK	1	49	22.36	22.48	22.37						
20	QPSK	1	99	22.25	22.66	22.42			24	0		
20	QPSK	50	0	22.51	22.55	22.56						
20	QPSK	50	24	22.38	22.43	22.42			24	0		
20	QPSK	50	50	22.31	22.35	22.39						
20	QPSK	100	0	22.48	22.62	22.51			24	0		
20	16QAM	1	0	22.18	22.18	22.18						
20	16QAM	1	49	22.22	22.30	22.26			24	0		
20	16QAM	1	99	22.10	22.44	22.32						
20	16QAM	50	0	21.36	21.36	21.37			23	1		
20	16QAM	50	24	21.11	21.26	21.11						
20	16QAM	50	50	21.21	21.21	21.21			23	1		
20	16QAM	100	0	21.41	21.41	21.39						
20	64QAM	1	0	21.34	21.26	21.22			23	1		
20	64QAM	1	49	21.35	21.18	21.21						
20	64QAM	1	99	21.27	21.45	21.38			22	2		
20	64QAM	50	0	20.32	20.30	20.24						
20	64QAM	50	24	20.52	20.19	20.35			22	2		
20	64QAM	50	50	20.31	20.34	20.30						
20	64QAM	100	0	20.38	20.34	20.35			20	4		
20	256QAM	1	0	18.36	18.36	18.33						
20	256QAM	1	49	18.44	18.43	18.43			20	4		
20	256QAM	1	99	18.21	18.29	18.44						
20	256QAM	50	0	18.27	18.27	18.27			20	4		
20	256QAM	50	24	18.29	18.32	18.32						
20	256QAM	50	50	18.27	18.44	18.26			20	4		
20	256QAM	100	0	18.34	18.34	18.33						
Channel												
Frequency (MHz)												
18	QPSK	1	0	22.47	22.45	22.48			24	0		
18	QPSK	1	37	22.29	22.38	22.40						
18	QPSK	1	74	22.38	22.38	22.49			24	0		
18	QPSK	36	0	22.40	22.37	22.32						
18	QPSK	36	15	22.35	22.35	22.39			24	0		
18	QPSK	36	39	22.14	22.34	22.37						
18	QPSK	75	0	22.53	22.53	22.53			24	0		
18	16QAM	1	0	22.12	22.12	22.18						
18	16QAM	1	37	22.11	22.16	22.33			24	0		
18	16QAM	1	74	22.26	22.26	22.35						
18	16QAM	36	0	21.51	21.59	21.77			23	1		
18	16QAM	36	20	21.19	21.17	21.14						
18	16QAM	36	39	21.35	21.35	21.47			23	1		
18	16QAM	75	0	21.29	21.35	21.27						
18	64QAM	1	0	21.43	21.28	21.25			23	1		
18	64QAM	1	37	21.41	21.41	21.42						
18	64QAM	1	74	21.40	21.25	21.13			22	2		
18	64QAM	36	0	20.52	20.39	20.16						
18	64QAM	36	20	20.46	20.46	20.38			22	2		
18	64QAM	36	39	20.24	20.42	20.35						
18	64QAM	75	0	20.35	20.42	20.36			20	4		
18	256QAM	1	0	18.21	18.41	18.41						
18	256QAM	1	37	18.41	18.41	18.39			20	4		
18	256QAM	1	74	18.31	18.25	18.46						
18	256QAM	36	0	18.36	18.46	18.46			20	4		
18	256QAM	36	20	18.46	18.24	18.41						
18	256QAM	36	39	18.23	18.25	18.41			20	4		
18	256QAM	75	0	18.16	18.41	18.39						
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.87	22.87	22.87			24	0		
10	QPSK	1	25	22.35	22.42	22.42						
10	QPSK	1	49	22.24	22.38	22.28			24	0		
10	QPSK	12	0	22.18	22.18	22.18						
10	QPSK	25	12	22.15	22.22	22.34			24	0		
10	QPSK	25	25	22.35	22.34	22.35						
10	QPSK	50	0	22.22	22.22	22.22			24	0		
10	16QAM	1	0	22.22	22.31	22.34						
10	16QAM	1	25	22.22	22.19	22.43			24	0		
10	16QAM	1	49	22.15	22.35	22.38						
10	16QAM	25	0	21.45	21.40	21.19			23	1		
10	16QAM	25	12	21.22	21.24	21.32						
10	16QAM	50	0	21.32	21.32	21.34			23	1		
10	16QAM	50	0	21.24	21.32	21.44						
10	64QAM	1	0	21.44	21.29	21.36			23	1		
10	64QAM	1	24	21.42	21.42	21.45						
10	64QAM	1	49	21.41	21.23	21.31			22	2		
10	64QAM	25	0	20.49	20.29	20.18						
10	64QAM	25	12	20.34	20.35	20.39			22	2		
10	64QAM	25	25	20.21	20.35	20.39						
10	64QAM	50	0	20.34	20.42	20.35			20	4		
10	256QAM	1	0	18.27	18.43	18.43						
10	256QAM	1	25	18.31	18.48	18.37			20	4		
10	256QAM	1	49	18.44	18.37	18.47						
10	256QAM	25	0	18.17	18.37	18.35			20	4		
10	256QAM	25	12	18.32	18.18	18.46						
10	256QAM	25	25	18.31	18.46	18.51			20	4		
10	256QAM	50	0	18.34	18.46	18.51						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.33	22.48	22.43			24	0		
5	QPSK	1	12	22.14	22.40	22.30						
5	QPSK	1	24	22.34	22.47	22.37			24	0		
5	QPSK	12	0	22.40	22.44	22.44						
5	QPSK	12	7	22.29	22.35	22.27			24	0		
5	QPSK	12	13	22.08	22.41	22.46						
5	QPSK	25	0	22.42	22.38	22.34			24	0		
5	16QAM	1	0	22.19	22.39	22.17						
5	16QAM	1	12	22.12	22.37	22.27			24	0		
5	16QAM	1	24	22.06	22.44	22.44						
5	16QAM	12	0	21.43	21.34	21.37			23	1		
5	16QAM	12	7	21.11	21.38	21.22						
5	16QAM	12	13	21.36	21.31	21.32			23	1		
5	16QAM	25	0	21.23	21.46	21.27						
5	16QAM	1	0	21.44	21.32	21.30			23	1		
5	64QAM	1	0	21.33	21.13	21.33						
5	64QAM	1	24	21.27	21.25	21.12			22	2		
5	64QAM	12	0	20.47	20.35	20.34						
5	64QAM	12	7	20.52	20.32	20.43			22	2		
5	64QAM	12	13	20.10	20.20	20.35						
5	64QAM	25	0	20.39	20.41	20.37			20	4		
5	256QAM	1	0	18.19	18.35	18.35						
5	256QAM	1	12	18.31	18.30	18.32			20	4		
5	256QAM	1	24	18.26	18.40	18.45						
5	256QAM	12	0	18.19	18.51	18.51			20	4		
5	256QAM	12	7	18.51	18.25	18.38						
5	256QAM	12	13	18.13	18.26	18.46			20	4		
5	256QAM	25	0	18.26	18.31	18.36						
Channel												
Frequency (MHz)												
3	QPSK	1	0	22.35	22.40	22.33			24	0		
3	QPSK	1	8	22.16	22.48	22.62						
3	QPSK	1	14	22.24	22.43	22.39			24	0		
3	QPSK	8	0	22.20	22.51	22.51						
3	QPSK	8</										

Band 38 Ant 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power High Ch. / Freq.	Power Middle Ch. / Freq.	Power Low Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	22.55	22.64	22.59	24	0	
20	QPSK	1	49	22.51	22.56	22.36			
20	QPSK	1	99	22.46	22.59	22.48	23	1	
20	QPSK	50	0	21.45	21.63	21.59			
20	QPSK	50	24	21.57	21.48	21.38	23	1	
20	QPSK	50	50	21.48	21.42	21.39			
20	QPSK	100	0	21.51	21.60	21.39	23	1	
20	16QAM	1	0	21.52	21.54	21.57			
20	16QAM	1	49	21.42	21.56	21.44	22	2	
20	16QAM	1	99	21.57	21.59	21.44			
20	16QAM	50	0	20.50	20.61	20.61	22	2	
20	16QAM	50	24	20.46	20.54	20.55			
20	16QAM	50	50	20.62	20.42	20.50	21	3	
20	16QAM	100	0	20.56	20.61	20.39			
20	64QAM	1	0	20.47	20.39	20.50	22	2	
20	64QAM	1	49	20.54	20.48	20.55			
20	64QAM	1	99	20.44	20.49	20.54	21	3	
20	64QAM	50	0	19.41	19.54	19.40			
20	64QAM	50	24	19.46	19.46	19.53	19	5	
20	64QAM	50	50	19.41	19.44	19.39			
20	64QAM	100	0	19.57	19.56	19.38	19	5	
20	256QAM	1	0	17.59	17.48	17.57			
20	256QAM	1	49	17.65	17.65	17.50	22	2	
20	256QAM	1	99	17.50	17.51	17.48			
20	256QAM	50	0	17.54	17.46	17.48	19	5	
20	256QAM	50	24	17.53	17.66	17.46			
20	256QAM	50	50	17.56	17.58	17.61	22	2	
20	256QAM	100	0	17.67	17.44	17.51			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	22.60	22.63	22.55	24	0	
15	QPSK	1	37	22.50	22.54	22.39			
15	QPSK	1	74	22.46	22.56	22.51	23	1	
15	QPSK	36	0	21.46	21.60	21.62			
15	QPSK	36	20	21.61	21.51	21.39	23	1	
15	QPSK	36	39	21.46	21.44	21.42			
15	QPSK	75	0	21.51	21.58	21.40	23	1	
15	16QAM	1	0	21.55	21.55	21.57			
15	16QAM	1	37	21.41	21.59	21.42	22	2	
15	16QAM	1	74	21.61	21.59	21.41			
15	16QAM	36	0	20.51	20.61	20.57	22	2	
15	16QAM	36	20	20.46	20.52	20.54			
15	16QAM	36	39	20.61	20.44	20.52	22	2	
15	16QAM	75	0	20.53	20.60	20.37			
15	64QAM	1	0	20.47	20.39	20.47	22	2	
15	64QAM	1	37	20.50	20.48	20.52			
15	64QAM	1	74	20.47	20.46	20.49	21	3	
15	64QAM	36	0	19.40	19.54	19.38			
15	64QAM	36	20	19.42	19.43	19.49	19	5	
15	64QAM	36	39	19.40	19.47	19.37			
15	64QAM	75	0	19.53	19.54	19.38	19	5	
15	256QAM	1	0	17.58	17.59	17.56			
15	256QAM	1	37	17.64	17.66	17.51	19	5	
15	256QAM	1	74	17.52	17.50	17.51			
15	256QAM	36	0	17.64	17.43	17.48	19	5	
15	256QAM	36	20	17.55	17.69	17.50			
15	256QAM	36	39	17.55	17.60	17.64	24	0	
15	256QAM	75	0	17.54	17.48	17.51			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	22.56	22.62	22.56	24	0	
10	QPSK	1	25	22.49	22.56	22.36			
10	QPSK	1	49	22.46	22.60	22.47	23	1	
10	QPSK	25	0	21.45	21.61	21.64			
10	QPSK	25	12	21.59	21.48	21.41	23	1	
10	QPSK	25	25	21.45	21.44	21.40			
10	QPSK	50	0	21.53	21.57	21.39	23	1	
10	16QAM	1	0	21.52	21.57	21.53			
10	16QAM	1	25	21.44	21.54	21.41	22	2	
10	16QAM	1	49	21.61	21.54	21.40			
10	16QAM	25	0	20.48	20.61	20.61	22	2	
10	16QAM	25	12	20.48	20.54	20.55			
10	16QAM	25	25	20.61	20.39	20.51	22	2	
10	16QAM	50	0	20.54	20.64	20.37			
10	64QAM	1	0	20.49	20.39	20.45	22	2	
10	64QAM	1	25	20.54	20.44	20.54			
10	64QAM	1	49	20.44	20.45	20.54	21	3	
10	64QAM	25	0	19.41	19.54	19.39			
10	64QAM	25	12	19.42	19.43	19.51	19	5	
10	64QAM	25	25	19.40	19.46	19.36			
10	64QAM	50	0	19.57	19.55	19.39	19	5	
10	256QAM	1	0	17.56	17.45	17.59			
10	256QAM	1	25	17.68	17.64	17.53	19	5	
10	256QAM	1	49	17.48	17.49	17.52			
10	256QAM	25	0	17.65	17.63	17.50	19	5	
10	256QAM	25	12	17.58	17.67	17.47			
10	256QAM	25	25	17.52	17.61	17.61	21	3	
10	256QAM	50	0	17.66	17.48	17.53			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	22.57	22.56	22.57	24	0	
5	QPSK	1	12	22.52	22.53	22.37			
5	QPSK	1	24	22.45	22.55	22.47	23	1	
5	QPSK	12	0	21.47	21.64	21.64			
5	QPSK	12	7	21.59	21.49	21.37	23	1	
5	QPSK	12	13	21.47	21.45	21.43			
5	QPSK	25	0	21.49	21.56	21.41	23	1	
5	16QAM	1	0	21.53	21.55	21.57			
5	16QAM	1	12	21.44	21.54	21.42	22	2	
5	16QAM	1	24	21.60	21.54	21.43			
5	16QAM	12	0	20.47	20.61	20.58	22	2	
5	16QAM	12	7	20.48	20.50	20.57			
5	16QAM	12	13	20.58	20.39	20.54	22	2	
5	16QAM	25	0	20.54	20.58	20.39			
5	64QAM	1	0	20.48	20.40	20.49	22	2	
5	64QAM	1	12	20.56	20.49	20.51			
5	64QAM	1	24	20.49	20.44	20.54	21	3	
5	64QAM	12	0	19.42	19.52	19.40			
5	64QAM	12	7	19.41	19.46	19.51	19	5	
5	64QAM	12	13	19.41	19.46	19.36			
5	64QAM	25	0	19.52	19.56	19.39	19	5	
5	256QAM	1	0	17.57	17.49	17.57			
5	256QAM	1	12	17.65	17.63	17.54	19	5	
5	256QAM	1	24	17.54	17.51	17.51			
5	256QAM	12	0	17.65	17.45	17.53	19	5	
5	256QAM	12	7	17.53	17.68	17.46			
5	256QAM	12	13	17.52	17.57	17.65	22	2	
5	256QAM	25	0	17.67	17.47	17.53			

Band 41 Ant5										
BW [MHz]	Modulation	RB Size	RB Offset	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				39750	40173	40620	41068	41515		
Frequency (MHz)				2556	2549.5	2595	2636.5	2680		
20	QPSK	1	0	22.32	22.30	22.65	22.59	22.57	24	0
20	QPSK	1	49	22.34	22.18	22.63	22.61	22.56		
20	QPSK	1	99	22.33	22.32	22.61	22.62	22.50		
20	QPSK	50	0	21.59	21.63	21.73	21.47	21.53		
20	QPSK	50	24	21.49	21.68	21.74	21.48	21.65	23	1
20	QPSK	50	50	21.50	21.68	21.64	21.66	21.80		
20	QPSK	100	0	21.50	21.65	21.66	21.54	21.52		
20	16QAM	1	0	21.51	21.50	21.74	21.31	21.51		
20	16QAM	1	49	21.46	21.47	21.68	21.49	21.33	23	1
20	16QAM	1	99	21.56	21.49	21.58	21.46	21.52		
20	16QAM	50	0	20.69	20.60	20.72	20.52	20.60		
20	16QAM	50	24	20.65	20.63	20.72	20.71	20.56		
20	16QAM	50	50	20.74	20.58	20.55	20.69	20.61	22	2
20	16QAM	100	0	20.68	20.63	20.62	20.57	20.65		
20	64QAM	1	0	20.57	20.70	20.53	20.59	20.76		
20	64QAM	1	49	20.70	20.55	20.66	20.66	20.41		
20	64QAM	1	99	20.73	20.58	20.66	20.71	20.57	22	2
20	64QAM	50	0	19.70	19.63	19.60	19.61	19.54		
20	64QAM	50	24	19.71	19.65	19.59	19.63	19.53		
20	64QAM	50	50	19.60	19.75	19.66	19.58	19.71		
20	64QAM	100	0	19.72	19.75	19.68	19.67	19.67	21	3
20	QPSK	1	0	17.63	17.72	17.51	17.58	17.48		
20	QPSK	1	49	17.56	17.72	17.58	17.76	17.64		
20	256QAM	1	99	17.70	17.61	17.67	17.64	17.63		
20	256QAM	50	0	17.70	17.58	17.70	17.59	17.51	19	5
20	256QAM	50	24	17.73	17.65	17.61	17.50	17.69		
20	256QAM	50	50	17.60	17.58	17.55	17.74	17.65		
20	256QAM	100	0	17.70	17.58	17.67	17.57	17.64		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2550.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	22.33	22.30	22.62	22.56	22.55	24	0
15	QPSK	1	37	22.31	22.12	22.64	22.60	22.56		
15	QPSK	1	74	22.33	22.30	22.62	22.61	22.38		
15	QPSK	36	0	21.55	21.63	21.70	21.44	21.50		
15	QPSK	36	20	21.50	21.67	21.71	21.44	21.61	23	1
15	QPSK	36	39	21.48	21.64	21.61	21.66	21.60		
15	QPSK	75	0	21.47	21.61	21.68	21.50	21.53		
15	16QAM	1	0	21.50	21.47	21.71	21.31	21.47		
15	16QAM	37	37	21.43	21.43	21.67	21.49	21.49	23	1
15	16QAM	1	74	21.52	21.50	21.58	21.45	21.50		
15	16QAM	36	0	20.70	20.60	20.74	20.50	20.52		
15	16QAM	36	20	20.65	20.60	20.72	20.70	20.57		
15	16QAM	36	39	20.72	20.55	20.56	20.70	20.61	22	2
15	16QAM	75	0	20.65	20.61	20.62	20.57	20.60		
15	64QAM	0	0	20.57	20.71	20.53	20.60	20.74		
15	64QAM	1	37	20.71	20.54	20.67	20.66	20.50		
15	64QAM	1	74	20.74	20.55	20.67	20.68	20.55	22	2
15	64QAM	36	0	19.68	19.60	19.60	19.57	19.50		
15	64QAM	36	39	19.69	19.62	19.55	19.64	19.56		
15	64QAM	30	30	19.57	19.74	19.65	19.55	19.71		
15	64QAM	75	0	19.72	19.75	19.68	19.65	19.66	21	3
15	256QAM	1	0	17.53	17.68	17.52	17.58	17.70		
15	256QAM	1	37	17.53	17.68	17.55	17.72	17.63		
15	256QAM	1	74	17.70	17.57	17.68	17.65	17.63		
15	256QAM	1	99	17.66	17.59	17.58	17.66	17.61	19	5
15	256QAM	36	20	17.72	17.62	17.61	17.51	17.69		
15	256QAM	36	39	17.58	17.55	17.55	17.72	17.64		
15	256QAM	75	0	17.67	17.59	17.65	17.58	17.51		
Channel				39700	40169	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2551	2547	2593	2633	2683		
10	QPSK	1	0	22.31	22.28	22.61	22.57	22.55	24	0
10	QPSK	1	25	22.32	22.18	22.59	22.58	22.53		
10	QPSK	1	49	22.33	22.29	22.60	22.61	22.41		
10	QPSK	25	0	21.60	21.62	21.70	21.49	21.49		
10	QPSK	25	12	21.49	21.66	21.69	21.46	21.21	23	1
10	QPSK	25	25	21.47	21.68	21.66	21.65	21.56		
10	QPSK	0	0	21.46	21.64	21.64	21.54	21.51		
10	16QAM	1	0	21.49	21.51	21.72	21.30	21.52		
10	16QAM	1	25	21.46	21.48	21.69	21.49	21.33	23	1
10	16QAM	1	49	21.57	21.46	21.55	21.47	21.53		
10	16QAM	25	0	20.69	20.59	20.72	20.51	20.48		
10	16QAM	25	12	20.67	20.60	20.72	20.72	20.55		
10	16QAM	25	25	20.73	20.57	20.56	20.65	20.60	22	2
10	16QAM	50	0	20.66	20.61	20.62	20.56	20.66		
10	64QAM	1	0	20.56	20.71	20.52	20.55	20.78		
10	64QAM	1	25	20.69	20.54	20.66	20.64	20.49		
10	64QAM	1	49	20.71	19.58	19.64	19.69	19.53	22	2
10	64QAM	25	0	19.67	19.63	19.57	19.58	19.53		
10	64QAM	25	12	19.71	19.64	19.56	19.64	19.53		
10	64QAM	25	25	19.59	19.74	19.65	19.56	19.69		
10	64QAM	50	0	19.69	19.74	19.65	19.66	19.68	21	3
10	256QAM	1	0	17.51	17.69	17.47	17.58	17.69		
10	256QAM	1	25	17.54	17.61	17.71	17.74	17.63		
10	256QAM	1	49	17.69	17.63	17.65	17.63	17.63		
10	256QAM	25	0	17.67	17.58	17.69	17.57	17.47	19	5
10	256QAM	25	12	17.70	17.63	17.58	17.47	17.67		
10	256QAM	25	25	17.57	17.58	17.55	17.75	17.64		
10	256QAM	50	0	17.67	17.55	17.63	17.53	17.62		
Channel				39675	40144	40620	41093	41555	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	22.29	22.28	22.61	22.59	22.54	24	0
5	QPSK	1	12	22.35	22.14	22.60	22.61	22.55		
5	QPSK	1	24	22.34	22.30	22.59	22.59	22.38		
5	QPSK	12	0	21.67	21.68	21.69	21.46	21.52		
5	QPSK	12	7	21.50	21.89	21.69	21.46	21.56	23	1
5	QPSK	12	13	21.52	21.67	21.66	21.65	21.60		
5	QPSK	25	0	21.49	21.62	21.65	21.55	21.49		
5	16QAM	1	0	21.52	21.49	21.72	21.31	21.48		
5	16QAM	1	12	21.46	21.49	21.64	21.47	21.34	23	1
5	16QAM	1	24	21.55	21.47	21.55	21.45	21.45		
5	16QAM	12	0	20.70	20.58	20.70	20.52	20.49		
5	16QAM	12	7	20.65	20.60	20.71	20.72	20.54		
5	16QAM	12	13	20.73	20.54	20.56	20.68	20.62	22	2
5	16QAM	25	0	20.67	20.60	20.58	20.57	20.62		
5	16QAM	25	12	20.54	20.71	20.59	20.60	20.73		
5	16QAM	1	12	20.71	20.53	20.65	20.63	20.50		
5	64QAM	1	24	20.69	20.54	20.62	20.72	20.55	22	2
5	64QAM	12	0	19.67	19.65	19.60	19.59	19.53		
5	64QAM	12	7	19.69	19.63	19.59	19.64	19.54		
5	64QAM	12	13	19.58	19.76	19.65	19.59	19.72		
5	256QAM	1	0	19.68	19.75	19.66	19.67	19.65	21	3
5	256QAM	1	0	17.53	17.70	17.49	17.59	17.69		
5	256QAM	1	12	17.52	17.68	17.55	17.73	17.64		
5	256QAM	1	24	17.66	17.59	17.64	17.60	17.61		
5	256QAM	12	0	17.70	17.55	17.67	17.55	17.48	19	5
5	256QAM	12	7	17.70	17.62	17.69	17.60	17.55		
5	256QAM	12	13	17.55	17.56	17.55	17.74	17.67		
5	256QAM	25	0	17.66	17.57	17.66	17.58	17.62		

Band 7 Ant 6									
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				2050	2100	2150	24	0	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	22.27	22.56	22.52	24	0	
20	QPSK	1	49	22.28	22.43	22.42			
20	QPSK	1	99	22.22	22.44	22.30			
20	QPSK	50	0	21.43	21.45	21.41	23	1	
20	QPSK	50	24	21.19	21.40	21.19			
20	QPSK	50	50	21.18	21.38	21.34			
20	QPSK	100	0	21.22	21.33	21.31	23	1	
20	16QAM	1	0	21.33	21.44	21.35			
20	16QAM	1	49	21.25	21.31	21.26			
20	16QAM	1	99	21.38	21.47	21.25	22	2	
20	16QAM	50	0	20.29	20.18	20.22			
20	16QAM	50	24	20.31	20.39	20.25			
20	16QAM	50	50	20.37	20.42	20.28	22	2	
20	16QAM	100	0	20.21	20.37	20.17			
20	64QAM	1	0	20.28	20.40	20.26			
20	64QAM	1	49	20.17	20.34	20.38	22	2	
20	64QAM	1	99	20.16	20.32	20.34			
20	64QAM	50	0	19.35	19.53	19.32			
20	64QAM	50	24	19.44	19.32	19.28	21	3	
20	64QAM	50	50	19.38	19.39	19.38			
20	64QAM	100	0	19.49	19.35	19.33			
20	256QAM	1	0	17.45	17.46	17.32	19	5	
20	256QAM	1	49	17.49	17.48	17.43			
20	256QAM	1	99	17.38	17.39	17.42			
20	256QAM	50	0	17.48	17.32	17.43	19	5	
20	256QAM	50	24	17.35	17.54	17.52			
20	256QAM	50	50	17.51	17.52	17.42			
20	256QAM	100	0	17.31	17.47	17.41	24	0	
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5	23	1	
15	QPSK	1	0	22.21	22.43	22.41			
15	QPSK	1	37	22.20	22.31	22.32	23	1	
15	QPSK	1	74	22.14	22.35	22.20			
15	QPSK	36	0	21.32	21.32	21.26			
15	QPSK	36	20	21.09	21.28	21.11	23	1	
15	QPSK	36	39	21.09	21.26	21.27			
15	QPSK	75	0	21.11	21.27	21.22			
15	16QAM	1	0	21.23	21.35	21.27	23	1	
15	16QAM	1	37	21.19	21.21	21.17			
15	16QAM	1	74	21.25	21.35	21.12			
15	16QAM	36	0	20.19	20.09	20.14	22	2	
15	16QAM	36	20	20.20	20.31	20.12			
15	16QAM	36	39	20.25	20.30	20.15			
15	16QAM	75	0	20.12	20.24	20.10	22	2	
15	64QAM	1	0	20.20	20.27	20.14			
15	64QAM	1	37	20.09	20.27	20.31			
15	64QAM	1	74	20.08	20.21	20.22	21	3	
15	64QAM	36	0	19.23	19.41	19.21			
15	64QAM	36	20	19.34	19.21	19.18			
15	64QAM	36	39	19.29	19.31	19.30	19	5	
15	64QAM	75	0	19.38	19.25	19.29			
15	256QAM	1	0	17.37	17.40	17.23			
15	256QAM	1	37	17.38	17.35	17.29	19	5	
15	256QAM	1	74	17.27	17.29	17.33			
15	256QAM	36	0	17.42	17.26	17.33			
15	256QAM	36	20	17.26	17.41	17.41	19	5	
15	256QAM	36	39	17.44	17.41	17.35			
15	256QAM	75	0	17.21	17.38	17.32			
Channel				20800	21100	21400	24	0	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	22.19	22.47	22.44	24	0	
10	QPSK	1	25	22.21	22.34	22.33			
10	QPSK	1	49	22.15	22.32	22.17			
10	QPSK	25	0	21.30	21.33	21.30	23	1	
10	QPSK	25	12	21.11	21.30	21.12			
10	QPSK	25	25	21.12	21.28	21.28			
10	QPSK	50	0	21.15	21.27	21.22	23	1	
10	16QAM	1	0	21.21	21.38	21.26			
10	16QAM	1	25	21.14	21.15	21.11			
10	16QAM	1	49	21.27	21.38	21.13	22	2	
10	16QAM	25	0	20.20	20.07	20.09			
10	16QAM	25	12	20.20	20.26	20.09			
10	16QAM	25	25	20.23	20.30	20.18	22	2	
10	16QAM	50	0	20.12	20.23	20.07			
10	64QAM	1	0	20.15	20.27	20.15			
10	64QAM	1	25	20.06	20.21	20.31	21	3	
10	64QAM	1	49	20.08	20.25	20.26			
10	64QAM	25	0	19.24	19.43	19.24			
10	64QAM	25	12	19.31	19.22	19.19	19	5	
10	64QAM	25	25	19.28	19.30	19.30			
10	64QAM	50	0	19.39	19.24	19.28			
10	256QAM	1	0	17.37	17.42	17.26	19	5	
10	256QAM	1	25	17.38	17.34	17.28			
10	256QAM	1	49	17.27	17.28	17.33			
10	256QAM	25	0	17.43	17.26	17.34	19	5	
10	256QAM	25	12	17.26	17.45	17.46			
10	256QAM	25	25	17.41	17.40	17.31			
10	256QAM	50	0	17.21	17.37	17.35	24	0	
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5	24	0	
5	QPSK	1	0	22.20	22.43	22.42			
5	QPSK	1	12	22.19	22.33	22.28	23	1	
5	QPSK	1	24	22.11	22.31	22.18			
5	QPSK	12	0	21.30	21.31	21.27			
5	QPSK	12	7	21.14	21.28	21.13	23	1	
5	QPSK	12	13	21.11	21.27	21.24			
5	QPSK	25	0	21.11	21.22	21.23			
5	16QAM	1	0	21.21	21.34	21.28	23	1	
5	16QAM	1	12	21.17	21.16	21.12			
5	16QAM	1	24	21.28	21.35	21.13			
5	16QAM	12	0	20.17	20.08	20.12	22	2	
5	16QAM	12	7	20.20	20.26	20.14			
5	16QAM	12	13	20.23	20.27	20.19			
5	16QAM	25	0	20.13	20.23	20.10	22	2	
5	64QAM	1	0	20.14	20.26	20.11			
5	64QAM	1	12	20.09	20.24	20.30			
5	64QAM	1	24	20.05	20.23	20.28	21	3	
5	64QAM	12	0	19.22	19.40	19.22			
5	64QAM	12	7	19.34	19.23	19.21			
5	64QAM	12	13	19.30	19.29	19.32	19	5	
5	64QAM	25	0	19.36	19.20	19.24			
5	256QAM	1	0	17.35	17.36	17.23			
5	256QAM	1	12	17.36	17.33	17.32	19	5	
5	256QAM	1	24	17.26	17.29	17.33			
5	256QAM	12	0	17.40	17.24	17.36			
5	256QAM	12	7	17.27	17.44	17.45	19	5	
5	256QAM	12	13	17.41	17.44	17.33			
5	256QAM	25	0	17.20	17.35	17.35			

Band 38 Ant 6									
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				37650	38000	38150	24	0	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	22.21	22.23	22.18	23	1	
20	QPSK	1	49	22.16	22.10	22.11			
20	QPSK	50	0	21.13	21.19	21.16			
20	QPSK	50	24	21.12	21.00	21.05			
20	QPSK	50	50	21.05	21.09	21.07	23	1	
20	QPSK	100	0	21.03	21.19	21.06			
20	16QAM	1	0	21.07	21.15	21.05			
20	16QAM	1	49	21.07	21.16	21.12			
20	16QAM	1	99	21.10	21.04	21.14	23	1	
20	16QAM	50	0	20.27	20.25	20.34			
20	16QAM	50	24	20.25	20.30	20.37			
20	16QAM	50	50	20.44	20.38	20.45			
20	16QAM	100	0	20.38	20.21	20.27	22	2	
20	64QAM	1	0	20.32	20.39	20.42			
20	64QAM	1	49	20.33	20.32	20.43			
20	64QAM	1	99	20.29	20.41	20.28			
20	64QAM	50	0	19.39	19.47	19.41	21	3	
20	64QAM	50	24	19.29	19.40	19.34			
20	64QAM	50	50	19.24	19.31	19.34			
20	64QAM	100	0	19.20	19.31	19.25			
20	256QAM	1	0	17.24	17.39	17.36	19	5	
20	256QAM	1	49	17.45	17.45	17.38			
20	256QAM	1	99	17.43	17.33	17.36			
20	256QAM	50	0	17.39	17.48	17.22			
20	256QAM	50	24	17.45	17.47	17.46	19	5	
20	256QAM	50	50	17.26	17.29	17.27			
20	256QAM	100	0	17.37	17.39	17.25			
Channel				37625	38000	38175			
Frequency (MHz)				25775	2595	2612.5	24 <td rowspan="2">0</td> <td rowspan="2"></td>	0	
15	QPSK	1	0	22.19	22.21	22.14			
15	QPSK	1	37	22.13	22.08	22.11	23	1	
15	QPSK	1	74	22.14	22.13	22.08			
15	QPSK	36	0	21.11	21.15	21.15			
15	QPSK	36	20	21.09	21.01	21.06			
15	QPSK	36	39	21.06	21.07	21.03	23	1	
15	QPSK	75	0	21.03	21.15	21.02			
15	16QAM	1	0	21.06	21.15	21.04			
15	16QAM	1	37	21.09	21.16	21.08			
15	16QAM	1	74	21.06	21.03	21.11	22	2	
15	16QAM	36	0	20.28	20.25	20.33			
15	16QAM	36	20	20.25	20.27	20.34			
15	16QAM	36	39	20.43	20.34	20.42			
15	16QAM	75	0	20.37	20.22	20.28	22	2	
15	64QAM	1	0	20.34	20.37	20.43			
15	64QAM	1	37	20.33	20.30	20.44			
15	64QAM	1	74	20.29	20.40	20.27			
15	64QAM	36	0	19.38	19.43	19.41	21	3	
15	64QAM	36	20	19.29	19.41	19.30			
15	64QAM	36	39	19.22	19.30	19.35			
15	64QAM	75	0	19.21	19.28	19.25			
15	256QAM	1	0	17.26	17.36	17.33	19	5	
15	256QAM	1	37	17.44	17.42	17.37			
15	256QAM	1	74	17.43	17.33	17.33			
15	256QAM	36	0	17.40	17.45	17.21			
15	256QAM	36	20	17.44	17.49	17.42	19	5	
15	256QAM	36	39	17.27	17.28	17.25			
15	256QAM	75	0	17.37	17.38	17.26			
Channel				37600	38000	38200			
Frequency (MHz)				25750	25950	26150	24 <td rowspan="2">0</td> <td rowspan="2"></td>	0	
10	QPSK	1	0	22.21	22.15	22.15			
10	QPSK	1	25	22.13	22.08	22.13	23	1	
10	QPSK	1	49	22.17	22.21	22.05			
10	QPSK	25	0	21.09	21.17	21.12			
10	QPSK	25	12	21.11	21.13	21.05			
10	QPSK	25	25	21.06	21.09	21.03	23	1	
10	QPSK	50	0	21.01	21.19	21.03			
10	16QAM	1	0	21.03	21.15	21.02			
10	16QAM	1	25	21.05	21.13	21.10			
10	16QAM	1	49	21.11	21.00	21.12	22	2	
10	16QAM	25	0	20.24	20.23	20.30			
10	16QAM	25	12	20.22	20.30	20.35			
10	16QAM	25	25	20.43	20.39	20.46			
10	16QAM	50	0	20.36	20.22	20.24	22	2	
10	64QAM	1	0	20.28	20.39	20.41			
10	64QAM	1	25	20.34	20.33	20.43			
10	64QAM	1	49	20.28	20.40	20.29			
10	64QAM	25	0	19.41	19.46	19.38	21	3	
10	64QAM	25	12	19.25	19.37	19.32			
10	64QAM	25	25	19.22	19.29	19.32			
10	64QAM	50	0	19.16	19.32	19.21			
10	256QAM	1	0	17.25	17.40	17.35	19	5	
10	256QAM	1	25	17.46	17.48	17.38			
10	256QAM	1	49	17.43	17.30	17.36			
10	256QAM	25	0	17.36	17.49	17.22			
10	256QAM	25	12	17.41	17.45	17.42	19	5	
10	256QAM	25	25	17.26	17.26	17.26			
10	256QAM	50	0	17.38	17.39	17.25			
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5	24 <td rowspan="2">0</td> <td rowspan="2"></td>	0	
5	QPSK	1	0	22.18	22.16	22.14			
5	QPSK	1	12	22.16	22.11	22.08	23	1	
5	QPSK	1	24	22.15	22.11	22.08			
5	QPSK	12	0	21.13	21.17	21.12			
5	QPSK	12	7	21.09	21.00	21.01			
5	QPSK	12	13	21.01	21.05	21.08	23	1	
5	QPSK	25	0	21.02	21.17	21.05			
5	16QAM	1	0	21.08	21.11	21.01			
5	16QAM	1	12	21.04	21.14	21.08			
5	16QAM	1	24	21.07	21.04	21.14	23	1	
5	16QAM	12	0	20.27	20.24	20.33			
5	16QAM	12	7	20.24	20.29	20.33			
5	16QAM	12	13	20.41	20.39	20.47			
5	16QAM	25	0	20.38	20.19	20.24	22	2	
5	64QAM	1	0	20.31	20.35	20.42			
5	64QAM	1	12	20.34	20.32	20.41			
5	64QAM	1	24	20.26	20.40	20.27			
5	64QAM	12	0	19.39	19.43	19.42	21	3	
5	64QAM	12	7	19.29	19.41	19.31			
5	64QAM	12	13	19.24	19.29	19.33			
5	64QAM	25	0	19.21	19.32	19.21			
5	256QAM	1	0	17.25	17.38	17.35	19	5	
5	256QAM	1	12	17.44	17.42	17.38			
5	256QAM	1	24	17.43	17.31	17.37			
5	256QAM	12	0	17.38	17.49	17.22			
5	256QAM	12	7	17.41	17.44	17.44	19	5	
5	256QAM	12	13	17.26	17.30	17.25			
5	256QAM	25	0	17.34	17.39	17.21			
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5	24 <td rowspan="2">0</td> <td rowspan="2"></td>	0	
5	QPSK	1	0	22.19	22.21	22.14			

Band 7 Ant 7									
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				20650	21100	21600			
Frequency (MHz)				2610	2636	2660			
20	QPSK	1	0	20.41	20.49	20.41	22	0	
20	QPSK	1	49	20.21	20.24	20.16			
20	QPSK	1	99	20.25	20.44	20.39			
20	QPSK	50	0	19.27	19.43	19.35	21	1	
20	QPSK	50	24	19.37	19.41	19.40			
20	QPSK	50	50	19.33	19.38	19.26			
20	QPSK	100	0	19.24	19.50	19.39	21	1	
20	16QAM	1	0	19.37	19.40	19.28			
20	16QAM	1	49	19.20	19.35	19.22			
20	16QAM	1	99	19.24	19.30	19.25	20	2	
20	16QAM	50	0	18.18	18.35	18.32			
20	16QAM	50	24	18.31	18.34	18.18			
20	16QAM	50	50	18.26	18.35	18.28	20	2	
20	16QAM	100	0	18.38	18.31	18.27			
20	64QAM	1	0	18.31	18.17	18.26			
20	64QAM	1	49	18.25	18.23	18.14	19	3	
20	64QAM	1	99	18.30	18.18	18.20			
20	64QAM	50	0	17.26	17.44	17.40			
20	64QAM	50	24	17.43	17.34	17.28	17	5	
20	64QAM	50	50	17.22	17.44	17.42			
20	64QAM	100	0	17.42	17.22	17.38			
20	256QAM	1	0	15.33	15.27	15.39	17	5	
20	256QAM	1	49	15.39	15.36	15.30			
20	256QAM	1	99	15.31	15.23	15.46			
20	256QAM	50	0	15.35	15.38	15.38	17	5	
20	256QAM	50	24	15.36	15.22	15.26			
20	256QAM	50	50	15.45	15.28	15.32			
20	256QAM	100	0	15.36	15.37	15.41			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	20.39	20.46	20.38	22	0	
15	QPSK	1	37	20.18	20.25	20.22			
15	QPSK	1	74	20.30	20.43	20.37			
15	QPSK	36	0	19.25	19.44	19.30	21	1	
15	QPSK	36	20	19.34	19.38	19.36			
15	QPSK	36	39	19.30	19.39	19.27			
15	QPSK	75	0	19.24	19.51	19.37	21	1	
15	16QAM	1	0	19.40	19.43	19.24			
15	16QAM	1	37	19.20	19.36	19.22			
15	16QAM	1	74	19.23	19.30	19.23	20	2	
15	16QAM	36	0	18.16	18.31	18.32			
15	16QAM	36	20	18.28	18.38	18.17			
15	16QAM	36	39	18.25	18.31	18.23	19	3	
15	16QAM	75	0	18.35	18.33	18.29			
15	64QAM	1	0	18.28	18.17	18.27			
15	64QAM	1	37	18.25	18.24	18.13	17	5	
15	64QAM	1	74	18.33	18.20	18.17			
15	64QAM	36	0	17.28	17.44	17.38			
15	64QAM	36	20	17.38	17.32	17.30	17	5	
15	64QAM	36	39	17.24	17.41	17.38			
15	64QAM	75	0	17.44	17.24	17.34			
15	256QAM	1	0	15.35	15.24	15.36	17	5	
15	256QAM	1	37	15.41	15.37	15.28			
15	256QAM	1	74	15.30	15.24	15.43			
15	256QAM	36	0	15.32	15.39	15.37	17	5	
15	256QAM	36	20	15.34	15.24	15.29			
15	256QAM	36	39	15.46	15.30	15.35			
15	256QAM	75	0	15.39	15.38	15.42			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	20.39	20.46	20.35	22	0	
10	QPSK	1	25	20.30	20.25	20.19			
10	QPSK	1	49	20.26	20.40	20.38			
10	QPSK	25	0	19.25	19.40	19.31	21	1	
10	QPSK	25	12	19.38	19.36	19.40			
10	QPSK	25	25	19.32	19.37	19.25			
10	QPSK	50	0	19.23	19.51	19.40	21	1	
10	16QAM	1	0	19.41	19.41	19.29			
10	16QAM	1	25	19.24	19.37	19.21			
10	16QAM	1	49	19.25	19.30	19.24	20	2	
10	16QAM	25	0	18.17	18.28	18.32			
10	16QAM	25	12	18.28	18.37	18.18			
10	16QAM	25	25	18.21	18.34	18.24	19	3	
10	16QAM	50	0	18.34	18.32	18.27			
10	64QAM	1	0	18.30	18.19	18.23			
10	64QAM	1	25	18.21	18.19	18.10	17	5	
10	64QAM	1	49	18.33	18.19	18.19			
10	64QAM	25	0	17.30	17.43	17.42			
10	64QAM	25	12	17.42	17.31	17.27	17	5	
10	64QAM	25	25	17.22	17.43	17.43			
10	64QAM	50	0	17.44	17.25	17.37			
10	256QAM	1	0	15.36	15.24	15.40	17	5	
10	256QAM	1	25	15.38	15.36	15.29			
10	256QAM	1	49	15.30	15.24	15.44			
10	256QAM	25	0	15.33	15.37	15.39	17	5	
10	256QAM	25	12	15.38	15.25	15.30			
10	256QAM	25	25	15.43	15.30	15.31			
10	256QAM	50	0	15.41	15.37	15.43			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	20.38	20.43	20.37	22	0	
5	QPSK	1	12	20.21	20.24	20.19			
5	QPSK	1	24	20.29	20.42	20.41			
5	QPSK	12	0	19.24	19.44	19.33	21	1	
5	QPSK	12	7	19.35	19.38	19.37			
5	QPSK	12	13	19.34	19.40	19.26			
5	QPSK	25	0	19.28	19.50	19.39	21	1	
5	16QAM	1	0	19.40	19.44	19.24			
5	16QAM	1	12	19.23	19.36	19.20			
5	16QAM	1	24	19.25	19.29	19.24	20	2	
5	16QAM	12	0	18.16	18.34	18.33			
5	16QAM	12	7	18.27	18.35	18.20			
5	16QAM	12	13	18.23	18.31	18.29	19	3	
5	16QAM	25	0	18.37	18.28	18.24			
5	64QAM	1	0	18.28	18.20	18.21			
5	64QAM	1	12	18.22	18.18	18.11	17	5	
5	64QAM	1	24	18.32	18.19	18.18			
5	64QAM	12	0	17.29	17.41	17.40			
5	64QAM	12	7	17.42	17.31	17.27	17	5	
5	64QAM	12	13	17.18	17.41	17.38			
5	64QAM	25	0	17.43	17.25	17.35			
5	256QAM	1	0	15.35	15.22	15.37	17	5	
5	256QAM	1	12	15.43	15.33	15.31			
5	256QAM	1	24	15.27	15.26	15.42			
5	256QAM	12	0	15.31	15.38	15.37	17	5	
5	256QAM	12	7	15.33	15.23	15.30			
5	256QAM	12	13	15.42	15.29	15.35			
5	256QAM	25	0	15.37	15.38	15.43			

Band 38 Ant 7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150	22.5	0	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	21.23	21.27	21.16	21.5	1	
20	QPSK	1	49	21.15	21.10	21.10			
20	QPSK	1	99	21.93	21.16	21.04			
20	QPSK	50	0	20.21	20.25	20.16	21.5	1	
20	QPSK	50	24	20.20	20.17	20.24			
20	QPSK	50	50	20.18	20.12	20.06			
20	QPSK	100	0	20.17	20.27	20.20	21.5	1	
20	16QAM	1	0	20.26	20.25	20.28			
20	16QAM	1	49	20.14	20.28	20.23			
20	16QAM	1	99	20.19	20.23	20.24	20.5	2	
20	16QAM	50	0	19.12	19.10	19.11			
20	16QAM	50	24	19.18	19.02	19.24			
20	16QAM	50	50	19.18	19.22	19.24	20.5	2	
20	16QAM	100	0	19.11	19.24	19.02			
20	64QAM	1	0	19.25	19.04	19.17			
20	64QAM	1	49	19.10	19.03	19.01	20.5	2	
20	64QAM	1	99	19.16	19.25	19.26			
20	64QAM	50	0	18.20	18.14	18.01			
20	64QAM	50	24	18.02	18.13	18.04	19.5	3	
20	64QAM	50	50	18.02	18.14	18.15			
20	64QAM	100	0	18.02	18.24	18.23			
20	256QAM	1	0	16.09	16.18	16.08	17.5	5	
20	256QAM	1	49	16.09	16.21	16.17			
20	256QAM	1	99	16.06	16.15	16.06			
20	256QAM	50	0	16.07	16.10	16.26	17.5	5	
20	256QAM	50	24	16.25	16.07	16.10			
20	256QAM	50	50	16.02	16.07	16.11			
20	256QAM	100	0	16.18	16.10	16.05	Tune-up limit (dBm)	MPR (dB)	
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5	22.5	0	
15	QPSK	1	0	21.19	21.26	21.12			
15	QPSK	1	37	21.17	21.09	21.13	21.5	1	
15	QPSK	1	74	21.07	21.14	21.01			
15	QPSK	36	0	20.20	20.26	20.14			
15	QPSK	36	20	20.25	20.15	20.24	21.5	1	
15	QPSK	36	39	20.14	20.12	20.06			
15	QPSK	75	0	20.17	20.28	20.20			
15	16QAM	1	0	20.28	20.04	20.25	21.5	1	
15	16QAM	1	37	20.13	20.06	20.28			
15	16QAM	1	74	20.22	20.22	20.25			
15	16QAM	36	0	19.14	19.10	19.10	20.5	2	
15	16QAM	36	20	19.21	19.08	19.25			
15	16QAM	36	39	19.21	19.25	19.22			
15	16QAM	75	0	19.08	19.25	19.06	20.5	2	
15	64QAM	1	0	19.30	19.02	19.17			
15	64QAM	1	37	19.08	19.05	19.17			
15	64QAM	1	74	19.14	19.20	19.25	19.5	3	
15	64QAM	36	0	18.25	18.15	18.05			
15	64QAM	36	20	18.06	18.18	18.10			
15	64QAM	36	39	18.12	18.11	18.17	17.5	5	
15	64QAM	75	0	18.04	18.20	18.22			
15	256QAM	1	0	16.10	16.09	16.04			
15	256QAM	1	37	16.11	16.22	16.20	17.5	5	
15	256QAM	1	74	16.08	16.17	16.08			
15	256QAM	36	0	16.08	16.10	16.25			
15	256QAM	36	20	16.21	16.09	16.11	17.5	5	
15	256QAM	36	39	16.06	16.09	16.05			
15	256QAM	75	0	16.17	16.15	16.04			
Channel				37900	38000	38200	22.5	0	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	21.19	21.20	21.12	21.5	1	
10	QPSK	1	25	21.14	21.12	21.13			
10	QPSK	1	49	21.04	21.13	21.02			
10	QPSK	25	0	20.18	20.26	20.11	21.5	1	
10	QPSK	25	12	20.25	20.18	20.21			
10	QPSK	25	25	20.14	20.14	20.05			
10	QPSK	50	0	20.15	20.23	20.16	21.5	1	
10	16QAM	1	0	20.31	20.29	20.25			
10	16QAM	1	25	20.16	20.10	20.25			
10	16QAM	1	49	20.22	20.22	20.19	20.5	2	
10	16QAM	25	0	19.17	19.09	19.15			
10	16QAM	25	12	19.23	19.05	19.26			
10	16QAM	25	25	19.21	19.24	19.25	20.5	2	
10	16QAM	50	0	19.07	19.28	19.03			
10	64QAM	1	0	19.28	19.07	19.14			
10	64QAM	1	25	19.12	19.04	19.00	19.5	3	
10	64QAM	1	49	19.14	19.22	19.25			
10	64QAM	25	0	18.19	18.13	18.01			
10	64QAM	25	12	18.07	18.16	18.10	17.5	5	
10	64QAM	25	25	18.08	18.16	18.15			
10	64QAM	50	0	18.03	18.21	18.23			
10	256QAM	1	0	16.06	16.15	16.05	17.5	5	
10	256QAM	1	25	16.09	16.24	16.23			
10	256QAM	1	49	16.05	16.18	16.05			
10	256QAM	25	0	16.05	16.14	16.26	17.5	5	
10	256QAM	25	12	16.21	16.11	16.05			
10	256QAM	25	25	16.01	16.11	16.08			
10	256QAM	50	0	16.15	16.15	16.04	Tune-up limit (dBm)	MPR (dB)	
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5	22.5	0	
5	QPSK	1	0	21.20	21.20	21.12			
5	QPSK	1	12	21.17	21.12	21.10	21.5	1	
5	QPSK	1	24	21.04	21.11	21.00			
5	QPSK	12	0	20.20	20.24	20.12			
5	QPSK	12	7	20.22	20.13	20.19	21.5	1	
5	QPSK	12	13	20.16	20.10	20.02			
5	QPSK	25	0	20.16	20.28	20.18			
5	16QAM	1	0	20.29	20.25	20.26	21.5	1	
5	16QAM	1	12	20.16	20.09	20.24			
5	16QAM	1	24	20.19	20.20	20.19			
5	16QAM	12	0	19.14	19.07	19.14	20.5	2	
5	16QAM	12	7	19.22	19.08	19.27			
5	16QAM	12	13	19.18	19.24	19.23			
5	16QAM	25	0	19.12	19.24	19.07	20.5	2	
5	64QAM	1	0	19.26	19.07	19.18			
5	64QAM	1	12	19.12	19.03	19.02			
5	64QAM	1	24	19.14	19.22	19.24	19.5	3	
5	64QAM	12	0	18.22	18.13	18.03			
5	64QAM	12	7	18.04	18.17	18.05			
5	64QAM	12	13	18.11	18.10	18.16	17.5	5	
5	64QAM	25	0	18.02	18.22	18.21			
5	256QAM	1	0	16.09	16.18	16.03			
5	256QAM	1	12	16.10	16.23	16.22	17.5	5	
5	256QAM	1	24	16.08	16.18	16.05			
5	256QAM	12	0	16.04	16.09	16.26			
5	256QAM	12	7	16.25	16.10	16.11	17.5	5	
5	256QAM	12	13	16.02	16.10	16.10			
5	256QAM	25	0	16.18	16.10	16.04			

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Tune-up limit (dbm)	MPR (db)		
Channel				39750	40185	40620	41055	41490			
Frequency (MHz)				2506	2549.5	2593	2636.5	2680			
20	QPSK	1	0	20.89	20.93	21.28	21.04	21.06	22.5	0	
20	QPSK	1	49	20.87	20.92	21.18	20.93	21.06			
20	QPSK	1	99	20.84	20.87	21.18	20.98	21.07			
20	QPSK	50	0	19.90	19.96	20.20	20.95	20.98			
20	QPSK	50	24	19.96	19.94	20.18	19.95	20.08	21.5	1	
20	QPSK	50	50	19.84	19.85	20.17	19.96	20.07			
20	QPSK	100	0	19.86	19.89	20.16	20.01	20.07			
20	16QAM	1	0	20.18	20.12	20.20	20.21	20.23			
20	16QAM	1	49	20.11	20.07	20.09	20.11	20.12	21.5	1	
20	16QAM	1	99	20.13	20.17	20.09	20.24	20.24			
20	16QAM	50	0	19.13	19.11	19.13	19.00	19.07			
20	16QAM	50	24	19.06	19.12	19.11	19.22	19.14			
20	16QAM	50	50	19.16	19.05	19.19	19.24	19.17	20.5	2	
20	16QAM	100	0	19.22	19.15	19.06	19.25	19.00			
20	16QAM	1	0	19.11	19.11	19.06	19.20	19.21			
20	64QAM	1	49	19.15	19.25	19.22	19.15	19.18			
20	64QAM	1	99	19.13	19.04	19.08	19.23	19.05	20.5	2	
20	64QAM	50	0	18.19	18.19	18.24	18.30	18.11			
20	64QAM	50	24	18.24	18.14	18.17	18.23	18.25			
20	64QAM	50	50	18.21	18.26	18.20	18.23	18.16			
20	256QAM	100	0	18.08	18.08	18.26	18.26	18.26	19.5	3	
20	256QAM	0	0	16.07	16.14	16.29	16.09	16.23			
20	256QAM	1	49	16.29	16.07	16.09	16.07	16.27			
20	256QAM	1	99	16.23	16.32	16.21	16.17	16.14			
20	256QAM	50	0	16.25	16.29	16.06	16.26	16.21	17.5	5	
20	256QAM	50	24	16.02	16.12	16.10	16.23	16.05			
20	256QAM	50	50	16.18	16.12	16.10	16.23	16.05			
20	256QAM	100	0	16.07	16.18	16.04	16.24	16.27			
Channel				39725 <th>40173<th>40620<th>41068<th>41515<th>Tune-up limit (dbm)</th><th>MPR (db)</th></th></th></th></th>	40173 <th>40620<th>41068<th>41515<th>Tune-up limit (dbm)</th><th>MPR (db)</th></th></th></th>	40620 <th>41068<th>41515<th>Tune-up limit (dbm)</th><th>MPR (db)</th></th></th>	41068 <th>41515<th>Tune-up limit (dbm)</th><th>MPR (db)</th></th>	41515 <th>Tune-up limit (dbm)</th> <th>MPR (db)</th>	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2503.5 <th>2548.3<th>2593<th>2637.8<th>2682.5<th></th><th></th></th></th></th></th>	2548.3 <th>2593<th>2637.8<th>2682.5<th></th><th></th></th></th></th>	2593 <th>2637.8<th>2682.5<th></th><th></th></th></th>	2637.8 <th>2682.5<th></th><th></th></th>	2682.5 <th></th> <th></th>			
15	QPSK	1	0	20.85	20.93	21.24	21.00	21.07	23	0	
15	QPSK	1	37	20.85	20.90	21.16	20.97	21.02			
15	QPSK	74	0	20.81	20.87	21.16	20.94	21.03			
15	QPSK	36	0	19.86	19.92	20.17	20.06	20.09			
15	QPSK	36	20	19.87	19.96	20.17	19.94	20.05	21.5	1	
15	QPSK	36	39	19.84	19.87	20.16	19.97	20.03			
15	QPSK	75	0	19.88	19.86	20.16	19.98	20.07			
15	64QAM	1	0	20.15	20.13	20.20	20.16	20.21			
15	16QAM	1	37	20.08	20.04	20.08	20.11	20.14	21.5	1	
15	16QAM	1	74	20.12	20.13	20.06	20.05	20.20			
15	16QAM	36	0	19.10	19.08	19.13	18.97	19.05			
15	16QAM	36	20	19.03	19.08	19.13	19.22	19.11			
15	16QAM	36	39	19.12	19.02	19.15	19.22	19.13	20.5	2	
15	16QAM	36	50	19.10	19.10	19.15	19.22	19.13			
15	64QAM	1	0	19.19	19.16	19.04	19.22	19.02			
15	64QAM	1	0	19.07	19.20	19.15	19.16	19.21			
15	64QAM	1	37	19.12	19.22	19.23	19.13	19.19	20.5	2	
15	64QAM	1	74	19.09	19.01	19.07	19.19	19.06			
15	64QAM	36	0	18.16	18.20	18.22	18.29	18.10			
15	64QAM	36	20	18.25	18.12	18.13	18.23	18.25			
15	64QAM	36	39	18.21	18.25	18.20	18.23	18.16	19.5	3	
15	64QAM	75	0	18.05	18.24	18.06	18.25	18.24			
15	256QAM	1	0	16.07	16.10	16.27	16.10	16.24			
15	256QAM	1	37	16.30	16.05	16.07	16.08	16.24			
15	256QAM	1	74	16.19	16.32	16.19	16.17	16.11	17.5	5	
15	256QAM	36	0	16.23	16.30	16.26	16.28	16.22			
15	256QAM	36	20	16.02	16.14	16.08	16.24	16.04			
15	256QAM	36	39	16.15	16.12	16.07	16.23	16.26			
15	256QAM	75	0	16.04	16.16	16.03	16.25	16.26	17.5	5	
Channel				39700 <th>40160<th>40620<th>41060<th>41516<th></th></th></th></th></th>	40160 <th>40620<th>41060<th>41516<th></th></th></th></th>	40620 <th>41060<th>41516<th></th></th></th>	41060 <th>41516<th></th></th>	41516 <th></th>			
Frequency (MHz)				2500 <th>2544<th>2593<th>2637<th>2682<th></th></th></th></th></th>	2544 <th>2593<th>2637<th>2682<th></th></th></th></th>	2593 <th>2637<th>2682<th></th></th></th>	2637 <th>2682<th></th></th>	2682 <th></th>			
10	QPSK	1	0	20.87	20.91	21.24	21.00	21.07			23
10	QPSK	1	25	20.84	20.89	21.20	20.94	21.04			
10	QPSK	1	49	20.82	20.87	21.16	20.94	21.08			
10	QPSK	25	0	19.88	19.86	20.16	20.07	20.06			
10	QPSK	25	12	19.84	19.93	20.18	19.93	20.03	21.5	1	
10	QPSK	25	25	19.81	19.85	20.17	19.96	20.03			
10	QPSK	50	0	19.87	19.90	20.16	20.00	20.05			
10	16QAM	1	0	20.14	20.13	20.21	20.21	20.22			
10	16QAM	1	25	20.08	20.07	20.05	20.07	20.12	21.5	1	
10	16QAM	1	49	20.14	20.15	20.09	20.02	20.25			
10	16QAM	25	0	19.14	19.07	19.14	19.08	19.16			
10	16QAM	25	12	19.02	19.13	19.09	19.20	19.16			
10	16QAM	25	25	19.17	19.02	19.15	19.20	19.19	20.5	2	
10	16QAM	50	0	19.22	19.16	19.05	19.25	19.00			
10	64QAM	1	0	19.12	19.19	19.15	19.20	19.21			
10	64QAM	1	25	19.11	19.24	19.18	19.16	19.18			
10	64QAM	1	49	19.15	19.03	19.08	19.22	19.04	20.5	2	
10	64QAM	25	0	18.16	18.18	18.26	18.27	18.09			
10	64QAM	25	12	18.21	18.13	18.14	18.23	18.23			
10	64QAM	25	25	18.20	18.24	18.20	18.21	18.14			
10	64QAM	50	0	18.04	18.24	18.07	18.25	18.25	19.5	3	
10	64QAM	50	0	16.05	16.13	16.31	16.09	16.20			
10	256QAM	1	25	16.30	16.04	16.04	16.19	16.28			
10	256QAM	1	49	16.22	16.33	16.20	16.18	16.12			
10	256QAM	25	0	16.21	16.28	16.04	16.24	16.18	17.5	5	
10	256QAM	25	12	16.01	16.11	16.09	16.25	16.03			
10	256QAM	25	25	16.15	16.11	16.05	16.21	16.25			
10	256QAM	25	0	16.07	16.17	16.05	16.28	16.22			
Channel				39675 <th>40146<th>40620<th>41063<th>41565<th>Tune-up limit (dbm)</th><th>MPR (db)</th></th></th></th></th>	40146 <th>40620<th>41063<th>41565<th>Tune-up limit (dbm)</th><th>MPR (db)</th></th></th></th>	40620 <th>41063<th>41565<th>Tune-up limit (dbm)</th><th>MPR (db)</th></th></th>	41063 <th>41565<th>Tune-up limit (dbm)</th><th>MPR (db)</th></th>	41565 <th>Tune-up limit (dbm)</th> <th>MPR (db)</th>	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2498.5 <th>2545.8<th>2593<th>2640.30<th>2687.5<th></th><th></th></th></th></th></th>	2545.8 <th>2593<th>2640.30<th>2687.5<th></th><th></th></th></th></th>	2593 <th>2640.30<th>2687.5<th></th><th></th></th></th>	2640.30 <th>2687.5<th></th><th></th></th>	2687.5 <th></th> <th></th>			
5	QPSK	1	0	20.88	20.89	21.24	21.06	21.08	23	0	
5	QPSK	1	12	20.83	20.92	21.15	20.92	21.02			
5	QPSK	1	24	20.84	20.86	21.16	20.95	21.07			
5	QPSK	25	0	19.89	19.86	20.20	20.02	20.06			
5	QPSK	12	7	19.82	19.91	20.18	19.92	20.08	21.5	1	
5	QPSK	12	13	19.80	19.83	20.15	19.95	20.05			
5	QPSK	25	0	19.87	19.90	20.20	20.07	20.20			
5	16QAM	1	0	20.15	20.13	20.20	20.19	20.20			
5	16QAM	1	12	20.07	20.05	20.05	20.10	20.08	21.5	1	
5	16QAM	1	24	20.13	20.14	20.07	20.05	20.20			
5	16QAM	12	0	19.10	19.08	19.13	18.99	19.03			
5	16QAM	12	7	19.05	19.13	19.09	19.20	19.13			
5	16QAM	12	13	19.18	19.02	19.19	19.22	19.13	20.5	2	
5	16QAM	25	0	19.23	19.16	19.05	19.25	19.01			
5	16QAM	25	0	19.11	19.18	19.15	19.28	19.21			
5	64QAM	1	12	19.16	19.26	19.23	19.17	19.19			
5	64QAM	1	24	19.13	19.04	19.07	19.21	19.04	20.5	2	
5	64QAM	12	0	18.20	18.15	18.25	18.27	18.07			
5	64QAM	12	7	18.24	18.12	18.14	18.23	18.23			
5	64QAM	12	13	18.20	18.26	18.19	18.21	18.17			
5	256QAM	1	0	16.05	16.14	16.28	16.10	16.24	19.5	3	
5	256QAM	1	12	16.28	16.03	16.07	16.06	16.27			
5	256QAM	1	24	16.19	16.31	16.19	16.18	16.14			
5	256QAM	12	0	16.25	16.27	16.07	16.24	16.20			
5	256QAM	18	7	15.98	16.10	16.08	16.23	16.23	17.5	5	
5	256QAM	12	13	16.18	16.12	16.07	16.23	16.24			
5	256QAM	25	0	16.05	16.19	16.06	16.21	16.25			



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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				43190	43340	43490	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3560	3575	3590			
20	QPSK	1	0	18.70	18.81	18.75	20	0	
20	QPSK	1	49	18.68	18.80	18.73			
20	QPSK	1	99	18.60	18.71	18.58			
20	QPSK	50	0	18.63	18.76	18.63			
20	QPSK	50	24	18.54	18.64	18.69	20	0	
20	QPSK	50	50	18.55	18.57	18.54			
20	QPSK	100	0	18.64	18.66	18.64			
20	16QAM	1	0	18.66	18.74	18.63			
20	16QAM	1	49	18.53	18.62	18.65	20	0	
20	16QAM	1	99	18.62	18.60	18.53			
20	16QAM	50	0	18.55	18.70	18.52			
20	16QAM	50	24	18.62	18.56	18.54			
20	16QAM	50	50	18.67	18.44	18.35	20	0	
20	16QAM	100	0	18.48	18.63	18.55			
20	64QAM	1	0	18.65	18.69	18.67			
20	64QAM	1	49	18.46	18.67	18.61	20	0	
20	64QAM	1	99	18.62	18.57	18.63			
20	64QAM	50	0	18.19	18.30	18.20			
20	64QAM	50	24	18.16	18.19	18.14			
20	64QAM	50	50	18.14	18.21	18.17	20	0	
20	64QAM	100	0	18.13	18.25	18.12			
20	256QAM	1	0	18.16	18.32	18.24			
20	256QAM	1	49	18.20	18.23	18.24	19.5	0.5	
20	256QAM	1	99	18.09	18.23	18.13			
20	256QAM	50	0	18.24	18.23	18.14			
20	256QAM	50	24	18.10	18.24	18.11			
20	256QAM	50	50	18.02	18.06	18.14	19.5	0.5	
20	256QAM	100	0	18.11	18.14	18.15			
Channel				43103	43340	43315	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3557.5	3576	3592.5			
15	QPSK	1	0	18.64	18.76	18.69	20	0	
15	QPSK	1	37	18.65	18.73	18.64			
15	QPSK	1	74	18.53	18.63	18.53			
15	QPSK	36	0	18.49	18.63	18.56			
15	QPSK	36	20	18.50	18.54	18.61	20	0	
15	QPSK	36	39	18.40	18.51	18.43			
15	QPSK	75	0	18.58	18.57	18.60			
15	16QAM	1	0	18.53	18.69	18.57			
15	16QAM	1	37	18.46	18.59	18.57	20	0	
15	16QAM	1	74	18.56	18.49	18.39			
15	16QAM	36	0	18.46	18.62	18.39			
15	16QAM	36	20	18.55	18.50	18.50			
15	16QAM	36	39	18.33	18.37	18.23	20	0	
15	16QAM	75	0	18.36	18.48	18.49			
15	64QAM	1	0	18.61	18.61	18.54			
15	64QAM	1	37	18.33	18.52	18.48			
15	64QAM	1	74	18.57	18.45	18.60	20	0	
15	64QAM	36	0	18.11	18.24	18.15			
15	64QAM	36	20	18.12	18.05	18.11			
15	64QAM	36	39	18.02	18.15	18.04	20	0	
15	64QAM	75	0	18.01	18.12	18.18			
15	256QAM	1	0	18.07	18.22	18.18			
15	256QAM	1	37	18.10	18.18	18.19	19.5	0.5	
15	256QAM	1	74	18.05	18.12	18.09			
15	256QAM	36	0	18.13	18.12	18.05			
15	256QAM	36	20	18.03	18.09	18.06			
15	256QAM	36	39	17.96	17.91	18.02	19.5	0.5	
15	256QAM	75	0	18.00	18.11	18.05			
Channel				43140	43340	43840	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3555	3575	3595			
10	QPSK	1	0	18.60	18.73	18.67	20	0	
10	QPSK	1	25	18.57	18.69	18.66			
10	QPSK	1	49	18.51	18.61	18.43			
10	QPSK	25	0	18.51	18.66	18.57			
10	QPSK	25	12	18.41	18.52	18.58	20	0	
10	QPSK	25	25	18.49	18.49	18.44			
10	QPSK	50	0	18.58	18.57	18.60			
10	16QAM	1	0	18.57	18.63	18.53			
10	16QAM	1	25	18.46	18.58	18.54	20	0	
10	16QAM	1	49	18.54	18.54	18.43			
10	16QAM	25	0	18.50	18.61	18.46			
10	16QAM	25	12	18.59	18.48	18.59			
10	16QAM	25	25	18.41	18.39	18.24	20	0	
10	16QAM	50	0	18.35	18.59	18.44			
10	64QAM	1	0	18.61	18.65	18.59			
10	64QAM	1	25	18.31	18.63	18.51	20	0	
10	64QAM	1	49	18.51	18.46	18.56			
10	64QAM	25	0	18.13	18.25	18.16			
10	64QAM	25	12	18.03	18.11	18.07			
10	64QAM	25	25	18.03	18.17	18.09	20	0	
10	64QAM	50	0	18.03	18.22	18.12			
10	256QAM	1	0	18.02	18.21	18.11			
10	256QAM	1	25	18.09	18.18	18.15	19.5	0.5	
10	256QAM	1	49	18.04	18.19	18.08			
10	256QAM	25	0	18.16	18.17	18.07			
10	256QAM	25	12	17.98	18.09	18.02			
10	256QAM	25	25	17.94	17.91	18.02	19.5	0.5	
10	256QAM	50	0	18.01	18.04	18.12			
Channel				43115	43340	43665	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3522.5	3576	3592.5			
5	QPSK	1	0	18.59	18.67	18.67	20	0	
5	QPSK	1	12	18.54	18.73	18.66			
5	QPSK	1	24	18.49	18.63	18.49			
5	QPSK	12	0	18.60	18.72	18.49			
5	QPSK	12	7	18.45	18.51	18.56	20	0	
5	QPSK	12	13	18.48	18.52	18.49			
5	QPSK	25	0	18.56	18.55	18.56			
5	16QAM	1	0	18.58	18.62	18.54			
5	16QAM	1	12	18.46	18.51	18.59	20	0	
5	16QAM	1	24	18.51	18.45	18.41			
5	16QAM	12	0	18.48	18.62	18.48			
5	16QAM	12	7	18.48	18.43	18.51			
5	16QAM	12	13	18.37	18.32	18.29	20	0	
5	16QAM	25	0	18.39	18.56	18.45			
5	64QAM	1	0	18.57	18.63	18.60			
5	64QAM	1	12	18.35	18.60	18.52	20	0	
5	64QAM	1	24	18.51	18.44	18.60			
5	64QAM	12	0	18.14	18.24	18.06			
5	64QAM	12	7	18.10	18.09	18.10			
5	64QAM	12	13	18.05	18.06	18.14	20	0	
5	64QAM	25	0	18.10	18.21	18.20			
5	256QAM	1	0	18.03	18.28	18.15			
5	256QAM	1	12	18.12	18.08	18.14	19.5	0.5	
5	256QAM	1	24	18.01	18.14	18.04			
5	256QAM	12	0	18.20	18.11	18.09			
5	256QAM	12	7	18.01	18.18	18.07			
5	256QAM	12	13	17.90	18.02	18.00	19.5	0.5	
5	256QAM	25	0	17.97	18.09	18.10			

Band 42 FCC Part27Q Ant 8									
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 Frequency (MHz)				42190	42590	42990	Tune-up limit (dBm)	MPR (dB)	
				3460	3500	3540			
20	QPSK	1	0	18.80	18.85	18.82	20	0	
20	QPSK	1	49	18.71	18.81	18.76			
20	QPSK	1	99	18.70	18.73	18.70			
20	QPSK	50	0	18.74	18.78	18.79	20	0	
20	QPSK	50	24	18.66	18.72	18.73			
20	QPSK	50	50	18.59	18.60	18.59			
20	QPSK	100	0	18.70	18.75	18.71	20	0	
20	16QAM	1	0	18.67	18.75	18.69			
20	16QAM	1	49	18.56	18.73	18.67			
20	16QAM	1	99	18.63	18.64	18.56			
20	16QAM	50	0	18.60	18.74	18.60	20	0	
20	16QAM	50	24	18.63	18.64	18.64			
20	16QAM	50	50	18.56	18.54	18.46			
20	16QAM	100	0	18.56	18.68	18.68	20	0	
20	64QAM	1	0	18.74	18.72	18.67			
20	64QAM	1	49	18.56	18.77	18.62			
20	64QAM	1	99	18.65	18.68	18.64			
20	64QAM	50	0	18.26	18.38	18.31	20	0	
20	64QAM	50	24	18.21	18.28	18.23			
20	64QAM	50	50	18.25	18.27	18.24			
20	64QAM	100	0	18.23	18.27	18.14	19.5	0.5	
20	256QAM	1	0	18.24	18.39	18.31			
20	256QAM	1	49	18.24	18.29	18.26		19.5	0.5
20	256QAM	1	99	18.18	18.24	18.21			
20	256QAM	50	0	18.26	18.24	18.14	19.5		0.5
20	256QAM	50	24	18.11	18.26	18.23			
20	256QAM	50	50	18.04	18.13	18.14			
20	256QAM	100	0	18.20	18.23	18.21			
Channel Frequency (MHz)				42165 <th>42590<th>43015</th></th>	42590 <th>43015</th>	43015			
				3547.5 <th>3500<th>3542.5</th></th>	3500 <th>3542.5</th>	3542.5			
15	QPSK	1	0	18.73	18.79	18.67	20	0	
15	QPSK	1	37	18.57	18.65	18.67			
15	QPSK	1	74	18.62	18.70	18.67			
15	QPSK	36	0	18.67	18.65	18.55	20	0	
15	QPSK	36	20	18.58	18.57	18.65			
15	QPSK	36	39	18.45	18.45	18.47			
15	QPSK	75	0	18.58	18.63	18.54	20	0	
15	16QAM	1	0	18.57	18.63	18.63			
15	16QAM	1	37	18.48	18.68	18.59			
15	16QAM	1	74	18.56	18.51	18.60	20	0	
15	16QAM	36	0	18.49	18.64	18.53			
15	16QAM	36	20	18.48	18.55	18.55			
15	16QAM	36	39	18.52	18.39	18.54	20	0	
15	16QAM	75	0	18.43	18.57	18.53			
15	64QAM	1	0	18.61	18.60	18.61		20	0
15	64QAM	1	37	18.44	18.71	18.56			
15	64QAM	1	74	18.55	18.54	18.56			
15	64QAM	36	0	18.20	18.34	18.19	20	0	
15	64QAM	36	20	18.18	18.18	18.17			
15	64QAM	36	39	18.20	18.21	18.11			
15	64QAM	75	0	18.15	18.16	18.02	19.5	0.5	
15	256QAM	1	0	18.19	18.32	18.24			
15	256QAM	1	37	18.21	18.15	18.15			
15	256QAM	1	74	18.13	18.13	18.07	19.5	0.5	
15	256QAM	36	0	18.13	18.15	18.08			
15	256QAM	36	20	18.01	18.19	18.19		19.5	0.5
15	256QAM	36	39	17.94	18.03	18.00			
15	256QAM	75	0	18.12	18.11	18.13			
Channel Frequency (MHz)				42140	42590	43040			
				3465	3500	3545			
10	QPSK	1	0	18.76	18.78	18.78	20	0	
10	QPSK	1	25	18.68	18.72	18.65			
10	QPSK	1	49	18.60	18.67	18.58			
10	QPSK	25	0	18.64	18.75	18.56	20	0	
10	QPSK	25	12	18.58	18.60	18.57			
10	QPSK	25	25	18.56	18.47	18.45			
10	QPSK	50	0	18.59	18.61	18.57	20	0	
10	16QAM	1	0	18.56	18.67	18.62			
10	16QAM	1	25	18.44	18.63	18.60			
10	16QAM	1	49	18.62	18.52	18.59	20	0	
10	16QAM	25	0	18.61	18.64	18.54			
10	16QAM	25	12	18.54	18.52	18.53			
10	16QAM	25	25	18.50	18.46	18.34	20	0	
10	16QAM	50	0	18.50	18.61	18.52			
10	64QAM	1	0	18.66	18.61	18.61		20	0
10	64QAM	1	25	18.49	18.62	18.55			
10	64QAM	1	49	18.55	18.60	18.54			
10	64QAM	25	0	18.16	18.31	18.19	20	0	
10	64QAM	25	12	18.15	18.23	18.11			
10	64QAM	25	25	18.17	18.16	18.17			
10	64QAM	50	0	18.18	18.16	18.06	19.5	0.5	
10	256QAM	1	0	18.12	18.27	18.14			
10	256QAM	1	25	18.20	18.24	18.19		19.5	0.5
10	256QAM	1	49	18.05	18.11	18.14			
10	256QAM	25	0	18.17	18.11	18.10	19.5		0.5
10	256QAM	25	12	17.96	18.19	18.17			
10	256QAM	25	25	17.95	18.03	18.02			
10	256QAM	50	0	18.06	18.10	18.14			
Channel Frequency (MHz)				42115 <th>42590<th>43065</th></th>	42590 <th>43065</th>	43065			
				3452.5 <th>3500<th>3547.5</th></th>	3500 <th>3547.5</th>	3547.5			
5	QPSK	1	0	18.73	18.71	18.69	20	0	
5	QPSK	1	12	18.61	18.69	18.65			
5	QPSK	1	24	18.56	18.67	18.57			
5	QPSK	12	0	18.71	18.67	18.64	20	0	
5	QPSK	12	7	18.53	18.63	18.69			
5	QPSK	12	13	18.51	18.50	18.54			
5	QPSK	25	0	18.58	18.70	18.61	20	0	
5	16QAM	1	0	18.62	18.61	18.61			
5	16QAM	1	12	18.44	18.68	18.58			
5	16QAM	1	24	18.60	18.53	18.52	20	0	
5	16QAM	12	0	18.49	18.70	18.55			
5	16QAM	12	7	18.48	18.53	18.53			
5	16QAM	12	13	18.44	18.46	18.45			
5	16QAM	25	0	18.42	18.64	18.54	20	0	
5	64QAM	1	0	18.59	18.59	18.62			
5	64QAM	1	12	18.51	18.68	18.56		20	0
5	64QAM	1	24	18.53	18.58	18.52			
5	64QAM	12	0	18.17	18.29	18.28	20		0
5	64QAM	12	7	18.16	18.24	18.17			
5	64QAM	12	13	18.20	18.27	18.19		19.5	0.5
5	256QAM	1	0	18.13	18.21	18.01			
5	256QAM	1	0	18.15	18.34	18.18	19.5		0.5
5	256QAM	1	12	18.13	18.24	18.16			
5	256QAM	1	24	18.07	18.10	18.08		19.5	0.5
5	256QAM	12	0	18.16	18.18	18.06			
5	256QAM	12	7	18.00	18.10	18.18			
5	256QAM	12	13	17.91	18.03	18.04			
5	256QAM	25	0	18.12	18.19	18.17			

Band 43 Ant 8														
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				44190	44590	44990								
Frequency (MHz)				3610	3650	3690								
20	QPSK	1	0	18.86	18.91	18.79	20	0						
20	QPSK	1	49	18.74	18.86	18.77								
20	QPSK	1	99	18.67	18.76	18.71								
20	QPSK	50	0	18.79	18.90	18.67	20	0						
20	QPSK	50	24	18.76	18.88	18.73								
20	QPSK	50	50	18.71	18.77	18.63								
20	QPSK	100	0	18.72	18.88	18.82	20	0						
20	16QAM	1	0	18.68	18.85	18.67								
20	16QAM	1	49	18.68	18.68	18.60								
20	16QAM	1	99	18.68	18.66	18.59	20	0						
20	16QAM	50	0	18.70	18.84	18.64								
20	16QAM	50	24	18.64	18.79	18.73								
20	16QAM	50	50	18.63	18.66	18.62	20	0						
20	16QAM	100	0	18.58	18.74	18.77								
20	64QAM	1	0	18.67	18.79	18.78					20	0		
20	64QAM	1	49	18.64	18.68	18.66								
20	64QAM	1	99	18.60	18.58	18.54								
20	64QAM	50	0	18.31	18.44	18.33	20	0						
20	64QAM	50	24	18.24	18.30	18.29								
20	64QAM	50	50	18.21	18.29	18.15								
20	64QAM	100	0	18.25	18.38	18.28	20	0						
20	256QAM	1	0	18.22	18.41	18.23								
20	256QAM	1	49	18.28	18.35	18.26					19.5	0.5		
20	256QAM	1	99	18.27	18.24	18.33								
20	256QAM	50	0	18.36	18.33	18.23	19.5	0.5						
20	256QAM	50	24	18.18	18.27	18.23								
20	256QAM	50	50	18.19	18.23	18.14								
20	256QAM	100	0	18.27	18.32	18.27	19.5	0.5						
Channel				44165	44590	45015								
Frequency (MHz)				3607.5	3650	3692.5								
15	QPSK	1	0	18.71	18.86	18.74	20	0						
15	QPSK	1	37	18.61	18.83	18.65								
15	QPSK	1	74	18.57	18.70	18.59								
15	QPSK	36	0	18.75	18.81	18.59	20	0						
15	QPSK	36	20	18.62	18.68	18.57								
15	QPSK	36	39	18.57	18.65	18.50								
15	QPSK	75	0	18.68	18.83	18.74	20	0						
15	16QAM	1	0	18.65	18.81	18.62								
15	16QAM	1	37	18.62	18.56	18.57								
15	16QAM	1	74	18.63	18.55	18.54	20	0						
15	16QAM	36	0	18.62	18.70	18.49								
15	16QAM	36	20	18.51	18.72	18.64								
15	16QAM	36	39	18.51	18.58	18.53	20	0						
15	16QAM	75	0	18.48	18.67	18.73								
15	64QAM	1	0	18.62	18.75	18.69					20	0		
15	64QAM	1	37	18.59	18.64	18.55								
15	64QAM	1	74	18.48	18.43	18.47								
15	64QAM	36	0	18.25	18.40	18.24	20	0						
15	64QAM	36	20	18.15	18.16	18.21								
15	64QAM	36	39	18.07	18.26	18.02								
15	64QAM	75	0	18.21	18.24	18.23	19.5	0.5						
15	256QAM	1	0	18.10	18.27	18.10								
15	256QAM	1	37	18.18	18.20	18.13								
15	256QAM	1	74	18.15	18.10	18.19	19.5	0.5						
15	256QAM	36	0	18.32	18.19	18.11								
15	256QAM	36	20	18.15	18.22	18.18								
15	256QAM	36	39	18.07	18.17	18.08	19.5	0.5						
15	256QAM	75	0	18.22	18.20	18.21								
Channel				44140	44590	45040								
Frequency (MHz)				3605	3650	3695								
10	QPSK	1	0	18.73	18.79	18.75	20	0						
10	QPSK	1	25	18.61	18.80	18.73								
10	QPSK	1	49	18.55	18.68	18.65								
10	QPSK	25	0	18.72	18.83	18.60	20	0						
10	QPSK	25	12	18.61	18.70	18.66								
10	QPSK	25	25	18.58	18.67	18.58								
10	QPSK	50	0	18.67	18.80	18.79	20	0						
10	16QAM	1	0	18.59	18.73	18.53								
10	16QAM	1	25	18.53	18.59	18.46								
10	16QAM	1	49	18.61	18.54	18.45	20	0						
10	16QAM	25	0	18.59	18.73	18.52								
10	16QAM	25	12	18.59	18.70	18.63								
10	16QAM	25	25	18.51	18.57	18.57	20	0						
10	16QAM	50	0	18.45	18.61	18.66								
10	64QAM	1	0	18.52	18.65	18.69					20	0		
10	64QAM	1	25	18.59	18.63	18.60								
10	64QAM	1	49	18.48	18.47	18.39								
10	64QAM	25	0	18.27	18.33	18.26	20	0						
10	64QAM	25	12	18.17	18.16	18.17								
10	64QAM	25	25	18.11	18.14	18.03								
10	64QAM	50	0	18.17	18.32	18.23	19.5	0.5						
10	256QAM	1	0	18.09	18.34	18.14								
10	256QAM	1	25	18.24	18.28	18.23								
10	256QAM	1	49	18.19	18.12	18.29	19.5	0.5						
10	256QAM	25	0	18.29	18.21	18.08								
10	256QAM	25	12	18.03	18.12	18.20								
10	256QAM	25	25	18.06	18.11	18.11	19.5	0.5						
10	256QAM	50	0	18.20	18.20	18.19								
Channel				44115	44590	45095								
Frequency (MHz)				3602.5	3650	3697.5								
5	QPSK	1	0	18.79	18.87	18.73	20	0						
5	QPSK	1	12	18.62	18.81	18.64								
5	QPSK	1	24	18.60	18.73	18.58								
5	QPSK	12	0	18.72	18.79	18.67	20	0						
5	QPSK	12	7	18.67	18.71	18.68								
5	QPSK	12	13	18.62	18.71	18.59								
5	QPSK	25	0	18.69	18.83	18.75	20	0						
5	16QAM	1	0	18.58	18.81	18.54								
5	16QAM	1	12	18.53	18.65	18.50								
5	16QAM	1	24	18.57	18.61	18.45	20	0						
5	16QAM	12	0	18.60	18.70	18.55								
5	16QAM	12	7	18.54	18.75	18.70								
5	16QAM	12	13	18.51	18.56	18.58	20	0						
5	16QAM	25	0	18.54	18.69	18.63								
5	64QAM	1	0	18.58	18.72	18.70					20	0		
5	64QAM	1	12	18.59	18.56	18.59								
5	64QAM	1	24	18.54	18.47	18.50								
5	64QAM	12	0	18.17	18.37	18.29	20	0						
5	64QAM	12	7	18.13	18.20	18.24								
5	64QAM	12	13	18.12	18.19	18.04								
5	64QAM	25	0	18.21	18.23	18.19	20	0						
5	256QAM	1	0	18.16	18.32	18.16								
5	256QAM	1	12	18.19	18.27	18.20								
5	256QAM	1	24	18.15	18.15	18.26	19.5	0.5						
5	256QAM	12	0	18.26	18.27	18.12								
5	256QAM	12	7	18.10	18.18	18.10								
5	256QAM	12	13	18.11	18.09	18.07	19.5	0.5						
5	256QAM	25	0	18.21	18.23	18.13								

Reduced Power Mode for DS15

GSM850 Ant 0		Burst Average Power (dBm)			Tune-up		Frame Average Power (dBm)			Tune-up	
TX Channel		128	188	251	Limit		128	188	251	Limit	
Frequency (MHz)		824.2	836.4	848.8	(dBm)		824.2	836.4	848.8	(dBm)	
GSM 1 Tx slot		31.26	31.56	31.54	32.50		22.26	22.56	22.54	23.50	
GPRS 1 Tx slot		31.19	31.64	31.62	32.50		22.19	22.64	22.62	23.50	
GPRS 2 Tx slots		28.02	28.16	28.32	28.00		22.02	22.16	22.32	23.00	
GPRS 3 Tx slots		26.62	26.42	26.46	27.50		22.36	22.16	22.20	23.24	
GPRS 4 Tx slots		25.03	25.19	25.36	26.00		22.03	22.19	22.36	23.00	
EDGE 1 Tx slot		25.38	25.51	25.32	26.00		16.38	16.31	16.32	17.00	
EDGE 2 Tx slots		22.78	22.72	22.73	23.50		16.78	16.72	16.73	17.50	
EDGE 3 Tx slots		20.76	20.77	20.83	22.00		16.49	16.51	16.67	17.74	
EDGE 4 Tx slots		19.09	18.93	18.16	20.00		16.09	15.93	16.16	17.00	

GSM1900 Ant 0		Burst Average Power (dBm)			Tune-up		Frame Average Power (dBm)			Tune-up	
TX Channel		512	681	810	Limit		512	681	810	Limit	
Frequency (MHz)		1852.2	1860	1869.8	(dBm)		1852.2	1860	1869.8	(dBm)	
GSM 1 Tx slot		29.11	29.28	29.16	30.50		20.11	20.26	20.16	21.50	
GPRS 1 Tx slot		28.88	29.28	29.27	30.50		19.88	20.28	20.27	21.50	
GPRS 2 Tx slots		26.31	26.61	26.61	27.50		20.31	20.61	20.61	21.50	
GPRS 3 Tx slots		24.42	24.54	24.50	26.00		20.16	20.28	20.24	21.74	
GPRS 4 Tx slots		22.27	22.37	22.48	23.50		19.27	19.37	19.48	20.50	
EDGE 1 Tx slot		24.91	25.07	25.02	26.50		16.91	16.07	16.02	17.50	
EDGE 2 Tx slots		22.47	22.67	22.53	24.00		16.47	16.67	16.53	18.00	
EDGE 3 Tx slots		20.34	20.71	20.71	22.00		16.08	16.45	16.45	17.74	
EDGE 4 Tx slots		18.68	18.07	18.93	20.50		15.66	16.07	15.93	17.50	

Band		WCDMA S Ant 0			Tune-up		WCDMA N Ant 0			Tune-up		WCDMA V Ant 0			Tune-up	
TX Channel		9262	9400	9538	Limit		1312	1413	1513	Limit		4132	4182	4233	Limit	
Rx Channel		9662	9800	9938	(dBm)		1537	1638	1738	(dBm)		4367	4407	4458	(dBm)	
Frequency (MHz)		1852.4	1860	1869.8	(dBm)		1412.4	1422.8	1432.8	(dBm)		824.4	836.4	848.8	(dBm)	
3GPP Rel 99		22.60	22.89	22.77	24.00		22.63	22.66	22.40	24.00		22.94	22.98	22.97	24.00	
3GPP Rel 99		22.80	23.00	22.83	24.00		22.65	22.76	22.60	24.00		23.05	23.09	23.00	24.00	
3GPP Rel 6		21.72	22.10	21.87	23.00		21.76	21.85	21.69	23.00		22.04	22.11	21.85	23.00	
3GPP Rel 6		21.81	21.98	21.89	23.00		21.58	21.81	21.48	23.00		22.15	21.99	22.03	23.00	
3GPP Rel 6		21.41	21.62	21.41	22.50		20.98	21.27	20.93	22.50		21.49	21.48	21.42	22.50	
3GPP Rel 6		21.29	21.49	21.21	22.50		21.19	21.20	20.94	22.50		21.59	21.46	21.65	22.50	
3GPP Rel 6		21.66	21.85	21.81	23.00		21.43	21.66	21.29	23.00		22.05	22.12	21.94	23.00	
3GPP Rel 6		20.75	20.92	20.73	21.00		19.66	19.79	19.47	21.00		19.96	19.96	20.03	21.00	
3GPP Rel 6		20.62	21.03	20.96	22.00		20.59	20.66	20.38	22.00		20.90	21.22	20.89	22.00	
3GPP Rel 6		19.71	19.95	19.94	21.00		19.66	19.86	19.55	21.00		20.13	20.07	19.85	21.00	
3GPP Rel 6		21.69	22.01	21.88	23.00		21.36	21.74	21.34	23.00		21.89	21.92	22.13	23.00	
3GPP Rel 7		19.38	19.71	19.58	20.50		19.06	19.44	19.04	20.50		19.59	19.62	19.83	20.50	

Band 2 Ant 0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	APR3 (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.31	22.41	22.29			24	0		
20	QPSK	1	49	22.37	22.47	22.35						
20	QPSK	1	99	22.34	22.39	22.38						
20	QPSK	50	0	21.29	21.44	21.33						
20	QPSK	50	24	21.34	21.29	21.38			23	1		
20	QPSK	50	50	21.37	21.41	21.32						
20	QPSK	100	0	21.32	21.35	21.28						
20	16QAM	50	0	21.29	21.38	21.29						
20	16QAM	1	49	21.36	21.32	21.34			23	1		
20	16QAM	1	99	21.32	21.36	21.35						
20	16QAM	50	0	20.37	20.37	20.36						
20	16QAM	50	24	20.29	20.39	20.36						
20	16QAM	50	50	20.36	20.28	20.34			22	2		
20	16QAM	100	0	20.37	20.36	20.32						
20	64QAM	1	0	20.37	20.27	20.33						
20	64QAM	1	49	20.32	20.28	20.34						
20	64QAM	1	99	20.37	20.37	20.36			21	3		
20	64QAM	50	0	19.39	19.29	19.39						
20	64QAM	50	24	19.33	19.27	19.32						
20	64QAM	50	50	19.28	19.33	19.31						
20	64QAM	100	0	19.34	19.36	19.30			19	5		
20	256QAM	1	49	18.40	18.35	18.40						
20	256QAM	1	99	18.39	18.33	18.38						
20	256QAM	50	0	18.37	18.34	18.36						
20	256QAM	50	24	18.36	18.41	18.30			19	5		
20	256QAM	50	50	18.31	18.29	18.31						
20	256QAM	100	0	18.35	18.30	18.35						
Channel												
Frequency (MHz)												
18	QPSK	1	37	22.17	22.34	22.22			24	0		
18	QPSK	1	37	22.30	22.30	22.30						
18	QPSK	1	74	22.21	22.27	22.24						
18	QPSK	36	3	21.25	21.31	21.25						
18	QPSK	36	37	21.27	21.24	21.31			23	1		
18	QPSK	36	39	21.23	21.33	21.22						
18	QPSK	75	0	21.21	21.24	21.23						
18	16QAM	1	74	21.25	21.35	21.30						
18	16QAM	1	37	21.22	21.19	21.25			23	1		
18	16QAM	1	74	21.24	21.26	21.26						
18	16QAM	36	0	20.19	20.28	20.31						
18	16QAM	36	20	20.23	20.25	20.27						
18	16QAM	36	20	20.23	20.25	20.27			22	2		
18	16QAM	75	0	20.32	20.28	20.26						
18	64QAM	1	0	20.25	20.14	20.20						
18	64QAM	1	37	20.32	20.15	20.24						
18	64QAM	1	74	20.22	20.27	20.30			21	3		
18	64QAM	36	0	19.35	19.14	19.25						
18	64QAM	36	20	19.34	19.17	19.26						
18	64QAM	36	39	19.25	19.25	19.25						
18	64QAM	75	0	19.26	19.30	19.18			19	5		
18	256QAM	1	0	18.35	18.30	18.34						
18	256QAM	1	37	18.34	18.31	18.31						
18	256QAM	1	74	18.31	18.25	18.31						
18	256QAM	36	0	18.35	18.30	18.30			19	5		
18	256QAM	36	20	18.27	18.35	18.22						
18	256QAM	36	39	18.28	18.18	18.25						
18	256QAM	75	0	18.25	18.30	18.28						
Channel												
Frequency (MHz)												
18	QPSK	1	0	22.31	22.38	22.30			24	0		
18	QPSK	1	25	22.31	22.28	22.24						
18	QPSK	1	49	22.24	22.25	22.23						
18	QPSK	36	0	21.29	21.36	21.27						
18	QPSK	25	12	21.24	21.22	21.28			23	1		
18	QPSK	25	25	21.30	21.31	21.28						
18	QPSK	36	19	21.28	21.29	21.29						
18	16QAM	1	0	21.17	21.31	21.34						
18	16QAM	1	26	21.32	21.22	21.20			23	1		
18	16QAM	1	49	21.34	21.29	21.30						
18	16QAM	25	0	20.24	20.24	20.20						
18	16QAM	25	12	20.22	20.30	20.31						
18	16QAM	36	0	20.33	20.23	20.23			22	2		
18	16QAM	50	0	20.31	20.33	20.27						
18	64QAM	1	0	20.23	20.15	20.20						
18	64QAM	1	24	20.27	20.15	20.20						
18	64QAM	1	49	20.33	20.25	20.30			21	3		
18	64QAM	25	0	19.25	19.26	19.30						
18	64QAM	25	12	19.22	19.26	19.24						
18	64QAM	25	25	19.18	19.27	19.20						
18	64QAM	50	0	19.21	19.26	19.20			19	5		
18	256QAM	1	49	18.21	18.24	18.31						
18	256QAM	1	26	18.31	18.23	18.36						
18	256QAM	1	49	18.30	18.30	18.28						
18	256QAM	25	0	18.15	18.27	18.25			19	5		
18	256QAM	25	12	18.23	18.36	18.26						
18	256QAM	25	25	18.19	18.24	18.26						
18	256QAM	50	0	18.28	18.27	18.27						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.31	22.38	22.30			24	0		
5	QPSK	1	12	22.33	22.24	22.14						
5	QPSK	1	24	22.24	22.32	22.14						
5	QPSK	12	0	21.15	21.32	21.30						
5	QPSK	12	7	21.22	21.21	21.34			23	1		
5	QPSK	12	13	21.30	21.26	21.27						
5	QPSK	20	0	21.18	21.24	21.31						
5	16QAM	1	0	21.25	21.29	21.36						
5	16QAM	1	12	21.22	21.19	21.23			23	1		
5	16QAM	1	24	21.24	21.26	21.23						
5	16QAM	12	0	20.24	20.26	20.23						
5	16QAM	12	7	20.21	20.33	20.25						
5	16QAM	12	13	20.28	20.27	20.25			22	2		
5	16QAM	25	0	20.30	20.27	20.24						
5	64QAM	1	0	20.25	20.14	20.21						
5	64QAM	1	12	20.25	20.17	20.25						
5	64QAM	1	24	20.33	20.26	20.25			21	3		
5	64QAM	12	0	19.32	19.23	19.35						
5	64QAM	12	7	19.20	19.13	19.24						
5	64QAM	12	13	19.25	19.29	19.24						
5	64QAM	20	0	19.26	19.22	19.32			19	5		
5	256QAM	1	0	18.20	18.30	18.28						
5	256QAM	1	12	18.37	18.32	18.34						
5	256QAM	1	24	18.33	18.21	18.32						
5	256QAM	12	0	18.13	18.26	18.27			19	5		
5	256QAM	12	7	18.24	18.30	18.25						
5	256QAM	12	13	18.21	18.24	18.32						
5	256QAM	20	0	18.26	18.30	18.34						
Channel												
Frequency (MHz)												
3	QPSK	1	0	22.17	22.37	22.25			24	0		
3	QPSK	1	8	22.29	22.24	22.02						
3	QPSK	1	14	22.24	22.25	22.16						
3	QPSK	8	0	21.14	21.33	21.32						
3	QPSK	8	4	21.24	21.23	21.35			23	1		
3	QPSK	8	7	21.25	21.36	21.25						
3	QPSK	15	0	21.22	21.27	21.25						
3	16QAM	1	0	21.14	21.25	21.28						
3	16QAM	1	8	21.23	21.22	21.23			23	1		
3	16QAM	1	14	21.20	21.24	21.23						
3	16QAM	8	0	20.16	20.31	20						

Band 12 Ant 0														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (s)	APR (dB)						
Channel														
Frequency (MHz)														
10	QPSK	1	0	22.49	22.57	22.48	24	0						
10	QPSK	1	24	22.48	22.51	22.25								
10	QPSK	1	48	22.54	22.49	22.43								
10	QPSK	25	0	21.30	21.50	21.45								
10	QPSK	25	12	21.48	21.48	21.35	23	1						
10	QPSK	25	25	21.39	21.30	21.49								
10	QPSK	50	0	21.36	21.44	21.30								
10	16QAM	1	0	21.54	21.45	21.38								
10	16QAM	1	24	21.65	21.63	21.39	23	1						
10	16QAM	1	48	21.53	21.57	21.69								
10	16QAM	25	0	20.48	20.51	20.43								
10	16QAM	25	12	20.40	20.45	20.34								
10	16QAM	25	25	20.39	20.38	20.42	22	2						
10	16QAM	50	0	20.41	20.53	20.31								
10	64QAM	1	0	20.34	20.50	20.42								
10	64QAM	1	24	20.59	20.36	20.38								
10	64QAM	1	48	20.34	20.51	20.30	21	3						
10	64QAM	25	0	19.46	19.49	19.37								
10	64QAM	25	12	19.42	19.28	19.43								
10	64QAM	25	25	19.43	19.45	19.33								
10	64QAM	50	0	19.45	19.56	19.32	19	5						
10	256QAM	1	0	17.47	17.50	17.32								
10	256QAM	1	25	17.60	17.57	17.51								
10	256QAM	1	48	17.49	17.42	17.57								
10	256QAM	25	0	17.48	17.49	17.38								
10	256QAM	25	12	17.53	17.59	17.51								
10	256QAM	25	25	17.66	17.57	17.61								
10	256QAM	50	0	17.60	17.65	17.32	Unk-up time (s)	APR (dB)						
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.41	22.45	22.38			24	0				
5	QPSK	1	12	22.37	22.38	22.18								
5	QPSK	1	24	22.41	22.38	22.28								
5	QPSK	12	0	21.15	21.35	21.37								
5	QPSK	12	7	21.33	21.36	21.27	23	1						
5	QPSK	12	13	21.32	21.19	21.34								
5	QPSK	25	0	21.22	21.31	21.18								
5	16QAM	1	0	21.43	21.31	21.33								
5	16QAM	1	12	21.54	21.54	21.51	23	1						
5	16QAM	1	24	21.47	21.50	21.61								
5	16QAM	12	0	20.39	20.41	20.31								
5	16QAM	12	7	20.31	20.36	20.45								
5	16QAM	12	13	20.34	20.32	20.32	22	2						
5	16QAM	25	0	20.29	20.42	20.45								
5	64QAM	1	0	20.25	20.37	20.30								
5	64QAM	1	12	20.34	20.30	20.32								
5	64QAM	1	24	20.26	20.41	20.31	21	3						
5	64QAM	12	0	19.36	19.42	19.29								
5	64QAM	12	13	19.37	19.35	19.28								
5	64QAM	12	13	19.33	19.35	19.44								
5	64QAM	25	0	19.40	19.43	19.39	19	5						
5	256QAM	1	0	17.36	17.47	17.34								
5	256QAM	1	12	17.49	17.47	17.51								
5	256QAM	1	24	17.40	17.31	17.47								
5	256QAM	12	0	17.36	17.45	17.34	19	5						
5	256QAM	12	7	17.43	17.52	17.49								
5	256QAM	12	13	17.45	17.47	17.51								
5	256QAM	25	0	17.46	17.50	17.50								
Channel														
Frequency (MHz)														
3	QPSK	1	0	22.42	22.41	22.39	24	0						
3	QPSK	1	3	22.39	22.42	22.39								
3	QPSK	1	5	22.42	22.36	22.29								
3	QPSK	3	0	22.42	22.44	22.40								
3	QPSK	3	1	22.36	22.40	22.17	23	1						
3	QPSK	3	3	22.38	22.36	22.33								
3	QPSK	6	0	21.24	21.29	21.20								
3	16QAM	1	0	21.49	21.37	21.37								
3	16QAM	1	3	21.56	21.51	21.51	23	1						
3	16QAM	1	6	21.45	21.51	21.59								
3	16QAM	3	0	20.39	20.43	20.31								
3	16QAM	3	1	20.34	20.43	20.39								
3	16QAM	3	3	20.35	20.30	20.35	22	2						
3	16QAM	6	0	20.27	20.45	20.45								
3	64QAM	1	0	20.25	20.38	20.30								
3	64QAM	1	3	20.48	20.24	20.21								
3	64QAM	1	5	20.26	20.45	20.23	22	2						
3	64QAM	3	0	20.25	20.39	20.30								
3	64QAM	3	1	20.32	20.38	20.27								
3	64QAM	3	3	19.32	19.22	19.26								
3	256QAM	1	7	19.31	19.33	19.46	21	3						
3	256QAM	1	9	19.32	19.42	19.38								
3	256QAM	1	0	17.38	17.41	17.64								
3	256QAM	1	8	17.51	17.49	17.53								
3	256QAM	1	2	17.49	17.49	17.55	19	5						
3	256QAM	1	0	17.52	17.34	17.35								
3	256QAM	3	4	17.46	17.50	17.46								
3	256QAM	3	5	17.44	17.50	17.48								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	22.38	22.43	22.39	24	0						
1.4	QPSK	1	3	22.41	22.41	22.17								
1.4	QPSK	1	5	22.43	22.38	22.29								
1.4	QPSK	3	0	22.42	22.44	22.40								
1.4	QPSK	3	1	22.36	22.40	22.17	23	1						
1.4	QPSK	3	3	22.38	22.36	22.33								
1.4	QPSK	6	0	21.24	21.29	21.20								
1.4	16QAM	1	0	21.44	21.36	21.05								
1.4	16QAM	1	3	21.08	21.54	21.51	23	1						
1.4	16QAM	1	6	21.42	21.51	21.59								
1.4	16QAM	3	0	21.17	21.35	21.35								
1.4	16QAM	3	1	21.36	21.36	21.27								
1.4	16QAM	6	0	20.31	20.44	20.44	22	2						
1.4	64QAM	1	0	20.27	20.39	20.38								
1.4	64QAM	1	3	20.44	20.39	20.39								
1.4	64QAM	1	5	20.23	20.42	20.29								
1.4	64QAM	3	0	20.36	20.41	20.32	21	3						
1.4	64QAM	3	1	20.31	20.34	20.43								
1.4	64QAM	3	3	20.34	20.30	20.36								
1.4	64QAM	6	0	19.40	19.45	19.36								
1.4	256QAM	1	0	17.34	17.50	17.40	19	5						
1.4	256QAM	1	3	17.52	17.49	17.49								
1.4	256QAM	1	5	17.38	17.27	17.45								
1.4	256QAM	3	0	17.50	17.50	17.61								
1.4	256QAM	3	1	17.42	17.53	17.46	19	5						
1.4	256QAM	3	3	17.34	17.44	17.52								
1.4	256QAM	6	0	17.47	17.46	17.51								

Band 17 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Mid Ch./ Freq.	Power High Ch./ Freq.	Turn-up time (s)	APR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.39	22.36	22.44	24	0		
10	QPSK	1	25	22.43	22.42	22.21				
10	QPSK	1	48	22.53	22.38	22.38				
10	QPSK	25	0	21.23	21.50	21.42				
10	QPSK	25	12	21.41	21.38	21.32	23	1		
10	QPSK	25	25	21.39	21.24	21.49				
10	QPSK	50	0	21.27	21.34	21.21				
10	16QAM	1	0	21.55	21.34	21.62				
10	16QAM	1	25	21.58	21.56	21.54	23	1		
10	16QAM	1	48	21.48	21.47	21.69				
10	16QAM	25	0	20.40	20.49	20.33				
10	16QAM	25	12	20.32	20.45	20.46				
10	16QAM	25	25	20.39	20.33	20.46	22	2		
10	16QAM	50	0	20.37	20.45	20.35				
10	64QAM	1	0	20.30	20.43	20.35				
10	64QAM	1	25	20.53	20.39	20.29				
10	64QAM	1	48	20.32	20.52	20.35	22	2		
10	64QAM	25	0	19.46	19.45	19.30				
10	64QAM	25	12	19.35	19.29	19.34				
10	64QAM	25	25	19.37	19.40	19.45				
10	64QAM	50	0	19.37	19.53	19.30	19	5		
10	256QAM	1	0	17.38	17.43	17.40				
10	256QAM	1	25	17.55	17.48	17.57				
10	256QAM	1	48	17.43	17.36	17.52				
10	256QAM	12	0	17.56	17.45	17.64	19	5		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.34	22.47	22.35	24	0		
10	QPSK	1	12	22.34	22.31	22.21				
10	QPSK	1	25	22.47	22.37	22.28				
10	QPSK	12	0	21.18	21.40	21.28				
10	QPSK	12	7	21.42	21.28	21.29	23	1		
10	QPSK	12	12	21.54	21.24	21.41				
10	QPSK	25	0	21.18	21.33	21.18				
10	QPSK	25	6	21.47	21.21	21.53				
10	QPSK	1	12	21.21	21.47	21.43	23	1		
10	QPSK	1	25	21.60	21.38	21.43				
10	16QAM	12	0	20.46	20.43	20.22				
10	16QAM	12	6	20.46	20.40	20.25				
10	16QAM	12	18	20.38	20.29	20.31	22	2		
10	16QAM	25	0	20.28	20.39	20.49				
10	16QAM	25	12	20.30	20.28	20.41				
10	16QAM	1	12	20.42	20.38	20.21				
10	QPSK	1	24	20.31	20.44	20.35	22	2		
10	QPSK	1	48	20.41	20.41	20.26				
10	QPSK	12	0	19.27	19.25	19.28				
10	QPSK	12	18	19.30	19.38	19.37				
10	QPSK	25	0	19.46	19.46	19.48	21	3		
10	QPSK	25	12	19.46	19.46	19.48				
10	QPSK	12	7	17.27	17.24	17.54				
10	QPSK	12	12	17.52	17.41	17.48				
10	QPSK	1	24	17.41	17.34	17.41	19	5		
10	QPSK	1	48	17.46	17.38	17.50				
10	QPSK	12	12	17.48	17.54	17.52				
10	QPSK	12	17	17.55	17.39	17.48				

Band 26 Ant 0													
BM [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up Int. (dB)	APR3 (dB)					
Channel													
Frequency (MHz)				821.5	831.5	841.5							
15	QPSK	1	0	22.60	22.66	22.61	24	0					
15	QPSK	1	37	22.59	22.61	22.62							
15	QPSK	1	74	22.60	22.59	22.63							
15	QPSK	36	0	21.63	21.68	21.64							
15	QPSK	36	20	21.62	21.64	21.64	23	1					
15	QPSK	36	36	21.63	21.65	21.64							
15	QPSK	75	0	21.66	21.67	21.62							
15	16QAM	1	0	21.61	21.62	21.65							
15	16QAM	1	37	21.61	21.61	21.65	23	1					
15	16QAM	1	74	21.66	21.65	21.63							
15	16QAM	36	0	20.63	20.62	20.61							
15	16QAM	36	20	20.63	20.59	20.59							
15	16QAM	36	36	20.64	20.69	20.63	22	2					
15	16QAM	75	0	20.61	20.64	20.61							
15	16QAM	1	0	20.65	20.64	20.63							
15	16QAM	1	37	20.63	20.65	20.64							
15	16QAM	1	74	20.65	20.64	20.62	22	2					
15	16QAM	36	0	19.60	19.62	19.63							
15	16QAM	36	20	19.65	19.61	19.63							
15	16QAM	36	36	19.63	19.64	19.61							
15	16QAM	75	0	19.64	19.60	19.61	21	3					
15	16QAM	1	0	19.63	19.66	19.64							
15	16QAM	1	37	19.60	19.61	19.62							
15	256QAM	1	74	18.65	18.65	18.60							
15	256QAM	36	0	18.62	18.65	18.64	19	5					
15	256QAM	36	20	18.62	18.65	18.62							
15	256QAM	36	36	18.62	18.65	18.65							
15	256QAM	75	0	18.65	18.62	18.65							
Channel													
Frequency (MHz)				819	831.5	844							
10	QPSK	1	0	22.47	22.52	22.52	24	0					
10	QPSK	1	24	22.49	22.54	22.52							
10	QPSK	1	49	22.47	22.47	22.56							
10	QPSK	26	0	21.53	21.50	21.52							
10	QPSK	26	12	21.50	21.52	21.53	23	1					
10	QPSK	26	25	21.51	21.55	21.57							
10	QPSK	50	0	21.55	21.54	21.56							
10	16QAM	1	0	21.52	21.53	21.58							
10	16QAM	1	25	21.52	21.49	21.56	23	1					
10	16QAM	1	49	21.54	21.56	21.54							
10	16QAM	25	0	20.52	20.51	20.49							
10	16QAM	25	12	20.52	20.51	20.55							
10	16QAM	50	0	20.48	20.52	20.51	22	2					
10	16QAM	1	0	20.53	20.51	20.54							
10	16QAM	1	25	20.55	20.55	20.52							
10	16QAM	1	49	20.53	20.54	20.53							
10	16QAM	25	0	19.49	19.55	19.51	21	3					
10	16QAM	25	12	19.48	19.54	19.51							
10	16QAM	25	25	19.51	19.52	19.54							
10	16QAM	50	0	19.52	19.51	19.54							
10	256QAM	1	0	18.54	18.54	18.53	19	5					
10	256QAM	1	25	18.48	18.52	18.51							
10	256QAM	1	49	18.57	18.56	18.50							
10	256QAM	25	0	18.51	18.57	18.53							
10	256QAM	25	12	18.55	18.58	18.50	19	5					
10	256QAM	25	25	18.55	18.54	18.55							
10	256QAM	50	0	18.49	18.54	18.55							
10	256QAM	50	0	18.43	18.50	18.58							
Channel													
Frequency (MHz)				816.5	831.5	846.5							
5	QPSK	1	0	22.50	22.52	22.54	24	0					
5	QPSK	1	12	22.48	22.52	22.57							
5	QPSK	1	24	22.50	22.48	22.53							
5	QPSK	12	0	21.52	21.52	21.53							
5	QPSK	12	7	21.52	21.53	21.57	23	1					
5	QPSK	12	13	21.51	21.52	21.53							
5	QPSK	26	0	21.52	21.53	21.56							
5	16QAM	1	0	21.52	21.51	21.52							
5	16QAM	1	12	21.52	21.51	21.56	23	1					
5	16QAM	1	24	21.46	21.58	21.54							
5	16QAM	12	0	20.52	20.51	20.54							
5	16QAM	12	7	20.54	20.50	20.53							
5	16QAM	12	13	20.46	20.53	20.55	22	2					
5	16QAM	25	0	20.54	20.57	20.51							
5	16QAM	1	0	20.58	20.54	20.52							
5	16QAM	1	12	20.51	20.54	20.53							
5	16QAM	1	24	20.57	20.55	20.52	22	2					
5	16QAM	12	0	19.49	19.50	19.54							
5	16QAM	12	7	19.55	19.51	19.54							
5	16QAM	12	13	19.52	19.56	19.49							
5	16QAM	25	0	19.51	19.52	19.49	21	3					
5	256QAM	1	0	18.48	18.53	18.53							
5	256QAM	1	12	18.51	18.49	18.55							
5	256QAM	1	24	18.52	18.55	18.51							
5	256QAM	12	0	18.54	18.58	18.54	19	5					
5	256QAM	12	7	18.52	18.58	18.53							
5	256QAM	12	13	18.51	18.54	18.55							
5	256QAM	25	0	18.54	18.51	18.53							
Channel													
Frequency (MHz)				816.5	831.5	847.5							
3	QPSK	1	0	22.48	22.53	22.54	24	0					
3	QPSK	1	8	22.51	22.51	22.53							
3	QPSK	1	14	22.52	22.47	22.54							
3	QPSK	8	0	21.41	21.54	21.52							
3	QPSK	8	4	21.52	21.56	21.54	23	1					
3	QPSK	8	7	21.51	21.57	21.54							
3	QPSK	16	0	21.48	21.58	21.54							
3	16QAM	1	0	21.48	21.52	21.52							
3	16QAM	1	8	21.48	21.48	21.58	23	1					
3	16QAM	1	14	21.59	21.57	21.51							
3	16QAM	8	0	20.54	20.50	20.50							
3	16QAM	8	4	20.56	20.49	20.56							
3	16QAM	8	7	20.55	20.57	20.50	22	2					
3	16QAM	16	0	20.52	20.54	20.48							
3	16QAM	1	0	20.55	20.52	20.50							
3	16QAM	1	8	20.51	20.55	20.52							
3	16QAM	1	14	20.58	20.54	20.52	21	3					
3	16QAM	8	0	19.52	19.52	19.54							
3	16QAM	8	4	19.57	19.52	19.52							
3	16QAM	8	7	19.56	19.52	19.53							
3	16QAM	16	0	19.51	19.49	19.53	19	5					
3	256QAM	1	0	18.53	18.58	18.51							
3	256QAM	1	8	18.51	18.52	18.51							
3	256QAM	1	14	18.52	18.55	18.46							
3	256QAM	8	0	18.54	18.58	18.52	19	5					
3	256QAM	8	4	18.51	18.53	18.52							
3	256QAM	8	7	18.49	18								

GSM850 Ant 1		Burst Average Power (dbm)			Turn-up Limit (dbm)	Frame-Average Power (dbm)			Turn-up Limit (dbm)
TX Channel		126	189	251		161	189	251	
Frequency (MHz)		854.2	856.4	858.8		854.2	856.4	858.8	
GSM 1 Tx slot	33.49	33.76	33.76	35.00		24.49	24.76	24.76	26.00
GPRS 1 Tx slot	33.42	33.65	33.62	35.00		24.42	24.65	24.62	26.00
GPRS 2 Tx slots	30.44	30.69	30.46	32.00		24.44	24.69	24.46	26.00
GPRS 3 Tx slots	26.51	26.75	26.73	30.00		24.25	24.49	24.47	25.74
GPRS 4 Tx slots	27.48	27.48	27.76	28.50		24.48	24.48	24.76	25.50
EDGE 1 Tx slot	27.76	27.60	27.59	28.50		18.76	18.60	18.59	19.50
EDGE 2 Tx slots	25.02	24.96	25.16	26.00		18.02	18.96	18.16	20.00
EDGE 3 Tx slots	22.97	22.89	23.31	24.00		18.71	18.63	19.05	19.74
EDGE 4 Tx slots	21.34	21.33	21.55	22.50		18.34	18.33	18.55	19.50

Band		WCDMA V Ant 1			Turn-up Limit (dbm)
TX Channel		4192	4182	4233	
Rx Channel		4357	4407	4458	
Frequency (MHz)		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	22.55	22.54	22.53	24.00
3GPP Rel 99	AMR 12.2Kbps	22.58	22.55	22.57	24.00
3GPP Rel 6	HSDPA Subtest-1	21.89	21.63	21.64	22.50
3GPP Rel 6	HSDPA Subtest-2	21.66	21.58	21.61	22.50
3GPP Rel 6	HSDPA Subtest-3	21.16	21.08	21.09	22.00
3GPP Rel 6	HSDPA Subtest-4	21.16	21.11	21.14	22.00
3GPP Rel 6	HSPA Subtest-1	21.54	21.67	21.56	22.50
3GPP Rel 6	HSPA Subtest-2	19.47	19.66	19.51	20.50
3GPP Rel 6	HSPA Subtest-3	20.68	20.53	20.48	21.50
3GPP Rel 6	HSPA Subtest-4	19.47	19.61	19.49	20.50
3GPP Rel 6	HSPA Subtest-5	21.68	21.53	21.48	22.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.28	19.13	19.08	20.00

Band 5 Ant 1												
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												
Frequency (MHz)				20450	20525	20600						
				820	836.5	844						
10	QPSK	1	0	22.17	22.21	22.09	24	0				
10	QPSK	1	25	22.05	22.03	22.00						
10	QPSK	1	49	22.05	22.14	22.13						
10	QPSK	25	0	21.21	21.26	21.24						
10	QPSK	25	12	21.25	21.10	21.17	23	1				
10	QPSK	25	25	21.22	21.11	21.17						
10	QPSK	50	0	21.12	21.25	21.19						
10	16QAM	1	0	21.23	21.05	21.10						
10	16QAM	1	25	21.22	21.12	21.25	23	1				
10	16QAM	1	49	21.08	21.25	21.20						
10	16QAM	25	0	20.16	20.07	20.18						
10	16QAM	25	12	20.05	20.19	20.05						
10	16QAM	25	25	20.09	20.19	20.22	22	2				
10	16QAM	50	0	20.13	20.27	20.16						
10	64QAM	1	0	20.09	20.28	20.13						
10	64QAM	1	25	20.13	20.11	20.27						
10	64QAM	1	49	20.04	20.20	20.14	22	2				
10	64QAM	25	0	19.05	19.04	19.20						
10	64QAM	25	12	19.05	19.07	19.21						
10	64QAM	25	25	19.13	19.00	19.03						
10	64QAM	50	0	19.20	19.19	19.03	21	3				
10	256QAM	1	0	17.05	17.04	17.15						
10	256QAM	1	25	17.01	17.15	17.13						
10	256QAM	1	49	17.06	17.01	17.03						
10	256QAM	25	0	17.11	17.23	17.02	19	5				
10	256QAM	25	12	17.01	17.02	17.14						
10	256QAM	25	25	17.13	17.01	17.23						
10	256QAM	50	0	17.11	17.16	17.01						
Channel												
Frequency (MHz)				20625	20625	20625	Tune-up limit (dBm)	MPR (dB)				
				826.5	836.5	846.5						
5	QPSK	1	0	22.19	22.17	22.11	24	0				
5	QPSK	1	12	22.07	22.01	22.01						
5	QPSK	1	24	22.03	22.14	22.15						
5	QPSK	12	0	21.20	21.23	21.21						
5	QPSK	12	7	21.26	21.12	21.14	23	1				
5	QPSK	12	13	21.19	21.08	21.19						
5	QPSK	25	0	21.13	21.31	21.19						
5	16QAM	1	0	21.21	21.03	21.13						
5	16QAM	1	12	21.24	21.12	21.23	23	1				
5	16QAM	1	24	21.08	21.24	21.18						
5	16QAM	12	0	20.13	20.08	20.18						
5	16QAM	12	7	20.02	20.21	20.07						
5	16QAM	12	13	20.08	20.19	20.20	22	2				
5	16QAM	25	0	20.12	20.24	20.18						
5	64QAM	1	0	20.06	20.30	20.10						
5	64QAM	1	12	20.14	20.12	20.26						
5	64QAM	12	0	19.05	19.03	19.19	22	2				
5	64QAM	12	7	19.06	19.07	19.18						
5	64QAM	12	13	19.13	19.01	19.18						
5	64QAM	25	0	19.21	19.18	19.02						
5	256QAM	1	0	17.03	17.06	17.13	19	5				
5	256QAM	1	12	17.11	17.17	17.11						
5	256QAM	1	24	17.08	17.02	17.01						
5	256QAM	12	0	17.09	17.23	17.04						
5	256QAM	12	7	17.00	17.03	17.15	19	5				
5	256QAM	12	13	17.19	17.21	17.21						
5	256QAM	25	0	17.09	17.16	17.01						
Channel												
Frequency (MHz)				20615	20625	20635			Tune-up limit (dBm)	MPR (dB)		
				825.5	836.5	847.5						
3	QPSK	1	0	22.16	22.17	22.10	24	0				
3	QPSK	1	8	22.02	22.02	22.01						
3	QPSK	1	14	22.07	22.15	22.16						
3	QPSK	8	0	21.23	21.24	21.23						
3	QPSK	8	4	21.26	21.07	21.16	23	1				
3	QPSK	8	7	21.23	21.11	21.18						
3	QPSK	15	0	21.09	21.28	21.18						
3	16QAM	1	0	21.20	21.05	21.10						
3	16QAM	1	8	21.22	21.14	21.22	23	1				
3	16QAM	1	14	21.09	21.25	21.20						
3	16QAM	8	0	20.17	20.06	20.16						
3	16QAM	8	4	20.05	20.20	20.07						
3	16QAM	8	7	20.07	20.18	20.24	22	2				
3	16QAM	15	0	20.14	20.27	20.15						
3	64QAM	1	0	20.08	20.30	20.14						
3	64QAM	1	8	20.12	20.13	20.27						
3	64QAM	1	14	20.06	20.20	20.12	22	2				
3	64QAM	8	0	19.06	19.02	19.19						
3	64QAM	8	4	19.03	19.05	19.20						
3	64QAM	8	7	19.15	19.02	19.04						
3	64QAM	15	0	19.22	19.16	19.03	21	3				
3	256QAM	1	0	17.07	17.06	17.14						
3	256QAM	1	8	17.03	17.14	17.13						
3	256QAM	1	14	17.07	17.01	17.02						
3	256QAM	8	0	17.13	17.21	17.00	19	5				
3	256QAM	8	4	17.03	17.01	17.12						
3	256QAM	8	7	17.21	17.20	17.22						
3	256QAM	15	0	17.13	17.17	17.01						
Channel												
Frequency (MHz)				20607	20625	20643	Tune-up limit (dBm)	MPR (dB)				
				824.7	836.5	849.3						
1.4	QPSK	1	0	22.17	22.14	22.09	24	0				
1.4	QPSK	1	3	22.06	22.04	22.02						
1.4	QPSK	1	5	22.05	22.13	22.14						
1.4	QPSK	3	0	22.17	22.18	22.11						
1.4	QPSK	3	1	22.04	22.02	22.01	23	1				
1.4	QPSK	3	3	22.05	22.15	22.15						
1.4	QPSK	6	0	21.09	21.30	21.19						
1.4	16QAM	1	0	21.25	21.03	21.07						
1.4	16QAM	1	3	21.19	21.09	21.25	23	1				
1.4	16QAM	1	5	21.06	21.23	21.22						
1.4	16QAM	3	0	21.23	21.26	21.24						
1.4	16QAM	3	1	21.27	21.08	21.20						
1.4	16QAM	3	3	21.24	21.09	21.17	22	2				
1.4	16QAM	6	0	20.15	20.26	20.18						
1.4	64QAM	1	0	20.07	20.27	20.15						
1.4	64QAM	1	3	20.15	20.09	20.24						
1.4	64QAM	1	5	20.10	20.22	20.15	22	2				
1.4	64QAM	3	0	20.17	20.07	20.18						
1.4	64QAM	3	1	20.02	20.21	20.02						
1.4	64QAM	3	3	20.06	20.21	20.21	21	3				
1.4	64QAM	6	0	19.19	19.20	19.19						
1.4	256QAM	1	0	17.07	17.04	17.18						
1.4	256QAM	1	3	17.04	17.12	17.12						
1.4	256QAM	1	5	17.04	17.02	17.00	19	5				
1.4	256QAM	3	0	17.17	17.20	17.02						
1.4	256QAM	3	3	17.18	17.19	17.25						
1.4	256QAM	6	0	17.13	17.17	17.00						

Band 17 Ant 1													
BW [MHz]	Modulation	RB Size	RB Offset	Power Low		Power Middle		Power High		Tune-up limit (dBm)	MPR (dB)		
				Ch. / Freq.		Ch. / Freq.		Ch. / Freq.					
				Channel		Channel		Channel					
21.17	Frequency (MHz)			709		710		711		23	0		
	10	QPSK	1	0	21.81	21.82	21.74						
	10	QPSK	1	25	21.60	21.65	21.53						
	10	QPSK	1	49	21.59	21.73	21.73						
	10	QPSK	25	0	20.84	20.88	20.83			22	1		
	10	QPSK	25	12	20.82	20.86	20.78						
	10	QPSK	25	25	20.87	20.83	20.85						
	10	QPSK	50	0	20.70	20.81	20.76						
	10	16QAM	1	0	20.69	20.77	20.87						
	10	16QAM	1	25	20.86	20.74	20.76			22	1		
20.06	10	16QAM	1	49	20.77	20.76	20.75						
	10	16QAM	25	0	19.82	19.97	19.94						
	10	16QAM	25	12	19.92	19.95	19.96			21	2		
	10	16QAM	25	25	19.82	19.82	19.78						
	10	16QAM	50	0	19.79	19.77	19.97						
	10	64QAM	1	0	19.92	19.80	19.81			21	2		
	10	64QAM	1	49	19.77	19.88	19.89						
	10	64QAM	25	0	18.75	18.83	18.80						
	10	64QAM	25	12	18.82	18.85	18.90						
	10	64QAM	25	25	18.93	18.80	18.95			20	3		
16.91	10	64QAM	50	0	18.80	18.94	18.88						
	10	256QAM	1	0	16.71	16.83	16.87						
	10	256QAM	1	25	16.81	17.01	16.97			18	5		
	10	256QAM	1	49	17.01	16.79	17.07						
	10	256QAM	25	0	16.71	17.06	16.79						
	10	256QAM	25	12	16.80	16.84	16.74			18	5		
	10	256QAM	25	25	16.78	16.94	16.96						
	10	256QAM	50	0	17.02	16.78	17.06						
	Channel			23755		23790		23820		Tune-up limit (dBm)	MPR (dB)		
	Frequency (MHz)			706.5		710		713.5					
	5	QPSK	1	0	21.78	21.79	21.74						
21.17	5	QPSK	1	12	21.59	21.62	21.54			23	0		
	5	QPSK	1	24	21.58	21.74	21.75						
	5	QPSK	12	0	20.82	20.84	20.82						
	5	QPSK	12	7	20.81	20.79	20.78			22	1		
	5	QPSK	12	13	20.84	20.86	20.85						
	5	QPSK	25	0	20.71	20.76	20.77						
	5	16QAM	1	0	20.71	20.79	20.88			22	1		
	5	16QAM	1	12	20.82	20.79	20.76						
	5	16QAM	1	24	20.77	20.75	20.71						
	5	16QAM	12	0	19.85	19.95	19.94			21	2		
20.06	5	16QAM	12	7	19.91	19.93	19.96						
	5	16QAM	12	13	19.82	19.85	19.77						
	5	16QAM	25	0	19.79	19.81	19.93			21	2		
	5	64QAM	1	0	19.91	19.74	19.79						
	5	64QAM	1	12	19.91	19.80	19.85			21	2		
	5	64QAM	1	24	19.75	19.88	19.87						
	5	64QAM	12	0	18.78	18.85	18.80						
	5	64QAM	12	7	18.81	18.87	18.89			20	3		
	5	64QAM	12	13	18.92	18.92	18.97						
	5	64QAM	25	0	18.80	18.94	18.91						
16.91	5	256QAM	1	0	16.70	16.86	16.89			18	5		
	5	256QAM	1	12	16.81	17.00	16.99						
	5	256QAM	1	24	16.97	16.75	17.07						
	5	256QAM	12	0	16.72	17.05	16.82			18	5		
	5	256QAM	12	7	16.78	16.81	16.71						
	5	256QAM	12	13	16.81	16.98	16.93						
	5	256QAM	25	0	17.02	16.75	17.06						
	Channel			26740		26865		26990		Tune-up limit (dBm)	MPR (dB)		
	Frequency (MHz)			819		831.5		844					
	10	QPSK	1	0	21.56	21.59	21.57						
21.17	10	QPSK	1	25	21.61	21.55	21.56			23	0		
	10	QPSK	1	49	21.62	21.57	21.54						
	10	QPSK	25	0	20.82	20.81	20.59			22	1		
	10	QPSK	25	12	20.80	20.83	20.55						
	10	QPSK	25	25	20.80	20.56	20.59						
	10	QPSK	50	0	20.58	20.59	20.58			22	1		
	10	16QAM	1	0	20.58	20.56	20.60						
	10	16QAM	1	25	20.60	20.61	20.57						
	10	16QAM	1	49	20.54	20.55	20.59						
	10	16QAM	25	0	19.58	19.59	19.60			21	2		
20.06	10	16QAM	25	12	19.56	19.56	19.61						
	10	16QAM	25	25	19.63	19.59	19.62						
	10	16QAM	50	0	19.58	19.54	19.57			21	2		
	10	64QAM	1	0	19.58	19.60	19.59						
	10	64QAM	1	25	19.58	19.60	19.61			21	2		
	10	64QAM	1	49	19.57	19.62	19.58						
	10	64QAM	25	0	18.57	18.57	18.62						
	10	64QAM	25	12	18.61	18.59	18.58			20	3		
	10	64QAM	25	25	18.61	18.57	18.58						
	10	64QAM	50	0	18.60	18.61	18.62						
16.91	10	256QAM	1	0	16.59	16.58	16.62			18	5		
	10	256QAM	1	25	16.62	16.56	16.61						
	10	256QAM	1	49	16.60	16.54	16.59						
	10	256QAM	25	0	16.57	16.60	16.60			18	5		
	10	256QAM	25	12	16.56	16.57	16.57						
	10	256QAM	25	25	16.60	16.60	16.62						
	10	256QAM	50	0	16.58	16.58	16.59						
	Channel			26715		26865		27015		Tune-up limit (dBm)	MPR (dB)		
	Frequency (MHz)			816.5		831.5		846.5					
	5	QPSK	1	0	21.59	21.62	21.55						
21.17	5	QPSK	1	12	21.58	21.55	21.57			23	0		
	5	QPSK	1	24	21.58	21.80	21.25						
	5	QPSK	12	0	20.82	20.61	20.57			22	1		
	5	QPSK	12	7	20.59	20.59	20.59						
	5	QPSK	12	13	20.60	20.56	20.58						
	5	QPSK	25	0	20.57	20.83	20.58			22	1		
	5	16QAM	1	0	20.59	20.60	20.61						
	5	16QAM	1	12	20.60	20.55	20.60						

Band 38 Ant 1									
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				37650	38000	38150	21.5	0	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	19.88	19.97	19.90	21.5	0	
20	QPSK	1	49	19.71	19.84	19.78			
20	QPSK	1	99	19.80	19.79	19.78	21.5	0	
20	QPSK	50	0	19.75	19.86	19.84			
20	QPSK	50	24	19.77	19.80	19.74	21.5	0	
20	QPSK	50	50	19.80	19.78	19.74			
20	QPSK	100	0	19.77	19.80	19.70	21.5	0	
20	16QAM	1	0	19.80	19.84	19.79			
20	16QAM	1	49	19.83	19.76	19.72	21.5	0	
20	16QAM	1	99	19.68	19.68	19.64			
20	16QAM	50	0	19.60	19.81	19.65	21.5	0	
20	16QAM	50	24	19.64	19.76	19.61			
20	16QAM	50	50	19.68	19.70	19.69	21.5	0	
20	16QAM	100	0	19.63	19.70	19.65			
20	64QAM	1	0	19.79	19.93	19.76	21.5	0	
20	64QAM	1	49	19.58	19.74	19.66			
20	64QAM	1	99	19.69	19.73	19.70	21	0.5	
20	64QAM	50	0	19.42	19.50	19.37			
20	64QAM	50	24	19.27	19.30	19.29	21	0.5	
20	64QAM	50	50	19.31	19.25	19.24			
20	64QAM	100	0	19.23	19.40	19.31	19	2.5	
20	256QAM	1	0	17.41	17.45	17.38			
20	256QAM	1	49	17.17	17.36	17.27	19	2.5	
20	256QAM	1	99	17.36	17.35	17.24			
20	256QAM	50	0	17.26	17.41	17.30	19	2.5	
20	256QAM	50	24	17.24	17.25	17.27			
20	256QAM	50	50	17.29	17.24	17.28	19	2.5	
20	256QAM	100	0	17.25	17.35	17.15			
Channel				37625	38000	38175	21.5	0	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	19.74	19.89	19.79	21.5	0	
15	QPSK	1	37	19.67	19.78	19.70			
15	QPSK	1	74	19.76	19.69	19.66	21.5	0	
15	QPSK	36	0	19.70	19.83	19.72			
15	QPSK	36	20	19.73	19.68	19.61	21.5	0	
15	QPSK	36	39	19.73	19.69	19.66			
15	QPSK	75	0	19.73	19.69	19.55	21.5	0	
15	16QAM	1	0	19.71	19.74	19.74			
15	16QAM	1	37	19.55	19.72	19.66	21.5	0	
15	16QAM	1	74	19.60	19.54	19.59			
15	16QAM	36	0	19.52	19.68	19.55	21.5	0	
15	16QAM	36	20	19.53	19.68	19.57			
15	16QAM	36	39	19.56	19.60	19.54	21.5	0	
15	16QAM	75	0	19.50	19.56	19.56			
15	64QAM	1	0	19.66	19.89	19.69	21.5	0	
15	64QAM	1	37	19.55	19.60	19.57			
15	64QAM	1	74	19.64	19.60	19.64	21	0.5	
15	64QAM	36	0	19.34	19.47	19.27			
15	64QAM	36	20	19.20	19.18	19.25	21	0.5	
15	64QAM	36	39	19.23	19.18	19.15			
15	64QAM	75	0	19.11	19.25	19.20	19	2.5	
15	256QAM	1	0	17.28	17.41	17.29			
15	256QAM	1	37	17.10	17.28	17.14	19	2.5	
15	256QAM	1	74	17.24	17.26	17.15			
15	256QAM	36	0	17.13	17.34	17.19	19	2.5	
15	256QAM	36	20	17.10	17.17	17.13			
15	256QAM	36	39	17.25	17.20	17.17	19	2.5	
15	256QAM	75	0	17.22	17.29	17.07			
Channel				37600	38000	38200	21.5	0	
Frequency (MHz)				2575	2585	2615			
10	QPSK	1	0	19.82	19.91	19.85	21.5	0	
10	QPSK	1	25	19.62	19.72	19.66			
10	QPSK	1	49	19.67	19.67	19.68	21.5	0	
10	QPSK	25	0	19.82	19.74	19.73			
10	QPSK	25	12	19.68	19.76	19.69	21.5	0	
10	QPSK	25	25	19.71	19.65	19.61			
10	QPSK	50	0	19.70	19.77	19.58	21.5	0	
10	16QAM	1	0	19.76	19.81	19.72			
10	16QAM	1	25	19.57	19.63	19.63	21.5	0	
10	16QAM	1	49	19.64	19.55	19.52			
10	16QAM	25	0	19.54	19.73	19.62	21.5	0	
10	16QAM	25	12	19.59	19.63	19.51			
10	16QAM	25	25	19.58	19.63	19.66	21.5	0	
10	16QAM	50	0	19.50	19.63	19.59			
10	64QAM	1	0	19.69	19.83	19.68	21.5	0	
10	64QAM	1	25	19.50	19.66	19.60			
10	64QAM	1	49	19.65	19.61	19.60	21	0.5	
10	64QAM	25	0	19.35	19.37	19.34			
10	64QAM	25	12	19.13	19.26	19.20	21	0.5	
10	64QAM	25	25	19.17	19.19	19.17			
10	64QAM	50	0	19.13	19.32	19.26	19	2.5	
10	256QAM	1	0	17.36	17.35	17.31			
10	256QAM	1	25	17.13	17.31	17.21	19	2.5	
10	256QAM	1	49	17.24	17.30	17.19			
10	256QAM	25	0	17.17	17.28	17.26	19	2.5	
10	256QAM	25	12	17.14	17.15	17.20			
10	256QAM	25	25	17.16	17.12	17.20	21	0.5	
10	256QAM	50	0	17.18	17.26	17.03			
Channel				37775	38000	38225	21.5	0	
Frequency (MHz)				2572.5	2585	2617.5			
5	QPSK	1	0	19.74	19.86	19.79	21.5	0	
5	QPSK	1	12	19.58	19.75	19.67			
5	QPSK	1	24	19.68	19.73	19.64	21.5	0	
5	QPSK	12	0	19.65	19.73	19.75			
5	QPSK	12	7	19.74	19.68	19.67	21.5	0	
5	QPSK	12	13	19.68	19.68	19.68			
5	QPSK	25	0	19.69	19.77	19.60	21.5	0	
5	16QAM	1	0	19.73	19.77	19.66			
5	16QAM	1	12	19.59	19.61	19.69	21.5	0	
5	16QAM	1	24	19.62	19.58	19.54			
5	16QAM	12	0	19.51	19.76	19.54	21.5	0	
5	16QAM	12	7	19.51	19.67	19.55			
5	16QAM	12	13	19.62	19.56	19.58	21.5	0	
5	16QAM	25	0	19.54	19.64	19.57			
5	64QAM	1	0	19.74	19.85	19.62	21.5	0	
5	64QAM	1	12	19.53	19.61	19.63			
5	64QAM	1	24	19.62	19.59	19.60	21	0.5	
5	64QAM	12	0	19.31	19.39	19.24			
5	64QAM	12	7	19.14	19.24	19.20	21	0.5	
5	64QAM	12	13	19.27	19.18	19.20			
5	64QAM	25	0	19.18	19.27	19.25	19	2.5	
5	256QAM	1	0	17.33	17.34	17.31			
5	256QAM	1	12	17.04	17.23	17.14	19	2.5	
5	256QAM	1	24	17.29	17.29	17.19			
5	256QAM	12	0	17.21	17.37	17.26	19	2.5	
5	256QAM	12	7	17.16	17.21	17.23			
5	256QAM	12	13	17.17	17.11	17.16	19	2.5	
5	256QAM	25	0	17.19	17.32	17.04			

Band 41 Ant 1			
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Band 2 Ant 5													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MPR (dB)					
Channel													
Frequency (MHz)													
20	QPSK	1	0	22.34	22.68	22.33			24	0			
20	QPSK	1	49	22.36	22.64	22.37							
20	QPSK	1	99	22.25	22.66	22.42			24	0			
20	QPSK	50	0	22.51	22.50	22.56							
20	QPSK	50	24	22.38	22.43	22.37			24	0			
20	QPSK	50	50	22.31	22.35	22.39							
20	QPSK	100	0	22.48	22.52	22.51			24	0			
20	16QAM	1	0	22.18	22.18	22.18							
20	16QAM	1	49	22.22	22.30	22.26			24	0			
20	16QAM	1	99	22.10	22.44	22.32							
20	16QAM	50	0	21.36	21.36	21.37			23	1			
20	16QAM	50	24	21.11	21.26	21.11							
20	16QAM	50	50	21.21	21.21	21.21			23	1			
20	16QAM	100	0	21.41	21.41	21.39							
20	64QAM	1	0	21.34	21.26	21.22			23	1			
20	64QAM	1	49	21.35	21.18	21.21							
20	64QAM	1	99	21.27	21.45	21.38			22	2			
20	64QAM	50	0	20.32	20.30	20.24							
20	64QAM	50	24	20.52	20.19	20.35			20	4			
20	64QAM	50	50	20.31	20.34	20.30							
20	256QAM	1	0	18.32	18.36	18.33			20	4			
20	256QAM	1	49	18.44	18.43	18.43							
20	256QAM	1	99	18.21	18.29	18.44			20	4			
20	256QAM	50	0	18.27	18.27	18.27							
20	256QAM	50	24	18.29	18.32	18.32			20	4			
20	256QAM	50	50	18.27	18.44	18.26							
20	256QAM	100	0	18.34	18.33	18.33							
Channel													
Frequency (MHz)													
18	QPSK	1	0	22.47	22.45	22.48			24	0			
18	QPSK	1	37	22.29	22.38	22.40							
18	QPSK	1	74	22.38	22.38	22.49			24	0			
18	QPSK	36	0	22.40	22.37	22.32							
18	QPSK	36	15	22.15	22.35	22.30			24	0			
18	QPSK	36	39	22.14	22.34	22.37							
18	QPSK	75	0	22.53	22.53	22.53			24	0			
18	16QAM	1	0	22.12	22.12	22.18							
18	16QAM	1	37	22.11	22.16	22.33			23	1			
18	16QAM	1	74	22.26	22.46	22.30							
18	16QAM	36	0	21.51	21.59	21.57			23	1			
18	16QAM	36	20	21.19	21.17	21.14							
18	16QAM	36	39	21.35	21.35	21.47			23	1			
18	16QAM	75	0	21.29	21.35	21.27							
18	64QAM	1	0	21.43	21.28	21.25			23	1			
18	64QAM	1	37	21.41	21.41	21.42							
18	64QAM	1	74	21.40	21.25	21.13			22	2			
18	64QAM	36	0	20.52	20.39	20.16							
18	64QAM	36	20	20.46	20.34	20.30			20	4			
18	64QAM	36	39	20.24	20.42	20.35							
18	64QAM	75	0	20.35	20.42	20.36			20	4			
18	256QAM	1	0	18.31	18.41	18.41							
18	256QAM	1	37	18.41	18.41	18.39			20	4			
18	256QAM	1	74	18.31	18.25	18.46							
18	256QAM	36	0	18.36	18.46	18.46			20	4			
18	256QAM	36	20	18.46	18.34	18.41							
18	256QAM	36	39	18.23	18.25	18.41			20	4			
18	256QAM	75	0	18.16	18.41	18.30							
Channel													
Frequency (MHz)													
10	QPSK	1	0	22.37	22.37	22.37			24	0			
10	QPSK	1	25	22.35	22.42	22.42							
10	QPSK	1	49	22.24	22.38	22.28			24	0			
10	QPSK	12	0	22.18	22.35	22.35							
10	QPSK	25	12	22.15	22.22	22.34			24	0			
10	QPSK	25	25	22.35	22.34	22.35							
10	QPSK	50	0	22.22	22.31	22.39			24	0			
10	16QAM	1	0	22.22	22.31	22.34							
10	16QAM	1	25	22.22	22.19	22.43			23	1			
10	16QAM	1	49	22.15	22.35	22.38							
10	16QAM	25	0	21.45	21.40	21.19			23	1			
10	16QAM	25	12	21.22	21.24	21.32							
10	16QAM	50	0	21.32	21.32	21.34			23	1			
10	16QAM	50	0	21.24	21.32	21.44							
10	64QAM	1	0	21.44	21.29	21.36			23	1			
10	64QAM	1	24	21.42	21.42	21.45							
10	64QAM	1	49	21.41	21.23	21.31			22	2			
10	64QAM	25	0	20.49	20.39	20.18							
10	64QAM	25	12	20.34	20.35	20.39			20	4			
10	64QAM	25	25	20.21	20.35	20.39							
10	64QAM	50	0	20.34	20.42	20.35			20	4			
10	256QAM	1	0	18.27	18.43	18.39							
10	256QAM	1	25	18.31	18.48	18.37			20	4			
10	256QAM	1	49	18.44	18.37	18.47							
10	256QAM	25	0	18.17	18.37	18.35			20	4			
10	256QAM	25	12	18.32	18.18	18.46							
10	256QAM	25	25	18.31	18.46	18.51			20	4			
10	256QAM	50	0	18.34	18.46	18.21							
Channel													
Frequency (MHz)													
5	QPSK	1	0	22.33	22.48	22.43			24	0			
5	QPSK	1	12	22.14	22.40	22.30							
5	QPSK	1	24	22.34	22.47	22.37			24	0			
5	QPSK	12	0	22.40	22.44	22.44							
5	QPSK	12	7	22.29	22.35	22.27			24	0			
5	QPSK	12	13	22.08	22.41	22.46							
5	QPSK	25	0	22.42	22.38	22.34			24	0			
5	16QAM	1	0	22.19	22.39	22.17							
5	16QAM	1	12	22.12	22.37	22.27			23	1			
5	16QAM	1	24	22.06	22.44	22.44							
5	16QAM	12	0	21.43	21.34	21.37			23	1			
5	16QAM	12	7	21.11	21.38	21.22							
5	16QAM	12	13	21.36	21.31	21.32			23	1			
5	16QAM	25	0	21.23	21.46	21.27							
5	16QAM	1	0	21.44	21.32	21.30			23	1			
5	64QAM	1	0	21.33	21.13	21.33							
5	64QAM	1	24	21.27	21.25	21.12			22	2			
5	64QAM	12	0	20.47	20.35	20.34							
5	64QAM	12	7	20.52	20.32	20.43			20	4			
5	64QAM	12	13	20.10	20.20	20.35							
5	64QAM	25	0	20.39	20.41	20.37			20	4			
5	256QAM	1	0	18.19	18.35	18.15							
5	256QAM	1	12	18.31	18.30	18.32			20	4			
5	256QAM	1	24	18.26	18.40	18.45							
5	256QAM	12	0	18.19	18.51	18.31			20	4			
5	256QAM	12	7	18.51	18.25	18.38							
5	256QAM	12	13	18.13	18.26	18.46			20	4			
5	256QAM	25	0	18.26	18.33	18.36							
Channel													
Frequency (MHz)													
3	QPSK	1	0	22.35	22.40	22.33			24	0			
3	QPSK	1	8	22.16	22.48	22.52							
3	QPSK	1	14	22.24	22.43	22.39			24	0			
3	QPSK	8	0	22.20	22.51	22.51							
3	QPSK	8	4	22.12	22.30	22.37			24	0			
3	QPSK												

Band 38 Ant 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power High Ch. / Freq.	Power Middle Ch. / Freq.	Power Low Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	22.55	22.64	22.59	24	0	
20	QPSK	1	49	22.51	22.56	22.36			
20	QPSK	1	99	22.46	22.59	22.48	23	1	
20	QPSK	50	0	21.45	21.63	21.59			
20	QPSK	50	24	21.57	21.48	21.38	23	1	
20	QPSK	50	50	21.48	21.42	21.39			
20	QPSK	100	0	21.51	21.60	21.39	23	1	
20	16QAM	1	0	21.52	21.54	21.57			
20	16QAM	1	49	21.42	21.56	21.44	22	2	
20	16QAM	1	99	21.57	21.59	21.44			
20	16QAM	50	0	20.50	20.61	20.61	22	2	
20	16QAM	50	24	20.46	20.54	20.55			
20	16QAM	50	50	20.62	20.42	20.50	21	3	
20	16QAM	100	0	20.56	20.61	20.39			
20	64QAM	1	0	20.47	20.39	20.50	22	2	
20	64QAM	1	49	20.54	20.48	20.55			
20	64QAM	1	99	20.44	20.49	20.54	21	3	
20	64QAM	50	0	19.41	19.54	19.40			
20	64QAM	50	24	19.46	19.46	19.53	19	5	
20	64QAM	50	50	19.41	19.44	19.39			
20	64QAM	100	0	19.57	19.56	19.38	19	5	
20	256QAM	1	0	17.59	17.48	17.57			
20	256QAM	1	49	17.65	17.65	17.50	22	2	
20	256QAM	1	99	17.50	17.51	17.48			
20	256QAM	1	74	17.54	17.46	17.48	19	5	
20	256QAM	50	24	17.53	17.66	17.46			
20	256QAM	50	50	17.56	17.58	17.61	22	2	
20	256QAM	100	0	17.67	17.44	17.51			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	22.60	22.63	22.55	24	0	
15	QPSK	1	37	22.50	22.54	22.39			
15	QPSK	1	74	22.46	22.56	22.51	23	1	
15	QPSK	36	0	21.46	21.60	21.62			
15	QPSK	36	20	21.61	21.51	21.39	23	1	
15	QPSK	36	39	21.46	21.44	21.42			
15	QPSK	75	0	21.51	21.58	21.40	23	1	
15	16QAM	1	0	21.55	21.55	21.57			
15	16QAM	1	37	21.41	21.59	21.42	22	2	
15	16QAM	1	74	21.61	21.59	21.41			
15	16QAM	36	0	20.51	20.61	20.57	22	2	
15	16QAM	36	20	20.46	20.52	20.54			
15	16QAM	36	39	20.61	20.44	20.52	22	2	
15	16QAM	75	0	20.53	20.60	20.37			
15	64QAM	1	0	20.47	20.39	20.47	22	2	
15	64QAM	1	37	20.50	20.48	20.52			
15	64QAM	1	74	20.47	20.46	20.49	21	3	
15	64QAM	36	0	19.40	19.54	19.38			
15	64QAM	36	20	19.42	19.43	19.49	19	5	
15	64QAM	36	39	19.40	19.47	19.37			
15	64QAM	75	0	19.53	19.54	19.38	19	5	
15	256QAM	1	0	17.58	17.59	17.56			
15	256QAM	1	37	17.64	17.66	17.51	19	5	
15	256QAM	1	74	17.52	17.50	17.51			
15	256QAM	36	0	17.64	17.43	17.48	19	5	
15	256QAM	36	20	17.55	17.69	17.50			
15	256QAM	36	39	17.55	17.60	17.64	24	0	
15	256QAM	75	0	17.54	17.48	17.51			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	22.56	22.62	22.56	24	0	
10	QPSK	1	25	22.49	22.56	22.36			
10	QPSK	1	49	22.46	22.60	22.47	23	1	
10	QPSK	25	0	21.45	21.61	21.64			
10	QPSK	25	12	21.59	21.48	21.41	23	1	
10	QPSK	25	25	21.45	21.44	21.40			
10	QPSK	50	0	21.53	21.57	21.39	23	1	
10	16QAM	1	0	21.52	21.57	21.53			
10	16QAM	1	25	21.44	21.54	21.41	22	2	
10	16QAM	1	49	21.61	21.54	21.40			
10	16QAM	25	0	20.48	20.61	20.61	22	2	
10	16QAM	25	12	20.48	20.54	20.55			
10	16QAM	25	25	20.61	20.39	20.51	22	2	
10	16QAM	50	0	20.54	20.64	20.37			
10	64QAM	1	0	20.49	20.39	20.45	22	2	
10	64QAM	1	25	20.54	20.44	20.54			
10	64QAM	1	49	20.44	20.45	20.54	21	3	
10	64QAM	25	0	19.41	19.54	19.39			
10	64QAM	25	12	19.42	19.43	19.51	19	5	
10	64QAM	25	25	19.40	19.46	19.36			
10	64QAM	50	0	19.57	19.55	19.39	19	5	
10	256QAM	1	0	17.56	17.45	17.59			
10	256QAM	1	25	17.68	17.64	17.53	19	5	
10	256QAM	1	49	17.48	17.49	17.52			
10	256QAM	25	0	17.65	17.63	17.50	19	5	
10	256QAM	25	12	17.58	17.67	17.47			
10	256QAM	25	25	17.52	17.61	17.61	21	3	
10	256QAM	50	0	17.66	17.48	17.53			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	22.57	22.56	22.57	24	0	
5	QPSK	1	12	22.52	22.53	22.37			
5	QPSK	1	24	22.45	22.55	22.47	23	1	
5	QPSK	12	0	21.47	21.64	21.64			
5	QPSK	12	7	21.59	21.49	21.37	23	1	
5	QPSK	12	13	21.47	21.45	21.43			
5	QPSK	25	0	21.49	21.56	21.41	23	1	
5	16QAM	1	0	21.53	21.55	21.57			
5	16QAM	1	12	21.44	21.54	21.42	22	2	
5	16QAM	1	24	21.60	21.54	21.43			
5	16QAM	12	0	20.47	20.61	20.58	22	2	
5	16QAM	12	7	20.48	20.50	20.57			
5	16QAM	12	13	20.58	20.39	20.54	22	2	
5	16QAM	25	0	20.54	20.58	20.39			
5	64QAM	1	0	20.48	20.40	20.49	22	2	
5	64QAM	1	12	20.56	20.49	20.51			
5	64QAM	1	24	20.49	20.44	20.54	21	3	
5	64QAM	12	0	19.42	19.52	19.40			
5	64QAM	12	7	19.41	19.46	19.51	19	5	
5	64QAM	12	13	19.41	19.46	19.36			
5	64QAM	25	0	19.52	19.56	19.39	19	5	
5	256QAM	1	0	17.57	17.49	17.57			
5	256QAM	1	12	17.65	17.63	17.54	19	5	
5	256QAM	1	24	17.54	17.51	17.51			
5	256QAM	12	0	17.65	17.45	17.53	19	5	
5	256QAM	12	7	17.53	17.68	17.46			
5	256QAM	12	13	17.52	17.57	17.65	19	5	
5	256QAM	25	0	17.67	17.47	17.53			

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Low Middle Ch. Freq.	Power High Ch. Freq.	Power High Middle Ch. Freq.	Power High Ch. Freq.	Tune-up time (dBm)	MPR (dB)
Channel				39750	40185	40600	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.32	22.30	22.65	22.59	22.57	24	0
20	QPSK	1	49	22.34	22.18	22.63	22.61	22.56		
20	QPSK	1	99	22.33	22.32	22.61	22.62	22.49		
20	QPSK	50	24	21.49	21.63	21.73	21.47	21.52		
20	QPSK	50	24	21.49	21.68	21.70	21.48	21.60	23	1
20	QPSK	50	50	21.50	21.68	21.64	21.66	21.60		
20	QPSK	100	0	21.50	21.65	21.66	21.54	21.52		
20	16QAM	1	0	21.51	21.50	21.74	21.31	21.51		
20	16QAM	1	49	21.46	21.47	21.68	21.49	21.33	23	1
20	16QAM	1	99	21.56	21.58	21.49	21.46	21.52		
20	16QAM	50	0	20.89	20.60	20.73	20.52	20.52		
20	16QAM	50	24	20.65	20.63	20.72	20.71	20.56		
20	16QAM	50	50	20.74	20.58	20.55	20.69	20.61	22	2
20	16QAM	100	0	20.68	20.63	20.62	20.57	20.65		
20	16QAM	1	0	20.57	20.70	20.53	20.59	20.76		
20	64QAM	1	49	20.70	20.55	20.66	20.66	20.51		
20	64QAM	1	99	20.73	20.58	20.66	20.71	20.57	22	2
20	64QAM	50	0	19.70	19.63	19.60	19.61	19.54		
20	64QAM	50	24	19.71	19.65	19.59	19.63	19.53		
20	64QAM	50	50	19.60	19.75	19.66	19.58	19.71		
20	64QAM	100	0	19.72	19.75	19.68	19.67	19.61	21	3
20	256QAM	0	0	17.53	17.72	17.51	17.58	17.72		
20	256QAM	1	49	17.56	17.72	17.58	17.76	17.64		
20	256QAM	1	99	17.70	17.61	17.67	17.64	17.63		
20	256QAM	50	0	17.70	17.58	17.70	17.59	17.51	19	5
20	256QAM	50	24	17.73	17.65	17.61	17.50	17.69		
20	256QAM	50	50	17.60	17.58	17.74	17.74	17.65		
20	256QAM	100	0	17.73	17.55	17.67	17.57	17.64		
Channel				39725	40173	40600	41068	41515	Tune-up time (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.1	2593	2637.8	2682.5		
15	QPSK	1	0	22.33	22.30	22.62	22.56	22.55	24	0
15	QPSK	1	37	22.31	22.15	22.64	22.56	22.48		
15	QPSK	1	74	22.33	22.30	22.62	22.61	22.38		
15	QPSK	36	0	21.55	21.63	21.70	21.44	21.50		
15	QPSK	36	21	21.50	21.67	21.71	21.44	21.61	23	1
15	QPSK	36	39	21.48	21.64	21.61	21.66	21.60		
15	QPSK	75	0	21.47	21.61	21.68	21.50	21.53		
15	64QAM	1	0	21.50	21.47	21.71	21.31	21.47		
15	16QAM	1	37	21.43	21.43	21.67	21.49	21.29	23	1
15	16QAM	1	74	21.52	21.50	21.58	21.45	21.29		
15	16QAM	36	0	20.70	20.60	20.74	20.50	20.52		
15	16QAM	36	20	20.65	20.60	20.72	20.70	20.57		
15	16QAM	36	39	20.72	20.55	20.56	20.70	20.61	22	2
15	16QAM	75	0	20.65	20.61	20.61	20.57	20.61		
15	64QAM	1	0	20.57	20.71	20.53	20.60	20.74		
15	64QAM	1	37	20.71	20.54	20.67	20.66	20.50		
15	64QAM	1	74	20.74	20.55	20.67	20.68	20.55	22	2
15	64QAM	36	0	19.68	19.60	19.60	19.57	19.50		
15	64QAM	36	20	19.69	19.62	19.55	19.64	19.53		
15	64QAM	36	39	19.57	19.74	19.65	19.55	19.71		
15	64QAM	75	0	19.72	19.75	19.68	19.65	19.66	21	3
15	256QAM	1	0	17.53	17.68	17.52	17.58	17.70		
15	256QAM	1	37	17.53	17.68	17.55	17.72	17.63		
15	256QAM	1	74	17.70	17.57	17.68	17.65	17.63		
15	256QAM	1	99	17.66	17.59	17.71	17.58	17.64	19	5
15	256QAM	36	20	17.72	17.62	17.61	17.51	17.69		
15	256QAM	36	39	17.58	17.55	17.55	17.72	17.64		
15	256QAM	75	0	17.67	17.59	17.65	17.58	17.61		
Channel				39700	40150	40600	41080	41540	Tune-up time (dBm)	MPR (dB)
Frequency (MHz)				2500.1	2544.9	2593	2638.9	2683.5		
10	QPSK	1	0	22.31	22.26	22.61	22.57	22.55	24	0
10	QPSK	1	25	22.32	22.18	22.59	22.58	22.53		
10	QPSK	1	49	22.33	22.29	22.60	22.61	22.41		
10	QPSK	25	0	21.60	21.62	21.70	21.49	21.49		
10	QPSK	25	12	21.49	21.66	21.69	21.46	21.60	23	1
10	QPSK	25	12	21.47	21.68	21.65	21.45	21.58		
10	QPSK	50	0	21.48	21.64	21.64	21.54	21.51		
10	16QAM	1	0	21.49	21.51	21.72	21.30	21.52		
10	16QAM	1	25	21.46	21.48	21.69	21.49	21.33	23	1
10	16QAM	1	49	21.57	21.46	21.55	21.47	21.53		
10	16QAM	25	0	20.68	20.59	20.72	20.52	20.60		
10	16QAM	25	12	20.72	20.60	20.72	20.70	20.55		
10	16QAM	25	25	20.73	20.57	20.56	20.65	20.60	22	2
10	16QAM	50	0	20.66	20.61	20.62	20.56	20.66		
10	64QAM	1	0	20.56	20.74	20.52	20.55	20.78		
10	64QAM	1	25	20.69	20.54	20.66	20.64	20.49		
10	64QAM	1	49	20.71	20.58	20.64	20.69	20.58	22	2
10	64QAM	25	0	19.67	19.63	19.57	19.58	19.53		
10	64QAM	25	12	19.71	19.64	19.56	19.64	19.53		
10	64QAM	25	25	19.59	19.74	19.65	19.56	19.69		
10	64QAM	50	0	19.69	19.74	19.65	19.66	19.68	21	3
10	256QAM	1	0	17.51	17.68	17.47	17.58	17.68		
10	256QAM	1	25	17.54	17.71	17.57	17.74	17.65		
10	256QAM	1	49	17.69	17.63	17.65	17.63	17.63		
10	256QAM	25	0	17.67	17.58	17.69	17.57	17.47	19	5
10	256QAM	25	12	17.70	17.63	17.58	17.47	17.67		
10	256QAM	25	25	17.57	17.68	17.55	17.75	17.64		
10	256QAM	50	0	17.67	17.57	17.63	17.57	17.67		
Channel				39675	40148	40600	41093	41565	Tune-up time (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	22.29	22.28	22.61	22.59	22.54	24	0
5	QPSK	1	12	22.35	22.14	22.60	22.61	22.55		
5	QPSK	1	24	22.34	22.20	22.59	22.59	22.38		
5	QPSK	12	0	21.57	21.59	21.69	21.46	21.52		
5	QPSK	12	7	21.50	21.69	21.69	21.46	21.56	23	1
5	QPSK	12	13	21.52	21.67	21.66	21.65	21.60		
5	QPSK	25	0	21.49	21.62	21.66	21.55	21.49		
5	16QAM	1	0	21.52	21.49	21.72	21.31	21.48		
5	16QAM	1	12	21.46	21.49	21.64	21.47	21.50	23	1
5	16QAM	1	24	21.55	21.47	21.55	21.45	21.51		
5	16QAM	12	0	20.70	20.58	20.70	20.52	20.49		
5	16QAM	12	7	20.65	20.60	20.71	20.72	20.54		
5	16QAM	12	13	20.73	20.54	20.56	20.68	20.62	22	2
5	16QAM	25	0	20.67	20.60	20.58	20.57	20.62		
5	16QAM	25	0	20.54	20.71	20.51	20.60	20.73		
5	64QAM	1	12	20.71	20.53	20.65	20.63	20.50		
5	64QAM	1	24	20.69	20.54	20.62	20.72	20.55	22	2
5	64QAM	12	0	19.67	19.65	19.60	19.59	19.53		
5	64QAM	12	7	19.69	19.63	19.59	19.64	19.54		
5	64QAM	12	13	19.58	19.76	19.65	19.59	19.72		
5	256QAM	0	0	19.66	19.75	19.66	19.67	19.65	21	3
5	256QAM	1	0	17.53	17.70	17.49	17.59	17.69		
5	256QAM	1	12	17.52	17.68	17.55	17.73	17.64		
5	256QAM	1	24	17.66	17.59	17.64	17.60	17.61		
5	256QAM	12	0	17.70	17.55	17.67	17.55	17.48	19	5
5	256QAM	12	7	17.70	17.62	17.56	17.50	17.65		
5	256QAM	12	13	17.57	17.56	17.55	17.74	17.67		
5	256QAM	25	0	17.66	17.56	17.66	17.58	17.62		

Band 7 Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20500	21100	21500			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	22.27	22.56	22.52	24	0	
20	QPSK	1	49	22.28	22.43	22.42			
20	QPSK	1	99	22.22	22.44	22.30			
20	QPSK	50	0	21.43	21.45	21.41	23	1	
20	QPSK	50	24	21.19	21.40	21.19			
20	QPSK	50	50	21.22	21.33	21.31			
20	16QAM	1	0	21.33	21.31	21.35	23	1	
20	16QAM	1	49	21.25	21.31	21.26			
20	16QAM	1	99	21.38	21.47	21.25			
20	16QAM	50	0	20.29	20.18	20.22	22	2	
20	16QAM	50	24	20.31	20.39	20.25			
20	16QAM	50	50	20.37	20.42	20.28			
20	16QAM	100	0	20.20	20.37	20.17	22	2	
20	64QAM	1	0	20.28	20.40	20.26			
20	64QAM	1	49	20.17	20.34	20.38			
20	64QAM	1	99	20.16	20.32	20.34	21	3	
20	64QAM	50	0	19.35	19.53	19.32			
20	64QAM	50	24	19.44	19.32	19.28			
20	64QAM	50	50	19.38	19.39	19.38	19	5	
20	64QAM	100	0	19.49	19.35	19.33			
20	256QAM	1	0	17.45	17.46	17.32			
20	256QAM	1	49	17.49	17.48	17.43	19	5	
20	256QAM	1	99	17.38	17.39	17.42			
20	256QAM	50	0	17.48	17.32	17.43			
20	256QAM	50	24	17.35	17.54	17.52	19	5	
20	256QAM	50	50	17.51	17.52	17.42			
20	256QAM	100	0	17.31	17.47	17.41			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	22.21	22.43	22.41	24	0	
15	QPSK	1	37	22.20	22.31	22.32			
15	QPSK	1	74	22.14	22.35	22.20			
15	QPSK	36	0	21.32	21.32	21.26	23	1	
15	QPSK	36	20	21.09	21.28	21.11			
15	QPSK	36	39	21.09	21.26	21.27			
15	QPSK	75	0	21.11	21.27	21.22	23	1	
15	16QAM	1	0	21.23	21.35	21.27			
15	16QAM	1	37	21.19	21.21	21.17			
15	16QAM	1	74	21.25	21.35	21.12	22	2	
15	16QAM	36	0	20.19	20.09	20.14			
15	16QAM	36	20	20.20	20.31	20.12			
15	16QAM	36	39	20.25	20.30	20.15	22	2	
15	16QAM	75	0	20.12	20.24	20.10			
15	64QAM	1	0	20.20	20.27	20.14			
15	64QAM	1	37	20.09	20.27	20.31	22	2	
15	64QAM	1	74	20.08	20.21	20.22			
15	64QAM	36	0	19.23	19.41	19.21			
15	64QAM	36	20	19.34	19.21	19.18	21	3	
15	64QAM	36	39	19.29	19.31	19.30			
15	64QAM	75	0	19.38	19.25	19.29			
15	256QAM	1	0	17.37	17.37	17.23	19	5	
15	256QAM	1	37	17.38	17.35	17.29			
15	256QAM	1	74	17.27	17.29	17.33			
15	256QAM	36	0	17.42	17.26	17.33	19	5	
15	256QAM	36	20	17.26	17.41	17.41			
15	256QAM	36	39	17.44	17.41	17.35			
15	256QAM	75	0	17.21	17.38	17.32			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	22.19	22.47	22.44	24	0	
10	QPSK	1	25	22.21	22.34	22.33			
10	QPSK	1	49	22.15	22.32	22.17			
10	QPSK	25	0	21.30	21.33	21.30	23	1	
10	QPSK	25	12	21.11	21.30	21.12			
10	QPSK	25	25	21.12	21.28	21.28			
10	QPSK	50	0	21.15	21.27	21.22	23	1	
10	16QAM	1	0	21.21	21.38	21.26			
10	16QAM	1	25	21.14	21.15	21.11			
10	16QAM	1	49	21.27	21.38	21.13	22	2	
10	16QAM	25	0	20.20	20.07	20.09			
10	16QAM	25	12	20.20	20.26	20.18			
10	16QAM	25	25	20.23	20.30	20.18	22	2	
10	16QAM	50	0	20.12	20.23	20.07			
10	64QAM	1	0	20.15	20.27	20.15			
10	64QAM	1	25	20.06	20.21	20.31	22	2	
10	64QAM	1	49	20.08	20.25	20.26			
10	64QAM	25	0	19.24	19.43	19.24			
10	64QAM	25	12	19.31	19.22	19.19	21	3	
10	64QAM	25	25	19.28	19.30	19.30			
10	64QAM	50	0	19.39	19.24	19.28			
10	256QAM	1	0	17.37	17.42	17.26	19	5	
10	256QAM	1	25	17.38	17.34	17.28			
10	256QAM	1	49	17.27	17.28	17.33			
10	256QAM	25	0	17.43	17.26	17.34	19	5	
10	256QAM	25	12	17.26	17.45	17.46			
10	256QAM	25	25	17.41	17.40	17.31			
10	256QAM	50	0	17.21	17.37	17.35			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	22.20	22.43	22.42	24	0	
5	QPSK	1	12	22.19	22.33	22.28			
5	QPSK	1	24	22.11	22.31	22.18			
5	QPSK	12	0	21.30	21.31	21.27	23	1	
5	QPSK	12	7	21.14	21.28	21.13			
5	QPSK	12	13	21.11	21.27	21.24			
5	QPSK	25	0	21.11	21.22	21.23	23	1	
5	16QAM	1	0	21.21	21.34	21.28			
5	16QAM	1	12	21.17	21.16	21.12			
5	16QAM	1	24	21.28	21.35	21.13	22	2	
5	16QAM	12	0	20.17	20.08	20.12			
5	16QAM	12	7	20.20	20.26	20.14			
5	16QAM	12	13	20.23	20.27	20.19	22	2	
5	16QAM	25	0	20.13	20.23	20.10			
5	64QAM	1	0	20.14	20.26	20.11			
5	64QAM	1	12	20.09	20.24	20.30	22	2	
5	64QAM	1	24	20.05	20.23	20.28			
5	64QAM	12	0	19.22	19.40	19.22			
5	64QAM	12	7	19.34	19.23	19.21	21	3	
5	64QAM	12	13	19.30	19.29	19.32			
5	64QAM	25	0	19.36	19.20	19.24			
5	256QAM	1	0	17.35	17.36	17.23	19	5	
5	256QAM	1	12	17.36	17.33	17.32			
5	256QAM	1	24	17.26	17.29	17.33			
5	256QAM	12	0	17.40	17.24	17.36	19	5	
5	256QAM	12	7	17.27	17.44	17.45			
5	256QAM	12	13	17.41	17.44	17.33			
5	256QAM	25	0	17.20	17.35	17.35			

Band 38 Ant 6									
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				37650	38000	38150	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	22.21	22.23	22.18	24	0	
20	QPSK	1	49	22.16	22.10	22.11			
20	QPSK	1	99	22.16	22.14	22.07			
20	QPSK	50	0	21.13	21.19	21.16			
20	QPSK	50	24	21.12	21.00	21.05	23	1	
20	QPSK	50	50	21.05	21.09	21.07			
20	QPSK	100	0	21.03	21.19	21.06			
20	16QAM	1	0	21.07	21.15	21.05			
20	16QAM	1	49	21.07	21.16	21.12	23	1	
20	16QAM	1	99	21.10	21.04	21.14			
20	16QAM	50	0	20.27	20.25	20.34			
20	16QAM	50	24	20.25	20.30	20.37			
20	16QAM	50	50	20.44	20.38	20.45	22	2	
20	16QAM	100	0	20.38	20.21	20.27			
20	64QAM	1	0	20.32	20.39	20.42			
20	64QAM	1	49	20.33	20.32	20.43			
20	64QAM	1	99	20.29	20.41	20.28	22	2	
20	64QAM	50	0	19.39	19.47	19.41			
20	64QAM	50	24	19.29	19.40	19.34			
20	64QAM	50	50	19.24	19.31	19.34			
20	64QAM	100	0	19.20	19.31	19.25	21	3	
20	256QAM	1	0	17.24	17.39	17.36			
20	256QAM	1	49	17.45	17.45	17.38			
20	256QAM	1	99	17.43	17.33	17.36			
20	256QAM	36	39	17.39	17.48	17.22	19	5	
20	256QAM	50	0	17.39	17.48	17.22			
20	256QAM	50	24	17.45	17.47	17.46			
20	256QAM	50	50	17.26	17.29	17.27			
20	256QAM	100	0	17.37	17.39	17.25	19	5	
Channel				37625	38000	38175			
Frequency (MHz)				25775	2595	2612.5			
15	QPSK	1	0	22.19	22.21	22.14			
15	QPSK	1	37	22.13	22.08	22.11			
15	QPSK	1	74	22.14	22.13	22.08			
15	QPSK	36	0	21.11	21.15	21.15			
15	QPSK	36	20	21.09	21.01	21.06	23	1	
15	QPSK	36	39	21.06	21.07	21.03			
15	QPSK	75	0	21.03	21.15	21.02			
15	16QAM	1	0	21.06	21.15	21.04			
15	16QAM	1	37	21.09	21.16	21.08	23	1	
15	16QAM	1	74	21.06	21.03	21.11			
15	16QAM	36	0	20.28	20.25	20.33			
15	16QAM	36	20	20.25	20.27	20.34			
15	16QAM	36	39	20.43	20.34	20.42	22	2	
15	16QAM	75	0	20.37	20.22	20.28			
15	64QAM	1	0	20.34	20.37	20.43			
15	64QAM	1	37	20.33	20.30	20.44			
15	64QAM	1	74	20.29	20.40	20.27	22	2	
15	64QAM	36	0	19.38	19.43	19.41			
15	64QAM	36	20	19.29	19.41	19.30			
15	64QAM	36	39	19.22	19.30	19.35			
15	64QAM	75	0	19.21	19.28	19.25	21	3	
15	256QAM	1	0	17.26	17.36	17.33			
15	256QAM	1	37	17.44	17.42	17.37			
15	256QAM	1	74	17.43	17.33	17.33			
15	256QAM	36	0	17.40	17.45	17.21	19	5	
15	256QAM	36	20	17.44	17.49	17.42			
15	256QAM	36	39	17.27	17.28	17.25			
15	256QAM	75	0	17.37	17.38	17.26			
Channel				37600	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				25750	25950	26150	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	22.21	22.15	22.15			
10	QPSK	1	25	22.13	22.08	22.13	24	0	
10	QPSK	1	49	22.17	22.21	22.05			
10	QPSK	25	0	21.09	21.17	21.12			
10	QPSK	25	12	21.11	21.13	21.05			
10	QPSK	25	25	21.06	21.09	21.03	23	1	
10	QPSK	50	0	21.01	21.19	21.03			
10	16QAM	1	0	21.03	21.15	21.02			
10	16QAM	1	25	21.05	21.13	21.10			
10	16QAM	1	49	21.11	21.00	21.12	23	1	
10	16QAM	25	0	20.24	20.23	20.30			
10	16QAM	25	12	20.22	20.30	20.35			
10	16QAM	25	25	20.43	20.39	20.46			
10	16QAM	50	0	20.36	20.22	20.24	22	2	
10	64QAM	1	0	20.28	20.39	20.41			
10	64QAM	1	25	20.34	20.33	20.43			
10	64QAM	1	49	20.28	20.40	20.29			
10	64QAM	25	0	19.41	19.46	19.38	22	2	
10	64QAM	25	12	19.25	19.37	19.32			
10	64QAM	25	25	19.22	19.29	19.32			
10	64QAM	50	0	19.16	19.32	19.21			
10	256QAM	1	0	17.25	17.40	17.35	21	3	
10	256QAM	1	25	17.46	17.48	17.35			
10	256QAM	1	49	17.48	17.48	17.36			
10	256QAM	25	0	17.36	17.49	17.22			
10	256QAM	25	12	17.41	17.45	17.42	19	5	
10	256QAM	25	25	17.26	17.26	17.26			
10	256QAM	50	0	17.38	17.39	17.25			
Channel				37775	38000	38225			
Frequency (MHz)				25925	2595	2617.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	22.18	22.16	22.14	24	0	
5	QPSK	1	12	22.16	22.11	22.08			
5	QPSK	1	24	22.15	22.11	22.08			
5	QPSK	12	0	21.13	21.17	21.12			
5	QPSK	12	7	21.09	21.00	21.01	23	1	
5	QPSK	12	13	21.01	21.05	21.08			
5	QPSK	25	0	21.02	21.17	21.05			
5	16QAM	1	0	21.08	21.11	21.01			
5	16QAM	1	12	21.04	21.14	21.08	23	1	
5	16QAM	1	24	21.07	21.04	21.14			
5	16QAM	12	0	20.27	20.24	20.33			
5	16QAM	12	7	20.24	20.29	20.33			
5	16QAM	12	13	20.41	20.39	20.47	22	2	
5	16QAM	25	0	20.38	20.19	20.24			
5	64QAM	1	0	20.31	20.35	20.42			
5	64QAM	1	12	20.34	20.32	20.41			
5	64QAM	1	24	20.26	20.40	20.27	22	2	
5	64QAM	12	0	19.39	19.43	19.42			
5	64QAM	12	7	19.29	19.41	19.31			
5	64QAM	12	13	19.24	19.29	19.33			
5	64QAM	25	0	19.21	19.32	19.21	21	3	
5	256QAM	1	0	17.25	17.38	17.35			
5	256QAM	1	12	17.44	17.42	17.38			
5	256QAM	1	24	17.43	17.31	17.37			
5	256QAM	12	0	17.38	17.49	17.22	19	5	
5	256QAM	12	7	17.41	17.44	17.44			
5	256QAM	12	13	17.26	17.30	17.25			
5	256QAM	25	0	17.34	17.39	17.21			

Band 7 Ant 7									
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				20650	21100	21600			
Frequency (MHz)				2610	2636	2660			
20	QPSK	1	0	20.41	20.49	20.41	22	0	
20	QPSK	1	49	20.21	20.24	20.16			
20	QPSK	1	99	20.25	20.44	20.39			
20	QPSK	50	0	19.27	19.43	19.35	21	1	
20	QPSK	50	24	19.37	19.41	19.40			
20	QPSK	50	50	19.33	19.36	19.26			
20	QPSK	100	0	19.24	19.50	19.39	21	1	
20	16QAM	1	0	19.37	19.40	19.28			
20	16QAM	1	49	19.20	19.35	19.22			
20	16QAM	1	99	19.24	19.30	19.25	20	2	
20	16QAM	50	0	18.18	18.35	18.32			
20	16QAM	50	24	18.31	18.34	18.18			
20	16QAM	50	50	18.26	18.35	18.28	20	2	
20	16QAM	100	0	18.38	18.31	18.27			
20	64QAM	1	0	18.31	18.17	18.26			
20	64QAM	1	49	18.25	18.23	18.14	19	3	
20	64QAM	1	99	18.30	18.18	18.20			
20	64QAM	50	0	17.26	17.44	17.40			
20	64QAM	50	24	17.43	17.34	17.28	17	5	
20	64QAM	50	50	17.22	17.44	17.42			
20	64QAM	100	0	17.42	17.22	17.38			
20	256QAM	1	0	15.33	15.27	15.39	17	5	
20	256QAM	1	49	15.39	15.36	15.30			
20	256QAM	1	99	15.31	15.23	15.46			
20	256QAM	50	0	15.35	15.38	15.38	17	5	
20	256QAM	50	24	15.36	15.22	15.26			
20	256QAM	50	50	15.45	15.28	15.32			
20	256QAM	100	0	15.36	15.37	15.41			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	20.39	20.46	20.38	22	0	
15	QPSK	1	37	20.18	20.25	20.22			
15	QPSK	1	74	20.30	20.43	20.37			
15	QPSK	36	0	19.25	19.44	19.30	21	1	
15	QPSK	36	20	19.34	19.38	19.36			
15	QPSK	36	39	19.30	19.39	19.27			
15	QPSK	75	0	19.24	19.51	19.37	21	1	
15	16QAM	1	0	19.40	19.43	19.24			
15	16QAM	1	37	19.20	19.36	19.22			
15	16QAM	1	74	19.23	19.30	19.23	20	2	
15	16QAM	36	0	18.16	18.31	18.32			
15	16QAM	36	20	18.28	18.38	18.17			
15	16QAM	36	39	18.25	18.31	18.23	19	3	
15	16QAM	75	0	18.35	18.33	18.29			
15	64QAM	1	0	18.28	18.17	18.27			
15	64QAM	1	37	18.25	18.24	18.13	17	5	
15	64QAM	1	74	18.33	18.20	18.17			
15	64QAM	36	0	17.28	17.44	17.38			
15	64QAM	36	20	17.38	17.32	17.30	17	5	
15	64QAM	36	39	17.24	17.41	17.38			
15	64QAM	75	0	17.44	17.24	17.34			
15	256QAM	1	0	15.35	15.24	15.36	17	5	
15	256QAM	1	37	15.41	15.37	15.28			
15	256QAM	1	74	15.30	15.24	15.43			
15	256QAM	36	0	15.32	15.39	15.37	17	5	
15	256QAM	36	20	15.34	15.24	15.29			
15	256QAM	36	39	15.46	15.30	15.35			
15	256QAM	75	0	15.39	15.38	15.42			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	20.39	20.46	20.35	22	0	
10	QPSK	1	25	20.30	20.25	20.19			
10	QPSK	1	49	20.26	20.40	20.38			
10	QPSK	25	0	19.25	19.40	19.31	21	1	
10	QPSK	25	12	19.38	19.36	19.40			
10	QPSK	25	25	19.32	19.37	19.25			
10	QPSK	50	0	19.23	19.51	19.40	21	1	
10	16QAM	1	0	19.41	19.41	19.29			
10	16QAM	1	25	19.24	19.37	19.21			
10	16QAM	1	49	19.25	19.30	19.24	20	2	
10	16QAM	25	0	18.17	18.28	18.32			
10	16QAM	25	12	18.28	18.37	18.18			
10	16QAM	25	25	18.21	18.34	18.24	19	3	
10	16QAM	50	0	18.34	18.32	18.27			
10	64QAM	1	0	18.30	18.19	18.23			
10	64QAM	1	25	18.21	18.19	18.10	17	5	
10	64QAM	1	49	18.33	18.19	18.19			
10	64QAM	25	0	17.30	17.43	17.42			
10	64QAM	25	12	17.42	17.31	17.27	17	5	
10	64QAM	25	25	17.22	17.43	17.43			
10	64QAM	50	0	17.44	17.25	17.37			
10	256QAM	1	0	15.36	15.24	15.40	17	5	
10	256QAM	1	25	15.38	15.36	15.29			
10	256QAM	1	49	15.30	15.24	15.44			
10	256QAM	25	0	15.33	15.37	15.39	17	5	
10	256QAM	25	12	15.38	15.25	15.30			
10	256QAM	25	25	15.43	15.30	15.31			
10	256QAM	50	0	15.41	15.37	15.43			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	20.38	20.43	20.37	22	0	
5	QPSK	1	12	20.21	20.24	20.19			
5	QPSK	1	24	20.29	20.42	20.41			
5	QPSK	12	0	19.24	19.44	19.33	21	1	
5	QPSK	12	7	19.35	19.38	19.37			
5	QPSK	12	13	19.34	19.40	19.26			
5	QPSK	25	0	19.28	19.50	19.39	21	1	
5	16QAM	1	0	19.40	19.44	19.24			
5	16QAM	1	12	19.23	19.36	19.20			
5	16QAM	1	24	19.25	19.29	19.24	20	2	
5	16QAM	12	0	18.16	18.34	18.33			
5	16QAM	12	7	18.27	18.35	18.20			
5	16QAM	12	13	18.23	18.31	18.29	19	3	
5	16QAM	25	0	18.37	18.28	18.24			
5	64QAM	1	0	18.28	18.20	18.21			
5	64QAM	1	12	18.22	18.18	18.11	17	5	
5	64QAM	1	24	18.32	18.19	18.18			
5	64QAM	12	0	17.29	17.41	17.40			
5	64QAM	12	7	17.42	17.31	17.27	17	5	
5	64QAM	12	13	17.18	17.41	17.38			
5	64QAM	25	0	17.43	17.25	17.35			
5	256QAM	1	0	15.35	15.22	15.37	17	5	
5	256QAM	1	12	15.43	15.33	15.31			
5	256QAM	1	24	15.27	15.26	15.42			
5	256QAM	12	0	15.31	15.38	15.37	17	5	
5	256QAM	12	7	15.33	15.23	15.30			
5	256QAM	12	13	15.42	15.29	15.35			
5	256QAM	25	0	15.37	15.38	15.43			

Band 38 Ant 7									
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	22.5	0	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	21.23	21.27	21.16	21.5	1	
20	QPSK	1	49	21.15	21.10	21.10			
20	QPSK	1	99	21.03	21.16	21.04			
20	QPSK	50	0	20.21	20.25	20.16	21.5	1	
20	QPSK	50	24	20.20	20.17	20.24			
20	QPSK	50	50	20.18	20.12	20.06			
20	QPSK	100	0	20.17	20.27	20.20	21.5	1	
20	16QAM	1	0	20.26	20.25	20.28			
20	16QAM	1	49	20.14	20.08	20.23			
20	16QAM	1	99	20.19	20.23	20.24	20.5	2	
20	16QAM	50	0	19.12	19.10	19.11			
20	16QAM	50	24	19.18	19.02	19.24			
20	16QAM	50	50	19.18	19.22	19.24	20.5	2	
20	16QAM	100	0	19.11	19.24	19.02			
20	64QAM	1	0	19.25	19.04	19.17			
20	64QAM	1	49	19.10	19.03	19.01	20.5	2	
20	64QAM	1	99	19.16	19.25	19.26			
20	64QAM	50	0	18.20	18.14	18.01			
20	64QAM	50	24	18.02	18.13	18.04	19.5	3	
20	64QAM	50	50	18.10	18.14	18.15			
20	64QAM	100	0	18.02	18.24	18.23			
20	256QAM	1	0	16.09	16.18	16.08	17.5	5	
20	256QAM	1	49	16.09	16.21	16.17			
20	256QAM	1	99	16.06	16.15	16.06			
20	256QAM	50	0	16.07	16.10	16.26	17.5	5	
20	256QAM	50	24	16.25	16.07	16.10			
20	256QAM	50	50	16.02	16.07	16.11			
20	256QAM	100	0	16.18	16.10	16.05	Tune-up limit (dbm)	MPR (db)	
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5	22.5	0	
15	QPSK	1	0	21.19	21.26	21.12			
15	QPSK	1	37	21.17	21.11	21.13	21.5	1	
15	QPSK	1	74	21.07	21.14	21.01			
15	QPSK	36	0	20.20	20.26	20.14	21.5	1	
15	QPSK	36	20	20.26	20.15	20.24			
15	QPSK	36	39	20.14	20.12	20.06	21.5	1	
15	QPSK	75	0	20.17	20.28	20.20			
15	16QAM	1	0	20.28	20.04	20.25	21.5	1	
15	16QAM	1	37	20.13	20.06	20.28			
15	16QAM	1	74	20.22	20.22	20.25	20.5	2	
15	16QAM	36	0	19.14	19.10	19.10			
15	16QAM	36	20	19.21	19.08	19.25	20.5	2	
15	16QAM	36	39	19.21	19.25	19.22			
15	16QAM	75	0	19.08	19.25	19.06	20.5	2	
15	64QAM	1	0	19.30	19.02	19.17			
15	64QAM	1	37	19.08	19.05	19.02	19.5	3	
15	64QAM	1	74	19.14	19.20	19.25			
15	64QAM	36	0	18.25	18.15	18.05	17.5	5	
15	64QAM	36	20	18.06	18.18	18.10			
15	64QAM	36	39	18.12	18.11	18.17	17.5	5	
15	64QAM	75	0	18.04	18.20	18.22			
15	256QAM	1	0	16.10	16.19	16.04	17.5	5	
15	256QAM	1	37	16.11	16.22	16.20			
15	256QAM	1	74	16.06	16.17	16.08	17.5	5	
15	256QAM	36	0	16.08	16.10	16.25			
15	256QAM	36	20	16.21	16.09	16.11	Tune-up limit (dbm)	MPR (db)	
15	256QAM	36	39	16.06	16.09	16.05			
15	256QAM	75	0	16.17	16.15	16.04	22.5	0	
Channel				37900	38000	38200			
Frequency (MHz)				2575	2595	2615	21.5	1	
10	QPSK	1	0	21.19	21.20	21.12			
10	QPSK	1	25	21.14	21.12	21.13	21.5	1	
10	QPSK	1	49	21.04	21.13	21.02			
10	QPSK	25	0	20.18	20.26	20.11	21.5	1	
10	QPSK	25	12	20.25	20.18	20.21			
10	QPSK	25	25	20.14	20.14	20.05	21.5	1	
10	QPSK	50	0	20.15	20.23	20.16			
10	16QAM	1	0	20.31	20.29	20.25	21.5	1	
10	16QAM	1	25	20.16	20.10	20.25			
10	16QAM	1	49	20.22	20.22	20.19	20.5	2	
10	16QAM	25	0	19.17	19.09	19.15			
10	16QAM	25	12	19.23	19.05	19.26	20.5	2	
10	16QAM	25	25	19.21	19.24	19.25			
10	16QAM	50	0	19.07	19.28	19.03	20.5	2	
10	64QAM	1	0	19.28	19.07	19.14			
10	64QAM	1	25	19.12	19.04	19.00	19.5	3	
10	64QAM	1	49	19.14	19.22	19.25			
10	64QAM	25	0	18.19	18.13	18.01	17.5	5	
10	64QAM	25	12	18.07	18.16	18.10			
10	64QAM	25	25	18.08	18.16	18.15	17.5	5	
10	64QAM	50	0	18.03	18.21	18.23			
10	256QAM	1	0	16.06	16.15	16.05	17.5	5	
10	256QAM	1	25	16.09	16.25	16.23			
10	256QAM	1	49	16.05	16.18	16.05	17.5	5	
10	256QAM	25	0	16.05	16.14	16.26			
10	256QAM	25	12	16.21	16.11	16.05	17.5	5	
10	256QAM	25	25	16.01	16.11	16.08			
10	256QAM	50	0	16.15	16.15	16.04	Tune-up limit (dbm)	MPR (db)	
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5	22.5	0	
5	QPSK	1	0	21.20	21.20	21.12			
5	QPSK	1	12	21.17	21.12	21.10	21.5	1	
5	QPSK	1	24	21.04	21.11	21.00			
5	QPSK	12	0	20.20	20.24	20.12	21.5	1	
5	QPSK	12	7	20.22	20.13	20.19			
5	QPSK	12	13	20.16	20.14	20.02	21.5	1	
5	QPSK	25	0	20.16	20.28	20.18			
5	16QAM	1	0	20.29	20.25	20.26	21.5	1	
5	16QAM	1	12	20.16	20.09	20.24			
5	16QAM	1	24	20.19	20.20	20.19	20.5	2	
5	16QAM	12	0	19.14	19.07	19.14			
5	16QAM	12	7	19.22	19.08	19.27	20.5	2	
5	16QAM	12	13	19.18	19.24	19.23			
5	16QAM	25	0	19.12	19.24	19.07	20.5	2	
5	64QAM	1	0	19.26	19.07	19.18			
5	64QAM	1	12	19.12	19.03	19.02	19.5	3	
5	64QAM	1	24	19.14	19.22	19.24			
5	64QAM	12	0	18.22	18.13	18.03	17.5	5	
5	64QAM	12	7	18.04	18.17	18.05			
5	64QAM	12	13	18.11	18.10	18.16	17.5	5	
5	64QAM	25	0	18.02	18.22	18.21			
5	256QAM	1	0	16.09	16.18	16.03	17.5	5	
5	256QAM	1	12	16.10	16.23	16.22			
5	256QAM	1	24	16.08	16.18	16.05	17.5	5	
5	256QAM	12	0	16.04	16.09	16.26			
5	256QAM	12	7	16.25	16.10	16.11	17.5	5	
5	256QAM	12	13	16.02	16.10	16.10			
5	256QAM	25	0	16.18	16.10	16.04	Tune-up limit (dbm)	MPR (db)	
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5			



Band 42 FCC Ant 8											
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				43190	43340	43490					
Frequency (MHz)				3560	3575	3590					
20	QPSK	1	0	20.75	20.83	20.78	22	0			
20	QPSK	1	49	20.58	20.62	20.62					
20	QPSK	1	99	20.73	20.73	20.71					
20	QPSK	50	0	20.60	20.64	20.64	22	0			
20	QPSK	50	24	20.66	20.53	20.65					
20	QPSK	50	50	20.60	20.68	20.69					
20	QPSK	100	0	20.61	20.67	20.65	22	0			
20	16QAM	1	0	20.68	20.76	20.84					
20	16QAM	1	49	20.53	20.55	20.55					
20	16QAM	1	99	20.66	20.58	20.61	22	0			
20	16QAM	50	0	20.51	20.69	20.52					
20	16QAM	50	24	20.53	20.58	20.63					
20	16QAM	50	50	20.55	20.64	20.64	22	0			
20	16QAM	100	0	20.49	20.61	20.51					
20	64QAM	1	0	20.70	20.72	20.71	22	0			
20	64QAM	1	49	20.52	20.53	20.58					
20	64QAM	1	99	20.69	20.64	20.65					
20	64QAM	50	0	20.29	20.32	20.32	21.5	0.5			
20	64QAM	50	24	20.08	20.06	20.15					
20	64QAM	50	50	20.21	20.18	20.23					
20	64QAM	100	0	20.06	20.19	20.10	19.5	2.5			
20	256QAM	1	0	18.24	18.39	18.32					
20	256QAM	1	49	18.08	18.15	18.09					
20	256QAM	1	99	18.19	18.19	18.23	19.5	2.5			
20	256QAM	50	0	18.10	18.29	18.14					
20	256QAM	50	24	18.18	18.17	18.20					
20	256QAM	50	50	18.06	18.22	18.19	22	0			
20	256QAM	100	0	18.16	18.15	18.09					
Channel				43165	43340	43515	Tune-up limit (dBm)			MPR (dB)	
Frequency (MHz)				3557.5	3576	3592.5					
15	QPSK	1	0	20.63	20.79	20.65	22	0			
15	QPSK	1	37	20.46	20.57	20.55					
15	QPSK	1	74	20.63	20.65	20.65					
15	QPSK	36	0	20.50	20.69	20.56	22	0			
15	QPSK	36	20	20.59	20.55	20.61					
15	QPSK	36	39	20.53	20.54	20.64					
15	QPSK	75	0	20.56	20.58	20.49	22	0			
15	16QAM	1	0	20.53	20.62	20.59					
15	16QAM	1	37	20.44	20.43	20.47					
15	16QAM	1	74	20.61	20.46	20.58	22	0			
15	16QAM	36	0	20.38	20.60	20.46					
15	16QAM	36	20	20.44	20.47	20.59					
15	16QAM	36	39	20.46	20.49	20.55	22	0			
15	16QAM	75	0	20.44	20.56	20.40					
15	64QAM	1	0	20.56	20.64	20.58	22	0			
15	64QAM	1	37	20.48	20.50	20.45					
15	64QAM	1	74	20.65	20.51	20.57					
15	64QAM	36	0	20.17	20.17	20.22	21.5	0.5			
15	64QAM	36	20	19.95	19.92	20.10					
15	64QAM	36	39	20.11	20.12	20.12					
15	64QAM	75	0	18.94	18.15	18.98	19.5	2.5			
15	256QAM	1	0	18.10	18.35	18.26					
15	256QAM	1	37	17.96	18.10	17.95					
15	256QAM	1	74	18.14	18.10	18.13	19.5	2.5			
15	256QAM	36	0	17.98	18.15	18.09					
15	256QAM	36	20	18.10	18.05	18.09					
15	256QAM	36	39	17.93	18.08	18.05	22	0			
15	256QAM	75	0	18.11	18.11	18.00					
Channel				43160	43340	43520	Tune-up limit (dBm)			MPR (dB)	
Frequency (MHz)				3555	3575	3595					
10	QPSK	1	0	20.64	20.78	20.64	22	0			
10	QPSK	1	25	20.49	20.49	20.48					
10	QPSK	1	49	20.68	20.61	20.80					
10	QPSK	25	0	20.46	20.67	20.53	22	0			
10	QPSK	25	12	20.63	20.52	20.57					
10	QPSK	25	25	20.54	20.54	20.56					
10	QPSK	50	0	20.47	20.53	20.49	22	0			
10	16QAM	1	0	20.63	20.63	20.52					
10	16QAM	1	25	20.39	20.42	20.44					
10	16QAM	1	49	20.51	20.49	20.49	22	0			
10	16QAM	25	0	20.45	20.57	20.38					
10	16QAM	25	12	20.42	20.49	20.49					
10	16QAM	25	25	20.44	20.59	20.53	22	0			
10	16QAM	50	0	20.37	20.48	20.46					
10	64QAM	1	0	20.65	20.59	20.58					
10	64QAM	1	25	20.46	20.40	20.52	22	0			
10	64QAM	1	49	20.65	20.54	20.52					
10	64QAM	25	0	20.19	20.22	20.20					
10	64QAM	25	12	19.96	19.94	20.04	21.5	0.5			
10	64QAM	25	25	20.14	20.15	20.15					
10	64QAM	50	0	19.95	20.06	20.04					
10	256QAM	1	0	18.17	18.34	18.24	19.5	2.5			
10	256QAM	1	25	17.98	18.08	17.96					
10	256QAM	1	49	18.15	18.08	18.17					
10	256QAM	25	0	17.95	18.24	18.08	19.5	2.5			
10	256QAM	25	12	18.08	18.14	18.10					
10	256QAM	25	25	17.99	18.10	18.13					
10	256QAM	50	0	18.11	18.09	17.99	Tune-up limit (dBm)				
Channel				43115	43340	43565	Tune-up limit (dBm)			MPR (dB)	
Frequency (MHz)				3552.5	3575	3597.5					
5	QPSK	1	0	20.60	20.71	20.65	22	0			
5	QPSK	1	12	20.53	20.49	20.54					
5	QPSK	1	24	20.61	20.69	20.59					
5	QPSK	12	0	20.52	20.68	20.60	22	0			
5	QPSK	12	7	20.57	20.57	20.65					
5	QPSK	12	13	20.50	20.53	20.62					
5	QPSK	25	0	20.50	20.53	20.46	22	0			
5	16QAM	1	0	20.63	20.67	20.53					
5	16QAM	1	12	20.48	20.41	20.47					
5	16QAM	1	24	20.51	20.46	20.55	22	0			
5	16QAM	12	0	20.36	20.58	20.44					
5	16QAM	12	7	20.50	20.54	20.52					
5	16QAM	12	13	20.50	20.53	20.57	22	0			
5	16QAM	25	0	20.46	20.50	20.40					
5	64QAM	1	0	20.62	20.65	20.66					
5	64QAM	1	12	20.39	20.42	20.49	22	0			
5	64QAM	1	24	20.56	20.55	20.50					
5	64QAM	12	0	20.17	20.24	20.23					
5	64QAM	12	7	19.95	20.02	20.05	21.5	0.5			
5	64QAM	12	13	20.06	20.06	20.19					
5	64QAM	25	0	20.01	20.11	20.06					
5	256QAM	1	0	18.10	18.27	18.22	19.5	2.5			
5	256QAM	1	12	17.97	18.06	18.00					
5	256QAM	1	24	18.05	18.10	18.16					
5	256QAM	12	0	17.96	18.20	17.99	19.5	2.5			
5	256QAM	12	7	18.03	18.07	18.11					
5	256QAM	12	13	17.93	18.14	18.14					
5	256QAM	25	0	18.07	18.12	17.98					

Band 42 FCC Part27Q Ant 8									
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				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	20.81	20.86	20.84	22	0	
20	QPSK	1	49	20.67	20.73	20.76			
20	QPSK	1	99	20.77	20.82	20.79			
20	QPSK	50	0	20.72	20.80	20.73	22	0	
20	QPSK	50	24	20.74	20.77	20.75			
20	QPSK	50	50	20.71	20.73	20.80			
20	QPSK	100	0	20.74	20.79	20.69	22	0	
20	16QAM	1	0	20.71	20.71	20.81			
20	16QAM	1	49	20.61	20.61	20.66			
20	16QAM	1	99	20.63	20.71	20.69	22	0	
20	16QAM	50	0	20.60	20.73	20.60			
20	16QAM	50	24	20.70	20.67	20.70			
20	16QAM	50	50	20.67	20.69	20.70	22	0	
20	16QAM	100	0	20.67	20.65	20.63			
20	64QAM	1	0	20.75	20.73	20.82			
20	64QAM	1	49	20.53	20.65	20.70	22	0	
20	64QAM	1	99	20.67	20.68	20.68			
20	64QAM	50	0	20.27	20.36	20.38			
20	64QAM	50	24	20.16	20.18	20.31	21.5	0.5	
20	64QAM	50	50	20.27	20.27	20.27			
20	64QAM	100	0	20.22	20.33	20.28			
20	256QAM	1	0	18.35	18.38	18.35	19.5	2.5	
20	256QAM	1	49	18.21	18.21	18.26			
20	256QAM	1	99	18.24	18.27	18.27			
20	256QAM	50	0	18.23	18.29	18.22	19.5	2.5	
20	256QAM	50	24	18.18	18.30	18.27			
20	256QAM	50	50	18.20	18.29	18.26			
20	256QAM	100	0	18.24	18.34	18.18	19.5	2.5	
Channel				42165	42590	43015			
Frequency (MHz)				317.5	3200	3242.5			
15	QPSK	1	0	20.61	20.82	20.13	22	0	
15	QPSK	1	37	20.56	20.59	20.65			
15	QPSK	1	74	20.74	20.78	20.71			
15	QPSK	36	0	20.61	20.68	20.68	22	0	
15	QPSK	36	20	20.61	20.69	20.70			
15	QPSK	36	39	20.65	20.58	20.74			
15	QPSK	72	0	20.66	20.66	20.66	22	0	
15	16QAM	1	0	20.67	20.80	20.69			
15	16QAM	1	37	20.56	20.61	20.60			
15	16QAM	1	74	20.54	20.57	20.62	22	0	
15	16QAM	36	0	20.52	20.65	20.53			
15	16QAM	36	20	20.52	20.52	20.65			
15	16QAM	36	39	20.57	20.59	20.63	22	0	
15	16QAM	75	0	20.58	20.53	20.50			
15	64QAM	1	0	20.63	20.66	20.60			
15	64QAM	1	37	20.47	20.53	20.66	22	0	
15	64QAM	1	74	20.53	20.61	20.55			
15	64QAM	36	0	20.14	20.32	20.25			
15	64QAM	36	20	20.05	20.13	20.22	21.5	0.5	
15	64QAM	36	39	20.21	20.14	20.19			
15	64QAM	75	0	20.14	20.19	20.14			
15	256QAM	1	0	18.28	18.25	18.24	19.5	2.5	
15	256QAM	1	37	18.18	18.12	18.12			
15	256QAM	1	74	18.13	18.15	18.13			
15	256QAM	36	0	18.13	18.19	18.11	19.5	2.5	
15	256QAM	36	20	18.05	18.24	18.15			
15	256QAM	36	39	18.13	18.20	18.15			
15	256QAM	75	0	18.21	18.25	18.11	21	0	
Channel				42160	42590	43010			
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	20.77	20.78	20.75	22	0	
10	QPSK	1	25	20.58	20.62	20.71			
10	QPSK	1	49	20.68	20.70	20.75			
10	QPSK	25	0	20.61	20.70	20.58	22	0	
10	QPSK	25	12	20.61	20.67	20.67			
10	QPSK	25	25	20.60	20.62	20.71			
10	QPSK	50	0	20.71	20.70	20.58	22	0	
10	16QAM	1	0	20.59	20.63	20.66			
10	16QAM	1	25	20.48	20.58	20.56			
10	16QAM	1	49	20.49	20.59	20.55	22	0	
10	16QAM	25	0	20.46	20.67	20.62			
10	16QAM	25	12	20.65	20.59	20.62			
10	16QAM	25	25	20.54	20.58	20.56	22	0	
10	64QAM	1	0	20.62	20.62	20.60			
10	64QAM	1	25	20.44	20.60	20.54			
10	64QAM	1	49	20.63	20.63	20.57	22	0	
10	64QAM	25	0	20.22	20.27	20.33			
10	64QAM	25	12	20.09	20.11	20.28			
10	64QAM	25	25	20.16	20.23	20.29	21.5	0.5	
10	64QAM	50	0	20.12	20.30	20.13			
10	256QAM	1	0	18.29	18.23	18.23			
10	256QAM	1	25	18.12	18.09	18.13	19.5	2.5	
10	256QAM	1	49	18.12	18.22	18.19			
10	256QAM	25	0	18.14	18.20	18.14			
10	256QAM	25	12	18.12	18.23	18.16	19.5	2.5	
10	256QAM	25	25	18.15	18.19	18.16			
10	256QAM	50	0	18.16	18.21	18.17			
Channel				42115	42590	43065			
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	20.73	20.72	20.79	22	0	
5	QPSK	1	12	20.61	20.67	20.65			
5	QPSK	1	24	20.68	20.68	20.68			
5	QPSK	12	0	20.62	20.77	20.61	22	0	
5	QPSK	12	7	20.59	20.69	20.68			
5	QPSK	12	13	20.57	20.61	20.68			
5	QPSK	25	0	20.70	20.73	20.62	22	0	
5	16QAM	1	0	20.58	20.62	20.77			
5	16QAM	1	12	20.40	20.54	20.56			
5	16QAM	1	24	20.49	20.61	20.56	22	0	
5	16QAM	12	0	20.50	20.60	20.49			
5	16QAM	12	7	20.63	20.53	20.59			
5	16QAM	12	13	20.57	20.63	20.56	22	0	
5	16QAM	25	0	20.55	20.54	20.51			
5	64QAM	1	0	20.66	20.65	20.58			
5	64QAM	1	12	20.46	20.60	20.59	22	0	
5	64QAM	1	24	20.54	20.59	20.53			
5	64QAM	12	0	20.22	20.26	20.25			
5	64QAM	12	7	20.04	20.14	20.23	21.5	0.5	
5	64QAM	12	13	20.24	20.20	20.21			
5	64QAM	25	0	20.18	20.29	20.20			
5	256QAM	1	0	18.30	18.25	18.23	19.5	2.5	
5	256QAM	1	12	18.08	18.10	18.13			
5	256QAM	1	24	18.13	18.23	18.20			
5	256QAM	12	0	18.10	18.24	18.08	19.5	2.5	
5	256QAM	12	7	18.14	18.18	18.14			
5	256QAM	12	13	18.12	18.16	18.11			
5	256QAM	25	0	18.13	18.28	18.14	19.5	2.5	

Band 43 Ant 8									
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									
Frequency (MHz)				44199	44599	44999			
20	QPSK	1	0	20.84	20.91	20.86			
20	QPSK	1	49	20.74	20.78	20.78	22	0	
20	QPSK	1	99	20.67	20.78	20.82			
20	QPSK	50	0	20.78	20.85	20.78			
20	QPSK	50	24	20.87	20.83	20.83	22	0	
20	QPSK	50	50	20.73	20.73	20.80			
20	QPSK	100	0	20.61	20.80	20.67			
20	16QAM	1	0	20.73	20.84	20.73			
20	16QAM	1	49	20.69	20.75	20.65	22	0	
20	16QAM	1	99	20.56	20.85	20.65			
20	16QAM	50	0	20.73	20.81	20.71			
20	16QAM	50	24	20.58	20.73	20.63	22	0	
20	16QAM	50	50	20.60	20.59	20.67			
20	16QAM	100	0	20.51	20.67	20.52			
20	64QAM	1	0	20.74	20.82	20.81	22	0	
20	64QAM	1	49	20.66	20.73	20.74			
20	64QAM	1	99	20.55	20.68	20.72			
20	64QAM	50	0	20.37	20.40	20.38			
20	64QAM	50	24	20.19	20.26	20.33	21.5	0.5	
20	64QAM	50	50	20.14	20.32	20.34			
20	64QAM	100	0	20.22	20.36	20.36			
20	256QAM	1	0	18.30	18.43	18.32			
20	256QAM	1	49	18.22	18.23	18.27	19.5	2.5	
20	256QAM	1	99	18.21	18.29	18.28			
20	256QAM	50	0	18.33	18.31	18.29			
20	256QAM	50	24	18.16	18.34	18.27	19.5	2.5	
20	256QAM	50	50	18.19	18.29	18.34			
20	256QAM	100	0	18.12	18.36	18.12			
Frequency (MHz)				44165	44599	45015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3607.5	3650	3692.5			
15	QPSK	1	0	20.71	20.81	20.73			
15	QPSK	1	37	20.81	20.70	20.73	22	0	
15	QPSK	1	74	20.63	20.74	20.70			
15	QPSK	36	0	20.63	20.74	20.65			
15	QPSK	36	20	20.63	20.69	20.61	22	0	
15	QPSK	36	39	20.61	20.60	20.76			
15	QPSK	75	0	20.51	20.74	20.62			
15	16QAM	1	0	20.64	20.73	20.66	22	0	
15	16QAM	1	37	20.63	20.64	20.60			
15	16QAM	1	74	20.42	20.61	20.59	22	0	
15	16QAM	36	0	20.61	20.70	20.57			
15	16QAM	36	20	20.50	20.58	20.48	22	0	
15	16QAM	36	39	20.50	20.48	20.62			
15	16QAM	75	0	20.48	20.43	20.54			
15	64QAM	1	0	20.63	20.79	20.71			
15	64QAM	1	37	20.54	20.63	20.62	22	0	
15	64QAM	1	74	20.48	20.64	20.61			
15	64QAM	36	0	20.29	20.36	20.29			
15	64QAM	36	20	20.11	20.19	20.22	21.5	0.5	
15	64QAM	36	39	20.04	20.39	20.35			
15	64QAM	75	0	20.18	20.28	20.20			
15	256QAM	1	0	18.26	18.35	18.20			
15	256QAM	1	37	18.15	18.11	18.13	19.5	2.5	
15	256QAM	1	74	18.13	18.16	18.18			
15	256QAM	36	0	18.20	18.23	18.20			
15	256QAM	36	20	18.09	18.30	18.24	19.5	2.5	
15	256QAM	36	39	18.15	18.22	18.19			
15	256QAM	75	0	18.01	18.31	17.98			
Frequency (MHz)				44140	44599	45040	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3605	3650	3695			
10	QPSK	1	0	20.73	20.79	20.74			
10	QPSK	1	25	20.64	20.64	20.72	22	0	
10	QPSK	1	49	20.53	20.66	20.78			
10	QPSK	25	0	20.68	20.73	20.73			
10	QPSK	25	12	20.63	20.74	20.66	22	0	
10	QPSK	25	25	20.67	20.62	20.67			
10	QPSK	50	0	20.57	20.65	20.52			
10	16QAM	1	0	20.58	20.76	20.64			
10	16QAM	1	25	20.62	20.63	20.60	22	0	
10	16QAM	1	49	20.52	20.58	20.60			
10	16QAM	25	0	20.68	20.77	20.68			
10	16QAM	25	12	20.54	20.69	20.60	22	0	
10	16QAM	25	25	20.48	20.45	20.64			
10	16QAM	50	0	20.37	20.59	20.37			
10	64QAM	1	0	20.69	20.74	20.74			
10	64QAM	1	25	20.62	20.58	20.70	22	0	
10	64QAM	1	49	20.50	20.50	20.53			
10	64QAM	25	0	20.22	20.36	20.25	21.5	0.5	
10	64QAM	25	12	20.13	20.13	20.22			
10	64QAM	25	25	20.05	20.23	20.23			
10	64QAM	50	0	20.08	20.31	20.18			
10	256QAM	1	0	18.19	18.36	18.19			
10	256QAM	1	25	18.12	18.10	18.12	19.5	2.5	
10	256QAM	1	49	18.17	18.17	18.16			
10	256QAM	25	0	18.25	18.25	18.25			
10	256QAM	25	12	18.10	18.24	18.19	19.5	2.5	
10	256QAM	25	25	18.05	18.19	18.27			
Frequency (MHz)				3602.5	3650	3697.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	20.75	20.77	20.72			
5	QPSK	1	12	20.70	20.69	20.69	22	0	
5	QPSK	1	24	20.61	20.64	20.71			
5	QPSK	12	0	20.69	20.69	20.66			
5	QPSK	12	7	20.57	20.77	20.66	22	0	
5	QPSK	12	13	20.64	20.67	20.74			
5	QPSK	25	0	20.53	20.76	20.58			
5	16QAM	1	0	20.63	20.72	20.60			
5	16QAM	1	12	20.55	20.64	20.61	22	0	
5	16QAM	1	24	20.42	20.62	20.52			
5	16QAM	12	0	20.62	20.78	20.60			
5	16QAM	12	7	20.45	20.64	20.52	22	0	
5	16QAM	12	13	20.55	20.52	20.60			
5	16QAM	25	0	20.46	20.55	20.43			
5	64QAM	1	0	20.67	20.78	20.61			
5	64QAM	1	12	20.63	20.61	20.61	22	0	
5	64QAM	1	24	20.45	20.64	20.66			
5	64QAM	12	0	20.31	20.26	20.26			
5	64QAM	12	7	20.11	20.23	20.23	21.5	0.5	
5	64QAM	12	13	20.01	20.21	20.21			
5	256QAM	1	0	20.13	20.23	20.21			
5	256QAM	1	0	18.26	18.32	18.26			
5	256QAM	1	12	18.11	18.17	18.16	19.5	2.5	
5	256QAM	1	24	18.14	18.18	18.14			
5	256QAM	12	0	18.25	18.27	18.22			
5	256QAM	12	7	18.04	18.24	18.24	19.5	2.5	
5	256QAM	12	13	18.10	18.14	18.27			
5	256QAM	25	0	18.07	18.28	18.02			

Band 48 Ant 8											
BW [MHz]	Modulation	RB Size	RB Offset	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				55340	55630	55990	56160	56600			
Frequency (MHz)				3640	3608	3625	3644	3692			
20	QPSK	1	0	20.89	20.95		20.88	20.88			
20	QPSK	1	49	20.80	20.86		20.86	20.80	22	0	
20	QPSK	1	99	20.79	20.89		20.86	20.82			
20	QPSK	50	0	20.86	20.88		20.87	20.79			
20	QPSK	50	24	20.81	20.87		20.87	20.81	22	0	
20	QPSK	50	50	20.82	20.86		20.87	20.79			
20	QPSK	100	0	20.75	20.84		20.78	20.69			
20	16QAM	1	0	20.85	20.85		20.88	20.83			
20	16QAM	1	49	20.66	20.77		20.72	20.72	22	0	
20	16QAM	1	99	20.67	20.81		20.81	20.77			
20	16QAM	50	0	20.75	20.77		20.73	20.64			
20	16QAM	50	24	20.66	20.82		20.71	20.75	22	0	
20	16QAM	50	50	20.73	20.79		20.74	20.65			
20	16QAM	100	0	20.65	20.70		20.73	20.57			
20	64QAM	1	0	20.75	20.89		20.88	20.76			
20	64QAM	1	49	20.66	20.82		20.78	20.73	22	0	
20	64QAM	1	99	20.64	20.79		20.83	20.74			
20	64QAM	50	0	20.36	20.43		20.39	20.35			
20	64QAM	50	24	20.28	20.38		20.34	20.25	21.5	0.5	
20	64QAM	50	50	20.34	20.43		20.30	20.38			
20	64QAM	100	0	20.38	20.38		20.42	20.33			
20	256QAM	1	0	18.40	18.50		18.48	18.34			
20	256QAM	1	49	18.25	18.41		18.39	18.25	19.5	2.5	
20	256QAM	1	99	18.29	18.40		18.35	18.38			
20	256QAM	50	0	18.37	18.32		18.43	18.29			
20	256QAM	50	24	18.32	18.33		18.38	18.27	19.5	2.5	
20	256QAM	50	50	18.34	18.35		18.41	18.30			
20	256QAM	100	0	18.31	18.31		18.30	18.16			
Channel				55515	55820	55990	56160	56666			
Frequency (MHz)				3557.5	3608	3625	3642	3692.5	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	20.78	20.87		20.83	20.80			
15	QPSK	1	37	20.74	20.82		20.81	20.68	22	0	
15	QPSK	1	74	20.73	20.78		20.72	20.69			
15	QPSK	36	0	20.81	20.79		20.82	20.73			
15	QPSK	36	20	20.70	20.79		20.69	20.68	22	0	
15	QPSK	36	39	20.68	20.72		20.75	20.65			
15	QPSK	75	0	20.68	20.75		20.75	20.55			
15	16QAM	1	0	20.71	20.74		20.74	20.75			
15	16QAM	1	37	20.66	20.72		20.69	20.62	22	0	
15	16QAM	1	74	20.55	20.66		20.69	20.73			
15	16QAM	36	0	20.61	20.64		20.62	20.54			
15	16QAM	36	20	20.62	20.71		20.64	20.64	22	0	
15	16QAM	36	39	20.65	20.70		20.67	20.58			
15	16QAM	75	0	20.57	20.64		20.64	20.52	21.5	0.5	
15	64QAM	1	0	20.61	20.74		20.74	20.69			
15	64QAM	1	37	20.60	20.72		20.71	20.66	22	0	
15	64QAM	1	74	20.58	20.74		20.68	20.61			
15	64QAM	36	0	20.25	20.33		20.25	20.26			
15	64QAM	36	20	20.15	20.31		20.23	20.15	21.5	0.5	
15	64QAM	36	39	20.29	20.39		20.27	20.20			
15	64QAM	75	0	20.35	20.28		20.31	20.23			
15	256QAM	1	0	18.29	18.42		18.42	18.27			
15	256QAM	1	37	18.21	18.37		18.25	18.14	19.5	2.5	
15	256QAM	1	74	18.16	18.31		18.29	18.31			
15	256QAM	36	0	18.30	18.22		18.36	18.25			
15	256QAM	36	20	18.26	18.25		18.28	18.15	19.5	2.5	
15	256QAM	36	39	18.27	18.31		18.32	18.26			
15	256QAM	75	0	18.17	18.19		18.21	18.11			
Channel				55290	55815	55990	56165	56990			
Frequency (MHz)				3545.5	3607.5	3625	3643	3697.5	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	20.76	20.81		20.80	20.82			
10	QPSK	1	25	20.69	20.75		20.75	20.72	22	0	
10	QPSK	1	49	20.72	20.83		20.80	20.72			
10	QPSK	25	0	20.72	20.81		20.83	20.73			
10	QPSK	25	12	20.75	20.82		20.74	20.72	22	0	
10	QPSK	25	25	20.75	20.82		20.74	20.74			
10	QPSK	50	0	20.67	20.71		20.72	20.63			
10	16QAM	1	0	20.61	20.76		20.76	20.71			
10	16QAM	1	25	20.53	20.63		20.67	20.64	22	0	
10	16QAM	1	49	20.58	20.74		20.77	20.72			
10	16QAM	25	0	20.70	20.66		20.64	20.60			
10	16QAM	25	12	20.63	20.77		20.63	20.62	22	0	
10	16QAM	25	25	20.68	20.67		20.61	20.60			
10	16QAM	50	0	20.60	20.59		20.65	20.50			
10	64QAM	1	0	20.62	20.84		20.78	20.64			
10	64QAM	1	25	20.62	20.74		20.65	20.70	22	0	
10	64QAM	1	49	20.60	20.73		20.67	20.70			
10	64QAM	25	0	20.25	20.36		20.25	20.30			
10	64QAM	25	12	20.19	20.35		20.21	20.21	21.5	0.5	
10	64QAM	25	25	20.29	20.35		20.27	20.26			
10	64QAM	50	0	20.23	20.32		20.35	20.24			
10	256QAM	1	0	18.31	18.38		18.37	18.28			
10	256QAM	1	25	18.21	18.36		18.35	18.23	19.5	2.5	
10	256QAM	1	49	18.20	18.31		18.28	18.34			
10	256QAM	25	0	18.23	18.18		18.32	18.20			
10	256QAM	25	12	18.19	18.29		18.28	18.17	19.5	2.5	
10	256QAM	25	25	18.17	18.20		18.32	18.16			
10	256QAM	50	0	18.14	18.20		18.23	18.05			
Channel				55355	55810	55990	56130	56915			
Frequency (MHz)				3552.5	3607	3625	3643	3697.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	20.80	20.82		20.83	20.77			
5	QPSK	1	12	20.68	20.82		20.75	20.73	22	0	
5	QPSK	1	24	20.68	20.78		20.74	20.73			
5	QPSK	12	0	20.78	20.77		20.81	20.77			
5	QPSK	12	7	20.68	20.81		20.78	20.73	22	0	
5	QPSK	12	13	20.73	20.80		20.80	20.65			
5	QPSK	25	0	20.71	20.72		20.74	20.64			
5	16QAM	1	0	20.72	20.72		20.83	20.69			
5	16QAM	1	12	20.80	20.68		20.63	20.68	22	0	
5	16QAM	1	24	20.61	20.74		20.71	20.64			
5	16QAM	12	0	20.62	20.68		20.66	20.50			
5	16QAM	12	7	20.56	20.70		20.60	20.69	22	0	
5	16QAM	12	13	20.66	20.66		20.66	20.60			
5	16QAM	25	0	20.52	20.66		20.65	20.45			
5	64QAM	1	0	20.61	20.74		20.64	20.64			
5	64QAM	1	12	20.56	20.67		20.64	20.62	22	0	
5	64QAM	1	24	20.58	20.72		20.79	20.70			
5	64QAM	12	0	20.27	20.35		20.28	20.24			
5	64QAM	12	7	20.20	20.31		20.22	20.16	21.5	0.5	
5	64QAM	12	13	20.30	20.39		20.21	20.31			
5	64QAM	24	0	20.34	20.34		20.28	20.26			
5	256QAM	1	0	18.35	18.38		18.42	18.21			
5	256QAM	1	12	18.10	18.35		18.24	18.13	19.5	2.5	
5	256QAM	1	24	18.25	18.33		18.30	18.28			
5	256QAM	12	0	18.25	18.29		18.36	18.24			
5	256QAM	12	7	18.27	18.26		18.36	18.14	19.5	2.5	
5	256QAM	12	13	18.23	18.22		18.30	18.17			
5	256QAM	25	0	18.25	18.20		18.27	18.12			



Full&Default Power Mode/Reduced Power Mode for DSI3&4

n2 Ant 0								
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				372000	376000	380000	24.0	0.0
Frequency (MHz)				1860	1880	1900		
20	Plz BPSK	1	1	22.37	22.53	22.43	24.0	0.0
20	Plz BPSK	1	53	22.35	22.49	22.44		
20	Plz BPSK	1	104	22.32	22.40	22.33	23.5	0.5
20	Plz BPSK	50	0	21.90	21.97	21.97		
20	Plz BPSK	50	28	22.42	22.49	22.33	24.0	0.0
20	Plz BPSK	50	56	21.75	21.91	21.86	23.5	0.5
20	Plz BPSK	100	0	21.92	21.94	21.89		
20	QPSK	1	1	22.52	22.56	22.56	24.0	0.0
20	QPSK	1	53	22.49	22.56	22.42		
20	QPSK	1	104	22.38	22.53	22.42	23.0	1.0
20	QPSK	50	0	21.51	21.58	21.55		
20	QPSK	50	28	22.36	22.54	22.40	24.0	0.0
20	QPSK	50	56	21.48	21.54	21.40	23.0	1.0
20	QPSK	100	0	21.55	21.60	21.47		
20	16QAM	1	1	21.50	21.61	21.50	23.0	1.0
20	64QAM	1	1	19.96	20.12	20.07	21.5	2.5
20	256QAM	1	1	18.03	18.17	18.04	19.5	4.5
Channel				371900	376000	380500	Tune-up limit	MPR
Frequency (MHz)				1857.5	1880	1902.5	(dBm)	(dB)
15	QPSK	1	1	22.33	22.55	22.44	24.0	0.0
Channel				371000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1865	1880	1905	(dBm)	(dB)
10	QPSK	1	1	22.33	22.44	22.44	24.0	0.0
Channel				371000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)
5	QPSK	1	1	22.34	22.40	22.32	24.0	0.0

n5 Ant 0								
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				166000	167000	167800	24.0	0.0
Frequency (MHz)				834	836.5	838		
20	Plz BPSK	1	1	22.59	22.73	22.58	24.0	0.0
20	Plz BPSK	1	53	22.58	22.68	22.60		
20	Plz BPSK	1	104	22.56	22.61	22.46	23.5	0.5
20	Plz BPSK	50	0	22.10	22.16	22.12		
20	Plz BPSK	50	28	22.55	22.64	22.50	24.0	0.0
20	Plz BPSK	50	56	21.99	22.04	22.02	23.5	0.5
20	Plz BPSK	100	0	21.96	22.11	21.96		
20	QPSK	1	1	22.72	22.80	22.70	24.0	0.0
20	QPSK	1	53	22.59	22.72	22.59		
20	QPSK	1	104	22.61	22.67	22.63	23.0	1.0
20	QPSK	50	0	21.67	21.71	21.56		
20	QPSK	50	28	22.64	22.72	22.62	24.0	0.0
20	QPSK	50	56	21.50	21.62	21.54	23.0	1.0
20	QPSK	100	0	21.57	21.68	21.59		
20	16QAM	1	1	21.71	21.80	21.81	23.0	1.0
20	64QAM	1	1	20.29	20.39	20.27	21.5	2.5
20	256QAM	1	1	18.38	18.43	18.33	19.5	4.5
Channel				166300	167300	168300	Tune-up limit	MPR
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)
15	QPSK	1	1	22.62	22.64	22.61	24.0	0.0
Channel				165300	167300	168300	Tune-up limit	MPR
Frequency (MHz)				829	836.5	844	(dBm)	(dB)
10	QPSK	1	1	22.57	22.62	22.52	24.0	0.0
Channel				165300	167300	168300	Tune-up limit	MPR
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)
5	QPSK	1	1	22.62	22.74	22.58	24.0	0.0

n12 Ant 0								
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				141300	141500	141700	24.0	0.0
Frequency (MHz)				706.5	707.5	708.5		
15	Plz BPSK	1	1	22.36	22.40	22.12	24.0	0.0
15	Plz BPSK	1	40	22.03	22.22	22.20		
15	Plz BPSK	1	77	22.28	22.37	22.09	23.5	0.5
15	Plz BPSK	36	0	21.60	21.65	21.55		
15	Plz BPSK	36	22	22.15	22.33	22.12	24.0	0.0
15	Plz BPSK	36	43	21.58	21.79	21.61	23.5	0.5
15	Plz BPSK	75	0	21.63	21.65	21.61		
15	QPSK	1	1	22.26	22.41	22.32	24.0	0.0
15	QPSK	1	40	22.05	22.35	22.20		
15	QPSK	1	77	22.32	22.24	22.20	23.0	1.0
15	QPSK	36	0	21.24	21.28	21.09		
15	QPSK	36	22	22.32	22.33	22.16	24.0	0.0
15	QPSK	36	43	21.22	21.27	21.17	23.0	1.0
15	QPSK	75	0	21.05	21.27	21.15		
15	16QAM	1	1	21.34	21.57	21.33	23.0	1.0
15	64QAM	1	1	19.75	20.02	19.77	21.5	2.5
15	256QAM	1	1	17.92	18.05	17.83	19.5	4.5
Channel				140800	141500	142000	Tune-up limit	MPR
Frequency (MHz)				704	707.5	711	(dBm)	(dB)
10	QPSK	1	1	22.08	22.14	22.15	24.0	0.0
Channel				140300	141500	142000	Tune-up limit	MPR
Frequency (MHz)				701.5	707.5	713.5	(dBm)	(dB)
5	QPSK	1	1	22.07	22.28	22.12	24.0	0.0

n25 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel				372000	376000	381000		
Frequency (MHz)				1860	1862.5	1865		
20	Plz2 BPSK	1	1	22.66	22.61	22.68	24.0	0.0
20	Plz2 BPSK	1	53	22.83	22.60	22.79		
20	Plz2 BPSK	1	104	22.86	22.63	22.84		
20	Plz2 BPSK	50	0	22.26	22.13	22.33	23.5	0.5
20	Plz2 BPSK	50	28	22.85	22.62	22.63	24.0	0.0
20	Plz2 BPSK	50	56	22.30	22.31	22.30	23.5	0.5
20	Plz2 BPSK	100	0	22.22	22.31	22.32		
20	QPSK	1	1	22.63	22.66	22.73		
20	QPSK	1	53	22.63	22.74	22.73	24.0	0.0
20	QPSK	1	104	22.65	22.68	22.62	23.0	1.0
20	QPSK	50	0	21.77	21.77	21.73		
20	QPSK	50	28	22.65	22.73	22.71		
20	QPSK	50	56	21.71	21.86	21.85	23.0	1.0
20	QPSK	100	0	21.65	21.81	21.80		
20	16QAM	1	1	21.76	21.83	21.81		
20	64QAM	1	1	20.20	20.13	20.24	21.5	2.5
20	256QAM	1	1	18.21	18.14	18.12	19.5	4.5
Channel				371800	376000	381600	Tune-up limit (dBm)	MFR
Frequency (MHz)				1867.5	1862.5	1867.5	(dBm)	(dB)
15	QPSK	1	1	22.58	22.71	22.58	24.0	0.0
Channel				371000	376000	380000	Tune-up limit (dBm)	MFR
Frequency (MHz)				1865	1862.5	1910	(dBm)	(dB)
10	QPSK	1	1	22.66	22.62	22.67	24.0	0.0
Channel				371600	376000	382000	Tune-up limit (dBm)	MFR
Frequency (MHz)				1862.5	1862.5	1912.5	(dBm)	(dB)
5	QPSK	1	1	22.76	22.71	22.52	24.0	0.0

n66 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel				346000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	Plz2 BPSK	1	1	22.16	22.27	22.15	24.0	0.0
20	Plz2 BPSK	1	53	22.21	22.21	22.17		
20	Plz2 BPSK	1	104	22.04	22.21	22.13		
20	Plz2 BPSK	50	0	21.55	21.65	21.64	23.5	0.5
20	Plz2 BPSK	50	28	22.06	22.23	22.08	24.0	0.0
20	Plz2 BPSK	50	56	21.56	21.66	21.51	23.5	0.5
20	Plz2 BPSK	100	0	21.56	21.53	21.60		
20	QPSK	1	1	22.25	22.28	22.22		
20	QPSK	1	53	22.18	22.32	22.21	24.0	0.0
20	QPSK	1	104	22.16	22.24	22.22	23.0	1.0
20	QPSK	50	0	21.12	21.24	21.21		
20	QPSK	50	28	22.25	22.35	22.18		
20	QPSK	50	56	21.05	21.16	21.03	23.0	1.0
20	QPSK	100	0	21.17	21.20	21.14		
20	16QAM	1	1	21.23	21.39	21.18		
20	64QAM	1	1	19.62	19.86	19.72	21.5	2.5
20	256QAM	1	1	17.64	17.81	17.73	19.5	4.5
Channel				346000	349000	354000	Tune-up limit (dBm)	MFR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	QPSK	1	1	22.20	22.31	22.12	24.0	0.0
Channel				343000	349000	350000	Tune-up limit (dBm)	MFR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	QPSK	1	1	22.19	22.22	22.14	24.0	0.0
Channel				343000	349000	350500	Tune-up limit (dBm)	MFR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	QPSK	1	1	22.08	22.21	22.13	24.0	0.0



n5 Ant 1									
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				166800	167300	167800	23.0	0.0	
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	22.11	22.22	22.14			
20	PI2 BPSK	1	53	22.07	22.15	22.09	22.5	0.5	
20	PI2 BPSK	1	104	22.09	22.12	22.08			
20	PI2 BPSK	50	0	21.53	21.55	21.52			
20	PI2 BPSK	50	28	22.01	22.17	22.07	23.0	0.0	
20	PI2 BPSK	50	58	21.51	21.53	21.54			
20	PI2 BPSK	100	0	21.58	21.53	21.51			
20	QPSK	1	1	22.18	22.28	22.18	23.0	0.0	
20	QPSK	1	53	22.12	22.24	22.17			
20	QPSK	1	104	22.10	22.18	22.10			
20	QPSK	50	0	21.11	21.19	21.09	22.0	1.0	
20	QPSK	50	28	22.05	22.19	22.07			
20	QPSK	50	58	21.01	21.04	21.02			
20	QPSK	100	0	21.02	21.10	21.07	22.0	1.0	
20	16QAM	1	1	21.18	21.12	21.26			
20	64QAM	1	1	19.70	19.51	19.64		20.5	
20	256QAM	1	1	17.74	17.73	17.64	18.5		
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5	23.0	0.0	
15	QPSK	1	1	22.07	22.14	22.10			
Channel				165800	167300	166800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				820	836.5	844	23.0	0.0	
10	QPSK	1	1	22.01	22.10	22.07			
Channel				165300	167300	166300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5	23.0	0.0	
5	QPSK	1	1	22.15	22.22	22.15			

n7 Ant 1									
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				502000	507000	512000	23.0	0.0	
Frequency (MHz)				2610	2635	2660			
20	PI2 BPSK	1	1	22.12	22.26	22.17			
20	PI2 BPSK	1	53	22.13	22.24	22.17	22.5	0.5	
20	PI2 BPSK	1	104	22.11	22.15	22.06			
20	PI2 BPSK	50	0	21.51	21.56	21.53			
20	PI2 BPSK	50	28	22.12	22.24	22.10	23.0	0.0	
20	PI2 BPSK	50	58	21.54	21.53	21.56			
20	PI2 BPSK	100	0	21.51	21.52	21.61			
20	QPSK	1	1	22.30	22.36	22.22	23.0	0.0	
20	QPSK	1	53	22.18	22.31	22.27			
20	QPSK	1	104	22.15	22.24	22.15			
20	QPSK	50	0	21.05	21.19	21.18	22.0	1.0	
20	QPSK	50	28	22.15	22.25	22.18			
20	QPSK	50	58	21.01	21.08	21.05			
20	QPSK	100	0	21.02	21.13	21.05	22.0	1.0	
20	16QAM	1	1	21.15	21.22	21.12			
20	64QAM	1	1	19.60	19.76	19.74	20.5	2.5	
20	256QAM	1	1	17.59	17.68	17.53	18.5		
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2635	2662.5	23.0	0.0	
15	QPSK	1	1	22.11	22.29	22.13			
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2635	2655	23.0	0.0	
10	QPSK	1	1	22.15	22.25	22.12			
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2635	2667.5	23.0	0.0	
5	QPSK	1	1	22.11	22.18	22.08			

n12 Ant 1									
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				141300	141500	141700	23.0	0.0	
Frequency (MHz)				706.5	707.5	708.5			
15	PI2 BPSK	1	1	21.90	22.07	21.73			
15	PI2 BPSK	1	40	21.67	21.97	21.86	22.5	0.5	
15	PI2 BPSK	1	77	21.89	21.87	21.99			
15	PI2 BPSK	36	0	21.12	21.22	21.17			
15	PI2 BPSK	36	22	21.84	21.88	21.78	23.0	0.0	
15	PI2 BPSK	36	43	21.32	21.32	21.08			
15	PI2 BPSK	75	0	21.33	21.35	21.24			
15	QPSK	1	1	21.81	22.06	22.00	23.0	0.0	
15	QPSK	1	40	21.85	21.93	21.72			
15	QPSK	1	77	21.83	21.94	21.90			
15	QPSK	36	0	20.73	20.75	20.81	22.0	1.0	
15	QPSK	36	22	21.70	21.96	21.70			
15	QPSK	36	43	20.78	20.92	20.64			
15	QPSK	75	0	20.88	20.85	20.72	22.0	1.0	
15	16QAM	1	1	21.03	21.19	21.11			
15	64QAM	1	1	19.48	19.52	19.48	20.5	2.5	
15	256QAM	1	1	17.32	17.58	17.30	18.5		
Channel				140800	141500	142200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				704	707.5	711	23.0	0.0	
10	QPSK	1	1	21.24	21.39	21.42			
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5	23.0	0.0	
5	QPSK	1	1	21.28	21.38	21.39			



n38 Ant 1									
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				518004	518000	519998			
Frequency (MHz)				2580.02	2595	2599.98			
40	PQ2 BPSK	1	1	21.10	21.45	21.26			
40	PQ2 BPSK	1	53	21.42	21.60	21.29	23.0	0.0	
40	PQ2 BPSK	1	104	21.07	21.51	21.21			
40	PQ2 BPSK	50	0	20.82	21.09	20.82	22.5	0.5	
40	PQ2 BPSK	50	28	21.25	21.30	21.23	23.0	0.0	
40	PQ2 BPSK	50	58	20.55	21.21	20.76			
40	PQ2 BPSK	100	0	20.59	21.07	20.79	22.5	0.5	
40	QPSK	1	1	21.11	21.65	21.34			
40	QPSK	1	53	21.12	21.16	21.10	23.0	0.0	
40	QPSK	1	104	21.19	21.36	21.51			
40	QPSK	50	0	20.28	20.29	20.11	22.0	1.0	
40	QPSK	50	28	21.32	21.39	21.13	23.0	0.0	
40	QPSK	50	58	20.21	20.09	20.10			
40	QPSK	100	0	20.22	20.33	20.17	22.0	1.0	
40	16QAM	1	1	20.29	20.09	20.04	22.0	1.0	
40	64QAM	1	1	18.83	18.83	18.67	20.5	2.5	
40	256QAM	1	1	16.75	16.75	16.64	18.5	4.5	
Channel				517002	518000	520000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	21.05	21.54	21.23	23.0	0.0	
Channel				516000	518000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	21.08	21.54	21.21	23.0	0.0	

n41 Ant 1									
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				509202	518598	520000			
Frequency (MHz)				2548.01	2592.99	2640			
100	PQ2 BPSK	1	1	21.31	21.64	21.45			
100	PQ2 BPSK	1	137	21.17	21.75	21.53	23.0	0.0	
100	PQ2 BPSK	1	271	21.29	21.76	21.38			
100	PQ2 BPSK	135	0	20.88	21.27	21.07	22.5	0.5	
100	PQ2 BPSK	135	69	21.18	21.54	21.43	23.0	0.0	
100	PQ2 BPSK	135	138	20.78	21.39	20.98	22.5	0.5	
100	PQ2 BPSK	270	0	20.76	21.24	21.05			
100	QPSK	1	1	21.33	21.80	21.52			
100	QPSK	1	137	21.27	21.41	21.17	23.0	0.0	
100	QPSK	1	271	21.44	21.53	21.65			
100	QPSK	135	0	20.47	20.52	20.34	22.0	1.0	
100	QPSK	135	69	21.46	21.54	21.39	23.0	0.0	
100	QPSK	135	138	20.42	20.31	20.14	22.0	1.0	
100	QPSK	270	0	20.47	20.51	20.35			
100	16QAM	1	1	20.47	20.29	20.24	22.0	1.0	
100	64QAM	1	1	19.02	19.07	18.88	20.5	2.5	
100	256QAM	1	1	16.91	16.92	16.84	18.5	4.5	
Channel				508200	518598	520598	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.24	21.51	21.33	23.0	0.0	
Channel				507204	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2643.99			
80	QPSK	1	1	21.04	21.67	21.41	23.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	21.23	21.64	21.27	23.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.99			
60	QPSK	1	1	21.20	21.51	21.34	23.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2654.99			
50	QPSK	1	1	21.08	21.46	21.35	23.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	21.05	21.66	21.38	23.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	21.19	21.67	21.23	23.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.19	21.64	21.24	23.0	0.0	

n41 HPUE Ant 1									
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				509202	518598	520000			
Frequency (MHz)				2548.01	2592.99	2640			
100	PQ2 BPSK	1	1	23.45	23.50	23.49			
100	PQ2 BPSK	1	137	23.41	23.64	23.56	25.0	0.0	
100	PQ2 BPSK	1	271	23.45	23.69	23.47			
100	PQ2 BPSK	135	0	23.05	23.10	23.16	24.5	0.5	
100	PQ2 BPSK	135	69	23.32	23.61	23.59	25.0	0.0	
100	PQ2 BPSK	135	138	23.01	23.09	23.13	24.5	0.5	
100	PQ2 BPSK	270	0	23.00	23.28	23.14			
100	QPSK	1	1	23.34	23.75	23.66			
100	QPSK	1	137	23.44	23.70	23.67	25.0	0.0	
100	QPSK	1	271	23.68	23.34	23.66			
100	QPSK	135	0	22.48	22.62	22.72	24.0	1.0	
100	QPSK	135	69	23.33	23.60	23.57	25.0	0.0	
100	QPSK	135	138	22.86	22.64	22.76	24.0	1.0	
100	QPSK	270	0	22.19	22.55	22.49			
100	16QAM	1	1	22.63	22.58	22.75	24.0	1.0	
100	64QAM	1	1	21.04	21.17	21.15	22.5	2.5	
100	256QAM	1	1	18.15	19.17	19.28	20.5	4.5	
Channel				508200	518598	530998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	23.35	23.41	23.41	25.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2643.99			
80	QPSK	1	1	23.33	23.52	23.44	25.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	23.34	23.58	23.41	25.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.99			
60	QPSK	1	1	23.33	23.42	23.35	25.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2654.99			
50	QPSK	1	1	23.31	23.52	23.42	25.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	23.32	23.55	23.37	25.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	23.35	23.60	23.38	25.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	23.33	23.50	23.45	25.0	0.0	



n2 Ant 5									
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				372000	376000	380000	24.0	0.0	
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	22.68	22.60	22.62	24.0	0.0	
20	PI2 BPSK	1	53	22.53	22.68	22.60			
20	PI2 BPSK	1	104	22.36	22.42	22.52			
20	PI2 BPSK	50	0	22.16	22.02	22.09	23.5	0.5	
20	PI2 BPSK	50	28	22.50	22.56	22.36	24.0	0.0	
20	PI2 BPSK	50	56	22.00	22.05	21.97	23.5	0.5	
20	PI2 BPSK	100	0	21.86	21.99	21.97	24.0	0.0	
20	QPSK	1	1	22.57	22.76	22.46			
20	QPSK	1	53	22.46	22.58	22.56			
20	QPSK	1	104	22.41	22.71	22.43	23.0	1.0	
20	QPSK	50	0	21.48	21.65	21.66			
20	QPSK	50	28	22.50	22.65	22.46			
20	QPSK	50	56	21.31	21.49	21.41	23.0	1.0	
20	QPSK	100	0	21.66	21.67	21.53	23.0	1.0	
20	16QAM	1	1	21.48	21.69	21.40			
20	64QAM	1	1	20.11	20.19	20.13			
20	256QAM	1	1	18.34	18.24	18.27	19.5	4.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1880	1902.5	24.0	0.0	
15	QPSK	1	1	22.63	22.69	22.58	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1905	1880	1905	24.0	0.0	
10	QPSK	1	1	22.48	22.56	22.39	24.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1907.5	24.0	0.0	
5	QPSK	1	1	22.40	22.48	22.49	24.0	0.0	

n7 Ant 5									
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				502000	507000	512000	24.0	0.0	
Frequency (MHz)				2610	2635	2660			
20	PI2 BPSK	1	1	22.32	22.49	22.48	24.0	0.0	
20	PI2 BPSK	1	53	22.29	22.41	22.30			
20	PI2 BPSK	1	104	22.24	22.39	22.34			
20	PI2 BPSK	50	0	21.69	21.71	21.59	23.5	0.5	
20	PI2 BPSK	50	28	22.30	22.40	22.28	24.0	0.0	
20	PI2 BPSK	50	56	21.56	21.63	21.61	23.5	0.5	
20	PI2 BPSK	100	0	21.54	21.63	21.62	24.0	0.0	
20	QPSK	1	1	22.36	22.58	22.55			
20	QPSK	1	53	22.35	22.49	22.38			
20	QPSK	1	104	22.35	22.49	22.36	23.0	1.0	
20	QPSK	50	0	21.28	21.37	21.32			
20	QPSK	50	28	22.32	22.47	22.36			
20	QPSK	50	56	21.12	21.25	21.24	23.0	1.0	
20	QPSK	100	0	21.12	21.31	21.29	23.0	1.0	
20	16QAM	1	1	21.39	21.46	21.29			
20	64QAM	1	1	19.87	20.00	19.85		2.5	
20	256QAM	1	1	17.71	17.83	17.79	19.5	4.5	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2607.5	2635	2662.5	24.0	0.0	
15	QPSK	1	1	22.14	22.31	22.25	24.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2605	2635	2665	24.0	0.0	
10	QPSK	1	1	22.07	22.21	22.12	24.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2602.5	2635	2667.5	24.0	0.0	
5	QPSK	1	1	22.04	22.20	22.17	24.0	0.0	

n66 Ant 5									
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				343000	349000	354000	24.0	0.0	
Frequency (MHz)				1720	1745	1770			
20	PI2 BPSK	1	1	22.12	22.36	22.19	24.0	0.0	
20	PI2 BPSK	1	53	22.21	22.23	22.19			
20	PI2 BPSK	1	104	22.04	22.11	22.02			
20	PI2 BPSK	50	0	21.53	21.78	21.58	23.5	0.5	
20	PI2 BPSK	50	28	22.13	22.30	22.15	24.0	0.0	
20	PI2 BPSK	50	56	22.16	21.60	21.63	23.5	0.5	
20	PI2 BPSK	100	0	21.53	21.58	21.51	24.0	0.0	
20	QPSK	1	1	22.34	22.37	22.36			
20	QPSK	1	53	22.12	22.28	22.19			
20	QPSK	1	104	22.17	22.21	22.17	23.0	1.0	
20	QPSK	50	0	21.13	21.23	21.06			
20	QPSK	50	28	22.28	22.33	22.21			
20	QPSK	50	56	21.02	21.01	21.03	23.0	1.0	
20	QPSK	100	0	21.03	21.16	21.15	23.0	1.0	
20	16QAM	1	1	21.21	21.28	21.18			
20	64QAM	1	1	19.83	19.74	19.75			
20	256QAM	1	1	17.64	17.91	17.89	19.5	4.5	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	24.0 <td colspan="2">0.0</td>	0.0	
15	QPSK	1	1	22.17	22.33	22.12	24.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	24.0 <td colspan="2">0.0</td>	0.0	
10	QPSK	1	1	22.21	22.28	22.13	24.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	24.0 <td colspan="2">0.0</td>	0.0	
5	QPSK	1	1	22.22	22.31	22.12	24.0	0.0	



n38 Ant 5							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				519004	519000	519996	
Frequency (MHz)				2109.12	2109.12	2109.12	
40	PI2 BPSK	1	1	21.09	22.02	21.09	
40	PI2 BPSK	1	53	21.89	21.96	21.94	23.0
40	PI2 BPSK	1	104	21.86	21.89	21.80	
40	PI2 BPSK	50	0	21.30	21.43	21.27	22.5
40	PI2 BPSK	50	28	21.89	21.96	21.90	23.0
40	PI2 BPSK	50	56	21.21	21.34	21.26	22.5
40	PI2 BPSK	100	0	21.21	21.38	21.30	
40	QPSK	1	1	21.92	22.09	22.00	
40	QPSK	1	53	21.96	21.98	21.98	23.0
40	QPSK	1	104	21.89	21.95	21.83	
40	QPSK	50	0	20.79	20.95	20.83	22.0
40	QPSK	50	28	21.93	22.01	21.92	23.0
40	QPSK	50	56	20.70	20.80	20.72	22.0
40	QPSK	100	0	20.92	20.98	20.78	
40	16QAM	1	1	20.89	21.05	21.01	22.0
40	64QAM	1	1	19.99	19.96	19.61	20.5
40	256QAM	1	1	17.57	17.51	17.46	18.5
Channel				519302	519304	519306	
Frequency (MHz)				2585.01	2585.01	2604.99	
30	QPSK	1	1	21.86	21.89	21.84	23.0
Channel				519600	519600	520000	
Frequency (MHz)				2590	2595	2610	
20	QPSK	1	1	21.80	21.85	21.77	23.0

n41 Ant 5								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)
Channel				509202	518998	528000		
Frequency (MHz)				2546.01	2552.99	2640		
100	PI2 BPSK	1	1	22.07	22.10	22.11		
100	PI2 BPSK	1	137	22.03	22.07	22.05	23.0	0.0
100	PI2 BPSK	1	271	21.95	21.95	22.00		
100	PI2 BPSK	135	0	21.66	21.65	21.71	22.5	0.5
100	PI2 BPSK	135	69	22.07	22.09	22.06	23.0	0.0
100	PI2 BPSK	135	138	21.73	21.76	21.76	22.5	0.0
100	PI2 BPSK	270	0	21.80	21.57	21.55	22.5	0.5
100	QPSK	1	1	22.08	22.13	22.10		
100	QPSK	1	137	22.11	22.08	22.08	23.0	0.0
100	QPSK	1	271	22.07	22.02	22.06		
100	QPSK	135	0	21.01	21.03	21.00	22.0	1.0
100	QPSK	135	69	21.83	21.67	21.64	23.0	0.0
100	QPSK	135	138	21.19	21.16	21.18	22.0	1.0
100	QPSK	270	0	21.25	21.20	21.24	22.0	1.0
100	16QAM	1	1	21.13	21.13	21.12	22.0	1.0
100	64QAM	1	1	19.53	19.52	19.53	20.5	2.5
100	256QAM	1	1	17.68	17.67	17.71	18.5	4.5
Channel				509200	518996	528004	Turn-up limit (dBm)	MPR (dB)
Frequency (MHz)				2641	2592.99	2644.98		
90	QPSK	1	1	21.93	21.90	21.95	23.0	0.0
Channel				507204	518998	529998		
Frequency (MHz)				2631.01	2592.99	2650	Turn-up limit (dBm)	MPR (dB)
80	QPSK	1	1	21.88	21.85	21.90	23.0	0.0
Channel				506202	518998	531000		
Frequency (MHz)				2631.01	2592.99	2650	Turn-up limit (dBm)	MPR (dB)
70	QPSK	1	1	21.19	21.80	21.77	23.0	0.0
Channel				505200	518998	531998		
Frequency (MHz)				2626	2592.99	2659.98	Turn-up limit (dBm)	MPR (dB)
60	QPSK	1	1	21.93	21.90	21.94	23.0	0.0
Channel				504204	518998	536998		
Frequency (MHz)				2592.02	2592.99	2664.99	Turn-up limit (dBm)	MPR (dB)
50	QPSK	1	1	21.87	21.86	21.90	23.0	0.0
Channel				502202	518998	534000		
Frequency (MHz)				2616.01	2609.99	2670	Turn-up limit (dBm)	MPR (dB)
40	QPSK	1	1	21.80	21.78	21.82	23.0	0.0
Channel				502200	518998	534998		
Frequency (MHz)				2511	2592.99	2674.98	Turn-up limit (dBm)	MPR (dB)
30	QPSK	1	1	21.87	21.89	21.89	23.0	0.0
Channel				501204	518998	535998		
Frequency (MHz)				2506	2592.99	2679.99	Turn-up limit (dBm)	MPR (dB)
20	QPSK	1	1	21.93	21.94	21.91	23.0	0.0

n41 HPUE Ant 5							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				506202	518998	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI2 BPSK	1	1	22.10	24.02	24.02	
100	PI2 BPSK	1	137	23.76	23.81	23.80	25.0
100	PI2 BPSK	1	271	23.96	24.01	23.99	
100	PI2 BPSK	135	0	23.51	23.54	23.52	24.5
100	PI2 BPSK	135	69	23.89	23.88	23.86	25.0
100	PI2 BPSK	135	138	23.46	23.49	23.46	24.5
100	PI2 BPSK	270	0	23.42	23.46	23.46	
100	QPSK	1	1	23.97	24.03	24.02	
100	QPSK	1	137	23.75	23.69	23.75	25.0
100	QPSK	1	271	23.74	23.77	23.73	
100	QPSK	135	0	23.07	23.06	23.09	24.0
100	QPSK	135	69	23.75	23.77	23.75	25.0
100	QPSK	135	138	22.77	22.80	22.80	24.0
100	QPSK	270	0	22.83	22.85	22.84	
100	16QAM	1	1	23.07	23.07	23.07	24.0
100	64QAM	1	1	21.54	21.52	21.48	22.5
100	256QAM	1	1	19.60	19.53	19.57	20.5
Channel				506200	518998	529998	
Frequency (MHz)				2641	2592.99	2644.98	
90	QPSK	1	1	23.78	23.77	23.84	25.0
Channel				507204	518998	529998	
Frequency (MHz)				2631.01	2592.99	2650	
80	QPSK	1	1	23.89	23.91	23.85	25.0
Channel				506202	518998	531000	
Frequency (MHz)				2631.01	2592.99	2650	
70	QPSK	1	1	23.91	23.85	23.84	25.0
Channel				505200	518998	531998	
Frequency (MHz)				2626	2592.99	2659.98	
60	QPSK	1	1	23.87	23.92	23.87	25.0
Channel				502200	518996	536998	
Frequency (MHz)				2592.02	2592.99	2664.99	
50	QPSK	1	1	23.94	23.94	23.90	25.0
Channel				502002	518998	534000	
Frequency (MHz)				2616.01	2609.99	2670	
40	QPSK	1	1	23.87	23.84	23.86	25.0
Channel				502200	518998	534998	
Frequency (MHz)				2511	2592.99	2674.98	
30	QPSK	1	1	23.84	23.84	23.91	25.0
Channel				501204	518998	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	23.93	23.89	23.84	25.0



n48 Part96 Ant 5								
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				636000	641666	646332		
Frequency (MHz)				3520	3624.99	3679.98		
40	Pl2 BPSK	1	1	22.08	22.53	22.12		
40	Pl2 BPSK	1	53	22.02	22.10	22.12	23.0	0.0
40	Pl2 BPSK	1	104	22.18	22.17	22.16		
40	Pl2 BPSK	50	0	21.36	21.62	21.43	22.5	0.5
40	Pl2 BPSK	50	28	21.84	22.03	22.04	23.0	0.0
40	Pl2 BPSK	50	56	21.43	21.50	21.34	22.5	0.5
40	Pl2 BPSK	100	0	21.47	21.54	21.51		
40	QPSK	1	1	22.18	22.32	22.09		
40	QPSK	1	53	22.01	22.19	22.00	23.0	0.0
40	QPSK	1	104	22.00	22.11	22.02		
40	QPSK	50	0	20.89	21.06	21.00	22.0	1.0
40	QPSK	50	28	22.09	22.14	22.02	23.0	0.0
40	QPSK	50	56	20.81	20.84	20.80	22.0	1.0
40	QPSK	100	0	20.96	21.03	20.92		
40	16QAM	1	1	21.24	21.28	21.21	22.0	1.0
40	64QAM	1	1	19.79	19.82	19.66	20.5	2.5
40	256QAM	1	1	17.56	17.71	17.64	18.5	4.5
Channel				637234	643666	649100		
Frequency (MHz)				3560.01	3624.99	3690		
20	QPSK	1	1	21.77	22.04	21.99	23.0	0.0

Part270 n77 Ant 5								
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				650000	656000	662000		
Frequency (MHz)				3760	3840	3920		
100	Pl2 BPSK	1	1	21.65	21.43	21.52		
100	Pl2 BPSK	1	137	21.25	21.38	21.37	23.0	0.0
100	Pl2 BPSK	1	271	21.22	21.23	21.20		
100	Pl2 BPSK	135	0	21.20	21.35	21.31	22.5	0.5
100	Pl2 BPSK	135	69	21.32	21.34	21.30	23.0	0.0
100	Pl2 BPSK	135	138	21.27	21.32	21.26	22.5	0.5
100	Pl2 BPSK	270	0	21.21	21.24	21.14		
100	QPSK	1	1	21.44	21.49	21.35		
100	QPSK	1	137	21.31	21.42	21.27	23.0	0.0
100	QPSK	1	271	21.31	21.39	21.32		
100	QPSK	135	0	21.19	21.31	21.21	22.0	1.0
100	QPSK	135	69	21.35	21.41	21.39	23.0	0.0
100	QPSK	135	138	20.91	20.51	20.26	22.0	1.0
100	QPSK	270	0	20.43	20.57	20.50		
100	16QAM	1	1	21.31	21.40	21.26	22.0	1.0
100	64QAM	1	1	19.68	19.89	19.74	20.5	2.5
100	256QAM	1	1	17.80	17.84	17.78	18.5	4.5
Channel				645334	650000	655666		
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	21.24	21.27	21.26	23.0	0.0
Channel				648666	650000	652334		
Frequency (MHz)				3720.02	3840	3940.01		
60	QPSK	1	1	21.35	21.40	21.33	23.0	0.0
Channel				648000	650000	654000		
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	21.29	21.37	21.28	23.0	0.0
Channel				647668	650000	654334		
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	21.31	21.32	21.20	23.0	0.0
Channel				641334	650000	658000		
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	21.28	21.31	21.25	23.0	0.0

Part270 n77 HPUE Ant 5								
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				650000	656000	662000		
Frequency (MHz)				3760	3840	3920		
100	Pl2 BPSK	1	1	24.02	24.07	24.06		
100	Pl2 BPSK	1	137	24.01	24.02	24.01	26.0	0.0
100	Pl2 BPSK	1	271	24.02	24.03	24.03		
100	Pl2 BPSK	135	0	23.97	24.02	23.98	25.5	0.5
100	Pl2 BPSK	135	69	24.10	24.05	24.01	26.0	0.0
100	Pl2 BPSK	135	138	23.86	23.93	23.83	25.5	0.5
100	Pl2 BPSK	270	0	23.96	24.05	23.80		
100	QPSK	1	1	24.08	24.30	24.02		
100	QPSK	1	137	24.07	24.07	24.02	26.0	0.0
100	QPSK	1	271	24.03	24.02	24.01		
100	QPSK	135	0	23.87	24.02	23.92	25.0	1.0
100	QPSK	135	69	24.01	24.09	24.02	26.0	0.0
100	QPSK	135	138	24.01	24.02	23.95	25.0	1.0
100	QPSK	270	0	23.88	24.00	23.89		
100	16QAM	1	1	23.23	23.26	23.25	25.0	1.0
100	64QAM	1	1	21.53	21.54	21.51	23.5	2.5
100	256QAM	1	1	20.18	20.28	20.25	21.5	4.5
Channel				645334	650000	655666		
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	24.06	24.08	23.99	26.0	0.0
Channel				648666	650000	653334		
Frequency (MHz)				3720.02	3840	3940.01		
60	QPSK	1	1	23.96	24.04	23.91	26.0	0.0
Channel				648000	650000	654000		
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	23.91	24.04	23.84	26.0	0.0
Channel				647668	650000	654334		
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	23.98	24.07	23.98	26.0	0.0
Channel				641334	650000	658000		
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	23.98	24.10	23.99	26.0	0.0



Part27Q n77 Ant 5

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								
Frequency (MHz)				3500.01				
100	Pl2 BPSK	1	1	21.52				
100	Pl2 BPSK	1	137	21.49			23.0	0.0
100	Pl2 BPSK	1	271	21.40				
100	Pl2 BPSK	135	0	21.24			22.5	0.5
100	Pl2 BPSK	135	69	21.32			23.0	0.9
100	Pl2 BPSK	135	138	21.21			22.5	0.5
100	Pl2 BPSK	270	0	21.16				
100	QPSK	1	1	21.60				
100	QPSK	1	137	21.54			23.0	0.0
100	QPSK	1	271	21.47				
100	QPSK	135	0	21.17			22.0	1.0
100	QPSK	135	69	21.36			23.0	0.0
100	QPSK	135	138	21.13			22.0	1.0
100	QPSK	270	0	21.23				
100	16QAM	1	1	21.46			22.0	1.0
100	64QAM	1	1	19.91			20.5	2.5
100	256QAM	1	1	17.92			18.5	4.5
Channel				632968	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	21.38	21.46	21.45	23.0	0.0
Channel				632000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490	3500.01	3500.02		
60	QPSK	1	1	21.35	21.35	21.34	23.0	0.0
Channel				631334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	21.35	21.31	21.32	23.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	21.37	21.38	21.35	23.0	0.0
Channel				632000	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480.02	3500.01	3540		
20	QPSK	1	1	21.35	21.36	21.38	23.0	0.0

Part27Q n77 HPUE Ant 5

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								
Frequency (MHz)				3500.01				
100	Pl2 BPSK	1	1	24.23				
100	Pl2 BPSK	1	137	24.28			26.0	0.0
100	Pl2 BPSK	1	271	24.36				
100	Pl2 BPSK	135	0	24.27			25.5	0.5
100	Pl2 BPSK	135	69	24.32			26.0	0.9
100	Pl2 BPSK	135	138	24.37			25.5	0.5
100	Pl2 BPSK	270	0	24.33				
100	QPSK	1	1	24.63				
100	QPSK	1	137	24.25			26.0	0.0
100	QPSK	1	271	24.22				
100	QPSK	135	0	23.18			25.0	1.0
100	QPSK	135	69	24.24			26.0	0.0
100	QPSK	135	138	23.24			25.0	1.0
100	QPSK	270	0	22.89				
100	16QAM	1	1	23.24			25.0	1.0
100	64QAM	1	1	21.70			23.5	2.5
100	256QAM	1	1	19.84			21.5	4.5
Channel				632968	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	24.27	24.26	24.23	26.0	0.0
Channel				632000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490	3500.01	3500.02		
60	QPSK	1	1	24.21	24.28	24.28	26.0	0.0
Channel				631334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	24.20	24.25	24.27	26.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	24.29	24.22	24.25	26.0	0.0
Channel				632000	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480.02	3500.01	3540		
20	QPSK	1	1	24.25	24.26	24.21	26.0	0.0

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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								
Frequency (MHz)				3750				
100	Pl2 BPSK	1	1	21.13				
100	Pl2 BPSK	1	137	21.14			23.0	0.0
100	Pl2 BPSK	1	271	21.04				
100	Pl2 BPSK	135	0	20.96			22.5	0.5
100	Pl2 BPSK	135	69	21.03			23.0	0.9
100	Pl2 BPSK	135	138	20.95			22.5	0.5
100	Pl2 BPSK	270	0	20.98				
100	QPSK	1	1	21.20				
100	QPSK	1	137	21.03			23.0	0.0
100	QPSK	1	271	21.06				
100	QPSK	135	0	20.28			22.0	1.0
100	QPSK	135	69	21.15			23.0	0.0
100	QPSK	135	138	20.92			22.0	1.0
100	QPSK	270	0	20.95				
100	16QAM	1	1	21.04			22.0	1.0
100	64QAM	1	1	19.59			20.5	2.5
100	256QAM	1	1	17.83			18.5	4.5
Channel				648968	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
80	QPSK	1	1	21.14	21.16	21.01	23.0	0.0
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	21.09	21.09	21.18	23.0	0.0
Channel				648000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	21.07	21.11	21.04	23.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	21.07	21.10	21.15	23.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	21.04	21.12	21.11	23.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	21.02	21.01	21.18	23.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	21.11	21.17	21.08	23.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	21.10	21.05	21.03	23.0	0.0



Part270 n78 HPUE Ant 5									
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									
Frequency (MHz)				3750					
100	Pl2 BPSK	1	1	24.07					
100	Pl2 BPSK	1	137	24.25			26.0	0.0	
100	Pl2 BPSK	1	271	24.09					
100	Pl2 BPSK	135	0	24.12			25.5	0.5	
100	Pl2 BPSK	135	69	24.20			26.0	0.0	
100	Pl2 BPSK	135	138	23.99			25.5	0.5	
100	Pl2 BPSK	270	0	23.88			25.5	0.5	
100	QPSK	1	1	24.28					
100	QPSK	1	137	24.12			26.0	0.0	
100	QPSK	1	271	24.04					
100	QPSK	135	0	23.98			26.0	1.0	
100	QPSK	135	69	24.05			26.0	0.0	
100	QPSK	135	138	23.87			25.0	1.0	
100	QPSK	270	0	23.94			26.0	1.0	
100	16QAM	1	1	23.81			25.0	1.0	
100	64QAM	1	1	22.02			23.5	2.5	
100	256QAM	1	1	19.99			21.5	4.5	
Channel									
Frequency (MHz)				648968	650000	650334	Tune-up limit (dBm)	MPR	
Channel				3745.02	3750	3755.01	26.0	0.0	
80	QPSK	1	1	24.09	24.14	24.07	26.0	0.0	
Channel									
Frequency (MHz)				645334	630000	630668	Tune-up limit (dBm)	MPR	
Channel				3749.01	3750	3750.02	26.0	0.0	
80	QPSK	1	1	24.18	24.12	24.13	26.0	0.0	
Channel									
Frequency (MHz)				648900	650000	651000	Tune-up limit (dBm)	MPR	
Channel				3725	3750	3765	26.0	0.0	
70	QPSK	1	1	24.17	24.13	24.11	26.0	0.0	
Channel									
Frequency (MHz)				648968	650000	651334	Tune-up limit (dBm)	MPR	
Channel				3730.02	3750	3770.01	26.0	0.0	
60	QPSK	1	1	24.17	24.15	24.15	26.0	0.0	
Channel									
Frequency (MHz)				631334	630000	631668	Tune-up limit (dBm)	MPR	
Channel				3725.01	3750	3775.02	26.0	0.0	
50	QPSK	1	1	24.08	24.14	24.10	26.0	0.0	
Channel									
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR	
Channel				3700	3750	3780	26.0	0.0	
40	QPSK	1	1	24.20	24.09	24.08	26.0	0.0	
Channel									
Frequency (MHz)				647868	650000	652334	Tune-up limit (dBm)	MPR	
Channel				3715.02	3750	3765.01	26.0	0.0	
30	QPSK	1	1	24.15	24.09	24.14	26.0	0.0	
Channel									
Frequency (MHz)				647334	650000	650668	Tune-up limit (dBm)	MPR	
Channel				3710.01	3750	3760.02	26.0	0.0	
20	QPSK	1	1	24.19	24.10	24.13	26.0	0.0	

Part27Q n78 Ant 5									
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				3500.01					
Frequency (MHz)				3500.01					
100	Pl2 BPSK	1	1	21.42					
100	Pl2 BPSK	1	137	21.35			23.0	0.0	
100	Pl2 BPSK	1	271	21.34					
100	Pl2 BPSK	135	0	21.32			22.5	0.5	
100	Pl2 BPSK	135	69	21.37			23.0	0.0	
100	Pl2 BPSK	135	138	21.25			22.5	0.5	
100	Pl2 BPSK	270	0	21.39			22.5	0.5	
100	QPSK	1	1	21.46					
100	QPSK	1	137	21.17			23.0	0.0	
100	QPSK	1	271	21.05					
100	QPSK	135	0	20.49			22.0	1.0	
100	QPSK	135	69	21.45			23.0	0.0	
100	QPSK	135	138	20.36			22.0	1.0	
100	QPSK	270	0	20.48			22.0	1.0	
100	16QAM	1	1	21.11			22.0	1.0	
100	64QAM	1	1	19.57			20.5	2.5	
100	256QAM	1	1	17.86			18.5	4.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3495	3500.01	3505.02	23.0	0.0	
90	QPSK	1	1	21.40	21.36	21.17	23.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3490.02	3500.01	3510	23.0	0.0	
80	QPSK	1	1	21.32	21.39	21.36	23.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3485.01	3500.01	3515.01	23.0	0.0	
70	QPSK	1	1	21.53	21.23	21.26	23.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3480	3500.01	3520.02	23.0	0.0	
60	QPSK	1	1	21.24	21.35	21.21	23.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3475.02	3500.01	3525	23.0	0.0	
50	QPSK	1	1	21.32	21.25	21.16	23.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3470.01	3500.01	3540.01	23.0	0.0	
40	QPSK	1	1	21.41	21.26	21.44	23.0	0.0	
Channel				631000	633334	636668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3465	3500.01	3535.02	23.0	0.0	
30	QPSK	1	1	21.22	21.42	21.39	23.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3460.02	3500.01	3540	23.0	0.0	
20	QPSK	1	1	21.45	21.32	21.35	23.0	0.0	

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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									
Frequency (MHz)				3500.01					
100	Pl2 BPSK	1	1	24.54					
100	Pl2 BPSK	1	137	24.47			26.0	0.0	
100	Pl2 BPSK	1	271	24.49					
100	Pl2 BPSK	135	0	24.45			25.5	0.5	
100	Pl2 BPSK	135	69	24.46			26.0	0.0	
100	Pl2 BPSK	135	138	23.97			25.5	0.5	
100	Pl2 BPSK	270	0	23.97			25.5	0.5	
100	QPSK	1	1	24.57					
100	QPSK	1	137	24.53			26.0	0.0	
100	QPSK	1	271	24.41					
100	QPSK	135	0	24.23			25.0	1.0	
100	QPSK	135	69	24.44			26.0	0.0	
100	QPSK	135	138	24.25			25.0	1.0	
100	QPSK	270	0	24.31			26.0	0.0	
100	16QAM	1	1	23.09			25.0	1.0	
100	64QAM	1	1	21.56			23.5	2.5	
100	256QAM	1	1	19.57			21.5	4.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3495	3500.01	3505.02	26.0	0.0	
80	QPSK	1	1	24.36	24.46	24.43	26.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3490.02	3500.01	3510	26.0	0.0	
80	QPSK	1	1	24.37	24.42	24.32	26.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3485.01	3500.01	3515.01	26.0	0.0	
70	QPSK	1	1	24.47	24.59	24.25	26.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3480	3500.01	3520.02	26.0	0.0	
60	QPSK	1	1	24.28	24.51	24.42	26.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3475.02	3500.01	3525	26.0	0.0	
50	QPSK	1	1	24.41	24.41	24.34	26.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3470.01	3500.01	3540.01	26.0	0.0	
40	QPSK	1	1	24.40	24.41	24.34	26.0	0.0	
Channel				631000	633334	636668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3465	3500.01	3535.02	26.0	0.0	
30	QPSK	1	1	24.29	24.55	24.25	26.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3460.02	3500.01	3540	26.0	0.0	
20	QPSK	1	1	24.41	24.48	24.28	26.0	0.0	

n7 Ant 6									
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				502000	507000	512000			
Frequency (MHz)				2610	2635	2660			
20	PV2 BPSK	1	1	22.15	22.19	22.12	23.0	0.0	
20	PV2 BPSK	1	53	22.09	22.16	22.08			
20	PV2 BPSK	1	104	22.00	22.11	21.98			
20	PV2 BPSK	50	0	21.43	21.50	21.38	22.5	0.5	
20	PV2 BPSK	50	28	22.03	22.12	21.99	23.0	0.0	
20	PV2 BPSK	50	56	21.36	21.42	21.29	22.5	0.5	
20	PV2 BPSK	100	0	21.36	21.45	21.37			
20	QPSK	1	1	22.20	22.21	22.22	23.0	0.0	
20	QPSK	1	53	22.08	22.23	22.16			
20	QPSK	1	104	22.08	22.18	22.12			
20	QPSK	50	0	21.09	21.16	21.12	22.0	1.0	
20	QPSK	50	28	22.15	22.18	22.12	23.0	0.0	
20	QPSK	50	56	20.90	20.97	20.94	22.0	1.0	
20	QPSK	100	0	20.92	21.06	20.94			
20	16QAM	1	1	21.00	21.14	21.05	22.0	1.0	
20	64QAM	1	1	19.74	19.81	19.68	20.5	2.5	
20	256QAM	1	1	17.58	17.59	17.46	18.5	4.5	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2635	2562.5			
15	QPSK	1	1	22.13	22.18	22.08	23.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2635	2565			
10	QPSK	1	1	22.10	22.21	22.10	23.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2635	2567.5			
5	QPSK	1	1	22.03	22.14	22.06	23.0	0.0	



n38 Ant 6							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				518004	518000	518996	
Frequency (MHz)				2560.02	2565	2569.98	
40	PI2 BPSK	1	1	21.96	22.07	21.99	
40	PI2 BPSK	1	53	21.87	21.98	21.96	23.0
40	PI2 BPSK	1	104	21.82	21.97	21.94	
40	PI2 BPSK	50	0	21.34	21.47	21.31	22.5 0.5
40	PI2 BPSK	50	28	21.92	21.99	21.96	23.0 0.0
40	PI2 BPSK	50	56	21.22	21.35	21.30	22.5 0.5
40	PI2 BPSK	100	0	21.29	21.42	21.27	
40	QPSK	1	1	22.06	22.15	22.04	
40	QPSK	1	53	22.06	22.08	21.99	23.0 0.0
40	QPSK	1	104	21.95	22.01	21.97	
40	QPSK	50	0	20.77	20.88	20.81	22.0 1.0
40	QPSK	50	28	21.96	22.05	22.02	23.0 0.0
40	QPSK	50	56	20.72	20.87	20.77	22.0 1.0
40	QPSK	100	0	20.91	20.98	20.84	
40	16QAM	1	1	20.89	21.05	20.98	22.0 1.0
40	64QAM	1	1	19.87	19.70	19.61	20.5 2.5
40	256QAM	1	1	17.54	17.78	17.69	18.5 4.5
Channel				517002	518000	520000	
Frequency (MHz)				2585.01	2585	2604.99	
30	QPSK	1	1	21.95	22.12	21.89	23.0 0.0
Channel				516000	518000	520000	
Frequency (MHz)				2640	2645	2610	
20	QPSK	1	1	21.98	22.05	21.90	23.0 0.0

n41 Ant 6							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				509002	518998	528000	
Frequency (MHz)				2546.01	2552.98	2640	
100	PI2 BPSK	1	1	22.18	22.20	21.98	
100	PI2 BPSK	1	137	22.15	22.19	21.91	23.0 0.0
100	PI2 BPSK	1	271	22.21	22.24	21.99	
100	PI2 BPSK	135	0	21.74	21.85	21.56	22.5 0.5
100	PI2 BPSK	135	69	22.17	22.14	22.00	23.0 0.0
100	PI2 BPSK	135	138	21.95	21.74	21.56	22.5 0.5
100	PI2 BPSK	270	0	21.88	21.84	21.50	
100	QPSK	1	1	22.28	22.35	22.08	
100	QPSK	1	137	22.32	22.19	21.84	23.0 0.0
100	QPSK	1	271	22.10	21.82	22.03	
100	QPSK	135	0	21.24	21.42	21.07	22.0 1.0
100	QPSK	135	69	22.02	22.25	22.10	23.0 0.0
100	QPSK	135	138	21.39	21.30	21.13	22.0 1.0
100	QPSK	270	0	21.38	21.43	21.37	
100	16QAM	1	1	21.15	21.41	20.93	22.0 1.0
100	64QAM	1	1	19.81	19.97	19.55	20.5 2.5
100	256QAM	1	1	17.57	17.96	17.72	18.5 4.5
Channel				508000	518998	529998	
Frequency (MHz)				2641	2592.98	2644.98	
90	QPSK	1	1	21.87	21.89	21.93	23.0 0.0
Channel				507204	518998	529998	
Frequency (MHz)				2636.02	2592.99	2649.99	
80	QPSK	1	1	21.83	22.07	22.02	23.0 0.0
Channel				506202	518998	531000	
Frequency (MHz)				2631.01	2592.99	2655	
70	QPSK	1	1	21.83	21.86	21.83	23.0 0.0
Channel				505200	518998	531998	
Frequency (MHz)				2626	2592.99	2659.98	
60	QPSK	1	1	22.02	21.99	22.00	23.0 0.0
Channel				504204	518998	532998	
Frequency (MHz)				2621.02	2592.99	2664.99	
50	QPSK	1	1	21.86	22.07	21.99	23.0 0.0
Channel				503202	518998	534000	
Frequency (MHz)				2616.01	2592.99	2670	
40	QPSK	1	1	21.98	22.10	21.83	23.0 0.0
Channel				502200	518998	534998	
Frequency (MHz)				2611	2592.99	2674.98	
30	QPSK	1	1	21.90	22.02	22.04	23.0 0.0
Channel				501204	518998	535998	
Frequency (MHz)				2606.02	2592.99	2679.99	
20	QPSK	1	1	21.99	21.98	21.82	23.0 0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				509002	518998	528000	
Frequency (MHz)				2546.01	2552.99	2640	
100	PI2 BPSK	1	1	24.09	24.08	23.91	
100	PI2 BPSK	1	137	24.27	24.07	24.01	25.0 0.0
100	PI2 BPSK	1	271	23.94	24.19	24.06	
100	PI2 BPSK	135	0	23.56	23.92	23.29	24.5 0.5
100	PI2 BPSK	135	69	24.05	23.94	24.08	25.0 0.0
100	PI2 BPSK	135	138	23.92	23.53	23.76	24.5 0.5
100	PI2 BPSK	270	0	23.92	23.65	23.50	
100	QPSK	1	1	24.14	24.39	24.01	
100	QPSK	1	137	24.05	23.86	23.60	25.0 0.0
100	QPSK	1	271	24.06	23.76	23.98	
100	QPSK	135	0	23.21	23.28	23.01	24.0 1.0
100	QPSK	135	69	23.70	23.93	23.86	25.0 0.0
100	QPSK	135	138	23.10	23.37	22.99	24.0 1.0
100	QPSK	270	0	22.91	23.07	22.85	
100	16QAM	1	1	23.32	23.22	22.98	24.0 1.0
100	64QAM	1	1	21.58	21.53	21.39	22.5 2.5
100	256QAM	1	1	19.70	19.56	19.59	20.5 4.5
Channel				505000	518998	529998	
Frequency (MHz)				2641	2592.99	2644.98	
90	QPSK	1	1	24.23	24.16	24.13	25.0 0.0
Channel				507004	518998	529998	
Frequency (MHz)				2636.02	2592.99	2649.99	
80	QPSK	1	1	24.20	24.30	24.04	25.0 0.0
Channel				506002	518998	531000	
Frequency (MHz)				2631.01	2592.99	2655	
70	QPSK	1	1	24.23	24.18 <td>24.03</td> <td>25.0 0.0</td>	24.03	25.0 0.0
Channel				505000	518998	531998	
Frequency (MHz)				2626	2592.99	2659.98	
60	QPSK	1	1	24.14	24.13	24.13	25.0 0.0
Channel				503002	518998	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	24.25	24.18	24.10	25.0 0.0
Channel				503002	518998	534000	
Frequency (MHz)				2616.01	2592.99	2670	
40	QPSK	1	1	24.20	24.34	24.04	25.0 0.0
Channel				502000	518998	534998	
Frequency (MHz)				2611	2592.99	2674.98	
30	QPSK	1	1	24.27	24.16	24.06	25.0 0.0
Channel				501004	518998	535998	
Frequency (MHz)				2606.02	2592.99	2679.99	
20	QPSK	1	1	24.12	24.14	24.16	25.0 0.0



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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				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	Pl2 BPSK	1	1	22.30	22.44	22.58	23.0	0.0
100	Pl2 BPSK	1	137	22.11	22.29	22.32		
100	Pl2 BPSK	1	271	22.09	22.28	22.10		
100	Pl2 BPSK	135	0	21.78	21.87	21.84	22.5	0.5
100	Pl2 BPSK	135	69	22.42	22.43	22.33	23.0	0.0
100	Pl2 BPSK	135	138	21.86	21.75	21.84	22.5	0.5
100	Pl2 BPSK	270	0	21.83	21.84	21.82	23.0	0.0
100	QPSK	1	1	22.21	22.25	22.15		
100	QPSK	1	137	22.10	22.24	22.17		
100	QPSK	1	271	22.05	22.19	22.11		
100	QPSK	135	0	20.92	21.06	20.97	22.0	1.0
100	QPSK	135	69	22.11	22.23	22.10	23.0	0.0
100	QPSK	135	138	20.94	21.04	21.02	22.0	1.0
100	QPSK	270	0	21.75	21.76	21.75	22.0	1.0
100	16QAM	1	1	21.06	21.12	21.03	22.0	1.0
100	64QAM	1	1	19.89	19.79	19.67	20.5	2.5
100	256QAM	1	1	17.09	17.73	17.68	18.5	4.5
Channel				640000	650000	660000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	23.0	0.0
80	Pl2 BPSK	1	1	22.12	22.21	22.07	23.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3739.02	3840	3940.01	23.0	0.0
60	Pl2 BPSK	1	1	22.15	22.19	22.11	23.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	23.0	0.0
40	Pl2 BPSK	1	1	22.15	22.17	22.09	23.0	0.0
Channel				647668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01	23.0	0.0
30	Pl2 BPSK	1	1	22.05	22.23	22.09	23.0	0.0
Channel				647334	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	23.0	0.0
20	Pl2 BPSK	1	1	22.07	22.15	22.17	23.0	0.0

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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				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	Pl2 BPSK	1	1	24.51	24.53	24.29	26.0	0.0
100	Pl2 BPSK	1	137	24.04	24.04	24.08		
100	Pl2 BPSK	1	271	23.92	24.14	23.81		
100	Pl2 BPSK	135	0	23.33	23.39	23.24	25.5	0.5
100	Pl2 BPSK	135	69	24.10	24.24	23.95	26.0	0.0
100	Pl2 BPSK	135	138	23.15	23.04	23.09	25.5	0.5
100	Pl2 BPSK	270	0	23.10	23.25	23.23	25.0	1.0
100	QPSK	1	1	23.39	23.57	23.52		
100	QPSK	1	137	23.06	23.23	23.12		
100	QPSK	1	271	23.10	23.24	23.06		
100	QPSK	135	0	22.27	22.55	22.26	24.0	2.0
100	QPSK	135	69	23.18	23.23	23.18	25.0	1.0
100	QPSK	135	138	22.19	22.23	21.96	24.0	2.0
100	QPSK	270	0	22.06	22.18	22.24	25.0	1.0
100	16QAM	1	1	23.09	23.32	23.01	25.0	1.0
100	64QAM	1	1	21.28	21.48	21.14	23.0	3.0
100	256QAM	1	1	19.71	19.61	19.61	21.5	4.5
Channel				640000	650000	660000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	26.0	0.0
80	Pl2 BPSK	1	1	24.27	24.21	24.21	26.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3739.02	3840	3940.01	26.0	0.0
60	Pl2 BPSK	1	1	24.23	24.39	24.19	26.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	26.0	0.0
40	Pl2 BPSK	1	1	24.25	24.19	24.09	26.0	0.0
Channel				647668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01	26.0	0.0
30	Pl2 BPSK	1	1	24.10	24.21	24.26	26.0	0.0
Channel				647334	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	26.0	0.0
20	Pl2 BPSK	1	1	24.20	24.16	24.17	26.0	0.0

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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				630000	633334	636668		
Frequency (MHz)				3500.01				
100	Pl2 BPSK	1	1	22.23			23.0	0.0
100	Pl2 BPSK	1	137	21.71				
100	Pl2 BPSK	1	271	21.68				
100	Pl2 BPSK	135	0	20.84			22.0	1.0
100	Pl2 BPSK	135	69	22.14			23.0	0.0
100	Pl2 BPSK	135	138	20.69			22.0	1.0
100	Pl2 BPSK	270	0	20.71			22.0	1.0
100	QPSK	1	1	21.15				
100	QPSK	1	137	20.86				
100	QPSK	1	271	20.82				
100	QPSK	135	0	19.75			20.5	2.5
100	QPSK	135	69	21.27			22.0	1.0
100	QPSK	135	138	19.81			20.5	2.5
100	QPSK	270	0	19.75			21.0	2.0
100	16QAM	1	1	20.21			19.5	3.5
100	64QAM	1	1	18.58			17.5	5.0
100	256QAM	1	1	17.15			16.0	6.0
Channel				630968	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510	23.0	0.0
80	Pl2 BPSK	1	1	22.05	22.05	22.20	23.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3490.01	3500.02	23.0	0.0
60	Pl2 BPSK	1	1	22.18	22.01	22.07	23.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01	23.0	0.0
40	Pl2 BPSK	1	1	22.02	22.22	22.10	23.0	0.0
Channel				631000	633334	635968	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02	23.0	0.0
30	Pl2 BPSK	1	1	22.05	22.09	22.04	23.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540	23.0	0.0
20	Pl2 BPSK	1	1	22.03	22.02	22.09	23.0	0.0



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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								
Frequency (MHz)				3500.01				
100	Pl2 BPSK	1	1	24.53			26.0	0.0
100	Pl2 BPSK	1	137	24.81				
100	Pl2 BPSK	1	271	24.53				
100	Pl2 BPSK	135	0	24.29			25.5	0.5
100	Pl2 BPSK	135	69	24.63			26.0	0.0
100	Pl2 BPSK	135	138	24.18			25.5	0.5
100	Pl2 BPSK	270	0	24.38			25.0	1.0
100	QPSK	1	1	24.01				
100	QPSK	1	137	23.79				
100	QPSK	1	271	23.59			24.0	2.0
100	QPSK	135	0	23.22				
100	QPSK	135	69	23.82				
100	QPSK	135	138	23.18			24.0	2.0
100	QPSK	270	0	23.47			24.5	1.5
100	16QAM	1	1	23.51				
100	64QAM	1	1	21.85				
100	256QAM	1	1	20.08			23.0	3.0
Channel				630968	633334	634000	21.0	5.0
Frequency (MHz)				3489.02	3500.01	3510		
80	Pl2 BPSK	1	1	24.36	24.41	24.44	26.0	0.0
Channel								
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
80	Pl2 BPSK	1	1	24.46	24.50	24.37	26.0	0.0
Channel								
Frequency (MHz)				631334	633334	636334	Tune-up limit (dBm)	MPR (dB)
40	Pl2 BPSK	1	1	24.52	24.44	24.40	23.0	0.0
Channel								
Frequency (MHz)				637000	633334	635668	Tune-up limit (dBm)	MPR (dB)
30	Pl2 BPSK	1	1	24.41	24.37	24.43	26.0	0.0
Channel								
Frequency (MHz)				635000	633334	636000	Tune-up limit (dBm)	MPR (dB)
20	Pl2 BPSK	1	1	24.37	24.47	24.50	26.0	0.0

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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								
Frequency (MHz)				3750				
100	Pl2 BPSK	1	1	21.64			23.0	0.0
100	Pl2 BPSK	1	137	21.05				
100	Pl2 BPSK	1	271	20.98				
100	Pl2 BPSK	135	0	20.37			22.5	0.5
100	Pl2 BPSK	135	69	21.05			23.0	0.0
100	Pl2 BPSK	135	138	20.07			22.5	0.5
100	Pl2 BPSK	270	0	20.29			22.5	0.5
100	QPSK	1	1	21.28				
100	QPSK	1	137	20.79				
100	QPSK	1	271	20.69			21.5	1.5
100	QPSK	135	0	20.06				
100	QPSK	135	69	20.82				
100	QPSK	135	138	19.63			21.5	1.5
100	QPSK	270	0	20.11			22.0	1.0
100	16QAM	1	1	20.77				
100	64QAM	1	1	19.41				
100	256QAM	1	1	18.23			20.5	2.5
Channel				648968	650000	650334	18.5	4.5
Frequency (MHz)				3745.02	3750	3755.01		
90	Pl2 BPSK	1	1	21.62	21.59	21.54	23.0	0.0
Channel								
Frequency (MHz)				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	Pl2 BPSK	1	1	21.07	21.10	21.11	23.0	0.0
Channel								
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
70	Pl2 BPSK	1	1	21.03	21.09	21.08	23.0	0.0
Channel								
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
60	Pl2 BPSK	1	1	20.45	20.43	20.47	23.0	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
50	Pl2 BPSK	1	1	21.07	21.10	21.11	23.0	0.0
Channel								
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
40	Pl2 BPSK	1	1	20.12	20.12	20.11	23.0	0.0
Channel								
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
30	Pl2 BPSK	1	1	20.37	20.38	20.36	23.0	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
20	Pl2 BPSK	1	1	20.90	20.88	20.89	23.0	0.0

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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								
Frequency (MHz)				3750				
100	Pl2 BPSK	1	1	24.29			26.0	0.0
100	Pl2 BPSK	1	137	23.92				
100	Pl2 BPSK	1	271	23.69				
100	Pl2 BPSK	135	0	23.56			25.5	0.5
100	Pl2 BPSK	135	69	23.73			26.0	0.0
100	Pl2 BPSK	135	138	23.30			25.5	0.5
100	Pl2 BPSK	270	0	23.04			25.5	0.5
100	QPSK	1	1	23.56				
100	QPSK	1	137	23.62				
100	QPSK	1	271	22.71			24.0	2.0
100	QPSK	135	0	22.80				
100	QPSK	135	69	22.72				
100	QPSK	135	138	22.36			24.0	2.0
100	QPSK	270	0	22.52			24.5	1.5
100	16QAM	1	1	22.89				
100	64QAM	1	1	21.89				
100	256QAM	1	1	19.63			23.5	2.5
Channel				648968	650000	650334	21.5	4.5
Frequency (MHz)				3745.02	3750	3755.01		
90	Pl2 BPSK	1	1	24.16	24.11	24.02	26.0	0.0
Channel								
Frequency (MHz)				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	Pl2 BPSK	1	1	24.02	24.11	23.93	26.0	0.0
Channel								
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
70	Pl2 BPSK	1	1	24.01	24.01	24.19	26.0	0.0
Channel								
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
60	Pl2 BPSK	1	1	24.02	24.09	23.89	26.0	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
50	Pl2 BPSK	1	1	24.11	24.11	23.94	26.0	0.0
Channel								
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
40	Pl2 BPSK	1	1	24.16	24.24	23.90	26.0	0.0
Channel								
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
30	Pl2 BPSK	1	1	23.89	24.10	23.97	26.0	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
20	Pl2 BPSK	1	1	24.06	24.02	24.01	26.0	0.0

Part27Q n78 Ant 6									
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				3500.01					
Frequency (MHz)				22.03					
100	PI2 BPSK	1	1		22.01		23.0	0.0	
100	PI2 BPSK	1	137		22.01				
100	PI2 BPSK	1	271		21.00		22.5	0.5	
100	PI2 BPSK	135	0		21.85		23.0	0.5	
100	PI2 BPSK	135	138		20.81		22.5	0.5	
100	PI2 BPSK	270	0		20.95				
100	QPSK	1	1		21.84				
100	QPSK	1	137		21.78		22.5	0.5	
100	QPSK	1	271		21.48				
100	QPSK	135	0		20.70		21.5	1.5	
100	QPSK	135	69		21.61		22.5	0.5	
100	QPSK	135	138		20.57		21.5	1.5	
100	QPSK	270	0		20.76				
100	16QAM	1	1		21.05		22.0	1.0	
100	64QAM	1	1		19.56		20.5	2.5	
100	256QAM	1	1		18.01		19.0	4.0	
Channel				633000	633334	633668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3495	3500.01	3505.02			
90	PI2 BPSK	1	1		22.02	21.91	21.88	23.0	0.0
Channel				630968	633334	634000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3499.02	3500.01	3501.01			
80	PI2 BPSK	1	1		21.86	21.97	21.89	23.0	0.0
Channel				632334	633334	634334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	PI2 BPSK	1	1		21.67	21.69	21.52	23.0	0.0
Channel				632000	633334	634668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3480	3500.01	3520.02			
60	PI2 BPSK	1	1		21.88	21.87	21.97	23.0	0.0
Channel				631668	633334	635000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3475.02	3500.01	3525			
50	PI2 BPSK	1	1		21.98	21.94	21.94	23.0	0.0
Channel				631334	633334	635334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	PI2 BPSK	1	1		21.90	22.00	21.92	23.0	0.0
Channel				631000	633334	636668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3465	3500.01	3535.02			
30	PI2 BPSK	1	1		21.96	21.98	21.88	23.0	0.0
Channel				630668	633334	635000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3460.02	3500.01	3540			
20	PI2 BPSK	1	1		22.01	21.90	21.88	23.0	0.0

Part27Q n78 HPUE Ant 6									
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				3500.01					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		24.78		26.0	0.0	
100	PI2 BPSK	1	137		24.67				
100	PI2 BPSK	1	271		24.56				
100	PI2 BPSK	135	0		24.23		25.5	0.5	
100	PI2 BPSK	135	69		24.66		26.0	0.5	
100	PI2 BPSK	135	138		24.05		25.5	0.5	
100	PI2 BPSK	270	0		24.15				
100	QPSK	1	1		23.93				
100	QPSK	1	137		23.98		25.0	1.0	
100	QPSK	1	271		23.45				
100	QPSK	135	0		23.30		24.0	2.0	
100	QPSK	135	69		23.69		25.0	1.0	
100	QPSK	135	138		23.19		24.0	2.0	
100	QPSK	270	0		23.23				
100	16QAM	1	1		22.78		24.0	2.0	
100	64QAM	1	1		21.71		23.0	3.0	
100	256QAM	1	1		19.79		21.0	5.0	
Channel				633000	633334	633668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3495	3500.01	3505.02			
90	PI2 BPSK	1	1	24.01	24.52	24.62	26.0	0.0	
Channel				630968	633334	634000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3499.02	3500.01	3501.01			
80	PI2 BPSK	1	1	24.07	24.62	24.71	26.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	PI2 BPSK	1	1	24.07	24.50	24.57	26.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3480	3500.01	3520.02			
60	PI2 BPSK	1	1	24.04	24.50	24.63	26.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3475.02	3500.01	3525			
50	PI2 BPSK	1	1	24.03	24.54	24.60	26.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	PI2 BPSK	1	1	24.01	24.54	24.69	26.0	0.0	
Channel				631000	633334	636668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3465	3500.01	3535.02			
30	PI2 BPSK	1	1	24.71	24.49	24.61	26.0	0.0	
Channel				630668	633334	635000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3460.02	3500.01	3540			
20	PI2 BPSK	1	1	24.04	24.59	24.52	26.0	0.0	

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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				50200	50700	51200		
Frequency (MHz)				2510	2535	2560		
20	PV2 BPSK	1	1	21.21	21.35	21.27	23.0	0.0
20	PV2 BPSK	1	53	21.13	21.29	21.15		
20	PV2 BPSK	1	104	21.14	21.25	21.18	22.5	0.5
20	PV2 BPSK	50	0	20.82	20.71	20.81		
20	PV2 BPSK	50	28	21.19	21.25	21.25	23.0	0.0
20	PV2 BPSK	50	56	20.51	20.63	20.56	22.5	0.5
20	PV2 BPSK	100	0	20.52	20.67	20.58		
20	QPSK	1	1	21.33	21.41	21.33	23.0	0.0
20	QPSK	1	53	21.23	21.33	21.27		
20	QPSK	1	104	21.25	21.30	21.19	22.0	1.0
20	QPSK	50	0	20.13	20.22	20.15		
20	QPSK	50	28	21.22	21.34	21.29	23.0	0.0
20	QPSK	50	56	20.02	20.03	20.01	22.0	1.0
20	QPSK	100	0	20.03	20.05	20.04		
20	16QAM	1	1	20.22	20.32	20.21	22.0	1.0
20	64QAM	1	1	18.82	18.88	18.82	20.5	2.5
20	256QAM	1	1	16.58	16.71	16.54	18.5	4.5
Channel				50150	50700	51250	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	21.25	21.32	21.28	23.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	21.19	21.27	21.26	23.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	21.20	21.33	21.25	23.0	0.0



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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				516004	516000	516996			
Frequency (MHz)				2580.02	2595	2599.98			
40	PQ2 BPSK	1	1	19.91	20.01	19.82			
40	PQ2 BPSK	1	53	19.90	19.97	19.91	21.0	0.0	
40	PQ2 BPSK	1	104	19.92	20.06	19.90			
40	PQ2 BPSK	50	0	19.48	19.45	19.45	20.5	0.5	
40	PQ2 BPSK	50	28	19.87	19.98	19.94	21.0	0.0	
40	PQ2 BPSK	50	56	19.61	19.59	19.44	20.5	0.5	
40	PQ2 BPSK	100	0	19.60	19.59	19.46			
40	QPSK	1	1	20.03	20.11	20.00	21.0	0.0	
40	QPSK	1	53	19.88	19.92	19.88			
40	QPSK	1	104	19.91	19.99	19.91			
40	QPSK	50	0	18.99	18.99	18.98	20.0	1.0	
40	QPSK	50	28	20.00	20.02	19.99	21.0	0.0	
40	QPSK	50	56	18.93	18.92	18.95	20.0	1.0	
40	QPSK	100	0	18.97	18.95	18.97			
40	16QAM	1	1	18.95	18.97	18.92	20.0	1.0	
40	64QAM	1	1	17.52	17.54	17.45	18.5	2.5	
40	256QAM	1	1	15.58	15.57	15.51	16.5	4.5	
Channel				517002	516000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	19.95	19.97	19.97	21.0	0.0	
Channel				516000	516000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2590	2595	2610			
20	QPSK	1	1	19.95	20.00	19.88	21.0	0.0	

n41 Ant 7									
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				506202	518598	520998			
Frequency (MHz)				2548.01	2592.99	2640			
100	PQ2 BPSK	1	1	20.02	20.09	19.93			
100	PQ2 BPSK	1	137	19.97	20.02	20.03	21.0	0.0	
100	PQ2 BPSK	1	271	20.04	20.11	20.03			
100	PQ2 BPSK	135	0	19.58	19.62	19.58	20.5	0.5	
100	PQ2 BPSK	135	69	20.00	20.06	20.05	21.0	0.0	
100	PQ2 BPSK	135	138	19.65	19.64	19.58	20.5	0.5	
100	PQ2 BPSK	270	0	19.68	19.62	19.54			
100	QPSK	1	1	20.10	20.15	20.08	21.0	0.0	
100	QPSK	1	137	20.00	20.04	19.94			
100	QPSK	1	271	19.99	20.10	20.05			
100	QPSK	135	0	19.06	19.07	19.06	20.0	1.0	
100	QPSK	135	69	20.08	20.10	20.05	21.0	0.0	
100	QPSK	135	138	19.05	19.10	19.02	20.0	1.0	
100	QPSK	270	0	19.08	19.13	19.06			
100	16QAM	1	1	19.08	19.09	19.04	20.0	1.0	
100	64QAM	1	1	17.61	17.60	17.58	18.5	2.5	
100	256QAM	1	1	15.64	15.69	15.58	16.5	4.5	
Channel				506202	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.99	20.02	19.94	21.0	0.0	
Channel				507204	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2643.99			
80	QPSK	1	1	19.95	20.03	19.95	21.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	19.95	19.99	20.00	21.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	19.95	20.05	19.95	21.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.97	20.02	19.92	21.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	20.00	20.00	19.94	21.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	19.99	20.08	19.89	21.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	20.02	20.01	19.94	21.0	0.0	

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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				506202	518598	530000			
Frequency (MHz)				2548.01	2592.99	2640			
100	PQ2 BPSK	1	1	21.83	21.90	21.80			
100	PQ2 BPSK	1	137	21.82	21.86	21.78	23.0	0.0	
100	PQ2 BPSK	1	271	21.82	21.83	21.87			
100	PQ2 BPSK	135	0	21.47	21.47	21.50	22.5	0.5	
100	PQ2 BPSK	135	69	21.87	21.85	21.89	23.0	0.5	
100	PQ2 BPSK	135	138	21.41	21.47	21.45	22.5	0.5	
100	PQ2 BPSK	270	0	21.38	21.51	21.41			
100	QPSK	1	1	21.92	21.96	21.96	23.0	0.0	
100	QPSK	1	137	21.84	21.86	21.79			
100	QPSK	1	271	21.81	21.90	21.82			
100	QPSK	135	0	20.90	20.99	20.98	22.0	1.0	
100	QPSK	135	69	21.81	21.88	21.85	23.0	0.0	
100	QPSK	135	138	20.91	20.90	20.93	22.0	1.0	
100	QPSK	270	0	20.95	20.97	20.96			
100	16QAM	1	1	20.86	20.96	20.91	22.0	1.0	
100	64QAM	1	1	18.64	18.58	19.50	20.5	2.5	
100	256QAM	1	1	17.44	17.46	17.43	18.5	4.5	
Channel				506202	518598	532996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.85	21.91	21.88	23.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2649.99			
80	QPSK	1	1	21.77	21.89	21.85	23.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	21.82	21.87	21.81	23.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	21.84	21.86	21.84	23.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	21.89	21.86	21.87	23.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	21.81	21.87	21.81	23.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	21.77	21.83	21.81	23.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.80	21.87	21.87	23.0	0.0	



n48 Part96 Ant 8									
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				636000	641666	646332			
Frequency (MHz)				3520	3624.99	3679.98			
40	Pl2 BPSK	1	1	22.75	22.63	22.91		24.0	0.0
40	Pl2 BPSK	1	53	22.92	22.84	22.92			
40	Pl2 BPSK	1	104	22.17	22.23	22.28			
40	Pl2 BPSK	50	0	21.55	21.73	21.66	23.5	0.5	
40	Pl2 BPSK	50	28	22.51	22.83	22.76	24.0	0.0	
40	Pl2 BPSK	50	56	22.13	22.16	21.96	23.5	0.5	
40	Pl2 BPSK	100	0	22.11	22.15	21.68		23.5	0.5
40	QPSK	1	1	21.80	21.96	22.07			
40	QPSK	1	53	21.77	21.72	21.74			
40	QPSK	1	104	21.37	21.36	21.18		23.5	0.5
40	QPSK	50	0	21.56	21.86	21.73	22.5		
40	QPSK	50	28	20.67	20.80	20.80	23.5		
40	QPSK	50	56	21.14	21.00	20.97	22.5	1.5	
40	QPSK	100	0	21.10	21.20	20.67	22.5	1.5	
40	16QAM	1	1	20.35	20.52	20.52	22.5	1.5	
40	64QAM	1	1	18.84	19.11	19.06	21.0	3.0	
40	256QAM	1	1	17.54	17.62	17.50	19.5	4.5	
Channel				637534	641666	646332			
Frequency (MHz)				3560.01	3624.99	3690			
20	Pl2 BPSK	1	1	22.81	22.85	22.75	24.0	0.0	

Part270 n77 Ant 8									
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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	Pl2 BPSK	1	1	20.21	20.23	20.07		21.5	0.0
100	Pl2 BPSK	1	137	19.80	19.81	19.49			
100	Pl2 BPSK	1	271	19.92	19.84	19.74			
100	Pl2 BPSK	135	0	18.77	19.04	18.82	21.0	0.5	
100	Pl2 BPSK	135	69	19.74	19.93	19.96	21.5	0.0	
100	Pl2 BPSK	135	138	18.79	18.98	18.60	21.0	0.5	
100	Pl2 BPSK	270	0	18.64	19.01	18.92		21.5	0.0
100	QPSK	1	1	20.02	20.04	19.87			
100	QPSK	1	137	19.53	19.72	19.49			
100	QPSK	1	271	19.76	19.71	19.64		20.5	1.0
100	QPSK	135	0	18.61	18.88	18.77	20.5		
100	QPSK	135	69	19.68	19.92	19.64	21.5		
100	QPSK	135	138	18.56	18.95	18.63	20.5	1.0	
100	QPSK	270	0	18.46	18.96	18.70	20.5	1.0	
100	16QAM	1	1	18.81	18.91	18.86	20.5	1.0	
100	64QAM	1	1	18.20	18.47	18.32	19.0	2.5	
100	256QAM	1	1	16.79	16.92	16.99	17.0	4.5	
Channel				643334	650000	656000			
Frequency (MHz)				3740.01	3840	3940.02			
80	Pl2 BPSK	1	1	20.18	20.10	19.88	21.5	0.0	
Channel				648668	656000	663334			
Frequency (MHz)				3720.02	3840	3940.01			
60	Pl2 BPSK	1	1	20.19	20.17	20.01	21.5	0.0	
Channel				648000	656000	664000			
Frequency (MHz)				3720	3840	3960			
40	Pl2 BPSK	1	1	20.21	20.18	20.09	21.5	0.0	
Channel				647668	656000	664334			
Frequency (MHz)				3715.02	3840	3965.01			
30	Pl2 BPSK	1	1	20.15	20.14	19.97	21.5	0.0	
Channel				641254	650000	658000			
Frequency (MHz)				3710.01	3840	3970.02			
20	Pl2 BPSK	1	1	20.11	20.14	19.78	21.5	0.0	

Part270 n77 HPUE Ant 8									
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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	Pl2 BPSK	1	1	22.65	22.97	22.84		24.5	0.0
100	Pl2 BPSK	1	137	22.49	22.68	22.61			
100	Pl2 BPSK	1	271	22.59	22.60	22.66			
100	Pl2 BPSK	135	0	22.70	22.66	22.46	24.0	0.5	
100	Pl2 BPSK	135	69	22.59	22.75	22.51	24.5	0.0	
100	Pl2 BPSK	135	138	22.06	22.10	21.93	24.0	0.5	
100	Pl2 BPSK	270	0	21.97	22.28	22.10		23.5	1.0
100	QPSK	1	1	21.47	21.80	22.04			
100	QPSK	1	137	21.56	21.87	21.54			
100	QPSK	1	271	21.59	21.35	21.53		23.0	1.5
100	QPSK	135	0	21.64	21.63	21.58	23.0		
100	QPSK	135	69	21.55	21.65	21.50	23.5		
100	QPSK	135	138	20.83	20.91	21.00	23.0	1.5	
100	QPSK	270	0	21.10	21.26	21.03	23.0	1.5	
100	16QAM	1	1	21.00	21.07	21.13	23.0	1.5	
100	64QAM	1	1	19.50	19.88	19.72	21.5	3.0	
100	256QAM	1	1	17.73	17.94	17.85	20.0	4.5	
Channel				643334	650000	656000			
Frequency (MHz)				3740.01	3840	3940.02			
80	Pl2 BPSK	1	1	22.49	22.77	22.72	24.5	0.0	
Channel				648668	656000	663334			
Frequency (MHz)				3720.02	3840	3940.01			
60	Pl2 BPSK	1	1	22.38	22.66	22.66	24.5	0.0	
Channel				648000	656000	664000			
Frequency (MHz)				3720	3840	3960			
40	Pl2 BPSK	1	1	22.69	22.63	22.64	24.5	0.0	
Channel				647668	656000	664334			
Frequency (MHz)				3715.02	3840	3965.01			
30	Pl2 BPSK	1	1	22.56	22.66	22.59	24.5	0.0	
Channel				641254	650000	658000			
Frequency (MHz)				3710.01	3840	3970.02			
20	Pl2 BPSK	1	1	22.72	22.60	22.77	24.5	0.0	



Part27Q n77 Ant 8

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								
Frequency (MHz)				3500.01				
100	Pl2 BPSK	1	1	21.20				
100	Pl2 BPSK	1	137	21.23			21.5	0.0
100	Pl2 BPSK	1	271	21.25				
100	Pl2 BPSK	135	0	20.34			21.5	0.0
100	Pl2 BPSK	135	69	21.10			21.5	0.0
100	Pl2 BPSK	135	138	20.42			21.5	0.0
100	Pl2 BPSK	270	0	20.23				
100	QPSK	1	1	20.95				
100	QPSK	1	137	20.91			21.5	0.0
100	QPSK	1	271	20.92				
100	QPSK	135	0	20.13			20.5	1.0
100	QPSK	135	69	20.85			21.5	0.0
100	QPSK	135	138	20.18			20.5	1.0
100	QPSK	270	0	20.08				
100	16QAM	1	1	20.67			21.0	0.5
100	64QAM	1	1	19.08			19.5	2.0
100	256QAM	1	1	17.68			18.0	3.5
Channel				632068	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480.02	3500.01	3510		
80	Pl2 BPSK	1	1	20.58	20.70	20.41	21.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3440	3500.01	3500.02		
80	Pl2 BPSK	1	1	20.47	20.63	20.66	21.5	0.0
Channel				631334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3476.01	3500.01	3530.01		
40	Pl2 BPSK	1	1	20.14	20.73	20.78	21.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	Pl2 BPSK	1	1	20.55	20.84	20.76	21.5	0.0
Channel				632000	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	Pl2 BPSK	1	1	20.81	20.73	20.81	21.5	0.0

Part27Q n77 HPUE Ant 8

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								
Frequency (MHz)				3500.01				
100	Pl2 BPSK	1	1	23.09				
100	Pl2 BPSK	1	137	23.24			24.5	0.0
100	Pl2 BPSK	1	271	23.18				
100	Pl2 BPSK	135	0	22.91			24.0	0.5
100	Pl2 BPSK	135	69	22.95			24.5	0.0
100	Pl2 BPSK	135	138	22.92			24.0	0.5
100	Pl2 BPSK	270	0	22.55				
100	QPSK	1	1	22.34				
100	QPSK	1	137	22.26			23.5	1.0
100	QPSK	1	271	21.98				
100	QPSK	135	0	21.66			23.0	1.5
100	QPSK	135	69	22.29			23.5	1.0
100	QPSK	135	138	21.28			23.0	1.5
100	QPSK	270	0	21.10				
100	16QAM	1	1	22.33			23.0	1.5
100	64QAM	1	1	19.77			21.5	3.0
100	256QAM	1	1	18.02			19.5	5.0
Channel				632068	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480.02	3500.01	3510		
80	Pl2 BPSK	1	1	23.22	23.10	23.03	24.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3440	3500.01	3500.02		
80	Pl2 BPSK	1	1	23.37	23.07	23.21	24.5	0.0
Channel				631334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3476.01	3500.01	3530.01		
40	Pl2 BPSK	1	1	23.00	23.13	23.09	24.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	Pl2 BPSK	1	1	23.35	22.97	23.08	24.5	0.0
Channel				632000	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	Pl2 BPSK	1	1	23.08	23.14	23.31	24.5	0.0

Part27O n78 Ant 8

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								
Frequency (MHz)				3750				
100	Pl2 BPSK	1	1	20.11				
100	Pl2 BPSK	1	137	19.97			21.5	0.0
100	Pl2 BPSK	1	271	20.00				
100	Pl2 BPSK	135	0	19.54			21.0	0.5
100	Pl2 BPSK	135	69	19.84			21.5	0.0
100	Pl2 BPSK	135	138	18.88			21.0	0.5
100	Pl2 BPSK	270	0	19.17				
100	QPSK	1	1	19.20				
100	QPSK	1	137	19.15			20.5	1.0
100	QPSK	1	271	19.10				
100	QPSK	135	0	18.67			19.5	2.0
100	QPSK	135	69	19.16			20.5	1.0
100	QPSK	135	138	18.14			19.5	2.0
100	QPSK	270	0	18.24				
100	16QAM	1	1	18.36			18.5	3.0
100	64QAM	1	1	17.85			18.5	3.0
100	256QAM	1	1	16.14			16.5	5.0
Channel				648068	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
80	Pl2 BPSK	1	1	20.07	20.00	20.01	21.5	0.0
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	Pl2 BPSK	1	1	20.03	20.02	20.03	21.5	0.0
Channel				648000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	Pl2 BPSK	1	1	20.11	20.05	20.02	21.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	Pl2 BPSK	1	1	20.05	20.15	20.15	21.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	Pl2 BPSK	1	1	20.02	20.03	20.01	21.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	Pl2 BPSK	1	1	20.11	20.05	20.07	21.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	Pl2 BPSK	1	1	20.02	20.03	20.05	21.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	Pl2 BPSK	1	1	20.05	20.06	20.06	21.5	0.0



Part270 n78 HPUE Ant 8

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								
Frequency (MHz)				3750				
100	Pl2 BPSK	1	1	22.69				
100	Pl2 BPSK	1	137	22.70			24.5	0.0
100	Pl2 BPSK	1	271	22.34				
100	Pl2 BPSK	135	0	22.35			23.5	1.0
100	Pl2 BPSK	135	69	22.76			24.5	0.0
100	Pl2 BPSK	135	138	22.04			23.5	1.0
100	Pl2 BPSK	270	0	22.21				
100	QPSK	1	1	21.74				
100	QPSK	1	137	21.86			23.5	1.0
100	QPSK	1	271	21.22				
100	QPSK	135	0	21.12			22.0	2.5
100	QPSK	135	69	21.50			23.5	1.0
100	QPSK	135	138	20.95			22.0	2.5
100	QPSK	270	0	21.01				
100	16QAM	1	1	20.88			22.5	2.0
100	64QAM	1	1	19.55			21.0	3.5
100	256QAM	1	1	17.96			19.5	5.0
Channel				640968	650334		Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	Pl2 BPSK	1	1	22.53	22.47	22.36	24.5	0.0
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3748.01	3750	3750.02		
80	Pl2 BPSK	1	1	22.37	22.67	22.56	24.5	0.0
Channel				648000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	Pl2 BPSK	1	1	22.15	22.53	22.50	24.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	Pl2 BPSK	1	1	22.60	22.58	22.56	24.5	0.0
Channel				643334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	Pl2 BPSK	1	1	22.43	22.57	22.46	24.5	0.0
Channel				648000	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	Pl2 BPSK	1	1	22.60	22.52	22.32	24.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3765.01		
30	Pl2 BPSK	1	1	22.41	22.80	22.52	24.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3780.02		
20	Pl2 BPSK	1	1	22.51	22.59	22.47	24.5	0.0

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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								
Frequency (MHz)				3500.01				
100	Pl2 BPSK	1	1	20.62				
100	Pl2 BPSK	1	137	20.71			21.5	0.0
100	Pl2 BPSK	1	271	20.58				
100	Pl2 BPSK	135	0	20.23			21.0	0.5
100	Pl2 BPSK	135	69	20.87			21.5	0.0
100	Pl2 BPSK	135	138	19.75			21.0	0.5
100	Pl2 BPSK	270	0	19.70				
100	QPSK	1	1	19.97				
100	QPSK	1	137	19.67			20.5	1.0
100	QPSK	1	271	19.73				
100	QPSK	135	0	19.15			19.5	2.0
100	QPSK	135	69	19.94			20.5	1.0
100	QPSK	135	138	18.93			19.5	2.0
100	QPSK	270	0	19.66				
100	16QAM	1	1	19.35			20.0	1.5
100	64QAM	1	1	18.59			18.5	3.0
100	256QAM	1	1	17.17			17.0	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	Pl2 BPSK	1	1	21.74	21.02	21.54	21.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	Pl2 BPSK	1	1	21.74	21.73	21.81	21.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	Pl2 BPSK	1	1	21.73	21.71	21.59	21.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	Pl2 BPSK	1	1	21.80	21.63	21.48	21.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	Pl2 BPSK	1	1	21.33	21.80	21.59	21.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3520.01		
40	Pl2 BPSK	1	1	21.70	21.02	21.66	21.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	Pl2 BPSK	1	1	21.53	21.56	21.49	21.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	Pl2 BPSK	1	1	21.63	21.53	21.59	21.5	0.0

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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								
Frequency (MHz)				3500.01				
100	Pl2 BPSK	1	1	22.21				
100	Pl2 BPSK	1	137	22.94			24.5	0.0
100	Pl2 BPSK	1	271	22.81				
100	Pl2 BPSK	135	0	22.60			24.0	0.5
100	Pl2 BPSK	135	69	23.10			24.5	0.0
100	Pl2 BPSK	135	138	22.44			24.0	0.5
100	Pl2 BPSK	270	0	22.41				
100	QPSK	1	1	21.96				
100	QPSK	1	137	21.96			23.5	1.0
100	QPSK	1	271	21.86				
100	QPSK	135	0	21.20			23.0	1.5
100	QPSK	135	69	21.57			23.5	1.0
100	QPSK	135	138	20.86			23.0	1.5
100	QPSK	270	0	20.98				
100	16QAM	1	1	21.08			21.5	1.5
100	64QAM	1	1	19.60			21.0	3.0
100	256QAM	1	1	17.96			20.0	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	Pl2 BPSK	1	1	22.97	22.95	22.88	24.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	Pl2 BPSK	1	1	23.06	23.11	23.03	24.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	Pl2 BPSK	1	1	23.10	23.03	22.94	24.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	Pl2 BPSK	1	1	23.02	22.77	22.96	24.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	Pl2 BPSK	1	1	23.02	23.06	22.76	24.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3520.01		
40	Pl2 BPSK	1	1	23.10	22.92	22.76	24.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	Pl2 BPSK	1	1	23.08	23.01	22.81	24.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	Pl2 BPSK	1	1	22.89	22.99	22.75	24.5	0.0



Part270 n77 Ant 9									
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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	Pl2 BPSK	1	1	23.31	23.48	23.42	24.0	0.0	
100	Pl2 BPSK	1	137	23.22	23.14	23.17			
100	Pl2 BPSK	1	271	23.04	23.28	23.11			
100	Pl2 BPSK	135	0	23.08	23.21	23.10	23.5	0.5	
100	Pl2 BPSK	135	69	23.19	23.38	23.22	24.0	0.0	
100	Pl2 BPSK	135	138	22.99	23.12	23.04	23.5	0.5	
100	Pl2 BPSK	270	0	22.81	22.88	22.83	24.0	0.0	
100	QPSK	1	1	22.45	22.67	22.50			
100	QPSK	1	137	22.31	22.28	22.24			
100	QPSK	1	271	22.38	22.47	22.21	23.0	1.0	
100	QPSK	135	0	21.58	21.78	21.74			
100	QPSK	135	69	22.24	22.26	22.11			
100	QPSK	135	138	21.29	21.35	21.26	23.0	1.0	
100	QPSK	270	0	21.26	21.41	21.32	23.0	1.0	
100	16QAM	1	1	21.85	21.66	21.59	23.0	1.0	
100	64QAM	1	1	20.11	20.15	20.03	21.5	2.5	
100	256QAM	1	1	18.58	18.71	18.72	19.5	4.5	
Channel				640000	650000	660000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	Pl2 BPSK	1	1	23.30	23.37	23.32	24.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.02	3840	3940.03			
60	Pl2 BPSK	1	1	23.31	23.42	23.38	24.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	Pl2 BPSK	1	1	23.37	23.37	23.41	24.0	0.0	
Channel				647668	656000	665334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	Pl2 BPSK	1	1	23.24	23.40	23.37	24.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	Pl2 BPSK	1	1	23.33	23.41	23.26	24.0	0.0	

Part270 n77 HPUE Ant 9									
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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	Pl2 BPSK	1	1	25.52	25.62	25.58	26.0	0.0	
100	Pl2 BPSK	1	137	25.21	25.27	25.17			
100	Pl2 BPSK	1	271	24.89	25.00	24.83			
100	Pl2 BPSK	135	0	24.74	24.91	24.76	25.5	0.5	
100	Pl2 BPSK	135	69	25.31	25.43	25.38	26.0	0.0	
100	Pl2 BPSK	135	138	24.53	24.59	24.48	25.5	0.5	
100	Pl2 BPSK	270	0	24.49	24.51	24.47	25.0	1.0	
100	QPSK	1	1	24.58	24.69	24.52			
100	QPSK	1	137	24.17	24.22	24.13			
100	QPSK	1	271	24.10	24.27	24.06	24.0	2.0	
100	QPSK	135	0	23.56	23.57	23.38			
100	QPSK	135	69	24.05	24.13	24.08			
100	QPSK	135	138	23.08	23.15	23.11	24.0	2.0	
100	QPSK	270	0	23.06	23.21	23.10	24.0	2.0	
100	16QAM	1	1	23.05	23.09	23.02	24.0	2.0	
100	64QAM	1	1	21.51	21.65	21.58	22.5	3.5	
100	256QAM	1	1	19.54	19.71	19.54	21.0	5.0	
Channel				640000	650000	660000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	Pl2 BPSK	1	1	25.40	25.59	25.58	26.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.02	3840	3940.03			
60	Pl2 BPSK	1	1	25.43	25.55	25.57	26.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	Pl2 BPSK	1	1	25.37	25.48	25.39	26.0	0.0	
Channel				647668	656000	665334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	Pl2 BPSK	1	1	25.41	25.45	25.49	26.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	Pl2 BPSK	1	1	25.45	25.53	25.52	26.0	0.0	

Part270Q n77 Ant 9									
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				650000	656000	662000			
Frequency (MHz)				3750.01	3840	3930			
100	Pl2 BPSK	1	1	23.77	23.77	23.77	24.0	0.0	
100	Pl2 BPSK	1	137	23.37	23.37	23.37			
100	Pl2 BPSK	1	271	23.37	23.37	23.37			
100	Pl2 BPSK	135	0	23.39	23.39	23.39	23.5	0.5	
100	Pl2 BPSK	135	69	23.63	23.63	23.63	24.0	0.0	
100	Pl2 BPSK	135	138	23.34	23.34	23.34	23.5	0.5	
100	Pl2 BPSK	270	0	23.18	23.18	23.18	23.0	1.0	
100	QPSK	1	1	22.85	22.85	22.85			
100	QPSK	1	137	22.46	22.46	22.46			
100	QPSK	1	271	22.56	22.56	22.56	22.0	2.0	
100	QPSK	135	0	22.08	22.08	22.08			
100	QPSK	135	69	22.59	22.59	22.59			
100	QPSK	135	138	21.52	21.52	21.52	22.0	2.0	
100	QPSK	270	0	21.58	21.58	21.58	22.0	2.0	
100	16QAM	1	1	21.74	21.74	21.74	22.0	2.0	
100	64QAM	1	1	20.19	20.19	20.19	20.5	3.5	
100	256QAM	1	1	18.63	18.63	18.63	19.0	5.0	
Channel				630000	633334	636668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480.02	3500.01	3510			
80	Pl2 BPSK	1	1	23.02	23.00	23.51	24.0	0.0	
Channel				630000	633334	636668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3480.03	3490.03			
60	Pl2 BPSK	1	1	23.49	23.67	23.65	24.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	Pl2 BPSK	1	1	23.63	23.68	23.62	24.0	0.0	
Channel				631000	633334	635968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	Pl2 BPSK	1	1	23.66	23.72	23.52	24.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	Pl2 BPSK	1	1	23.74	23.67	23.59	24.0	0.0	



Part27Q n77 HPUE Ant 9								
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								
Frequency (MHz)				3500.01				
100	Pl2 BPSK	1	1	24.53			26.0	0.0
100	Pl2 BPSK	1	137	24.82				
100	Pl2 BPSK	1	271	24.56				
100	Pl2 BPSK	135	0	24.21			25.5	0.5
100	Pl2 BPSK	135	69	24.80			26.0	0.0
100	Pl2 BPSK	135	138	24.36			25.5	0.5
100	Pl2 BPSK	270	0	24.32				
100	QPSK	1	1	23.97			25.0	1.0
100	QPSK	1	137	23.91				
100	QPSK	1	271	23.82				
100	QPSK	135	0	23.41			24.0	2.0
100	QPSK	135	69	23.84			25.0	1.0
100	QPSK	135	138	23.11			24.0	2.0
100	QPSK	270	0	23.20			24.0	2.0
100	16QAM	1	1	23.07			24.0	2.0
100	64QAM	1	1	21.07			22.0	4.0
100	256QAM	1	1	20.02			21.0	5.0
Channel				630968	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480.02	3500.01	3510	26.0	0.0
80	Pl2 BPSK	1	1	24.79	24.77	24.74	26.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3440	3500.01	3500.02	26.0	0.0
80	Pl2 BPSK	1	1	24.76	24.81	24.76	26.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01	26.0	0.0
40	Pl2 BPSK	1	1	24.59	24.59	24.76	25.0	0.0
Channel				637000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485	3500.01	3535.02	26.0	0.0
30	Pl2 BPSK	1	1	24.82	24.79	24.71	26.0	0.0
Channel				630000	633334	630000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480.02	3500.01	3540	26.0	0.0
20	Pl2 BPSK	1	1	24.72	24.71	24.81	26.0	0.0

Part27O n78 Ant 9								
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								
Frequency (MHz)				3750				
100	Pl2 BPSK	1	1	23.20			24.0	0.0
100	Pl2 BPSK	1	137	23.12				
100	Pl2 BPSK	1	271	23.08				
100	Pl2 BPSK	135	0	22.81			23.5	0.5
100	Pl2 BPSK	135	69	23.17			24.0	0.0
100	Pl2 BPSK	135	138	22.76			23.5	0.5
100	Pl2 BPSK	270	0	22.63				
100	QPSK	1	1	22.15			23.0	1.0
100	QPSK	1	137	21.89				
100	QPSK	1	271	22.05				
100	QPSK	135	0	21.56			22.0	2.0
100	QPSK	135	69	22.11			23.0	1.0
100	QPSK	135	138	21.09			22.0	2.0
100	QPSK	270	0	21.17			22.0	2.0
100	16QAM	1	1	21.30			22.0	2.0
100	64QAM	1	1	19.79			20.5	3.5
100	256QAM	1	1	18.28			19.0	5.0
Channel				640968	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01	24.0	0.0
80	Pl2 BPSK	1	1	23.09	23.03	22.84	24.0	0.0
Channel				640334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02	24.0	0.0
80	Pl2 BPSK	1	1	23.09	23.03	22.96	24.0	0.0
Channel				640000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765	24.0	0.0
70	Pl2 BPSK	1	1	22.95	23.13	22.91	24.0	0.0
Channel				640668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01	24.0	0.0
60	Pl2 BPSK	1	1	23.07	23.01	23.00	24.0	0.0
Channel				640334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02	24.0	0.0
50	Pl2 BPSK	1	1	22.97	23.12	22.96	24.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780	24.0	0.0
40	Pl2 BPSK	1	1	23.11	23.02	22.92	24.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01	24.0	0.0
30	Pl2 BPSK	1	1	23.06	23.04	22.96	24.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02	24.0	0.0
20	Pl2 BPSK	1	1	22.95	23.15	22.86	24.0	0.0

Part27O n78 HPUE Ant 9								
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								
Frequency (MHz)				3750				
100	Pl2 BPSK	1	1	23.07			26.0	0.0
100	Pl2 BPSK	1	137	23.12				
100	Pl2 BPSK	1	271	24.96				
100	Pl2 BPSK	135	0	24.35			25.5	0.5
100	Pl2 BPSK	135	69	24.95			26.0	0.0
100	Pl2 BPSK	135	138	24.59			25.5	0.5
100	Pl2 BPSK	270	0	24.40				
100	QPSK	1	1	24.15			25.0	1.0
100	QPSK	1	137	24.06				
100	QPSK	1	271	24.08				
100	QPSK	135	0	23.60			24.5	1.5
100	QPSK	135	69	24.06			25.0	1.0
100	QPSK	135	138	23.21			24.5	1.5
100	QPSK	270	0	23.11			24.5	1.5
100	16QAM	1	1	23.21			23.0	3.0
100	64QAM	1	1	21.73			21.5	4.5
100	256QAM	1	1	20.19			20.0	5.0
Channel				640968	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01	24.0	0.0
80	Pl2 BPSK	1	1	24.88	24.99	25.00	26.0	0.0
Channel				640334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02	26.0	0.0
80	Pl2 BPSK	1	1	24.91	24.95	24.98	26.0	0.0
Channel				640000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765	26.0	0.0
70	Pl2 BPSK	1	1	25.04	24.96	25.03	26.0	0.0
Channel				640668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01	26.0	0.0
60	Pl2 BPSK	1	1	24.85	25.05	24.85	26.0	0.0
Channel				640334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02	26.0	0.0
50	Pl2 BPSK	1	1	25.00	25.00	24.91	26.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780	26.0	0.0
40	Pl2 BPSK	1	1	24.83	24.81	24.98	26.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01	26.0	0.0
30	Pl2 BPSK	1	1	24.98	24.90	25.02	26.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02	26.0	0.0
20	Pl2 BPSK	1	1	24.97	25.02	24.84	26.0	0.0

Part27Q n78 Ant 9								
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				633334		3500.01	24.0	0.0
Frequency (MHz)				23.33				
100	PI2 BPSK	1	1	23.43				
100	PI2 BPSK	1	137	23.33				
100	PI2 BPSK	1	271	23.17			23.5	0.5
100	PI2 BPSK	135	0	23.39			24.0	0.0
100	PI2 BPSK	135	69	23.00			23.5	0.5
100	PI2 BPSK	135	138	22.88				
100	PI2 BPSK	270	0	22.42			23.0	1.0
100	QPSK	1	1	22.25				
100	QPSK	1	137	22.22				
100	QPSK	1	271	21.76				
100	QPSK	135	0	22.39			22.0	2.0
100	QPSK	135	69	21.37			23.0	1.0
100	QPSK	135	138	21.27			22.0	2.0
100	QPSK	270	0	21.59			22.0	2.0
100	16QAM	1	1	20.01				
100	64QAM	1	1	18.50			20.5	3.5
100	256QAM	1	1	633330		633334	19.0	5.0
Channel				633334		3500.01	24.0	0.0
Frequency (MHz)				3485		3505.02		
90	PI2 BPSK	1	1	23.36		23.37	23.22	24.0
Channel				632068		633334	634000	Tune-up limit MPR
Frequency (MHz)				3480.02		3500.01	3510	(dB)
Channel				632234		633334	634334	Tune-up limit MPR
Frequency (MHz)				3483.01		3500.01	3515.01	(dB)
80	PI2 BPSK	1	1	23.34		23.32	23.29	24.0
Channel				632000		633334	634668	Tune-up limit MPR
Frequency (MHz)				3480		3500.01	3520.02	(dB)
60	PI2 BPSK	1	1	23.36		23.46	23.24	24.0
Channel				631064		633334	635000	Tune-up limit MPR
Frequency (MHz)				3475.02		3500.01	3525	(dB)
50	PI2 BPSK	1	1	23.39		23.42	23.25	24.0
Channel				631334		633334	635334	Tune-up limit MPR
Frequency (MHz)				3478.01		3500.01	3528.01	(dB)
40	PI2 BPSK	1	1	23.23		23.35	23.19	24.0
Channel				631000		633334	635668	Tune-up limit MPR
Frequency (MHz)				3465		3500.01	3535.02	(dB)
30	PI2 BPSK	1	1	23.32		23.44	23.21	24.0
Channel				630505		633334	636000	Tune-up limit MPR
Frequency (MHz)				3460.02		3500.01	3540	(dB)
20	PI2 BPSK	1	1	23.21		23.35	23.43	24.0

Part27Q n78 HPUE Ant 9								
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				633334		3500.01	26.0	0.0
Frequency (MHz)				24.45				
100	PI2 BPSK	1	1	24.62				
100	PI2 BPSK	1	137	24.62				
100	PI2 BPSK	1	271	24.17			25.5	0.5
100	PI2 BPSK	135	0	24.62			26.0	0.0
100	PI2 BPSK	135	69	24.26			25.5	0.5
100	PI2 BPSK	135	138	24.16				
100	PI2 BPSK	270	0	23.92			25.0	1.0
100	QPSK	1	1	23.87				
100	QPSK	1	137	23.81				
100	QPSK	1	271	23.41				
100	QPSK	135	0	23.88			24.5	1.5
100	QPSK	135	69	22.86			25.0	1.0
100	QPSK	135	138	22.56			24.5	1.5
100	QPSK	270	0	22.05			24.5	1.5
100	16QAM	1	1	22.53				
100	64QAM	1	1	21.41			23.0	3.0
100	256QAM	1	1	633330		633334	21.5	4.5
Channel				633334		3500.01	26.0	0.0
Frequency (MHz)				3485		3505.02		
90	PI2 BPSK	1	1	24.75		24.70	24.82	26.0
Channel				632068		633334	634000	Tune-up limit MPR
Frequency (MHz)				3480.02		3500.01	3510	(dB)
Channel				632234		633334	634334	Tune-up limit MPR
Frequency (MHz)				3483.01		3500.01	3515.01	(dB)
80	PI2 BPSK	1	1	24.63		24.73	24.69	26.0
Channel				632000		633334	634668	Tune-up limit MPR
Frequency (MHz)				3480		3500.01	3520.02	(dB)
60	PI2 BPSK	1	1	24.77		24.81	24.60	26.0
Channel				631064		633334	635000	Tune-up limit MPR
Frequency (MHz)				3475.02		3500.01	3525	(dB)
50	PI2 BPSK	1	1	24.70		24.83	24.66	26.0
Channel				631334		633334	635334	Tune-up limit MPR
Frequency (MHz)				3478.01		3500.01	3528.01	(dB)
40	PI2 BPSK	1	1	24.64		24.80	24.77	26.0
Channel				631000		633334	635668	Tune-up limit MPR
Frequency (MHz)				3465		3500.01	3535.02	(dB)
30	PI2 BPSK	1	1	24.65		24.69	24.69	26.0
Channel				630505		633334	636000	Tune-up limit MPR
Frequency (MHz)				3460.02		3500.01	3540	(dB)
20	PI2 BPSK	1	1	24.81		24.78	24.96	26.0



Reduced Power Mode for DSI1

n2 Ant 0								
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				372000	376000	380000	24.0	0.0
Frequency (MHz)				1860	1860	1900		
20	PI2 BPSK	1	1	22.37	22.53	22.43		
20	PI2 BPSK	1	53	22.35	22.49	22.44		
20	PI2 BPSK	1	104	22.32	22.40	22.33	23.5	0.5
20	PI2 BPSK	50	0	21.90	21.97	21.97		
20	PI2 BPSK	50	28	22.42	22.49	22.33		
20	PI2 BPSK	50	58	21.75	21.91	21.86		
20	PI2 BPSK	100	0	21.92	21.94	21.89	24.0	0.0
20	QPSK	1	1	22.52	22.59	22.56		
20	QPSK	1	53	22.49	22.56	22.42		
20	QPSK	1	104	22.38	22.53	22.42		
20	QPSK	50	0	21.51	21.58	21.55	23.0	1.0
20	QPSK	50	28	22.39	22.54	22.40	24.0	0.0
20	QPSK	50	58	21.48	21.54	21.40	23.0	1.0
20	QPSK	100	0	21.55	21.60	21.47		
20	16QAM	1	1	21.50	21.61	21.50		
20	64QAM	1	1	19.96	20.12	20.07		
20	256QAM	1	1	18.03	18.17	18.04	19.5	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1867.5	1860	1902.5	24.0	0.0
15	QPSK	1	1	22.38	22.55	22.44	24.0	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1865	1860	1905		
10	QPSK	1	1	22.33	22.44	22.44		
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1860	1907.5	24.0	0.0
5	QPSK	1	1	22.34	22.40	22.32	24.0	0.0
Channel				370000	376000	380000		
Frequency (MHz)				1860	1860	1900		
20	PI2 BPSK	1	1	22.37	22.53	22.43		
20	PI2 BPSK	1	53	22.35	22.49	22.44		
20	PI2 BPSK	1	104	22.32	22.40	22.33	23.5	0.5
20	PI2 BPSK	50	0	21.90	21.97	21.97		
20	PI2 BPSK	50	28	22.42	22.49	22.33		
20	PI2 BPSK	50	58	21.75	21.91	21.86		
20	PI2 BPSK	100	0	21.92	21.94	21.89	24.0	0.0
20	QPSK	1	1	22.52	22.59	22.56		
20	QPSK	1	53	22.49	22.56	22.42		
20	QPSK	1	104	22.38	22.53	22.42		
20	QPSK	50	0	21.51	21.58	21.55	23.0	1.0
20	QPSK	50	28	22.39	22.54	22.40	24.0	0.0
20	QPSK	50	58	21.48	21.54	21.40	23.0	1.0
20	QPSK	100	0	21.55	21.60	21.47		
20	16QAM	1	1	21.50	21.61	21.50		
20	64QAM	1	1	19.96	20.12	20.07		
20	256QAM	1	1	18.03	18.17	18.04	19.5	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1867.5	1860	1902.5	24.0	0.0
15	QPSK	1	1	22.38	22.55	22.44	24.0	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1865	1860	1905		
10	QPSK	1	1	22.33	22.44	22.44		
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1860	1907.5	24.0	0.0

n25 Ant 0								
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				372000	376500	381000		
Frequency (MHz)				1860	1882.5	1905		
20	PI/2 BPSK	1	1	22.66	22.61	22.68	24.0	0.0
20	PI/2 BPSK	1	53	22.63	22.60	22.79		
20	PI/2 BPSK	1	104	22.66	22.63	22.64		
20	PI/2 BPSK	50	0	22.26	22.13	22.33	23.5	0.5
20	PI/2 BPSK	50	28	22.85	22.62	22.63	24.0	0.0
20	PI/2 BPSK	50	56	22.30	22.31	22.30	23.5	0.5
20	PI/2 BPSK	100	0	22.22	22.31	22.32		
20	QPSK	1	1	22.63	22.66	22.73	24.0	0.0
20	QPSK	1	53	22.63	22.74	22.73		
20	QPSK	1	104	22.65	22.68	22.62		
20	QPSK	50	0	21.77	21.77	21.73	23.0	1.0
20	QPSK	50	28	22.65	22.75	22.71	24.0	0.0
20	QPSK	50	56	21.71	21.86	21.85	23.0	1.0
20	QPSK	100	0	21.65	21.81	21.80		
20	16QAM	1	1	21.76	21.83	21.81	23.0	1.0
20	64QAM	1	1	20.20	20.13	20.24	21.5	2.5
20	256QAM	1	1	18.21	18.14	18.12	19.5	4.5
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1867.5	1882.5	1907.5		
15	QPSK	1	1	22.58	22.71	22.58	24.0	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1865	1882.5	1910		
10	QPSK	1	1	22.66	22.62	22.67	24.0	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1882.5	1912.5		
5	QPSK	1	1	22.76	22.71	22.52	24.0	0.0

n66 Ant 0								
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				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	PI/2 BPSK	1	1	22.16	22.27	22.15	24.0	0.0
20	PI/2 BPSK	1	53	22.21	22.21	22.17		
20	PI/2 BPSK	1	104	22.04	22.21	22.13		
20	PI/2 BPSK	50	0	21.55	21.65	21.64	23.5	0.5
20	PI/2 BPSK	50	28	22.06	22.23	22.08	24.0	0.0
20	PI/2 BPSK	50	56	21.56	21.66	21.51	23.5	0.5
20	PI/2 BPSK	100	0	21.55	21.53	21.60		
20	QPSK	1	1	22.25	22.38	22.22	24.0	0.0
20	QPSK	1	53	22.16	22.32	22.21		
20	QPSK	1	104	22.16	22.24	22.22		
20	QPSK	50	0	21.12	21.24	21.21	23.0	1.0
20	QPSK	50	28	22.25	22.26	22.18	24.0	0.0
20	QPSK	50	56	21.05	21.18	21.03	23.0	1.0
20	QPSK	100	0	21.17	21.20	21.14		
20	16QAM	1	1	21.23	21.39	21.18	23.0	1.0
20	64QAM	1	1	19.62	19.86	19.72	21.5	2.5
20	256QAM	1	1	17.64	17.81	17.73	19.5	4.5
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	22.20	22.31	22.12	24.0	0.0
Channel				343000	349000	353500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.19	22.22	22.14	24.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	22.08	22.21	22.13	24.0	0.0



n5 Ant 1									
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				166800	167300	167800			
Frequency (MHz)				824	836.5	850			
20	Pl2 BPSK	1	1	22.11	22.22	22.14		23.0	0.0
20	Pl2 BPSK	1	53	22.07	22.15	22.09			
20	Pl2 BPSK	1	104	22.09	22.12	22.08			
20	Pl2 BPSK	50	0	21.53	21.55	21.52	22.5	0.5	
20	Pl2 BPSK	50	28	22.01	22.17	22.07	23.0	0.0	
20	Pl2 BPSK	50	56	21.51	21.53	21.54	22.5	0.5	
20	Pl2 BPSK	100	0	21.56	21.53	21.51			
20	QPSK	1	1	22.18	22.28	22.18		23.0	0.0
20	QPSK	1	53	22.12	22.24	22.17			
20	QPSK	1	104	22.10	22.18	22.10			
20	QPSK	50	0	21.11	21.18	21.09	22.0	1.0	
20	QPSK	50	28	22.05	22.19	22.07	23.0	0.0	
20	QPSK	50	56	21.01	21.04	21.02	22.0	1.0	
20	QPSK	100	0	21.02	21.10	21.07	22.0	1.0	
20	16QAM	1	1	21.18	21.12	21.26	22.0	1.0	
20	64QAM	1	1	19.70	19.51	19.64	20.5	2.5	
20	256QAM	1	1	17.74	17.73	17.64	18.5	4.5	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	22.07	22.14	22.10	23.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				836	836.5	844			
10	QPSK	1	1	22.01	22.10	22.07	23.0	0.0	
Channel				166300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				824.5	836.5	846.5			
5	QPSK	1	1	22.15	22.22	22.15	23.0	0.0	

n7 Ant 1									
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				502000	507000	512000			
Frequency (MHz)				2510	2535	2560			
20	Pl2 BPSK	1	1	22.12	22.26	22.17		23.0	0.0
20	Pl2 BPSK	1	53	22.13	22.24	22.17			
20	Pl2 BPSK	1	104	22.11	22.15	22.05			
20	Pl2 BPSK	50	0	21.51	21.56	21.53	22.5	0.5	
20	Pl2 BPSK	50	28	22.12	22.24	22.10	23.0	0.0	
20	Pl2 BPSK	50	56	21.54	21.53	21.55	22.5	0.5	
20	Pl2 BPSK	100	0	21.51	21.52	21.61			
20	QPSK	1	1	22.30	22.35	22.22		23.0	0.0
20	QPSK	1	53	22.18	22.31	22.27			
20	QPSK	1	104	22.15	22.24	22.15			
20	QPSK	50	0	21.05	21.19	21.18	22.0	1.0	
20	QPSK	50	28	22.15	22.25	22.18	23.0	0.0	
20	QPSK	50	56	21.01	21.08	21.05	22.0	1.0	
20	QPSK	100	0	21.02	21.13	21.05	22.0	1.0	
20	16QAM	1	1	21.15	21.22	21.12	22.0	1.0	
20	64QAM	1	1	19.80	19.76	19.74	20.5	2.5	
20	256QAM	1	1	17.59	17.68	17.58	18.5	4.5	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	22.11	22.29	22.13	23.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2495	2535	2565			
10	QPSK	1	1	22.15	22.25	22.12	23.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	22.11	22.18	22.08	23.0	0.0	

n12 Ant 1									
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				141300	141500	141700			
Frequency (MHz)				706.5	707.5	708.5			
15	Pl2 BPSK	1	1	21.60	22.07	21.73		23.0	0.0
15	Pl2 BPSK	1	40	21.67	21.97	21.86			
15	Pl2 BPSK	1	77	21.89	21.87	21.89			
15	Pl2 BPSK	36	0	21.12	21.22	21.17	22.5	0.5	
15	Pl2 BPSK	36	23	21.84	21.86	21.78	23.0	0.0	
15	Pl2 BPSK	36	63	21.32	21.32	21.08	22.5	0.5	
15	Pl2 BPSK	75	0	21.33	21.35	21.24			
15	QPSK	1	1	21.81	22.08	22.00		23.0	0.0
15	QPSK	1	40	21.85	21.83	21.72			
15	QPSK	1	77	21.83	21.84	21.90			
15	QPSK	36	0	20.73	20.75	20.81	22.0	1.0	
15	QPSK	36	22	21.70	21.96	21.70	23.0	0.0	
15	QPSK	36	63	20.78	20.92	20.64	22.0	1.0	
15	QPSK	75	0	20.68	20.65	20.72	22.0	1.0	
15	16QAM	1	1	21.03	21.19	21.11	22.0	1.0	
15	64QAM	1	1	19.48	19.52	19.48	20.5	2.5	
20	256QAM	1	1	17.32	17.58	17.30	18.5	4.5	
Channel				140500	141500	142200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				704	707.5	711			
10	QPSK	1	1	21.24	21.39	21.42	23.0	0.0	
Channel				140000	141500	142700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	1	21.28	21.38	21.39	23.0	0.0	



n38 Ant 1									
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				518004	518000	519998	23.0	0.0	
Frequency (MHz)				2580.02	2595	2599.98			
40	PI2 BPSK	1	1	21.10	21.45	21.26			
40	PI2 BPSK	1	53	21.42	21.60	21.29	22.5	0.5	
40	PI2 BPSK	1	104	21.07	21.51	21.21			
40	PI2 BPSK	50	0	20.82	21.09	20.82			
40	PI2 BPSK	50	28	21.25	21.30	21.23	23.0	0.0	
40	PI2 BPSK	50	58	20.55	21.21	20.76			
40	PI2 BPSK	100	0	20.59	21.07	20.79			
40	QPSK	1	1	21.11	21.65	21.34	23.0	0.0	
40	QPSK	1	53	21.12	21.16	21.10			
40	QPSK	1	104	21.19	21.36	21.51			
40	QPSK	50	0	20.28	20.29	20.11	22.0	1.0	
40	QPSK	50	28	21.32	21.39	21.13			
40	QPSK	50	58	20.21	20.09	20.10			
40	QPSK	100	0	20.22	20.33	20.17	22.0	1.0	
40	16QAM	1	1	20.29	20.09	20.04			
40	64QAM	1	1	18.83	18.83	18.67		20.5	
40	256QAM	1	1	16.75	16.75	16.64			
Channel				517092	518000	520998	23.0	0.0	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	21.05	21.54	21.23			
Channel				516000	516000	522000	23.0	0.0	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	21.08	21.54	21.21			

n41 Ant 1									
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				509202	518598	520900	23.0	0.0	
Frequency (MHz)				2548.01	2592.99	2640			
100	PI2 BPSK	1	1	21.31	21.64	21.45			
100	PI2 BPSK	1	137	21.17	21.75	21.53	22.5	0.5	
100	PI2 BPSK	1	271	21.29	21.76	21.38			
100	PI2 BPSK	135	0	20.88	21.27	21.07			
100	PI2 BPSK	135	69	21.18	21.54	21.43	23.0	0.0	
100	PI2 BPSK	135	138	20.78	21.39	20.98			
100	PI2 BPSK	270	0	20.76	21.24	21.05			
100	QPSK	1	1	21.33	21.80	21.52	23.0	0.0	
100	QPSK	1	137	21.27	21.41	21.17			
100	QPSK	1	271	21.44	21.53	21.65			
100	QPSK	135	0	20.47	20.52	20.34	22.0	1.0	
100	QPSK	135	69	21.46	21.54	21.39			
100	QPSK	135	138	20.42	20.31	20.14			
100	QPSK	270	0	20.47	20.51	20.35	22.0	1.0	
100	16QAM	1	1	20.47	20.29	20.24			
100	64QAM	1	1	19.02	19.07	18.88		20.5	
100	256QAM	1	1	16.91	16.92	16.84			
Channel				508200	518598	520998	23.0	0.0	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.24	21.51	21.33			
Channel				507204	518598	520998	23.0	0.0	
Frequency (MHz)				2536.02	2592.99	2643.99			
80	QPSK	1	1	21.04	21.67	21.41			
Channel				506202	518598	531000	23.0	0.0	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	21.23	21.64	21.27			
Channel				505200	518598	531996	23.0	0.0	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	21.20	21.51	21.34			
Channel				504204	518598	532998	23.0	0.0	
Frequency (MHz)				2521.02	2592.99	2654.99			
50	QPSK	1	1	21.08	21.46	21.35			
Channel				503202	518598	534000	23.0	0.0	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	21.05	21.66	21.38			
Channel				502200	518598	534996	23.0	0.0	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	21.19	21.67	21.23			
Channel				501204	518598	535998	23.0	0.0	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.19	21.64	21.24			

n41 HPUE Ant 1									
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				509202	518598	520900	25.0	0.0	
Frequency (MHz)				2548.01	2592.99	2640			
100	PI2 BPSK	1	1	23.45	23.50	23.49			
100	PI2 BPSK	1	137	23.41	23.64	23.56	24.5	0.5	
100	PI2 BPSK	1	271	23.45	23.69	23.47			
100	PI2 BPSK	135	0	23.05	23.10	23.16			
100	PI2 BPSK	135	69	23.32	23.61	23.59	24.5	0.0	
100	PI2 BPSK	135	138	23.01	23.09	23.13			
100	PI2 BPSK	270	0	23.00	23.28	23.14			
100	QPSK	1	1	23.34	23.75	23.66	25.0	0.0	
100	QPSK	1	137	23.44	23.70	23.67			
100	QPSK	1	271	23.68	23.34	23.66			
100	QPSK	135	0	22.48	22.62	22.72	24.0	1.0	
100	QPSK	135	69	23.33	23.80	23.57			
100	QPSK	135	138	22.86	22.64	22.76			
100	QPSK	270	0	22.19	22.55	22.49	24.0	1.0	
100	16QAM	1	1	22.83	22.58	22.75			
100	64QAM	1	1	21.04	21.17	21.15		22.5	
100	256QAM	1	1	18.15	19.17	19.28			
Channel				508200	518598	520998	25.0	0.0	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	23.35	23.41	23.41			
Channel				507204	518598	520998	25.0	0.0	
Frequency (MHz)				2536.02	2592.99	2643.99			
80	QPSK	1	1	23.33	23.52	23.44			
Channel				506202	518598	531000	25.0	0.0	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	23.34	23.58	23.41			
Channel				505200	518598	531996	25.0	0.0	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	23.33	23.42	23.35			
Channel				504204	518598	532998	25.0	0.0	
Frequency (MHz)				2521.02	2592.99	2654.99			
50	QPSK	1	1	23.31	23.52	23.42			
Channel				503202	518598	534000	25.0	0.0	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	23.32	23.55	23.37			
Channel				502200	518598	534996	25.0	0.0	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	23.35	23.60	23.38			
Channel				501204	518598	535998	25.0	0.0	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	23.33	23.50	23.45			



n2 Ant 5									
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				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	Pl2 BPSK	1	1	22.69	22.60	22.62		24.0	0.0
20	Pl2 BPSK	1	53	22.53	22.68	22.60			
20	Pl2 BPSK	1	104	22.36	22.42	22.52			
20	Pl2 BPSK	50	0	22.16	22.02	22.09	23.5	0.5	
20	Pl2 BPSK	50	28	22.50	22.56	22.36	24.0	0.0	
20	Pl2 BPSK	50	56	22.00	22.05	21.97	23.5	0.5	
20	Pl2 BPSK	100	0	21.86	21.99	21.97			
20	QPSK	1	1	22.57	22.79	22.46		24.0	0.0
20	QPSK	1	53	22.46	22.58	22.58			
20	QPSK	1	104	22.41	22.71	22.43			
20	QPSK	50	0	21.48	21.65	21.66	23.0	1.0	
20	QPSK	50	28	22.50	22.65	22.46	24.0	0.0	
20	QPSK	50	56	21.31	21.49	21.41	23.0	1.0	
20	QPSK	100	0	21.66	21.07	21.53			
20	16QAM	1	1	21.48	21.69	21.40	23.0	1.0	
20	64QAM	1	1	20.11	20.19	20.13	21.5	2.5	
20	256QAM	1	1	18.34	18.24	18.27	19.5	4.5	
Channel				373500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1887.5	1880	1902.5			
15	QPSK	1	1	22.63	22.69	22.58	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1905			
10	QPSK	1	1	22.46	22.56	22.39	24.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1907.5			
5	QPSK	1	1	22.40	22.48	22.49	24.0	0.0	

n7 Ant 5									
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				502000	507000	512000			
Frequency (MHz)				2510	2535	2560			
20	Pl2 BPSK	1	1	22.32	22.49	22.48		24.0	0.0
20	Pl2 BPSK	1	53	22.29	22.41	22.30			
20	Pl2 BPSK	1	104	22.24	22.39	22.34			
20	Pl2 BPSK	50	0	21.59	21.71	21.59	23.5	0.5	
20	Pl2 BPSK	50	28	22.30	22.40	22.28	24.0	0.0	
20	Pl2 BPSK	50	56	21.56	21.63	21.61	23.5	0.5	
20	Pl2 BPSK	100	0	21.54	21.63	21.62			
20	QPSK	1	1	22.36	22.56	22.55		24.0	0.0
20	QPSK	1	53	22.35	22.49	22.38			
20	QPSK	1	104	22.35	22.48	22.36			
20	QPSK	50	0	21.28	21.37	21.32	23.0	1.0	
20	QPSK	50	28	22.32	22.47	22.36	24.0	0.0	
20	QPSK	50	56	21.12	21.25	21.24	23.0	1.0	
20	QPSK	100	0	21.12	21.31	21.20			
20	16QAM	1	1	21.39	21.48	21.29	23.0	1.0	
20	64QAM	1	1	19.87	20.00	19.85	21.5	2.5	
20	256QAM	1	1	17.71	17.68	17.79	19.5	4.5	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	22.14	22.31	22.25	24.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2495	2535	2565			
10	QPSK	1	1	22.07	22.21	22.12	24.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	22.04	22.20	22.17	24.0	0.0	

n66 Ant 5									
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				346000	349000	356000			
Frequency (MHz)				1720	1745	1770			
20	Pl2 BPSK	1	1	22.12	22.39	22.19		24.0	0.0
20	Pl2 BPSK	1	53	22.21	22.23	22.19			
20	Pl2 BPSK	1	104	22.04	22.11	22.02			
20	Pl2 BPSK	50	0	21.53	21.78	21.58	23.5	0.5	
20	Pl2 BPSK	50	28	22.13	22.30	22.15	24.0	0.0	
20	Pl2 BPSK	50	56	22.16	21.60	21.63	23.5	0.5	
20	Pl2 BPSK	100	0	21.53	21.58	21.51			
20	QPSK	1	1	22.34	22.37	22.36		24.0	0.0
20	QPSK	1	53	22.12	22.28	22.19			
20	QPSK	1	104	22.17	22.21	22.17			
20	QPSK	50	0	21.13	21.23	21.06	23.0	1.0	
20	QPSK	50	28	22.26	22.33	22.21	24.0	0.0	
20	QPSK	50	56	21.02	21.61	21.03	23.0	1.0	
20	QPSK	100	0	21.03	21.16	21.15			
20	16QAM	1	1	21.21	21.28	21.18	23.0	1.0	
20	64QAM	1	1	19.63	19.74	19.75	21.5	2.5	
20	256QAM	1	1	17.64	17.91	17.69	19.5	4.5	
Channel				345500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	22.17	22.33	22.12	24.0	0.0	
Channel				345000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	22.21	22.28	22.13	24.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	22.22	22.31	22.12	24.0	0.0	



n38 Ant 5							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				516002	516004	516996	
Frequency (MHz)				2560.02	2565	2569.98	
40	Pl2 BPSK	1	1	21.59	22.02	21.69	
40	Pl2 BPSK	1	53	21.89	21.96	21.94	23.0
40	Pl2 BPSK	1	104	21.86	21.89	21.80	
40	Pl2 BPSK	50	0	21.30	21.43	21.27	22.5
40	Pl2 BPSK	50	28	21.89	21.96	21.90	23.0
40	Pl2 BPSK	50	56	21.21	21.34	21.26	22.5
40	Pl2 BPSK	100	0	21.21	21.38	21.30	
40	QPSK	1	1	21.92	22.09	22.00	
40	QPSK	1	53	21.96	21.98	21.98	23.0
40	QPSK	1	104	21.89	21.95	21.83	
40	QPSK	50	0	20.79	20.95	20.83	22.0
40	QPSK	50	28	21.93	22.01	21.92	23.0
40	QPSK	50	56	20.70	20.80	20.72	22.0
40	QPSK	100	0	20.92	20.98	20.78	22.0
40	16QAM	1	1	20.89	21.05	21.01	22.0
40	64QAM	1	1	19.99	19.66	19.61	20.5
40	256QAM	1	1	17.57	17.51	17.46	18.5
Channel				517002	517004	520000	
Frequency (MHz)				2568.01	2595	2604.99	
30	QPSK	1	1	21.86	21.89	21.84	23.0
Channel				516000	516000	520000	
Frequency (MHz)				2560	2565	2610	
20	QPSK	1	1	21.80	21.85	21.77	23.0

n41 Ant 5							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				509202	518998	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	Pl2 BPSK	1	1	22.07	22.10	22.11	
100	Pl2 BPSK	1	137	22.03	22.07	22.05	23.0
100	Pl2 BPSK	1	271	21.95	21.95	22.00	
100	Pl2 BPSK	135	0	21.66	21.65	21.71	22.5
100	Pl2 BPSK	135	69	22.07	22.09	22.06	23.0
100	Pl2 BPSK	135	138	21.73	21.76	21.76	22.5
100	Pl2 BPSK	270	0	21.80	21.57	21.55	23.5
100	QPSK	1	1	22.08	22.13	22.10	
100	QPSK	1	137	22.11	22.06	22.06	23.0
100	QPSK	1	271	22.07	22.02	22.06	
100	QPSK	135	0	21.01	21.03	21.00	22.0
100	QPSK	135	69	21.63	21.67	21.64	23.0
100	QPSK	135	138	21.19	21.16	21.16	22.0
100	QPSK	270	0	21.25	21.20	21.24	22.0
100	16QAM	1	1	21.13	21.13	21.12	22.0
100	64QAM	1	1	19.53	19.52	19.53	20.5
100	256QAM	1	1	17.68	17.67	17.71	18.5
Channel				509200	518998	528000	
Frequency (MHz)				2541	2592.99	2644.98	
90	QPSK	1	1	21.93	21.90	21.95	23.0
Channel				507204	518998	529998	
Frequency (MHz)				2531.01	2592.99	2649.99	
80	QPSK	1	1	21.88	21.85	21.90	23.0
Channel				506202	518998	531000	
Frequency (MHz)				2531.01	2592.99	2650	
70	QPSK	1	1	21.19	21.80	21.77	23.0
Channel				505200	518998	531998	
Frequency (MHz)				2526.02	2592.99	2659.99	
60	QPSK	1	1	21.93	21.90	21.94	23.0
Channel				504204	518998	536998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	21.87	21.86	21.90	23.0
Channel				502202	518998	536000	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	21.80	21.78 <td>21.82</td> <td>23.0</td>	21.82	23.0
Channel				502200	518998	536998	
Frequency (MHz)				2511	2592.99	2674.98	
30	QPSK	1	1	21.87	21.89 <td>21.89</td> <td>23.0</td>	21.89	23.0
Channel				501204	518998	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	21.93	21.94	21.91	23.0

n41 HPUE Ant 5							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				506020	518998	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	Pl2 BPSK	1	1	22.19	24.02	24.02	
100	Pl2 BPSK	1	137	23.76	23.81	23.80	25.0
100	Pl2 BPSK	1	271	23.96	24.01	23.99	
100	Pl2 BPSK	135	0	23.51	23.54	23.52	24.5
100	Pl2 BPSK	135	69	23.89	23.88	23.86	25.0
100	Pl2 BPSK	135	138	23.46	23.49	23.46	24.5
100	Pl2 BPSK	270	0	23.42	23.46	23.46	
100	QPSK	1	1	23.97	24.03	24.02	
100	QPSK	1	137	23.75	23.69	23.75	25.0
100	QPSK	1	271	23.74	23.77	23.73	
100	QPSK	135	0	23.07	23.06	23.09	24.0
100	QPSK	135	69	23.75	23.77	23.75	25.0
100	QPSK	135	138	22.77	22.80	22.80	24.0
100	QPSK	270	0	22.83	22.85	22.84	
100	16QAM	1	1	23.07	23.07	23.07	24.0
100	64QAM	1	1	21.54	21.52	21.48	22.5
100	256QAM	1	1	19.60	19.53	19.57	20.5
Channel				505020	518998	529998	
Frequency (MHz)				2541	2592.99	2644.98	
90	QPSK	1	1	23.78	23.77	23.84	25.0
Channel				507204	518998	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	QPSK	1	1	23.89	23.91	23.85	25.0
Channel				506202	518998	531000	
Frequency (MHz)				2531.01	2592.99	2650	
70	QPSK	1	1	23.91	23.85	23.84	25.0
Channel				505200	518998	531998	
Frequency (MHz)				2526.02	2592.99	2659.98	
60	QPSK	1	1	23.87	23.92	23.87	25.0
Channel				504204	518998	536998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	23.94	23.94	23.90	25.0
Channel				503202	518998	536000	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	23.87	23.84	23.86	25.0
Channel				502200	518998	536998	
Frequency (MHz)				2511	2592.99	2674.98	
30	QPSK	1	1	23.84	23.84	23.91	25.0
Channel				501204	518998	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	23.93	23.89	23.84	25.0



n48 Part96 Ant 5							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				636000	641686	646332	
Frequency (MHz)				3570	3624.99	3679.98	
40	PI2 BPSK	1	1	22.04	22.20	22.12	
40	PI2 BPSK	1	53	22.02	22.10	22.12	0.0
40	PI2 BPSK	1	104	22.18	22.17	22.16	
40	PI2 BPSK	50	0	21.36	21.52	21.43	22.5
40	PI2 BPSK	50	25	21.94	22.03	22.04	23.0
40	PI2 BPSK	50	56	21.43	21.50	21.34	22.5
40	PI2 BPSK	100	0	21.47	21.54	21.51	22.5
40	QPSK	1	1	22.18	22.33	22.09	
40	QPSK	1	53	22.01	22.16	22.00	0.0
40	QPSK	1	104	22.00	22.11	22.02	
40	QPSK	50	0	20.99	21.06	21.00	22.0
40	QPSK	50	26	22.99	22.14	22.02	23.0
40	QPSK	50	56	20.81	20.93	20.80	22.0
40	QPSK	100	0	20.96	21.03	20.92	22.0
40	16QAM	1	1	21.24	21.28	21.21	22.0
40	64QAM	1	1	19.79	19.82	19.66	20.5
40	256QAM	1	1	17.56	17.71	17.64	18.5
Channel				636001	641687	646333	
Frequency (MHz)				3660.01	3624.99	3660.01	
20	QPSK	1	1	21.77	22.04	21.99	0.0

Part270 n77 Ant 5							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI2 BPSK	1	1	21.26	21.43	21.32	
100	PI2 BPSK	1	137	21.25	21.39	21.37	23.0
100	PI2 BPSK	1	271	21.22	21.23	21.20	0.0
100	PI2 BPSK	135	0	21.20	21.35	21.31	22.5
100	PI2 BPSK	135	69	21.32	21.34	21.30	0.5
100	PI2 BPSK	135	138	21.27	21.32	21.28	0.5
100	PI2 BPSK	270	0	21.21	21.24	21.14	22.5
100	QPSK	1	1	21.44	21.45	21.35	
100	QPSK	1	137	21.31	21.42	21.27	23.0
100	QPSK	1	271	21.31	21.39	21.32	
100	QPSK	135	0	21.19	21.31	21.21	22.0
100	QPSK	135	69	21.35	21.41	21.39	23.0
100	QPSK	135	138	20.97	20.91	20.98	23.0
100	QPSK	270	0	20.43	20.37	20.50	22.0
100	16QAM	1	1	21.31	21.40	21.26	22.0
100	64QAM	1	1	19.68	19.69	19.74	20.5
100	256QAM	1	1	17.80	17.84	17.73	18.5
Channel				649334	655000	660666	
Frequency (MHz)				3740.01	3840	3940.02	
80	QPSK	1	1	21.24	21.27	21.26	23.0
Channel				648000	656000	663334	
Frequency (MHz)				3730.02	3840	3950.01	
60	QPSK	1	1	21.35	21.40	21.33	23.0
Channel				648000	656000	664000	
Frequency (MHz)				3720	3840	3960	
40	QPSK	1	1	21.25	21.37	21.25	23.0
Channel				647668	656000	664334	
Frequency (MHz)				3715.02	3840	3965.01	
30	QPSK	1	1	21.31	21.32	21.20	23.0
Channel				647234	655000	663000	
Frequency (MHz)				3710.01	3840	3970.02	
20	QPSK	1	1	21.28	21.31	21.25	23.0

Part270 n77 HPUE Ant 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up time (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	24.02	24.07	24.06		
100	PI2 BPSK	1	137	24.01	24.02	24.01	26.0	0.0
100	PI2 BPSK	1	271	24.02	24.03	24.03		
100	PI2 BPSK	135	0	23.97	24.02	23.98	25.5	0.5
100	PI2 BPSK	135	69	24.10	24.05	24.01	26.0	0.0
100	PI2 BPSK	135	138	23.86	23.93	23.83		
100	PI2 BPSK	270	0	23.96	24.05	23.80	25.5	0.5
100	QPSK	1	1	24.08	24.30	24.02		
100	QPSK	1	137	24.07	24.07	24.02	26.0	0.0
100	QPSK	1	271	24.03	24.02	24.01		
100	QPSK	135	0	23.87	24.02	23.92	25.0	1.0
100	QPSK	135	69	24.01	24.09	24.02	26.0	0.0
100	QPSK	135	138	24.01	24.02	23.95	25.0	1.0
100	QPSK	270	0	23.88	24.00	23.89	25.0	0.0
100	16QAM	1	1	23.23	23.26	23.25	25.0	0.0
100	64QAM	1	1	21.53	21.54	21.51	23.5	2.5
100	256QAM	1	1	20.10	20.28	20.25	21.5	4.5
Channel				649334	656000	662666		
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	
80	QPSK	1	1	24.06	24.08	23.99	26.0	0.0
Channel				648000	656000	663334		
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	MPR (dB)
60	QPSK	1	1	23.96	24.04	23.91	26.0	0.0
Channel				648000	656000	664000		
Frequency (MHz)				3720	3840	3960	(dBm)	MPR (dB)
40	QPSK	1	1	23.91	24.04	23.85	23.0	0.0
Channel				647668	656000	664334		
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	MPR (dB)
30	QPSK	1	1	23.98	24.07	23.98	26.0	0.0
Channel				647234	655000	663000		
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	MPR (dB)
20	QPSK	1	1	23.98	24.10	23.99	26.0	0.0



Part27Q n77 Ant 5

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								
Frequency (MHz)				3500.01				
100	Pl2 BPSK	1	1	21.52				
100	Pl2 BPSK	1	137	21.49			23.0	0.0
100	Pl2 BPSK	1	271	21.40				
100	Pl2 BPSK	135	0	21.24			22.5	0.5
100	Pl2 BPSK	135	69	21.32			23.0	0.9
100	Pl2 BPSK	135	138	21.21			22.5	0.5
100	Pl2 BPSK	270	0	21.16				
100	QPSK	1	1	21.60				
100	QPSK	1	137	21.54			23.0	0.0
100	QPSK	1	271	21.47				
100	QPSK	135	0	21.17			22.0	1.0
100	QPSK	135	69	21.36			23.0	0.0
100	QPSK	135	138	21.13			22.0	1.0
100	QPSK	270	0	21.23				
100	16QAM	1	1	21.46			22.0	1.0
100	64QAM	1	1	19.91			20.5	2.5
100	256QAM	1	1	17.92			18.5	4.5
Channel				632968	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	21.38	21.46	21.45	23.0	0.0
Channel				632000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490	3500.01	3500.02		
60	QPSK	1	1	21.35	21.35	21.34	23.0	0.0
Channel				631334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	21.35	21.31	21.32	23.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	21.37	21.38	21.35	23.0	0.0
Channel				632000	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480.02	3500.01	3540		
20	QPSK	1	1	21.35	21.36	21.38	23.0	0.0

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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								
Frequency (MHz)				3500.01				
100	Pl2 BPSK	1	1	24.23				
100	Pl2 BPSK	1	137	24.28			26.0	0.0
100	Pl2 BPSK	1	271	24.36				
100	Pl2 BPSK	135	0	24.27			25.5	0.5
100	Pl2 BPSK	135	69	24.32			26.0	0.9
100	Pl2 BPSK	135	138	24.37			25.5	0.5
100	Pl2 BPSK	270	0	24.33				
100	QPSK	1	1	24.63				
100	QPSK	1	137	24.25			26.0	0.0
100	QPSK	1	271	24.22				
100	QPSK	135	0	23.18			25.0	1.0
100	QPSK	135	69	24.24			26.0	0.0
100	QPSK	135	138	23.24			25.0	1.0
100	QPSK	270	0	22.89				
100	16QAM	1	1	23.24			25.0	1.0
100	64QAM	1	1	21.70			23.5	2.5
100	256QAM	1	1	19.84			21.5	4.5
Channel				632968	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	24.27	24.26	24.23	26.0	0.0
Channel				632000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490	3500.01	3500.02		
60	QPSK	1	1	24.21	24.28	24.28	26.0	0.0
Channel				631334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	24.20	24.25	24.27	26.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	24.29	24.22	24.25	26.0	0.0
Channel				632000	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480.02	3500.01	3540		
20	QPSK	1	1	24.25	24.26	24.21	26.0	0.0

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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								
Frequency (MHz)				3750				
100	Pl2 BPSK	1	1	21.13				
100	Pl2 BPSK	1	137	21.14			23.0	0.0
100	Pl2 BPSK	1	271	21.04				
100	Pl2 BPSK	135	0	20.96			22.5	0.5
100	Pl2 BPSK	135	69	21.03			23.0	0.9
100	Pl2 BPSK	135	138	20.95			22.5	0.5
100	Pl2 BPSK	270	0	20.98				
100	QPSK	1	1	21.20				
100	QPSK	1	137	21.03			23.0	0.0
100	QPSK	1	271	21.06				
100	QPSK	135	0	20.28			22.0	1.0
100	QPSK	135	69	21.15			23.0	0.0
100	QPSK	135	138	20.92			22.0	1.0
100	QPSK	270	0	20.95				
100	16QAM	1	1	21.04			22.0	1.0
100	64QAM	1	1	19.59			20.5	2.5
100	256QAM	1	1	17.83			18.5	4.5
Channel				648968	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
80	QPSK	1	1	21.14	21.16	21.01	23.0	0.0
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	21.09	21.09	21.18	23.0	0.0
Channel				648000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	21.07	21.11	21.04	23.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	21.07	21.10	21.15	23.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	21.04	21.12	21.11	23.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	21.02	21.01	21.18	23.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	21.11	21.17	21.08	23.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	21.10	21.05	21.03	23.0	0.0



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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								
Frequency (MHz)								
100	Pl2 BPSK	1	1	24.07	3750			
100	Pl2 BPSK	1	137	24.25			26.0	0.0
100	Pl2 BPSK	1	271	24.09				
100	Pl2 BPSK	135	0	24.12			25.5	0.5
100	Pl2 BPSK	135	69	24.20			26.0	0.0
100	Pl2 BPSK	135	138	23.99			25.5	0.5
100	Pl2 BPSK	270	0	23.88			25.5	0.5
100	QPSK	1	1	24.28				
100	QPSK	1	137	24.12			26.0	0.0
100	QPSK	1	271	24.04				
100	QPSK	135	0	23.98			26.0	1.0
100	QPSK	135	69	24.05			26.0	0.0
100	QPSK	135	138	23.87			25.0	1.0
100	QPSK	270	0	23.94			26.0	1.0
100	16QAM	1	1	23.81			26.0	1.0
100	64QAM	1	1	22.02			23.5	2.5
100	256QAM	1	1	19.99			21.5	4.5
Channel								
Frequency (MHz)								
80	QPSK	1	1	24.09	24.14	24.07	26.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	24.18	24.12	24.13	26.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	24.17	24.13	24.11	26.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	24.17	24.15	24.15	26.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	24.08	24.14	24.10	26.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	24.20	24.09	24.08	26.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	24.15	24.09	24.14	26.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	24.19	24.10	24.13	26.0	0.0

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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								
Frequency (MHz)								
100	Pl2 BPSK	1	1	21.42	3500.01			
100	Pl2 BPSK	1	137	21.35			23.0	0.0
100	Pl2 BPSK	1	271	21.34				
100	Pl2 BPSK	135	0	21.32			22.5	0.5
100	Pl2 BPSK	135	69	21.37			23.0	0.0
100	Pl2 BPSK	135	138	21.25			22.5	0.5
100	Pl2 BPSK	270	0	21.39			22.5	0.5
100	QPSK	1	1	21.46				
100	QPSK	1	137	21.17			23.0	0.0
100	QPSK	1	271	21.05				
100	QPSK	135	0	20.49			22.0	1.0
100	QPSK	135	69	21.45			23.0	0.0
100	QPSK	135	138	20.36			22.0	1.0
100	QPSK	270	0	20.48			22.0	1.0
100	16QAM	1	1	21.11			22.0	1.0
100	64QAM	1	1	19.57			20.5	2.5
100	256QAM	1	1	17.86			18.5	4.5
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.40	21.36	21.17	23.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.32	21.39	21.36	23.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.53	21.53	21.29	23.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.24	21.35	21.21	23.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.32	21.25	21.16	23.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.41	21.26	21.44	23.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.22	21.42	21.39	23.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.45	21.32	21.35	23.0	0.0

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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								
Frequency (MHz)								
100	Pl2 BPSK	1	1	24.54	3500.01			
100	Pl2 BPSK	1	137	24.47			26.0	0.0
100	Pl2 BPSK	1	271	24.49				
100	Pl2 BPSK	135	0	24.45			25.5	0.5
100	Pl2 BPSK	135	69	24.46			26.0	0.0
100	Pl2 BPSK	135	138	23.97			25.5	0.5
100	Pl2 BPSK	270	0	23.97			25.5	0.5
100	QPSK	1	1	24.57				
100	QPSK	1	137	24.53			26.0	0.0
100	QPSK	1	271	24.41				
100	QPSK	135	0	24.23			25.0	1.0
100	QPSK	135	69	24.44			26.0	0.0
100	QPSK	135	138	24.25			25.0	1.0
100	QPSK	270	0	24.51			25.0	1.0
100	16QAM	1	1	23.09			25.0	1.0
100	64QAM	1	1	21.56			23.5	2.5
100	256QAM	1	1	19.57			21.5	4.5
Channel								
Frequency (MHz)								
80	QPSK	1	1	24.36	24.46	24.43	26.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	24.37	24.42	24.32	26.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	24.47	24.59	24.25	26.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	24.28	24.51	24.42	26.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	24.41	24.41	24.34	26.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	24.40	24.41	24.34	26.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	24.29	24.58	24.25	26.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	24.41	24.48	24.28	26.0	0.0



n7 Ant 6								
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				502000	507000	512000	23.0	0.0
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	22.15	22.19	22.12		
20	PI/2 BPSK	1	53	22.09	22.16	22.06		
20	PI/2 BPSK	1	104	22.00	22.11	21.96	22.5	0.5
20	PI/2 BPSK	50	0	21.43	21.50	21.36		
20	PI/2 BPSK	50	28	22.03	22.12	21.99		
20	PI/2 BPSK	50	56	21.36	21.42	21.29		
20	PI/2 BPSK	100	0	21.36	21.45	21.37	23.0	0.0
20	QPSK	1	1	22.20	22.27	22.22		
20	QPSK	1	53	22.06	22.23	22.16		
20	QPSK	1	104	22.06	22.18	22.12		
20	QPSK	50	0	21.09	21.16	21.12	22.0	1.0
20	QPSK	50	28	22.15	22.19	22.12		
20	QPSK	50	56	20.90	20.97	20.94		
20	QPSK	100	0	20.92	21.06	20.94		
20	16QAM	1	1	21.00	21.14	21.05	20.5	2.5
20	64QAM	1	1	19.74	19.81	19.68		
20	256QAM	1	1	17.58	17.59	17.46		
20	256QAM	1	1	17.58	17.59	17.46		
Channel				501500	507000	512500	23.0	0.0
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	22.13	22.19	22.08		
15	QPSK	1	1	22.13	22.19	22.08		
Channel				501000	507000	513000	23.0	0.0
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.10	22.21	22.10		
10	QPSK	1	1	22.10	22.21	22.10		
Channel				500500	507000	513500	23.0	0.0
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	22.03	22.14	22.08		
5	QPSK	1	1	22.03	22.14	22.08		



n38 Ant 6							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				518004	518000	518996	
Frequency (MHz)				2560.02	2565	2569.98	
40	PI/2 BPSK	1	1	21.96	22.07	21.99	
40	PI/2 BPSK	1	53	21.87	21.98	21.96	23.0
40	PI/2 BPSK	1	104	21.82	21.97	21.94	
40	PI/2 BPSK	50	0	21.34	21.47	21.31	22.5 0.5
40	PI/2 BPSK	50	28	21.92	21.99	21.96	23.0 0.0
40	PI/2 BPSK	50	56	21.22	21.35	21.30	22.5 0.5
40	PI/2 BPSK	100	0	21.29	21.42	21.27	
40	QPSK	1	1	22.06	22.15	22.04	
40	QPSK	1	53	22.06	22.08	21.99	23.0 0.0
40	QPSK	1	104	21.95	22.01	21.97	
40	QPSK	50	0	20.77	20.88	20.81	22.0 1.0
40	QPSK	50	28	21.96	22.05	22.02	23.0 0.0
40	QPSK	50	56	20.72	20.87	20.77	22.0 1.0
40	QPSK	100	0	20.91	20.98	20.84	
40	16QAM	1	1	20.89	21.05	20.98	22.0 1.0
40	64QAM	1	1	19.87	19.70	19.61	20.5 2.5
40	256QAM	1	1	17.54	17.78	17.69	18.5 4.5
Channel				517002	518000	520000	
Frequency (MHz)				2585.01	2585	2604.99	
30	QPSK	1	1	21.95	22.12	21.89	23.0 0.0
Channel				516000	518000	520000	
Frequency (MHz)				2640	2645	2610	
20	QPSK	1	1	21.98	22.05	21.90	23.0 0.0

n41 Ant 6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				509002	518998	528000	
Frequency (MHz)				2546.01	2552.98	2640	
100	PI/2 BPSK	1	1	22.18	22.20	21.98	
100	PI/2 BPSK	1	137	22.15	22.19	21.91	23.0 0.0
100	PI/2 BPSK	1	271	22.21	22.24	21.99	
100	PI/2 BPSK	135	0	21.74	21.85	21.56	22.5 0.5
100	PI/2 BPSK	135	69	22.17	22.14	22.00	23.0 0.0
100	PI/2 BPSK	135	138	21.95	21.74	21.56	22.5 0.5
100	PI/2 BPSK	270	0	21.88	21.84	21.50	
100	QPSK	1	1	22.28	22.35	22.08	
100	QPSK	1	137	22.32	22.19	21.84	23.0 0.0
100	QPSK	1	271	22.10	21.82	22.03	
100	QPSK	135	0	21.24	21.42	21.07	22.0 1.0
100	QPSK	135	69	22.02	22.25	22.10	23.0 0.0
100	QPSK	135	138	21.39	21.30	21.13	22.0 1.0
100	QPSK	270	0	21.38	21.43	21.07	
100	16QAM	1	1	21.15	21.41	20.93	22.0 1.0
100	64QAM	1	1	19.81	19.97	19.55	20.5 2.5
100	256QAM	1	1	17.07	17.96	17.72	18.5 4.5
Channel				508000	518998	529998	
Frequency (MHz)				2641	2592.98	2644.98	
90	QPSK	1	1	21.87	21.88	21.93	23.0 0.0
Channel				507204	518998	529998	
Frequency (MHz)				2636.02	2592.99	2649.99	
80	QPSK	1	1	21.83	22.07	22.02	23.0 0.0
Channel				506202	518998	531000	
Frequency (MHz)				2631.01	2592.99	2655	
70	QPSK	1	1	21.83	21.86	21.83	23.0 0.0
Channel				505200	518998	531998	
Frequency (MHz)				2626	2592.98	2659.98	
60	QPSK	1	1	22.02	21.99	22.00	23.0 0.0
Channel				504204	518998	532998	
Frequency (MHz)				2621.02	2592.99	2664.99	
50	QPSK	1	1	21.86	22.07	21.99	23.0 0.0
Channel				503202	518998	534000	
Frequency (MHz)				2616.01	2592.99	2670	
40	QPSK	1	1	21.98	22.10	21.83	23.0 0.0
Channel				502200	518998	534998	
Frequency (MHz)				2611	2592.99	2674.98	
30	QPSK	1	1	21.80	22.02	22.04	23.0 0.0
Channel				501204	518998	535998	
Frequency (MHz)				2606.02	2592.99	2679.99	
20	QPSK	1	1	21.99	21.98	21.82	23.0 0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				506002	518998	528000	
Frequency (MHz)				2546.01	2552.99	2640	
100	PI/2 BPSK	1	1	24.09	24.08	23.91	
100	PI/2 BPSK	1	137	24.27	24.07	24.01	25.0 0.0
100	PI/2 BPSK	1	271	23.94	24.19	24.06	
100	PI/2 BPSK	135	0	23.56	23.92	23.29	24.5 0.5
100	PI/2 BPSK	135	69	24.05	23.94	24.08	25.0 0.0
100	PI/2 BPSK	135	138	23.92	23.53	23.76	24.5 0.5
100	PI/2 BPSK	270	0	23.92	23.65	23.50	
100	QPSK	1	1	24.14	24.39	24.01	
100	QPSK	1	137	24.05	23.88	23.80	25.0 0.0
100	QPSK	1	271	24.09	23.76	23.95	
100	QPSK	135	0	23.21	23.28	23.01	24.0 1.0
100	QPSK	135	69	23.70	23.93	23.86	25.0 0.0
100	QPSK	135	138	23.10	23.37	22.99	24.0 1.0
100	QPSK	270	0	22.91	23.07	22.85	
100	16QAM	1	1	23.32	23.22	22.98	24.0 1.0
100	64QAM	1	1	21.58	21.53	21.39	22.5 2.5
100	256QAM	1	1	19.70	19.56	19.59	20.5 4.5
Channel				505000	518998	529998	
Frequency (MHz)				2641	2592.99	2644.98	
90	QPSK	1	1	24.23 <td>24.16</td> <td>24.13</td> <td>25.0 0.0</td>	24.16	24.13	25.0 0.0
Channel				507204	518998	529998	
Frequency (MHz)				2636.02	2592.99	2649.99	
80	QPSK	1	1	24.20 <td>24.30<td>24.04</td><td>25.0 0.0</td></td>	24.30 <td>24.04</td> <td>25.0 0.0</td>	24.04	25.0 0.0
Channel				506202	518998	531000	
Frequency (MHz)				2631.01	2592.99	2655	
70	QPSK	1	1	24.23 <td>24.18<td>24.03</td><td>25.0 0.0</td></td>	24.18 <td>24.03</td> <td>25.0 0.0</td>	24.03	25.0 0.0
Channel				505200	518998	531998	
Frequency (MHz)				2626	2592.99	2659.98	
60	QPSK	1	1	24.14 <td>24.13<td>24.13</td><td>25.0 0.0</td></td>	24.13 <td>24.13</td> <td>25.0 0.0</td>	24.13	25.0 0.0
Channel				504204	518998	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	24.25 <td>24.18<td>24.10</td><td>25.0 0.0</td></td>	24.18 <td>24.10</td> <td>25.0 0.0</td>	24.10	25.0 0.0
Channel				503202	518998	534000	
Frequency (MHz)				2616.01	2592.99	2670	
40	QPSK	1	1	24.20 <td>24.34<td>24.04</td><td>25.0 0.0</td></td>	24.34 <td>24.04</td> <td>25.0 0.0</td>	24.04	25.0 0.0
Channel				502200	518998	534998	
Frequency (MHz)				2611	2592.99	2674.98	
30	QPSK	1	1	24.27 <td>24.16<td>24.06</td><td>25.0 0.0</td></td>	24.16 <td>24.06</td> <td>25.0 0.0</td>	24.06	25.0 0.0
Channel				501204	518998	535998	
Frequency (MHz)				2606.02	2592.99	2679.99	
20	QPSK	1	1	24.12 <td>24.14<td>24.16</td><td>25.0 0.0</td></td>	24.14 <td>24.16</td> <td>25.0 0.0</td>	24.16	25.0 0.0



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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				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	Pl2 BPSK	1	1	22.30	22.44	22.58	23.0	0.0
100	Pl2 BPSK	1	137	22.11	22.29	22.32		
100	Pl2 BPSK	1	271	22.09	22.28	22.10		
100	Pl2 BPSK	135	0	21.78	21.87	21.84	22.5	0.5
100	Pl2 BPSK	135	69	22.42	22.43	22.33	23.0	0.0
100	Pl2 BPSK	135	138	21.86	21.75	21.84	22.5	0.5
100	Pl2 BPSK	270	0	21.83	21.84	21.82	23.0	0.0
100	QPSK	1	1	22.21	22.25	22.15		
100	QPSK	1	137	22.10	22.24	22.17		
100	QPSK	1	271	22.05	22.19	22.11		
100	QPSK	135	0	20.92	21.06	20.97	22.0	1.0
100	QPSK	135	69	22.11	22.23	22.10	23.0	0.0
100	QPSK	135	138	20.94	21.04	21.02	22.0	1.0
100	QPSK	270	0	21.75	21.76	21.75	22.0	1.0
100	16QAM	1	1	21.06	21.12	21.03	22.0	1.0
100	64QAM	1	1	19.89	19.79	19.67	20.5	2.5
100	256QAM	1	1	17.09	17.73	17.68	18.5	4.5
Channel				640000	650000	660000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	23.0	0.0
80	Pl2 BPSK	1	1	22.12	22.21	22.07	23.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3739.02	3840	3940.01	23.0	0.0
60	Pl2 BPSK	1	1	22.15	22.19	22.11	23.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	23.0	0.0
40	Pl2 BPSK	1	1	22.15	22.17	22.09	23.0	0.0
Channel				647668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01	23.0	0.0
30	Pl2 BPSK	1	1	22.05	22.23	22.09	23.0	0.0
Channel				647334	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	23.0	0.0
20	Pl2 BPSK	1	1	22.07	22.15	22.17	23.0	0.0

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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				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	Pl2 BPSK	1	1	24.51	24.53	24.29	26.0	0.0
100	Pl2 BPSK	1	137	24.04	24.04	24.08		
100	Pl2 BPSK	1	271	23.92	24.14	23.81		
100	Pl2 BPSK	135	0	23.33	23.39	23.24	25.5	0.5
100	Pl2 BPSK	135	69	24.10	24.24	23.95	26.0	0.0
100	Pl2 BPSK	135	138	23.15	23.04	23.09	25.5	0.5
100	Pl2 BPSK	270	0	23.10	23.25	23.23	25.0	1.0
100	QPSK	1	1	23.39	23.57	23.52		
100	QPSK	1	137	23.06	23.23	23.12		
100	QPSK	1	271	23.10	23.24	23.06		
100	QPSK	135	0	22.27	22.55	22.26	24.0	2.0
100	QPSK	135	69	23.18	23.23	23.18	25.0	1.0
100	QPSK	135	138	22.19	22.23	21.96	24.0	2.0
100	QPSK	270	0	22.06	22.18	22.24	25.0	1.0
100	16QAM	1	1	23.09	23.32	23.01	25.0	1.0
100	64QAM	1	1	21.28	21.48	21.14	23.0	3.0
100	256QAM	1	1	19.71	19.61	19.61	21.5	4.5
Channel				640000	650000	660000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	26.0	0.0
80	Pl2 BPSK	1	1	24.27	24.21	24.21	26.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3739.02	3840	3940.01	26.0	0.0
60	Pl2 BPSK	1	1	24.23	24.39	24.19	26.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	26.0	0.0
40	Pl2 BPSK	1	1	24.25	24.19	24.09	26.0	0.0
Channel				647668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01	26.0	0.0
30	Pl2 BPSK	1	1	24.10	24.21	24.26	26.0	0.0
Channel				647334	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	26.0	0.0
20	Pl2 BPSK	1	1	24.20	24.16	24.17	26.0	0.0

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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				630000	633334	636668		
Frequency (MHz)				3500.01				
100	Pl2 BPSK	1	1	22.23			23.0	0.0
100	Pl2 BPSK	1	137	21.71				
100	Pl2 BPSK	1	271	21.68				
100	Pl2 BPSK	135	0	20.84			22.0	1.0
100	Pl2 BPSK	135	69	22.14			23.0	0.0
100	Pl2 BPSK	135	138	20.69			22.0	1.0
100	Pl2 BPSK	270	0	20.71			22.0	1.0
100	QPSK	1	1	21.15				
100	QPSK	1	137	20.86				
100	QPSK	1	271	20.82				
100	QPSK	135	0	19.75			20.5	2.5
100	QPSK	135	69	21.27			22.0	1.0
100	QPSK	135	138	19.81			20.5	2.5
100	QPSK	270	0	19.75			21.0	2.0
100	16QAM	1	1	20.21			19.5	3.5
100	64QAM	1	1	18.58			17.5	5.0
100	256QAM	1	1	17.15			16.0	6.0
Channel				630968	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510	23.0	0.0
80	Pl2 BPSK	1	1	22.05	22.05	22.20	23.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3490.01	3500.02	23.0	0.0
60	Pl2 BPSK	1	1	22.18	22.01	22.07	23.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01	23.0	0.0
40	Pl2 BPSK	1	1	22.02	22.22	22.10	23.0	0.0
Channel				631000	633334	635968	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02	23.0	0.0
30	Pl2 BPSK	1	1	22.05	22.09	22.04	23.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540	23.0	0.0
20	Pl2 BPSK	1	1	22.03	22.02	22.09	23.0	0.0



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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								
Frequency (MHz)				3500.01				
100	Pl2 BPSK	1	1	24.53			26.0	0.0
100	Pl2 BPSK	1	137	24.81				
100	Pl2 BPSK	1	271	24.53				
100	Pl2 BPSK	135	0	24.29			25.5	0.5
100	Pl2 BPSK	135	69	24.63			26.0	0.0
100	Pl2 BPSK	135	138	24.18			25.5	0.5
100	Pl2 BPSK	270	0	24.38			25.0	1.0
100	QPSK	1	1	24.01				
100	QPSK	1	137	23.79				
100	QPSK	1	271	23.59			24.0	2.0
100	QPSK	135	0	23.22				
100	QPSK	135	69	23.82				
100	QPSK	135	138	23.18			24.0	2.0
100	QPSK	270	0	23.47			24.5	1.5
100	16QAM	1	1	23.51				
100	64QAM	1	1	21.85				
100	256QAM	1	1	20.08			23.0	3.0
Channel				630968	633334	634000	21.0	5.0
Frequency (MHz)				3489.02	3500.01	3510		
80	Pl2 BPSK	1	1	24.36	24.41	24.44	26.0	0.0
Channel								
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
80	Pl2 BPSK	1	1	24.46	24.50	24.37	26.0	0.0
Channel								
Frequency (MHz)				631334	633334	636334	Tune-up limit (dBm)	MPR (dB)
40	Pl2 BPSK	1	1	24.52	24.44	24.40	23.0	0.0
Channel								
Frequency (MHz)				637000	633334	635668	Tune-up limit (dBm)	MPR (dB)
30	Pl2 BPSK	1	1	24.41	24.37	24.43	26.0	0.0
Channel								
Frequency (MHz)				635000	633334	636000	Tune-up limit (dBm)	MPR (dB)
20	Pl2 BPSK	1	1	24.37	24.47	24.50	26.0	0.0

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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								
Frequency (MHz)				3750				
100	Pl2 BPSK	1	1	21.64			23.0	0.0
100	Pl2 BPSK	1	137	21.05				
100	Pl2 BPSK	1	271	20.98				
100	Pl2 BPSK	135	0	20.37			22.5	0.5
100	Pl2 BPSK	135	69	21.05			23.0	0.0
100	Pl2 BPSK	135	138	20.07			22.5	0.5
100	Pl2 BPSK	270	0	20.29			22.5	0.5
100	QPSK	1	1	21.28				
100	QPSK	1	137	20.79				
100	QPSK	1	271	20.69			21.5	1.5
100	QPSK	135	0	20.06				
100	QPSK	135	69	20.82				
100	QPSK	135	138	19.63			21.5	1.5
100	QPSK	270	0	20.11			22.0	1.0
100	16QAM	1	1	20.77				
100	64QAM	1	1	19.41				
100	256QAM	1	1	18.23			20.5	2.5
Channel				648968	650000	650334	18.5	4.5
Frequency (MHz)				3745.02	3750	3755.01		
90	Pl2 BPSK	1	1	21.62	21.59	21.54	23.0	0.0
Channel								
Frequency (MHz)				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	Pl2 BPSK	1	1	21.07	21.10	21.11	23.0	0.0
Channel								
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
70	Pl2 BPSK	1	1	21.03	21.09	21.09	23.0	0.0
Channel								
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
60	Pl2 BPSK	1	1	20.45	20.43	20.47	23.0	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
50	Pl2 BPSK	1	1	21.07	21.10	21.11	23.0	0.0
Channel								
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
40	Pl2 BPSK	1	1	20.12	20.12	20.11	23.0	0.0
Channel								
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
30	Pl2 BPSK	1	1	20.37	20.38	20.36	23.0	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
20	Pl2 BPSK	1	1	20.90	20.88	20.89	23.0	0.0

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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								
Frequency (MHz)				3750				
100	Pl2 BPSK	1	1	24.29			26.0	0.0
100	Pl2 BPSK	1	137	23.92				
100	Pl2 BPSK	1	271	23.69				
100	Pl2 BPSK	135	0	23.56			25.5	0.5
100	Pl2 BPSK	135	69	23.73			26.0	0.0
100	Pl2 BPSK	135	138	23.30			25.5	0.5
100	Pl2 BPSK	270	0	23.04			25.5	0.5
100	QPSK	1	1	23.56				
100	QPSK	1	137	23.62				
100	QPSK	1	271	22.71			24.0	2.0
100	QPSK	135	0	22.80				
100	QPSK	135	69	22.72				
100	QPSK	135	138	22.36			24.0	2.0
100	QPSK	270	0	22.52			24.5	1.5
100	16QAM	1	1	22.89				
100	64QAM	1	1	21.89				
100	256QAM	1	1	19.63			23.5	2.5
Channel				648968	650000	650334	21.5	4.5
Frequency (MHz)				3745.02	3750	3755.01		
90	Pl2 BPSK	1	1	24.16	24.11	24.02	26.0	0.0
Channel								
Frequency (MHz)				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	Pl2 BPSK	1	1	24.02	24.11	23.93	26.0	0.0
Channel								
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
70	Pl2 BPSK	1	1	24.01	24.01	24.10	26.0	0.0
Channel								
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
60	Pl2 BPSK	1	1	24.02	24.09	23.89	26.0	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
50	Pl2 BPSK	1	1	24.11	24.11	23.94	26.0	0.0
Channel								
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
40	Pl2 BPSK	1	1	24.16	24.24	23.90	26.0	0.0
Channel								
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
30	Pl2 BPSK	1	1	23.89	24.10	23.97	26.0	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
20	Pl2 BPSK	1	1	24.06	24.02	24.01	26.0	0.0



Part27Q n78 Ant 6									
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				3500.01					
Frequency (MHz)				22.03					
100	PI2 BPSK	1	1		22.01		23.0	0.0	
100	PI2 BPSK	1	137		22.01				
100	PI2 BPSK	1	271		21.00		22.5	0.5	
100	PI2 BPSK	135	0		21.85		23.0	0.5	
100	PI2 BPSK	135	138		20.81		22.5	0.5	
100	PI2 BPSK	270	0		20.95				
100	QPSK	1	1		21.84				
100	QPSK	1	137		21.78		22.5	0.5	
100	QPSK	1	271		21.48				
100	QPSK	135	0		20.70		21.5	1.5	
100	QPSK	135	69		21.61		22.5	0.5	
100	QPSK	135	138		20.57		21.5	1.5	
100	QPSK	270	0		20.76				
100	16QAM	1	1		21.05		22.0	1.0	
100	64QAM	1	1		19.56		20.5	2.5	
100	256QAM	1	1		18.01		19.0	4.0	
Channel				633000	633334	633668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3495	3500.01	3505.02			
90	PI2 BPSK	1	1		22.02	21.91	21.88	23.0	0.0
Channel				630968	633334	634000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3499.02	3500.01	3501.01			
80	PI2 BPSK	1	1		21.86	21.97	21.89	23.0	0.0
Channel				632334	633334	634334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	PI2 BPSK	1	1		21.67	21.69	21.52	23.0	0.0
Channel				632000	633334	634968	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3480	3500.01	3520.02			
60	PI2 BPSK	1	1		21.88	21.87	21.97	23.0	0.0
Channel				631063	633334	635000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3475.02	3500.01	3525			
50	PI2 BPSK	1	1		21.98	21.94	21.94	23.0	0.0
Channel				631334	633334	635334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	PI2 BPSK	1	1		21.90	22.00	21.92	23.0	0.0
Channel				631000	633334	636968	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3465	3500.01	3535.02			
30	PI2 BPSK	1	1		21.96	21.98	21.88	23.0	0.0
Channel				630968	633334	635000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3460.02	3500.01	3540			
20	PI2 BPSK	1	1		22.01	21.90	21.88	23.0	0.0

Part27Q n78 HPUE Ant 6									
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				633000 633334					
Frequency (MHz)				24.79					
100	PI2 BPSK	1	1		24.78		26.0	0.0	
100	PI2 BPSK	1	137		24.67				
100	PI2 BPSK	1	271		24.23		25.5	0.5	
100	PI2 BPSK	135	0		24.69		26.0	0.5	
100	PI2 BPSK	135	69		24.05		25.5	0.5	
100	PI2 BPSK	270	0		24.15		25.5	0.5	
100	QPSK	1	1		23.93				
100	QPSK	1	137		23.98		25.0	1.0	
100	QPSK	1	271		23.45				
100	QPSK	135	0		23.30		24.0	2.0	
100	QPSK	135	69		23.69		25.0	1.0	
100	QPSK	135	138		23.19		24.0	2.0	
100	QPSK	270	0		23.23				
100	16QAM	1	1		22.78		24.0	2.0	
100	64QAM	1	1		21.71		23.0	3.0	
100	256QAM	1	1		19.79		21.0	5.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	PI2 BPSK	1	1	24.01	24.52	24.62	26.0	0.0	
Channel				630968	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3499.02	3500.01	3501.01			
80	PI2 BPSK	1	1	24.07	24.62	24.71	26.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	PI2 BPSK	1	1	24.07	24.50	24.57	26.0	0.0	
Channel				632000	633334	634968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	PI2 BPSK	1	1	24.04	24.50	24.63	26.0	0.0	
Channel				631063	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	PI2 BPSK	1	1	24.03	24.54	24.60	26.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	PI2 BPSK	1	1	24.01	24.54	24.69	26.0	0.0	
Channel				631000	633334	636968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	PI2 BPSK	1	1	24.71	24.49	24.61	26.0	0.0	
Channel				630968	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	PI2 BPSK	1	1	24.04	24.59	24.52	26.0	0.0	



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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				502000	507000	512000	23.0	0.0
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	21.21	21.35	21.27		
20	PI/2 BPSK	1	53	21.13	21.29	21.15		
20	PI/2 BPSK	1	104	21.14	21.25	21.19	22.5	0.5
20	PI/2 BPSK	50	0	20.62	20.71	20.61		
20	PI/2 BPSK	50	28	21.19	21.25	21.25		
20	PI/2 BPSK	50	56	20.51	20.63	20.55		
20	PI/2 BPSK	100	0	20.52	20.67	20.58	23.0	0.0
20	QPSK	1	1	21.33	21.41	21.33		
20	QPSK	1	53	21.23	21.33	21.27		
20	QPSK	1	104	21.25	21.30	21.19		
20	QPSK	50	0	20.13	20.22	20.15	22.0	1.0
20	QPSK	50	28	21.22	21.34	21.20		
20	QPSK	50	56	20.02	20.03	20.01		
20	QPSK	100	0	20.03	20.09	20.04		
20	16QAM	1	1	20.22	20.32	20.21	20.5	2.5
20	64QAM	1	1	18.82	18.88	18.82		
20	256QAM	1	1	16.58	16.71	16.54		
Channel				501500	507000	512500	23.0	0.0
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	21.25	21.32	21.26		
Channel				501000	507000	513000		
Frequency (MHz)				2505	2535	2565	23.0	0.0
10	QPSK	1	1	21.19	21.27	21.26		
Channel				500500	507000	513500		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	21.20	21.33	21.25	23.0	0.0



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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				516004	516000	516996			
Frequency (MHz)				2580.02	2595	2599.98			
40	P12 BPSK	1	1	19.91	20.01	19.82			
40	P12 BPSK	1	53	19.90	19.97	19.91	21.0	0.0	
40	P12 BPSK	1	104	19.92	20.06	19.90			
40	P12 BPSK	50	0	19.48	19.45	19.45	20.5	0.5	
40	P12 BPSK	50	28	19.87	19.98	19.94	21.0	0.0	
40	P12 BPSK	50	56	19.61	19.59	19.44	20.5	0.5	
40	P12 BPSK	100	0	19.60	19.59	19.46			
40	QPSK	1	1	20.03	20.11	20.00	21.0	0.0	
40	QPSK	1	53	19.88	19.92	19.88			
40	QPSK	1	104	19.91	19.99	19.91			
40	QPSK	50	0	18.99	18.99	18.98	20.0	1.0	
40	QPSK	50	28	20.00	20.02	19.99	21.0	0.0	
40	QPSK	50	56	18.93	18.92	18.95	20.0	1.0	
40	QPSK	100	0	18.97	18.95	18.97			
40	16QAM	1	1	18.95	18.97	18.92	20.0	1.0	
40	64QAM	1	1	17.52	17.54	17.45	18.5	2.5	
40	256QAM	1	1	15.58	15.57	15.51	16.5	4.5	
Channel				517002	516000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	19.95	19.97	19.97	21.0	0.0	
Channel				516000	516000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2590	2595	2610			
20	QPSK	1	1	19.95	20.00	19.88	21.0	0.0	

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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				506202	518598	520998			
Frequency (MHz)				2548.01	2592.99	2640			
100	P12 BPSK	1	1	20.02	20.09	19.93			
100	P12 BPSK	1	137	19.97	20.02	20.03	21.0	0.0	
100	P12 BPSK	1	271	20.04	20.11	20.03			
100	P12 BPSK	135	0	19.58	19.62	19.58	20.5	0.5	
100	P12 BPSK	135	69	20.00	20.06	20.05	21.0	0.0	
100	P12 BPSK	135	138	19.65	19.64	19.58	20.5	0.5	
100	P12 BPSK	270	0	19.68	19.62	19.54			
100	QPSK	1	1	20.10	20.15	20.08	21.0	0.0	
100	QPSK	1	137	20.00	20.04	19.94			
100	QPSK	1	271	19.99	20.10	20.05			
100	QPSK	135	0	19.06	19.07	19.06	20.0	1.0	
100	QPSK	135	69	20.08	20.10	20.05	21.0	0.0	
100	QPSK	135	138	19.05	19.10	19.02	20.0	1.0	
100	QPSK	270	0	19.08	19.13	19.06			
100	16QAM	1	1	19.08	19.09	19.04	20.0	1.0	
100	64QAM	1	1	17.61	17.60	17.58	18.5	2.5	
100	256QAM	1	1	15.64	15.69	15.58	16.5	4.5	
Channel				506202	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.99	20.02	19.94	21.0	0.0	
Channel				507204	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2643.99			
80	QPSK	1	1	19.95	20.03	19.95	21.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	19.95	19.99	20.00	21.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	19.95	20.05	19.95	21.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.97	20.02	19.92	21.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	20.00	20.00	19.94	21.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	19.99	20.08	19.89	21.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	20.02	20.01	19.94	21.0	0.0	

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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				506202	518598	530000			
Frequency (MHz)				2548.01	2592.99	2640			
100	P12 BPSK	1	1	21.83	21.90	21.80			
100	P12 BPSK	1	137	21.82	21.86	21.78	23.0	0.0	
100	P12 BPSK	1	271	21.82	21.83	21.87			
100	P12 BPSK	135	0	21.47	21.47	21.50	22.5	0.5	
100	P12 BPSK	135	69	21.87	21.85	21.89	23.0	0.5	
100	P12 BPSK	135	138	21.41	21.47	21.45	22.5	0.5	
100	P12 BPSK	270	0	21.38	21.51	21.41			
100	QPSK	1	1	21.92	21.96	21.96	23.0	0.0	
100	QPSK	1	137	21.84	21.86	21.79			
100	QPSK	1	271	21.81	21.90	21.82			
100	QPSK	135	0	20.90	20.99	20.98	22.0	1.0	
100	QPSK	135	69	21.81	21.88	21.85	23.0	0.0	
100	QPSK	135	138	20.91	20.90	20.93	22.0	1.0	
100	QPSK	270	0	20.95	20.97	20.96			
100	16QAM	1	1	20.86	20.96	20.91	22.0	1.0	
100	64QAM	1	1	18.64	18.58	19.50	20.5	2.5	
100	256QAM	1	1	17.44	17.46	17.43	18.5	4.5	
Channel				506202	518598	532996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.85	21.91	21.88	23.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2649.99			
80	QPSK	1	1	21.77	21.89	21.85	23.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	21.82	21.87	21.81	23.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	21.84	21.86	21.84	23.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	21.89	21.86	21.87	23.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	21.81	21.87	21.81	23.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	21.77	21.83	21.81	23.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.80	21.87	21.87	23.0	0.0	



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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				636000	641666	646332			
Frequency (MHz)				3520	3624.99	3679.98			
40	Pl2 BPSK	1	1	16.82	16.63	16.81			
40	Pl2 BPSK	1	53	16.76	16.79	16.78	18.0		
40	Pl2 BPSK	1	104	16.72	16.75	16.70			
40	Pl2 BPSK	50	0	16.77	16.74	16.73	18.0	0.0	
40	Pl2 BPSK	50	28	16.76	16.80	16.78	18.0	0.0	
40	Pl2 BPSK	50	56	16.68	16.72	16.71	18.0	0.0	
40	Pl2 BPSK	100	0	16.75	16.78	16.72			
40	QPSK	1	1	16.70	16.79	16.67			
40	QPSK	1	53	16.71	16.66	16.71	18.0	0.0	
40	QPSK	1	104	16.50	16.64	16.57			
40	QPSK	50	0	16.73	16.63	16.62	18.0	0.0	
40	QPSK	50	28	16.65	16.71	16.65	18.0	0.0	
40	QPSK	50	56	16.51	16.68	16.63	18.0	0.0	
40	QPSK	100	0	16.54	16.68	16.66	18.0	0.0	
40	16QAM	1	1	16.63	16.64	16.61	18.0	0.0	
40	64QAM	1	1	16.64	16.65	16.69	18.0	0.0	
40	256QAM	1	1	16.56	16.62	16.63	18.0	0.0	
Channel				635000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3560.01	3624.99	3680			
20	Pl2 BPSK	1	1	16.68	16.64	16.67	18.0	0.0	

Part270 n77 Ant 8									
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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	Pl2 BPSK	1	1	14.08	14.10	14.06			
100	Pl2 BPSK	1	137	14.08	14.06	13.98	15.5	0.0	
100	Pl2 BPSK	1	271	14.08	14.05	14.03			
100	Pl2 BPSK	135	0	14.01	14.02	14.00	15.5	0.0	
100	Pl2 BPSK	135	69	14.02	14.05	14.03	15.5	0.0	
100	Pl2 BPSK	135	138	14.03	13.97	14.02	15.5	0.0	
100	Pl2 BPSK	270	0	13.95	14.01	13.98			
100	QPSK	1	1	13.97	13.99	13.97			
100	QPSK	1	137	14.05	14.00	13.95	15.5	0.0	
100	QPSK	1	271	13.95	13.98	13.94			
100	QPSK	135	0	13.91	13.88	13.95	15.5	0.0	
100	QPSK	135	69	13.94	13.93	13.92	15.5	0.0	
100	QPSK	135	138	13.98	13.90	13.97	15.5	0.0	
100	QPSK	270	0	13.95	13.93	13.90			
100	16QAM	1	1	14.02	14.02	13.98	15.5	0.0	
100	64QAM	1	1	13.93	13.99	13.98	15.5	0.0	
100	256QAM	1	1	13.96	13.97	14.00	15.5	0.0	
Channel				645334	652000	658666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	Pl2 BPSK	1	1	13.96	13.94	13.91	15.5	0.0	
Channel				646668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.02	3840	3940.01			
60	Pl2 BPSK	1	1	13.96	13.94	13.94	15.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	Pl2 BPSK	1	1	14.03	13.93	13.97	15.5	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	Pl2 BPSK	1	1	14.04	14.01	13.91	15.5	0.0	
Channel				641334	650000	658666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	Pl2 BPSK	1	1	13.96	13.94	13.96	15.5	0.0	

Part270 n77 HPUE Ant 8									
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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	Pl2 BPSK	1	1	16.65	16.59	16.61			
100	Pl2 BPSK	1	137	16.73	16.83	16.74	18.5	0.0	
100	Pl2 BPSK	1	271	16.74	16.78	16.79			
100	Pl2 BPSK	135	0	16.74	16.62	16.79	18.5	0.0	
100	Pl2 BPSK	135	69	16.62	16.96	16.63	18.5	0.0	
100	Pl2 BPSK	135	138	16.77	16.84	16.80	18.5	0.0	
100	Pl2 BPSK	270	0	16.75	16.83	16.76			
100	QPSK	1	1	16.74	16.85	16.74			
100	QPSK	1	137	16.65	16.78	16.68	18.5	0.0	
100	QPSK	1	271	16.70	16.71	16.65			
100	QPSK	135	0	16.67	16.84	16.74	18.5	0.0	
100	QPSK	135	69	16.74	16.76	16.76	18.5	0.0	
100	QPSK	135	138	16.64	16.77	16.65	18.5	0.0	
100	QPSK	270	0	16.60	16.74	16.70			
100	16QAM	1	1	16.69	16.70	16.63	18.5	0.0	
100	64QAM	1	1	16.64	16.60	16.54	18.5	0.0	
100	256QAM	1	1	16.74	16.68	16.68	18.5	0.0	
Channel				645334	652000	658666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	Pl2 BPSK	1	1	16.80	16.89	16.74	18.5	0.0	
Channel				646668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.02	3840	3940.01			
60	Pl2 BPSK	1	1	16.73	16.91	16.68	18.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	Pl2 BPSK	1	1	16.73	16.93	16.74	18.5	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	Pl2 BPSK	1	1	16.74	16.90	16.66	18.5	0.0	
Channel				641334	650000	658666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	Pl2 BPSK	1	1	16.71	16.91	16.70	18.5	0.0	

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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								
Frequency (MHz)								
100	PI2 BPSK	1	1	15.25	3500.01		15.5	0.0
100	PI2 BPSK	1	137	15.21				
100	PI2 BPSK	1	271	15.14				
100	PI2 BPSK	135	0	15.17			15.5	0.0
100	PI2 BPSK	135	69	15.21			15.5	0.0
100	PI2 BPSK	135	138	15.14			15.5	0.0
100	PI2 BPSK	270	0	15.18			15.5	0.0
100	QPSK	1	1	15.17				
100	QPSK	1	137	15.19				
100	QPSK	1	271	15.10			15.5	0.0
100	QPSK	135	0	15.08			15.5	0.0
100	QPSK	135	69	15.18			15.5	0.0
100	QPSK	135	138	15.10			15.5	0.0
100	QPSK	270	0	15.15			15.5	0.0
100	16QAM	1	1	15.15			15.5	0.0
100	64QAM	1	1	15.08			15.5	0.0
100	256QAM	1	1	15.13			15.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	15.11	15.19	15.12	15.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	15.00	15.11	15.08	15.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	15.00	15.13	14.99	15.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	15.00	15.04	15.05	15.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	15.01	15.09	15.02	15.5	0.0

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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								
Frequency (MHz)								
100	PI2 BPSK	1	1	17.71	3500.01		18.5	0.0
100	PI2 BPSK	1	137	17.54				
100	PI2 BPSK	1	271	17.48				
100	PI2 BPSK	135	0	17.50			18.5	0.0
100	PI2 BPSK	135	69	17.70			18.5	0.0
100	PI2 BPSK	135	138	17.51			18.5	0.0
100	PI2 BPSK	270	0	17.50			18.5	0.0
100	QPSK	1	1	17.52				
100	QPSK	1	137	17.52				
100	QPSK	1	271	17.45			18.5	0.0
100	QPSK	135	0	17.39			18.5	0.0
100	QPSK	135	69	17.53			18.5	0.0
100	QPSK	135	138	17.41			18.5	0.0
100	QPSK	270	0	17.45			18.5	0.0
100	16QAM	1	1	17.58			18.5	0.0
100	64QAM	1	1	17.65			18.5	0.0
100	256QAM	1	1	17.62			18.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	17.61	17.62	17.63	18.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	17.50	17.56	17.56	18.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	17.52	17.54	17.47	18.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	17.51	17.58	17.48	18.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	17.54	17.47	17.58	18.5	0.0

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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								
Frequency (MHz)								
100	PI2 BPSK	1	1		3750		15.5	0.0
100	PI2 BPSK	1	137		14.01			
100	PI2 BPSK	1	271		13.91			
100	PI2 BPSK	135	0		13.94		15.5	0.0
100	PI2 BPSK	135	69		13.95		15.5	0.0
100	PI2 BPSK	135	138		13.98		15.5	0.0
100	PI2 BPSK	270	0		13.85		15.5	0.0
100	PI2 BPSK	270	0		13.94		15.5	0.0
100	QPSK	1	1		13.92			
100	QPSK	1	137		13.92			
100	QPSK	1	271		13.85		15.5	0.0
100	QPSK	135	0		13.75		15.5	0.0
100	QPSK	135	69		13.79		15.5	0.0
100	QPSK	135	138		13.75		15.5	0.0
100	QPSK	270	0		13.85		15.5	0.0
100	16QAM	1	1		13.93		15.5	0.0
100	64QAM	1	1		13.85		15.5	0.0
100	256QAM	1	1		13.82		15.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1		3745.02	3750	3750.01	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1		3745.02	3750	3750.01	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1		3745.02	3750	3750.01	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1		3745.02	3750	3750.01	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1		3745.02	3750	3750.01	0.0



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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								
Frequency (MHz)								
100	PI2 BPSK	1	1		3750			
100	PI2 BPSK	1	1		16.82			
100	PI2 BPSK	1	137		16.70		18.5	0.0
100	PI2 BPSK	1	271		16.72			
100	PI2 BPSK	135	0		16.68		18.5	0.0
100	PI2 BPSK	135	69		16.70		18.5	0.0
100	PI2 BPSK	135	138		16.74		18.5	0.0
100	PI2 BPSK	270	0		16.76			
100	QPSK	1	1		16.77			
100	QPSK	1	137		16.71		18.5	0.0
100	QPSK	1	271		16.58			
100	QPSK	135	0		16.71		18.5	0.0
100	QPSK	135	69		16.67		18.5	0.0
100	QPSK	135	138		16.63		18.5	0.0
100	QPSK	270	0		16.65			
100	16QAM	1	1		16.61		18.5	0.0
100	64QAM	1	1		16.69		18.5	0.0
100	256QAM	1	1		16.66		18.5	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	549600	630000	3755.01	Tune-up limit (dBm)	MPR (dB)
90	PI2 BPSK	1	1	16.71	16.76	16.74	18.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	646334	630000	630068	Tune-up limit (dBm)	MPR (dB)
80	PI2 BPSK	1	1	3745.01	3750	3750.02	18.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	646000	630000	631000	Tune-up limit (dBm)	MPR (dB)
70	PI2 BPSK	1	1	3735	3750	3765	18.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	646668	630000	631334	Tune-up limit (dBm)	MPR (dB)
60	PI2 BPSK	1	1	3730.02	3750	3770.01	18.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	646334	630000	631000	Tune-up limit (dBm)	MPR (dB)
50	PI2 BPSK	1	1	16.62	16.64	16.70	18.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	646000	630000	630000	Tune-up limit (dBm)	MPR (dB)
40	PI2 BPSK	1	1	16.63	16.65	16.65	18.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	647668	630000	632334	Tune-up limit (dBm)	MPR (dB)
30	PI2 BPSK	1	1	3715.02	3750	3785.01	18.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	647334	630000	632000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	3710.01	3750	3790.02	18.5	0.0

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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								
Frequency (MHz)								
100	PI2 BPSK	1	1		3000.01			
100	PI2 BPSK	1	1		15.21			
100	PI2 BPSK	1	137		15.09		15.5	0.0
100	PI2 BPSK	1	271		15.00			
100	PI2 BPSK	135	0		15.04		15.5	0.0
100	PI2 BPSK	135	69		15.16		15.5	0.0
100	PI2 BPSK	135	138		15.08		15.5	0.0
100	PI2 BPSK	270	0		15.13			
100	QPSK	1	1		15.12			
100	QPSK	1	137		15.07		15.5	0.0
100	QPSK	1	271		15.03			
100	QPSK	135	0		15.01		15.5	0.0
100	QPSK	135	69		15.09		15.5	0.0
100	QPSK	135	138		15.01		15.5	0.0
100	QPSK	270	0		15.05			
100	16QAM	1	1		15.01		15.5	0.0
100	64QAM	1	1		15.12		15.5	0.0
100	256QAM	1	1		15.10		15.5	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
90	PI2 BPSK	1	1	3465	3500.01	3505.02	15.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
80	PI2 BPSK	1	1	3460.02	3500.01	3510	15.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
70	PI2 BPSK	1	1	3455.01	3500.01	3515.01	15.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
60	PI2 BPSK	1	1	3450	3500.01	3520.02	15.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
50	PI2 BPSK	1	1	3445.02	3500.01	3525	15.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
40	PI2 BPSK	1	1	3440.01	3500.01	3530.01	15.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
30	PI2 BPSK	1	1	3435	3500.01	3535.02	15.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	3430.02	3500.01	3540	15.5	0.0

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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								
Frequency (MHz)								
100	PI2 BPSK	1	1		3000.01			
100	PI2 BPSK	1	137		17.61			
100	PI2 BPSK	1	271		17.44		18.5	0.0
100	PI2 BPSK	135	0		17.37		18.5	0.0
100	PI2 BPSK	135	69		17.48		18.5	0.0
100	PI2 BPSK	135	138		17.41		18.5	0.0
100	PI2 BPSK	270	0		17.40		18.5	0.0
100	QPSK	1	1		17.44			
100	QPSK	1	137		17.42		18.5	0.0
100	QPSK	1	271		17.38			
100	QPSK	135	0		17.31		18.5	0.0
100	QPSK	135	69		17.46		18.5	0.0
100	QPSK	135	138		17.37		18.5	0.0
100	QPSK	270	0		17.35			
100	16QAM	1	1		17.42		18.5	0.0
100	64QAM	1	1		17.38		18.5	0.0
100	256QAM	1	1		17.43		18.5	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	3495	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
80	PI2 BPSK	1	1	3460.02	3500.01	3510	18.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
70	PI2 BPSK	1	1	3455.01	3500.01	3515.01	18.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
60	PI2 BPSK	1	1	3450	3500.01	3520.02	18.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
50	PI2 BPSK	1	1	3445.02	3500.01	3525	18.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
40	PI2 BPSK	1	1	3440.01	3500.01	3530.01	18.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
30	PI2 BPSK	1	1	3435	3500.01	3535.02	18.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	3430.02	3500.01	3540	18.5	0.0



Part270 n77 Ant 9									
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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	Pl2 BPSK	1	1	23.31	23.48	23.42	24.0	0.0	
100	Pl2 BPSK	1	137	23.22	23.14	23.17			
100	Pl2 BPSK	1	271	23.04	23.28	23.11			
100	Pl2 BPSK	135	0	23.08	23.21	23.10	23.5	0.5	
100	Pl2 BPSK	135	69	23.19	23.38	23.22	24.0	0.0	
100	Pl2 BPSK	135	138	22.99	23.12	23.04	23.5	0.5	
100	Pl2 BPSK	270	0	22.81	22.88	22.83	24.0	0.0	
100	QPSK	1	1	22.45	22.67	22.50			
100	QPSK	1	137	22.31	22.28	22.24			
100	QPSK	1	271	22.38	22.47	22.21	23.0	1.0	
100	QPSK	135	0	21.58	21.78	21.74			
100	QPSK	135	69	22.24	22.26	22.11			
100	QPSK	135	138	21.29	21.35	21.26	23.0	1.0	
100	QPSK	270	0	21.26	21.41	21.32	23.0	1.0	
100	16QAM	1	1	21.85	21.66	21.59	23.0	1.0	
100	64QAM	1	1	20.11	20.15	20.03	21.5	2.5	
100	256QAM	1	1	18.58	18.71	18.72	19.5	4.5	
Channel				640000	650000	660000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	Pl2 BPSK	1	1	23.30	23.37	23.32	24.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.02	3840	3940.03			
60	Pl2 BPSK	1	1	23.31	23.42	23.38	24.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	Pl2 BPSK	1	1	23.37	23.37	23.41	24.0	0.0	
Channel				647668	656000	665334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	Pl2 BPSK	1	1	23.24	23.40	23.37	24.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	Pl2 BPSK	1	1	23.33	23.41	23.26	24.0	0.0	

Part270 n77 HPUE Ant 9									
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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	Pl2 BPSK	1	1	25.52	25.62	25.58	26.0	0.0	
100	Pl2 BPSK	1	137	25.21	25.27	25.17			
100	Pl2 BPSK	1	271	24.89	25.00	24.83			
100	Pl2 BPSK	135	0	24.74	24.91	24.76	25.5	0.5	
100	Pl2 BPSK	135	69	25.31	25.43	25.38	26.0	0.0	
100	Pl2 BPSK	135	138	24.53	24.59	24.48	25.5	0.5	
100	Pl2 BPSK	270	0	24.49	24.51	24.47	25.0	1.0	
100	QPSK	1	1	24.58	24.69	24.52			
100	QPSK	1	137	24.17	24.22	24.13			
100	QPSK	1	271	24.10	24.27	24.06	24.0	2.0	
100	QPSK	135	0	23.56	23.57	23.38			
100	QPSK	135	69	24.05	24.13	24.08			
100	QPSK	135	138	23.08	23.15	23.11	24.0	2.0	
100	QPSK	270	0	23.06	23.21	23.10	24.0	2.0	
100	16QAM	1	1	23.05	23.09	23.02	24.0	2.0	
100	64QAM	1	1	21.51	21.65	21.58	22.5	3.5	
100	256QAM	1	1	19.54	19.71	19.54	21.0	5.0	
Channel				640000	650000	660000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	Pl2 BPSK	1	1	25.40	25.59	25.58	26.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.02	3840	3940.03			
60	Pl2 BPSK	1	1	25.43	25.55	25.57	26.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	Pl2 BPSK	1	1	25.37	25.48	25.39	26.0	0.0	
Channel				647668	656000	665334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	Pl2 BPSK	1	1	25.41	25.45	25.49	26.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	Pl2 BPSK	1	1	25.45	25.53	25.52	26.0	0.0	

Part270Q n77 Ant 9									
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				650000	656000	662000			
Frequency (MHz)				3750.01	3840	3930			
100	Pl2 BPSK	1	1	23.77	23.77	23.77	24.0	0.0	
100	Pl2 BPSK	1	137	23.37	23.37	23.37			
100	Pl2 BPSK	1	271	23.37	23.37	23.37			
100	Pl2 BPSK	135	0	23.39	23.39	23.39	23.5	0.5	
100	Pl2 BPSK	135	69	23.63	23.63	23.63	24.0	0.0	
100	Pl2 BPSK	135	138	23.34	23.34	23.34	23.5	0.5	
100	Pl2 BPSK	270	0	23.18	23.18	23.18	23.0	1.0	
100	QPSK	1	1	22.85	22.85	22.85			
100	QPSK	1	137	22.46	22.46	22.46			
100	QPSK	1	271	22.56	22.56	22.56	22.0	2.0	
100	QPSK	135	0	22.59	22.59	22.59			
100	QPSK	135	69	22.59	22.59	22.59			
100	QPSK	135	138	21.52	21.52	21.52	22.0	2.0	
100	QPSK	270	0	21.59	21.59	21.59	22.0	2.0	
100	16QAM	1	1	21.74	21.74	21.74	20.5	3.5	
100	64QAM	1	1	20.19	20.19	20.19	19.0	5.0	
100	256QAM	1	1	18.63	18.63	18.63			
Channel				630000	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480.02	3500.01	3510			
80	Pl2 BPSK	1	1	23.02	23.00	23.51	24.0	0.0	
Channel				630000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3480.03	3490.05			
60	Pl2 BPSK	1	1	23.49	23.67	23.65	24.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	Pl2 BPSK	1	1	23.63	23.68	23.62	24.0	0.0	
Channel				631000	633334	635968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	Pl2 BPSK	1	1	23.66	23.72	23.52	24.0	0.0	
Channel				630668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	Pl2 BPSK	1	1	23.74	23.67	23.59	24.0	0.0	



Part27Q n77 HPUE Ant 9									
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				3500.01					
Frequency (MHz)				24.83					
100	PI2 BPSK	1	1		24.82		26.0	0.0	
100	PI2 BPSK	1	137		24.82				
100	PI2 BPSK	1	271		24.58				
100	PI2 BPSK	135	0		24.21		25.5	0.5	
100	PI2 BPSK	135	69		24.80		26.0	0.0	
100	PI2 BPSK	135	138		24.36		25.5	0.5	
100	PI2 BPSK	270	0		24.32				
100	QPSK	1	1		23.97				
100	QPSK	1	137		23.91		25.0	1.0	
100	QPSK	1	271		23.82				
100	QPSK	135	0		23.41		24.0	2.0	
100	QPSK	135	69		23.84		25.0	1.0	
100	QPSK	135	138		23.11		24.0	2.0	
100	QPSK	270	0		23.20				
100	16QAM	1	1		23.07		24.0	2.0	
100	64QAM	1	1		21.07		22.0	4.0	
100	256QAM	1	1		20.02		21.0	5.0	
Channel				632060	633334	634000			
Frequency (MHz)				3460.02	3500.01	3510			
80	PI2 BPSK	1	1		24.79	24.77	24.74	26.0	0.0
Channel				632060	633334	634068			
Frequency (MHz)				3460	3500.01	3530.02			
60	PI2 BPSK	1	1		24.76	24.81	24.76	26.0	0.0
Channel				631334	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01			
40	PI2 BPSK	1	1		24.80	24.80	24.79	26.0	0.0
Channel				631000	633334	635668			
Frequency (MHz)				3465	3500.01	3535.02			
30	PI2 BPSK	1	1		24.82	24.79	24.71	26.0	0.0
Channel				630560	633334	635900			
Frequency (MHz)				3460.02	3500.01	3540			
20	PI2 BPSK	1	1		24.72	24.71	24.81	26.0	0.0

Part27O n78 Ant 9									
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				3750					
Frequency (MHz)				23.20					
100	PI2 BPSK	1	1		23.12		24.0	0.0	
100	PI2 BPSK	1	137		23.08				
100	PI2 BPSK	1	271		23.08				
100	PI2 BPSK	135	0		22.81		23.5	0.5	
100	PI2 BPSK	135	69		23.17		24.0	0.0	
100	PI2 BPSK	135	138		22.76		23.5	0.5	
100	PI2 BPSK	270	0		22.63				
100	QPSK	1	1		22.15				
100	QPSK	1	137		21.99		23.0	1.0	
100	QPSK	1	271		22.05				
100	QPSK	135	0		21.56		22.0	2.0	
100	QPSK	135	69		22.11		23.0	1.0	
100	QPSK	135	138		21.09		22.0	2.0	
100	QPSK	270	0		21.17				
100	16QAM	1	1		21.30		22.0	2.0	
100	64QAM	1	1		19.79		20.5	3.5	
100	256QAM	1	1		18.22		19.0	5.0	
Channel				649668	650000	650334			
Frequency (MHz)				3745.02	3750	3755.01			
90	PI2 BPSK	1	1		23.09	23.03	22.94	24.0	0.0
Channel				649334	650000	650668			
Frequency (MHz)				3740.01	3750	3760.02			
80	PI2 BPSK	1	1		23.09	23.03	22.96	24.0	0.0
Channel				649000	650000	651000			
Frequency (MHz)				3735	3750	3765			
70	PI2 BPSK	1	1		22.95	23.13	22.91	24.0	0.0
Channel				648668	650000	651334			
Frequency (MHz)				3730.02	3750	3770.01			
60	PI2 BPSK	1	1		23.07	23.01	23.00	24.0	0.0
Channel				648334	650000	651668			
Frequency (MHz)				3725.01	3750	3775.02			
50	PI2 BPSK	1	1		22.97	23.12	22.96	24.0	0.0
Channel				648000	650000	652000			
Frequency (MHz)				3720	3750	3780			
40	PI2 BPSK	1	1		23.11	23.02	22.92	24.0	0.0
Channel				647668	650000	652334			
Frequency (MHz)				3715.02	3750	3785.01			
30	PI2 BPSK	1	1		23.09	23.04	22.89	24.0	0.0
Channel				647334	650000	652668			
Frequency (MHz)				3710.01	3750	3790.02			
20	PI2 BPSK	1	1		22.95	23.15	22.86	24.0	0.0

Part27O n78 HPUE Ant 9									
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				3750					
Frequency (MHz)				23.07					
100	PI2 BPSK	1	1		23.07		26.0	0.0	
100	PI2 BPSK	1	137		24.96				
100	PI2 BPSK	1	271		24.77				
100	PI2 BPSK	135	0		24.35		25.5	0.5	
100	PI2 BPSK	135	69		24.66		26.0	0.0	
100	PI2 BPSK	135	138		24.59		25.5	0.5	
100	PI2 BPSK	270	0		24.40				
100	QPSK	1	1		24.15				
100	QPSK	1	137		24.06		25.0	1.0	
100	QPSK	1	271		24.08				
100	QPSK	135	0		23.60		24.5	1.5	
100	QPSK	135	69		24.06		25.0	1.0	
100	QPSK	135	138		23.21		24.5	1.5	
100	QPSK	270	0		23.31				
100	16QAM	1	1		23.21		24.5	1.5	
100	64QAM	1	1		21.73		23.0	3.0	
100	256QAM	1	1		20.13		21.5	4.5	
Channel				649668	650000	650334			
Frequency (MHz)				3745.02	3750	3755.01			
90	PI2 BPSK	1	1		24.88	24.99	25.00	26.0	0.0
Channel				649334	650000	650668			
Frequency (MHz)				3740.01	3750	3760.02			
80	PI2 BPSK	1	1		24.91	24.95	24.98	26.0	0.0
Channel				649000	650000	651000			
Frequency (MHz)				3735	3750	3765			
70	PI2 BPSK	1	1		25.04	24.98	25.03	26.0	0.0
Channel				648668	650000	651334			
Frequency (MHz)				3730.02	3750	3770.01			
60	PI2 BPSK	1	1		24.85	25.05	24.85	26.0	0.0
Channel				648334	650000	651668			
Frequency (MHz)				3725.01	3750	3775.02			
50	PI2 BPSK	1	1		25.00	25.00	24.91	26.0	0.0
Channel				648000	650000	652000			
Frequency (MHz)				3720	3750	3780			
40	PI2 BPSK	1	1		24.83	24.81	24.98	26.0	0.0
Channel				647668	650000	652334			
Frequency (MHz)				3715.02	3750	3785.01			
30	PI2 BPSK	1	1		24.99	24.99	25.02	26.0	0.0
Channel				647334	650000	652668			
Frequency (MHz)				3710.01	3750	3790.02			
20	PI2 BPSK	1	1		24.97	25.02	24.84	26.0	0.0

Part27Q n78 Ant 9									
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				3500.01					
Frequency (MHz)				23.53					
100	Pl2 BPSK	1	1		23.53		24.0	0.0	
100	Pl2 BPSK	1	137		23.43				
100	Pl2 BPSK	1	271		23.33				
100	Pl2 BPSK	135	0		23.17		23.5	0.5	
100	Pl2 BPSK	135	69		23.39		24.0	0.0	
100	Pl2 BPSK	135	138		23.00		23.5	0.5	
100	Pl2 BPSK	270	0		22.88				
100	QPSK	1	1		22.42		23.0	1.0	
100	QPSK	1	137		22.25				
100	QPSK	1	271		22.22				
100	QPSK	135	0		21.76		22.0	2.0	
100	QPSK	135	69		22.39		23.0	1.0	
100	QPSK	135	138		21.37		22.0	2.0	
100	QPSK	270	0		21.58		22.0	2.0	
100	16QAM	1	1		21.59		20.5	3.5	
100	64QAM	1	1		20.01		19.0	5.0	
100	256QAM	1	1		18.58				
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02	24.0	0.0	
90	Pl2 BPSK	1	1		23.38	23.37	23.22	24.0	0.0
Channel				630968	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3499.02	3500.01	3501.01	24.0	0.0	
80	Pl2 BPSK	1	1		23.26	23.50	23.31	24.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01	24.0	0.0	
70	Pl2 BPSK	1	1		23.24	23.33	23.39	24.0	0.0
Channel				632000	633334	634968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02	24.0	0.0	
60	Pl2 BPSK	1	1		23.36	23.46	23.24	24.0	0.0
Channel				631163	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525	24.0	0.0	
50	Pl2 BPSK	1	1		23.39	23.42	23.25	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	24.0	0.0	
40	Pl2 BPSK	1	1		23.23	23.38	23.18	24.0	0.0
Channel				631000	633334	636968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02	24.0	0.0	
30	Pl2 BPSK	1	1		23.33	23.44	23.31	24.0	0.0
Channel				630968	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	24.0	0.0	
20	Pl2 BPSK	1	1		23.21	23.35	23.43	24.0	0.0

Part27Q n78 HPUE Ant 9									
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				3500.01					
Frequency (MHz)				24.69					
100	Pl2 BPSK	1	1		24.69		26.0	0.0	
100	Pl2 BPSK	1	137		24.62				
100	Pl2 BPSK	1	271		24.52				
100	Pl2 BPSK	135	0		24.17		25.5	0.5	
100	Pl2 BPSK	135	69		24.62		26.0	0.0	
100	Pl2 BPSK	135	138		24.26		25.5	0.5	
100	Pl2 BPSK	270	0		24.16				
100	QPSK	1	1		23.92		25.0	1.0	
100	QPSK	1	137		23.67				
100	QPSK	1	271		23.81				
100	QPSK	135	0		23.41		24.5	1.5	
100	QPSK	135	69		23.88		25.0	1.0	
100	QPSK	135	138		22.96		24.5	1.5	
100	QPSK	270	0		23.06		24.5	1.5	
100	16QAM	1	1		22.93		23.0	3.0	
100	64QAM	1	1		21.41		21.5	4.5	
100	256QAM	1	1		19.92				
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02	26.0	0.0	
90	Pl2 BPSK	1	1		24.75	24.70	24.82	26.0	0.0
Channel				630968	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3499.02	3500.01	3501.01	26.0	0.0	
80	Pl2 BPSK	1	1		24.83	24.81	24.57	26.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01	26.0	0.0	
70	Pl2 BPSK	1	1		24.63	24.78	24.69	26.0	0.0
Channel				632000	633334	634968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02	26.0	0.0	
60	Pl2 BPSK	1	1		24.77	24.81	24.60	26.0	0.0
Channel				631163	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525	26.0	0.0	
50	Pl2 BPSK	1	1		24.70	24.83	24.66	26.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	26.0	0.0	
40	Pl2 BPSK	1	1		24.94	24.80	24.77	26.0	0.0
Channel				631000	633334	636968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02	26.0	0.0	
30	Pl2 BPSK	1	1		24.68	24.68	24.40	26.0	0.0
Channel				630968	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	26.0	0.0	
20	Pl2 BPSK	1	1		24.81	24.78	24.56	26.0	0.0



Reduced Power Mode for DS12

n2 Ant 0								
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				372000	376000	380000	24.0	0.0
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	22.37	22.53	22.43	24.0	0.0
20	PI/2 BPSK	1	53	22.35	22.49	22.44		
20	PI/2 BPSK	1	104	22.32	22.40	22.33	23.5	0.5
20	PI/2 BPSK	50	0	21.90	21.97	21.97		
20	PI/2 BPSK	50	28	22.42	22.49	22.33	24.0	0.0
20	PI/2 BPSK	50	56	21.75	21.91	21.86	23.5	0.5
20	PI/2 BPSK	100	0	21.92	21.94	21.89		
20	QPSK	1	1	22.52	22.56	22.56	24.0	0.0
20	QPSK	1	53	22.49	22.56	22.42		
20	QPSK	1	104	22.38	22.53	22.42	23.0	1.0
20	QPSK	50	0	21.51	21.58	21.55		
20	QPSK	50	28	22.38	22.54	22.40	24.0	0.0
20	QPSK	50	56	21.48	21.54	21.40	23.0	1.0
20	QPSK	100	0	21.55	21.60	21.47		
20	16QAM	1	1	21.50	21.61	21.50	23.0	1.0
20	64QAM	1	1	19.96	20.12	20.07	21.5	2.5
20	256QAM	1	1	18.03	18.17	18.04	19.5	4.5
Channel				371900	376000	380500	Tune-up limit	MPR
Frequency (MHz)				1857.5	1880	1902.5	(dBm)	(dB)
15	QPSK	1	1	22.33	22.55	22.44	24.0	0.0
Channel				371000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1865	1880	1905	(dBm)	(dB)
10	QPSK	1	1	22.33	22.44	22.44	24.0	0.0
Channel				371000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)
5	QPSK	1	1	22.34	22.40	22.32	24.0	0.0

n5 Ant 0								
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				166000	167000	167800	24.0	0.0
Frequency (MHz)				834	836.5	838		
20	PI/2 BPSK	1	1	22.59	22.73	22.58	24.0	0.0
20	PI/2 BPSK	1	53	22.58	22.68	22.60		
20	PI/2 BPSK	1	104	22.56	22.61	22.46	23.5	0.5
20	PI/2 BPSK	50	0	22.10	22.16	22.12		
20	PI/2 BPSK	50	28	22.55	22.64	22.50	24.0	0.0
20	PI/2 BPSK	50	56	21.99	22.04	22.02	23.5	0.5
20	PI/2 BPSK	100	0	21.96	22.11	21.96		
20	QPSK	1	1	22.72	22.80	22.70	24.0	0.0
20	QPSK	1	53	22.59	22.72	22.59		
20	QPSK	1	104	22.61	22.67	22.63	23.0	1.0
20	QPSK	50	0	21.67	21.71	21.56		
20	QPSK	50	28	22.64	22.72	22.62	24.0	0.0
20	QPSK	50	56	21.50	21.62	21.54	23.0	1.0
20	QPSK	100	0	21.57	21.68	21.59		
20	16QAM	1	1	21.71	21.80	21.81	23.0	1.0
20	64QAM	1	1	20.29	20.39	20.27	21.5	2.5
20	256QAM	1	1	18.38	18.43	18.33	19.5	4.5
Channel				166300	167300	168300	Tune-up limit	MPR
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)
15	QPSK	1	1	22.62	22.64	22.61	24.0	0.0
Channel				165300	167300	168300	Tune-up limit	MPR
Frequency (MHz)				829	836.5	844	(dBm)	(dB)
10	QPSK	1	1	22.57	22.62	22.52	24.0	0.0
Channel				165300	167300	168300	Tune-up limit	MPR
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)
5	QPSK	1	1	22.62	22.74	22.58	24.0	0.0

n12 Ant 0								
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				141300	141500	141700	24.0	0.0
Frequency				706.5	707.5	708.5		
15	PI2 BPSK	1	1	22.36	22.40	22.12	24.0	0.0
15	PI2 BPSK	1	40	22.03	22.22	22.20		
15	PI2 BPSK	1	77	22.28	22.37	22.09	23.5	0.5
15	PI2 BPSK	36	0	21.60	21.65	21.55		
15	PI2 BPSK	36	22	22.15	22.33	22.12	24.0	0.0
15	PI2 BPSK	36	43	21.58	21.79	21.61	23.5	0.5
15	PI2 BPSK	75	0	21.63	21.65	21.61		
15	QPSK	1	1	22.26	22.41	22.32	24.0	0.0
15	QPSK	1	40	22.05	22.35	22.20		
15	QPSK	1	77	22.32	22.24	22.20	23.0	1.0
15	QPSK	36	0	21.24	21.28	21.09		
15	QPSK	36	22	22.32	22.33	22.16	24.0	0.0
15	QPSK	36	43	21.22	21.27	21.17	23.0	1.0
15	QPSK	75	0	21.05	21.27	21.15		
15	16QAM	1	1	21.34	21.57	21.33	23.0	1.0
15	64QAM	1	1	19.75	20.02	19.77	21.5	2.5
15	256QAM	1	1	17.92	18.05	17.83	19.5	4.5
Channel				140800	141500	142000	Tune-up limit	MPR
Frequency (MHz)				704	707.5	711	(dBm)	(dB)
10	QPSK	1	1	22.08	22.14	22.15	24.0	0.0
Channel				140300	141500	142000	Tune-up limit	MPR
Frequency (MHz)				701.5	707.5	713.5	(dBm)	(dB)
5	QPSK	1	1	22.07	22.28	22.12	24.0	0.0

n25 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPE (dB)
Channel				372000	376000	381000	Tune-up limit (dBm)	MPE (dB)
Frequency (MHz)				1860	1862.5	1865		
20	Plz BPSK	1	1	22.66	22.61	22.68	24.0	0.0
20	Plz BPSK	1	53	22.83	22.60	22.79		
20	Plz BPSK	1	104	22.66	22.63	22.64	23.5	0.5
20	Plz BPSK	50	0	22.26	22.13	22.33		
20	Plz BPSK	50	28	22.85	22.62	22.63	24.0	0.0
20	Plz BPSK	50	56	22.30	22.31	22.30		
20	Plz BPSK	100	0	22.22	22.31	22.32	23.5	0.5
20	QPSK	1	1	22.63	22.66	22.73		
20	QPSK	1	53	22.63	22.74	22.73	24.0	0.0
20	QPSK	1	104	22.65	22.68	22.62		
20	QPSK	50	0	21.77	21.77	21.73	23.0	1.0
20	QPSK	50	28	22.65	22.73	22.71		
20	QPSK	50	56	21.71	21.86	21.85	23.0	1.0
20	QPSK	100	0	21.65	21.81	21.80		
20	16QAM	1	1	21.76	21.83	21.81	23.0	1.0
20	64QAM	1	1	20.20	20.13	20.24		
20	256QAM	1	1	18.21	18.14	18.12	19.5	4.5
Channel				371800	376000	381600		
Frequency (MHz)				1867.5	1862.5	1867.5	Tune-up limit (dBm)	MPE
15	QPSK	1	1	22.58	22.71	22.58	24.0	0.0
Channel				371000	376000	380000	Tune-up limit (dBm)	MPE
Frequency (MHz)				1865	1862.5	1810	Tune-up limit (dBm)	MPE
10	QPSK	1	1	22.66	22.62	22.67	24.0	0.0
Channel				371800	376000	380000	Tune-up limit (dBm)	MPE
Frequency (MHz)				1862.5	1862.5	1812.5	Tune-up limit (dBm)	MPE
5	QPSK	1	1	22.76	22.71	22.52	24.0	0.0

n66 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPE (dB)
Channel				346000	349000	354000	Tune-up limit (dBm)	MPE (dB)
Frequency (MHz)				1720	1745	1770		
20	Plz BPSK	1	1	22.16	22.27	22.15	24.0	0.0
20	Plz BPSK	1	53	22.21	22.21	22.17		
20	Plz BPSK	1	104	22.04	22.21	22.13	23.5	0.5
20	Plz BPSK	50	0	21.55	21.65	21.64		
20	Plz BPSK	50	28	22.06	22.23	22.08	24.0	0.0
20	Plz BPSK	50	56	21.56	21.66	21.51		
20	Plz BPSK	100	0	21.56	21.53	21.60	23.5	0.5
20	QPSK	1	1	22.25	22.38	22.22		
20	QPSK	1	53	22.18	22.32	22.21	24.0	0.0
20	QPSK	1	104	22.16	22.24	22.22		
20	QPSK	50	0	21.12	21.24	21.21	23.0	1.0
20	QPSK	50	28	22.25	22.35	22.18		
20	QPSK	50	56	21.05	21.16	21.03	23.0	1.0
20	QPSK	100	0	21.17	21.20	21.14		
20	16QAM	1	1	21.23	21.39	21.18	23.0	1.0
20	64QAM	1	1	19.62	19.86	19.72		
20	256QAM	1	1	17.64	17.81	17.73	19.5	4.5
Channel				346000	349000	354000	Tune-up limit (dBm)	MPE
Frequency (MHz)				1717.5	1745	1772.5	Tune-up limit (dBm)	MPE
15	QPSK	1	1	22.20	22.31	22.12	24.0	0.0
Channel				343000	349000	350000	Tune-up limit (dBm)	MPE
Frequency (MHz)				1715	1745	1775	Tune-up limit (dBm)	MPE
10	QPSK	1	1	22.19	22.22	22.14	24.0	0.0
Channel				343000	349000	350000	Tune-up limit (dBm)	MPE
Frequency (MHz)				1712.5	1745	1777.5	Tune-up limit (dBm)	MPE
5	QPSK	1	1	22.08	22.21	22.13	24.0	0.0



n5 Ant 1									
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				166800	167300	167800	23.0	0.0	
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	22.11	22.22	22.14			
20	PI2 BPSK	1	53	22.07	22.15	22.09	22.5	0.5	
20	PI2 BPSK	1	104	22.09	22.12	22.08			
20	PI2 BPSK	50	0	21.53	21.55	21.52			
20	PI2 BPSK	50	28	22.01	22.17	22.07	23.0	0.0	
20	PI2 BPSK	50	58	21.51	21.53	21.54	22.5	0.5	
20	PI2 BPSK	100	0	21.58	21.53	21.51	23.0	0.0	
20	QPSK	1	1	22.18	22.28	22.18			
20	QPSK	1	53	22.12	22.24	22.17			
20	QPSK	1	104	22.10	22.18	22.10	22.0	1.0	
20	QPSK	50	0	21.11	21.19	21.09			
20	QPSK	50	28	22.05	22.19	22.07			
20	QPSK	50	58	21.01	21.04	21.02	22.0	1.0	
20	QPSK	100	0	21.02	21.10	21.07	22.0	1.0	
20	16QAM	1	1	21.18	21.12	21.26			
20	64QAM	1	1	19.70	19.51	19.64	20.5	2.5	
20	256QAM	1	1	17.74	17.73	17.64	18.5	4.5	
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5	23.0	0.0	
15	QPSK	1	1	22.07	22.14	22.10			
Channel				165800	167300	166800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				820	836.5	844	23.0	0.0	
10	QPSK	1	1	22.01	22.10	22.07			
Channel				165300	167300	166300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5	23.0	0.0	
5	QPSK	1	1	22.15	22.22	22.15			

n7 Ant 1									
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				502000	507000	512000	23.0	0.0	
Frequency (MHz)				2610	2635	2660			
20	PI2 BPSK	1	1	22.12	22.26	22.17			
20	PI2 BPSK	1	53	22.13	22.24	22.17	22.5	0.5	
20	PI2 BPSK	1	104	22.11	22.15	22.06			
20	PI2 BPSK	50	0	21.51	21.56	21.53			
20	PI2 BPSK	50	28	22.12	22.24	22.10	23.0	0.0	
20	PI2 BPSK	50	58	21.54	21.53	21.56	22.5	0.5	
20	PI2 BPSK	100	0	21.51	21.52	21.61	23.0	0.0	
20	QPSK	1	1	22.30	22.36	22.22			
20	QPSK	1	53	22.18	22.31	22.27			
20	QPSK	1	104	22.15	22.24	22.15	22.0	1.0	
20	QPSK	50	0	21.05	21.19	21.18			
20	QPSK	50	28	22.15	22.25	22.18			
20	QPSK	50	58	21.01	21.08	21.05	22.0	1.0	
20	QPSK	100	0	21.02	21.13	21.05	22.0	1.0	
20	16QAM	1	1	21.15	21.22	21.12			
20	64QAM	1	1	19.60	19.76	19.74	20.5	2.5	
20	256QAM	1	1	17.59	17.68	17.53	18.5	4.5	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2635	2662.5	23.0	0.0	
15	QPSK	1	1	22.11	22.29	22.13			
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2635	2655	23.0	0.0	
10	QPSK	1	1	22.15	22.25	22.12			
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2635	2667.5	23.0	0.0	
5	QPSK	1	1	22.11	22.18	22.08			

n12 Ant 1									
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				141300	141500	141700	23.0	0.0	
Frequency (MHz)				706.5	707.5	708.5			
15	PI2 BPSK	1	1	21.90	22.07	21.73			
15	PI2 BPSK	1	40	21.67	21.97	21.86	22.5	0.5	
15	PI2 BPSK	1	77	21.89	21.87	21.99			
15	PI2 BPSK	36	0	21.12	21.22	21.17			
15	PI2 BPSK	36	22	21.84	21.88	21.78	23.0	0.0	
15	PI2 BPSK	36	43	21.32	21.32	21.08	22.5	0.5	
15	PI2 BPSK	75	0	21.33	21.35	21.24	23.0	0.0	
15	QPSK	1	1	21.81	22.06	22.00			
15	QPSK	1	40	21.85	21.93	21.72			
15	QPSK	1	77	21.83	21.94	21.90	22.0	1.0	
15	QPSK	36	0	20.73	20.75	20.81			
15	QPSK	36	22	21.70	21.96	21.70			
15	QPSK	36	43	20.78	20.92	20.64	22.0	1.0	
15	QPSK	75	0	20.88	20.85	20.72	22.0	1.0	
15	16QAM	1	1	21.03	21.19	21.11			
15	64QAM	1	1	19.48	19.52	19.48	20.5	2.5	
15	256QAM	1	1	17.32	17.58	17.30	18.5	4.5	
Channel				140800	141500	142200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				704	707.5	711	23.0	0.0	
10	QPSK	1	1	21.24	21.39	21.42			
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5	23.0	0.0	
5	QPSK	1	1	21.28	21.38	21.39			



n38 Ant 1									
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				518004	518000	519998			
Frequency (MHz)				2580.02	2595	2599.98			
40	PQ2 BPSK	1	1	21.10	21.45	21.26			
40	PQ2 BPSK	1	53	21.42	21.60	21.29	23.0	0.0	
40	PQ2 BPSK	1	104	21.07	21.51	21.21			
40	PQ2 BPSK	50	0	20.82	21.09	20.82	22.5	0.5	
40	PQ2 BPSK	50	28	21.25	21.30	21.23	23.0	0.0	
40	PQ2 BPSK	50	58	20.55	21.21	20.76			
40	PQ2 BPSK	100	0	20.59	21.07	20.79	22.5	0.5	
40	QPSK	1	1	21.11	21.65	21.34			
40	QPSK	1	53	21.12	21.16	21.10	23.0	0.0	
40	QPSK	1	104	21.19	21.36	21.51			
40	QPSK	50	0	20.28	20.29	20.11	22.0	1.0	
40	QPSK	50	28	21.32	21.39	21.13	23.0	0.0	
40	QPSK	50	58	20.21	20.09	20.10			
40	QPSK	100	0	20.22	20.33	20.17	22.0	1.0	
40	16QAM	1	1	20.29	20.09	20.04	22.0	1.0	
40	64QAM	1	1	18.83	18.83	18.67	20.5	2.5	
40	256QAM	1	1	16.75	16.75	16.64	18.5	4.5	
Channel				517092	518000	520000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	21.05	21.54	21.23	23.0	0.0	
Channel				516000	516000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	21.08	21.54	21.21	23.0	0.0	

n41 Ant 1									
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				509202	518598	520000			
Frequency (MHz)				2548.01	2592.99	2640			
100	PQ2 BPSK	1	1	21.31	21.64	21.45			
100	PQ2 BPSK	1	137	21.17	21.75	21.53	23.0	0.0	
100	PQ2 BPSK	1	271	21.29	21.76	21.38			
100	PQ2 BPSK	135	0	20.88	21.27	21.07	22.5	0.5	
100	PQ2 BPSK	135	69	21.18	21.54	21.43	23.0	0.0	
100	PQ2 BPSK	135	138	20.78	21.39	20.98	22.5	0.5	
100	PQ2 BPSK	270	0	20.76	21.24	21.05			
100	QPSK	1	1	21.33	21.80	21.52			
100	QPSK	1	137	21.27	21.41	21.17	23.0	0.0	
100	QPSK	1	271	21.44	21.53	21.65			
100	QPSK	135	0	20.47	20.52	20.34	22.0	1.0	
100	QPSK	135	69	21.46	21.54	21.39	23.0	0.0	
100	QPSK	135	138	20.42	20.31	20.14	22.0	1.0	
100	QPSK	270	0	20.47	20.51	20.35			
100	16QAM	1	1	20.47	20.29	20.24	22.0	1.0	
100	64QAM	1	1	19.02	19.07	18.88	20.5	2.5	
100	256QAM	1	1	16.91	16.92	16.84	18.5	4.5	
Channel				508200	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.24	21.51	21.33	23.0	0.0	
Channel				507204	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2643.99			
80	QPSK	1	1	21.04	21.67	21.41	23.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	21.23	21.64	21.27	23.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.99			
60	QPSK	1	1	21.20	21.51	21.34	23.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2654.99			
50	QPSK	1	1	21.08	21.46	21.35	23.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	21.05	21.66	21.38	23.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	21.19	21.67	21.23	23.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.19	21.64	21.24	23.0	0.0	

n41 HPUE Ant 1									
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				509202	518598	520000			
Frequency (MHz)				2548.01	2592.99	2640			
100	PQ2 BPSK	1	1	23.45	23.50	23.49			
100	PQ2 BPSK	1	137	23.41	23.64	23.56	25.0	0.0	
100	PQ2 BPSK	1	271	23.45	23.69	23.47			
100	PQ2 BPSK	135	0	23.05	23.10	23.16	24.5	0.5	
100	PQ2 BPSK	135	69	23.32	23.61	23.59	25.0	0.0	
100	PQ2 BPSK	135	138	23.01	23.09	23.13	24.5	0.5	
100	PQ2 BPSK	270	0	23.00	23.28	23.14			
100	QPSK	1	1	23.34	23.75	23.66			
100	QPSK	1	137	23.44	23.70	23.67	25.0	0.0	
100	QPSK	1	271	23.68	23.34	23.66			
100	QPSK	135	0	22.48	22.62	22.72	24.0	1.0	
100	QPSK	135	69	23.33	23.60	23.57	25.0	0.0	
100	QPSK	135	138	22.86	22.64	22.76	24.0	1.0	
100	QPSK	270	0	22.19	22.55	22.49			
100	16QAM	1	1	22.63	22.58	22.75	24.0	1.0	
100	64QAM	1	1	21.04	21.17	21.15	22.5	2.5	
100	256QAM	1	1	18.15	19.17	19.28	20.5	4.5	
Channel				508200	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	23.35	23.41	23.41	25.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2643.99			
80	QPSK	1	1	23.33	23.52	23.44	25.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	23.34	23.58	23.41	25.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.99			
60	QPSK	1	1	23.33	23.42	23.35	25.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2654.99			
50	QPSK	1	1	23.31	23.52	23.42	25.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	23.32	23.55	23.37	25.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	23.35	23.60	23.38	25.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	23.33	23.50	23.45	25.0	0.0	



n2 Ant 5									
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				372000	376000	380000	24.0	0.0	
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	22.68	22.60	22.62	24.0	0.0	
20	PI2 BPSK	1	53	22.53	22.68	22.60			
20	PI2 BPSK	1	104	22.36	22.42	22.52			
20	PI2 BPSK	50	0	22.16	22.02	22.09	23.5	0.5	
20	PI2 BPSK	50	28	22.50	22.56	22.36	24.0	0.0	
20	PI2 BPSK	50	56	22.00	22.05	21.97	23.5	0.5	
20	PI2 BPSK	100	0	21.86	21.99	21.97	24.0	0.0	
20	QPSK	1	1	22.57	22.76	22.46			
20	QPSK	1	53	22.46	22.58	22.56			
20	QPSK	1	104	22.41	22.71	22.43	23.0	1.0	
20	QPSK	50	0	21.48	21.65	21.66			
20	QPSK	50	28	22.50	22.65	22.46			
20	QPSK	50	56	21.31	21.49	21.41	23.0	1.0	
20	QPSK	100	0	21.66	21.67	21.53	23.0	1.0	
20	16QAM	1	1	21.48	21.69	21.40			
20	64QAM	1	1	20.11	20.19	20.13			
20	256QAM	1	1	18.34	18.24	18.27	19.5	4.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1867.5	1880	1902.5	24.0	0.0	
15	QPSK	1	1	22.63	22.69	22.58			
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1905	1900	1905	24.0	0.0	
10	QPSK	1	1	22.48	22.56	22.39			
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1907.5	24.0	0.0	
5	QPSK	1	1	22.40	22.48	22.49			

n7 Ant 5									
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				502000	507000	512000	24.0	0.0	
Frequency (MHz)				2610	2635	2660			
20	PI2 BPSK	1	1	22.32	22.49	22.48	24.0	0.0	
20	PI2 BPSK	1	53	22.29	22.41	22.30			
20	PI2 BPSK	1	104	22.24	22.39	22.34			
20	PI2 BPSK	50	0	21.69	21.71	21.59	23.5	0.5	
20	PI2 BPSK	50	28	22.30	22.40	22.28	24.0	0.0	
20	PI2 BPSK	50	56	21.56	21.63	21.61	23.5	0.5	
20	PI2 BPSK	100	0	21.54	21.63	21.62	24.0	0.0	
20	QPSK	1	1	22.36	22.58	22.55			
20	QPSK	1	53	22.35	22.49	22.38			
20	QPSK	1	104	22.35	22.49	22.36	23.0	1.0	
20	QPSK	50	0	21.28	21.37	21.32			
20	QPSK	50	28	22.32	22.47	22.36			
20	QPSK	50	56	21.12	21.25	21.24	23.0	1.0	
20	QPSK	100	0	21.12	21.31	21.29	23.0	1.0	
20	16QAM	1	1	21.39	21.46	21.29			
20	64QAM	1	1	19.87	20.00	19.85		2.5	
20	256QAM	1	1	17.71	17.83	17.79	19.5	4.5	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				2507.5	2635	2662.5	24.0	0.0	
15	QPSK	1	1	22.14	22.31	22.25			
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				2505	2635	2665	24.0	0.0	
10	QPSK	1	1	22.07	22.21	22.12			
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (db)	
Frequency (MHz)				2502.5	2635	2667.5	24.0	0.0	
5	QPSK	1	1	22.04	22.20	22.17			

n66 Ant 5									
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				343000	349000	354000	24.0	0.0	
Frequency (MHz)				1720	1745	1770			
20	PI2 BPSK	1	1	22.12	22.36	22.19	24.0	0.0	
20	PI2 BPSK	1	53	22.21	22.23	22.19			
20	PI2 BPSK	1	104	22.04	22.11	22.02			
20	PI2 BPSK	50	0	21.53	21.78	21.58	23.5	0.5	
20	PI2 BPSK	50	28	22.13	22.30	22.15	24.0	0.0	
20	PI2 BPSK	50	56	22.16	21.60	21.63	23.5	0.5	
20	PI2 BPSK	100	0	21.53	21.58	21.51	24.0	0.0	
20	QPSK	1	1	22.34	22.37	22.36			
20	QPSK	1	53	22.12	22.28	22.19			
20	QPSK	1	104	22.17	22.21	22.17	23.0	1.0	
20	QPSK	50	0	21.13	21.23	21.06			
20	QPSK	50	28	22.28	22.33	22.21			
20	QPSK	50	56	21.02	21.01	21.03	23.0	1.0	
20	QPSK	100	0	21.03	21.16	21.15	23.0	1.0	
20	16QAM	1	1	21.21	21.28	21.18			
20	64QAM	1	1	19.83	19.74	19.75		2.5	
20	256QAM	1	1	17.64	17.91	17.89	19.5	4.5	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	24.0	0.0	
15	QPSK	1	1	22.17	22.33	22.12			
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	24.0	0.0	
10	QPSK	1	1	22.21	22.28	22.13			
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	24.0	0.0	
5	QPSK	1	1	22.22	22.31	22.12			



n38 Ant 5								
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				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PV2 BPSK	1	1	21.84	22.02	21.89		
40	PV2 BPSK	1	53	21.85	21.96	21.94	23.0	0.0
40	PV2 BPSK	1	104	21.86	21.89	21.80		
40	PV2 BPSK	50	0	21.30	21.43	21.27	22.5	0.5
40	PV2 BPSK	50	26	21.89	21.96	21.90	23.0	0.0
40	PV2 BPSK	50	56	21.21	21.34	21.26		
40	PV2 BPSK	100	0	21.21	21.38	21.30	22.5	0.5
40	QPSK	1	1	21.92	22.09	22.00		
40	QPSK	1	53	21.96	21.96	21.96	23.0	0.0
40	QPSK	1	104	21.85	21.95	21.83		
40	QPSK	50	0	20.79	20.95	20.83	22.0	1.0
40	QPSK	50	26	21.93	22.01	21.92	23.0	0.0
40	QPSK	50	56	20.70	20.85	20.72		
40	QPSK	100	0	20.82	20.98	20.75	22.0	1.0
40	16QAM	1	1	20.89	21.05	21.01	22.0	1.0
40	64QAM	1	1	19.59	19.66	19.61	20.5	2.5
40	256QAM	1	1	17.37	17.51	17.45	18.5	4.5
Channel				519202	519200	519596	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2595.01	2595	2604.99		
30	QPSK	1	1	21.86	21.89	21.84	23.0	0.0
Channel				519000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2595	2595	2619		
20	QPSK	1	1	21.80	21.85	21.77	23.0	0.0

n41 Ant 5								
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				506002	518598	526000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PV2 BPSK	1	1	22.01	22.10	22.11		
100	PV2 BPSK	1	137	22.03	22.07	22.05	23.0	0.0
100	PV2 BPSK	1	271	21.95	21.95	22.00		
100	PV2 BPSK	135	0	21.66	21.65	21.71	22.5	0.5
100	PV2 BPSK	135	69	22.07	22.09	22.06	23.0	0.0
100	PV2 BPSK	135	138	21.73	21.76	21.76		
100	PV2 BPSK	270	0	21.60	21.57	21.55	22.5	0.5
100	QPSK	1	1	22.08	22.13	22.10		
100	QPSK	1	137	22.11	22.06	22.06	23.0	0.0
100	QPSK	1	271	22.07	22.02	22.08		
100	QPSK	135	0	21.01	21.03	21.00	22.0	1.0
100	QPSK	135	69	21.63	21.67	21.64	23.0	0.0
100	QPSK	135	138	21.16	21.16	21.18		
100	QPSK	270	0	21.25	21.25	21.24	22.0	1.0
100	16QAM	1	1	21.13	21.13	21.12	22.0	1.0
100	64QAM	1	1	19.53	19.52	19.53	20.5	2.5
100	256QAM	1	1	17.66	17.67	17.71	18.5	4.5
Channel				502000	518598	525996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	21.93	21.90	21.95	23.0	0.0
Channel				507204	518598	525996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2638.02	2592.99	2649.99		
80	QPSK	1	1	21.88	21.85	21.90	23.0	0.0
Channel				506002	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2625		
70	QPSK	1	1	21.74	21.69	21.77	23.0	0.0
Channel				505000	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2609.98		
60	QPSK	1	1	21.93	21.90	21.94	23.0	0.0
Channel				505204	518598	532000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2604.99		
50	QPSK	1	1	21.87	21.86	21.90	23.0	0.0
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2416.01	2592.99	2619		
40	QPSK	1	1	21.80	21.78	21.82	23.0	0.0
Channel				502000	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2311	2592.99	2674.98		
30	QPSK	1	1	21.87	21.84	21.89	23.0	0.0
Channel				501204	518598	535996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2306.02	2592.99	2679.99		
20	QPSK	1	1	21.93	21.94	21.91	23.0	0.0

n41 HPUE Ant 5								
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				506002	518598	526000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PV2 BPSK	1	1	22.01	24.02	24.02		
100	PV2 BPSK	1	137	23.76	23.81	23.80	25.0	0.0
100	PV2 BPSK	1	271	23.96	24.01	23.99		
100	PV2 BPSK	135	0	23.51	23.54	23.52	24.5	0.5
100	PV2 BPSK	135	69	23.99	23.98	23.98	25.0	0.0
100	PV2 BPSK	135	138	23.48	23.49	23.48		
100	PV2 BPSK	270	0	23.42	23.48	23.46	24.5	0.5
100	QPSK	1	1	23.97	24.03	24.02		
100	QPSK	1	137	23.76	23.69	23.75	25.0	0.0
100	QPSK	1	271	23.74	23.77	23.73		
100	QPSK	135	0	23.07	23.06	23.09	24.0	1.0
100	QPSK	135	69	23.75	23.77	23.75	25.0	0.0
100	QPSK	135	138	22.77	22.80	22.80		
100	QPSK	270	0	22.85	22.85	22.84	24.0	1.0
100	16QAM	1	1	23.07	23.07	23.07	24.0	1.0
100	64QAM	1	1	21.54	21.52	21.48	22.5	2.5
100	256QAM	1	1	19.60	19.53	19.57	20.5	4.5
Channel				502000	518598	525996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	23.78	23.77	23.84	25.0	0.0
Channel				507204	518598	525996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2638.02	2592.99	2649.99		
80	QPSK	1	1	23.89	23.91	23.85	25.0	0.0
Channel				506002	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2625		
70	QPSK	1	1	23.93	23.85	23.84	25.0	0.0
Channel				505000	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2609.98		
60	QPSK	1	1	23.87	23.92	23.87	25.0	0.0
Channel				505204	518598	532000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2604.99		
50	QPSK	1	1	23.84	23.94	23.90	25.0	0.0
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2416.01	2592.99	2619		
40	QPSK	1	1	23.87	23.84	23.86	25.0	0.0
Channel				502000	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2311	2592.99	2674.98		
30	QPSK	1	1	23.84	23.84	23.81	25.0	0.0
Channel				501204	518598	535996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2306.02	2592.99	2679.99		
20	QPSK	1	1	23.93	23.89	23.84	25.0	0.0



n48 Part96 Ant 5								
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				636000	641666	646332		
Frequency (MHz)				3520	3624.99	3679.98		
40	Pl2 BPSK	1	1	22.08	22.53	22.12		
40	Pl2 BPSK	1	53	22.02	22.10	22.12	23.0	0.0
40	Pl2 BPSK	1	104	22.18	22.17	22.16		
40	Pl2 BPSK	50	0	21.36	21.62	21.43	22.5	0.5
40	Pl2 BPSK	50	28	21.84	22.03	22.04	23.0	0.0
40	Pl2 BPSK	50	56	21.43	21.50	21.34	22.5	0.5
40	Pl2 BPSK	100	0	21.47	21.54	21.51		
40	QPSK	1	1	22.18	22.32	22.09		
40	QPSK	1	53	22.01	22.19	22.00	23.0	0.0
40	QPSK	1	104	22.00	22.11	22.02		
40	QPSK	50	0	20.89	21.06	21.00	22.0	1.0
40	QPSK	50	28	22.09	22.14	22.02	23.0	0.0
40	QPSK	50	56	20.81	20.84	20.80	22.0	1.0
40	QPSK	100	0	20.96	21.03	20.92		
40	16QAM	1	1	21.24	21.28	21.21	22.0	1.0
40	64QAM	1	1	19.79	19.82	19.66	20.5	2.5
40	256QAM	1	1	17.56	17.71	17.64	18.5	4.5
Channel				637234	643666	649100		
Frequency (MHz)				3560.01	3624.99	3690		
20	QPSK	1	1	21.77	22.04	21.99	23.0	0.0

Part270 n77 Ant 5								
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				650000	656000	662000		
Frequency (MHz)				3760	3840	3920		
100	Pl2 BPSK	1	1	21.65	21.43	21.52		
100	Pl2 BPSK	1	137	21.25	21.38	21.37	23.0	0.0
100	Pl2 BPSK	1	271	21.22	21.23	21.20		
100	Pl2 BPSK	135	0	21.20	21.35	21.31	22.5	0.5
100	Pl2 BPSK	135	69	21.32	21.34	21.30	23.0	0.0
100	Pl2 BPSK	135	138	21.27	21.32	21.26	22.5	0.5
100	Pl2 BPSK	270	0	21.21	21.24	21.14		
100	QPSK	1	1	21.44	21.49	21.35		
100	QPSK	1	137	21.31	21.42	21.27	23.0	0.0
100	QPSK	1	271	21.31	21.39	21.32		
100	QPSK	135	0	21.19	21.31	21.21	22.0	1.0
100	QPSK	135	69	21.35	21.41	21.39	23.0	0.0
100	QPSK	135	138	20.91	20.51	20.26	22.0	1.0
100	QPSK	270	0	20.43	20.57	20.50		
100	16QAM	1	1	21.31	21.40	21.26	22.0	1.0
100	64QAM	1	1	19.68	19.89	19.74	20.5	2.5
100	256QAM	1	1	17.80	17.84	17.78	18.5	4.5
Channel				645334	650000	655666		
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	21.24	21.27	21.26	23.0	0.0
Channel				648666	650000	652334		
Frequency (MHz)				3720.02	3840	3940.01		
60	QPSK	1	1	21.35	21.40	21.33	23.0	0.0
Channel				648000	650000	654000		
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	21.29	21.37	21.28	23.0	0.0
Channel				647668	650000	654334		
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	21.31	21.32	21.20	23.0	0.0
Channel				641334	650000	658000		
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	21.28	21.31	21.25	23.0	0.0

Part270 n77 HPUE Ant 5								
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				650000	656000	662000		
Frequency (MHz)				3760	3840	3920		
100	Pl2 BPSK	1	1	24.02	24.07	24.06		
100	Pl2 BPSK	1	137	24.01	24.02	24.01	26.0	0.0
100	Pl2 BPSK	1	271	24.02	24.03	24.03		
100	Pl2 BPSK	135	0	23.97	24.02	23.98	25.5	0.5
100	Pl2 BPSK	135	69	24.10	24.05	24.01	26.0	0.0
100	Pl2 BPSK	135	138	23.86	23.93	23.83	25.5	0.5
100	Pl2 BPSK	270	0	23.96	24.05	23.80		
100	QPSK	1	1	24.08	24.30	24.02		
100	QPSK	1	137	24.07	24.07	24.02	26.0	0.0
100	QPSK	1	271	24.03	24.02	24.01		
100	QPSK	135	0	23.87	24.02	23.92	25.0	1.0
100	QPSK	135	69	24.01	24.09	24.02	26.0	0.0
100	QPSK	135	138	24.01	24.02	23.95	25.0	1.0
100	QPSK	270	0	23.88	24.00	23.89		
100	16QAM	1	1	23.23	23.26	23.25	25.0	1.0
100	64QAM	1	1	21.53	21.54	21.51	23.5	2.5
100	256QAM	1	1	20.18	20.28	20.25	21.5	4.5
Channel				645334	650000	655666		
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	24.06	24.08	23.99	26.0	0.0
Channel				648666	650000	653334		
Frequency (MHz)				3720.02	3840	3940.01		
60	QPSK	1	1	23.96	24.04	23.91	26.0	0.0
Channel				648000	650000	654000		
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	23.91	24.04	23.84	26.0	0.0
Channel				647668	650000	654334		
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	23.98	24.07	23.98	26.0	0.0
Channel				641334	650000	658000		
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	23.98	24.10	23.99	26.0	0.0

Part27Q n77 Ant 5

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								
Frequency (MHz)								
100	PQ2 BPSK	1	1	21.52	3000.01		23.0	0.0
100	PQ2 BPSK	1	137	21.49				
100	PQ2 BPSK	1	271	21.40				
100	PQ2 BPSK	135	0	21.24				
100	PQ2 BPSK	135	69	21.30			22.5	0.5
100	PQ2 BPSK	135	138	21.21				
100	PQ2 BPSK	270	0	21.16				
100	QPSK	1	1	21.60				
100	QPSK	1	137	21.54			23.0	0.0
100	QPSK	1	271	21.47				
100	QPSK	135	0	21.17				
100	QPSK	135	69	21.36				
100	QPSK	135	138	21.15			22.0	1.0
100	QPSK	270	0	21.25				
100	16QAM	1	1	21.46				
100	64QAM	1	1	19.91				
100	256QAM	1	1	17.62			18.5	4.5
Channel				632060	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3600.01	3510	(dBm)	(dB)
80	QPSK	1	1	21.38	21.46	21.45	23.0	0.0
Channel				632060	633334	634068	Tune-up limit	MPR
Frequency (MHz)				3460	3600.01	3620.02	(dBm)	(dB)
60	QPSK	1	1	21.35	21.35	21.34	23.0	0.0
Channel				631334	633334	636334	Tune-up limit	MPR
Frequency (MHz)				3410.01	3600.01	3630.01	(dBm)	(dB)
40	QPSK	1	1	21.36	21.31	21.32	23.0	0.0
Channel				631000	633334	636668	Tune-up limit	MPR
Frequency (MHz)				3465	3600.01	3635.02	(dBm)	(dB)
30	QPSK	1	1	21.37	21.36	21.35	23.0	0.0
Channel				630568	633334	636300	Tune-up limit	MPR
Frequency (MHz)				3460.02	3600.01	3540	(dBm)	(dB)
20	QPSK	1	1	21.35	21.36	21.38	23.0	0.0

Part27Q n77 HPUE Ant 5

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								
Frequency (MHz)								
100	PQ2 BPSK	1	1	24.23	3000.01		26.0	0.0
100	PQ2 BPSK	1	137	24.28				
100	PQ2 BPSK	1	271	24.36				
100	PQ2 BPSK	135	0	24.27				
100	PQ2 BPSK	135	69	24.32			25.5	0.5
100	PQ2 BPSK	135	138	24.37				
100	PQ2 BPSK	270	0	24.33				
100	QPSK	1	1	24.63				
100	QPSK	1	137	24.26			26.0	0.0
100	QPSK	1	271	24.22				
100	QPSK	135	0	23.18				
100	QPSK	135	69	24.24				
100	QPSK	135	138	23.24			25.0	1.0
100	QPSK	270	0	23.85				
100	16QAM	1	1	23.24				
100	64QAM	1	1	21.70				
100	256QAM	1	1	19.84			21.5	4.5
Channel				632060	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3600.01	3510	(dBm)	(dB)
80	QPSK	1	1	24.27	24.26	24.23	26.0	0.0
Channel				632060	633334	634068	Tune-up limit	MPR
Frequency (MHz)				3460	3600.01	3620.02	(dBm)	(dB)
60	QPSK	1	1	24.21	24.26	24.26	26.0	0.0
Channel				631334	633334	636334	Tune-up limit	MPR
Frequency (MHz)				3410.01	3600.01	3630.01	(dBm)	(dB)
40	QPSK	1	1	24.20	24.25	24.27	26.0	0.0
Channel				631000	633334	636668	Tune-up limit	MPR
Frequency (MHz)				3465	3600.01	3635.02	(dBm)	(dB)
30	QPSK	1	1	24.20	24.22	24.25	26.0	0.0
Channel				630568	633334	636300	Tune-up limit	MPR
Frequency (MHz)				3460.02	3600.01	3540	(dBm)	(dB)
20	QPSK	1	1	24.25	24.26	24.21	26.0	0.0

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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								
Frequency (MHz)								
100	PQ2 BPSK	1	1		3750		23.0	0.0
100	PQ2 BPSK	1	137		21.14			
100	PQ2 BPSK	1	271		21.04			
100	PQ2 BPSK	135	0		20.96			
100	PQ2 BPSK	135	69		21.03		22.5	0.5
100	PQ2 BPSK	135	138		20.95			
100	PQ2 BPSK	270	0		20.88			
100	QPSK	1	1		21.20			
100	QPSK	1	137		21.03		23.0	0.0
100	QPSK	1	271		21.06			
100	QPSK	135	0		20.28			
100	QPSK	135	69		21.15			
100	QPSK	135	138		20.05		22.0	1.0
100	QPSK	270	0		20.09			
100	16QAM	1	1		21.04			
100	64QAM	1	1		19.59			
100	256QAM	1	1		17.43		18.5	4.5
Channel				646668	650000	650334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)
80	QPSK	1	1	21.14	21.16	21.01	23.0	0.0
Channel				646334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3745.01	3750	3760.02	(dBm)	(dB)
60	QPSK	1	1	21.09	21.09	21.18	23.0	0.0
Channel				646000	650000	651000	Tune-up limit	MPR
Frequency (MHz)				3745	3750	3765	(dBm)	(dB)
40	QPSK	1	1	21.07	21.11	21.04	23.0	0.0
Channel				646668	650000	651334	Tune-up limit	MPR
Frequency (MHz)				3750.02	3750	3770.01	(dBm)	(dB)
30	QPSK	1	1	21.07	21.10	21.15	23.0	0.0
Channel				646334	650000	651668	Tune-up limit	MPR
Frequency (MHz)				3755.01	3750	3775.02	(dBm)	(dB)
20	QPSK	1	1	21.04	21.12	21.11	23.0	0.0
Channel				646000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3745	3740	3740	(dBm)	(dB)
40	QPSK	1	1	21.02	21.01	21.18	23.0	0.0
Channel				647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3765.01	(dBm)	(dB)
30	QPSK	1	1	21.11	21.17	21.08	23.0	0.0
Channel				647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3760.02	(dBm)	(dB)
20	QPSK	1	1	21.10	21.05	21.03	23.0	0.0



Part270 n78 HPUE Ant 5									
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									
Frequency (MHz)									
100	PQ2 BPSK	1	1		3750				
100	PQ2 BPSK	1	1		24.07				
100	PQ2 BPSK	1	137		24.25		26.0	0.0	
100	PQ2 BPSK	1	271		24.12		25.5	0.5	
100	PQ2 BPSK	135	0		24.20		26.0	0.0	
100	PQ2 BPSK	135	69		24.28		25.5	0.5	
100	PQ2 BPSK	135	138		23.59		25.5	0.5	
100	PQ2 BPSK	270	0		23.68				
100	QPSK	1	1		24.28				
100	QPSK	1	137		24.12		26.0	0.0	
100	QPSK	1	271		24.04				
100	QPSK	135	0		23.98		25.0	1.0	
100	QPSK	135	69		24.05		26.0	0.0	
100	QPSK	135	138		23.87		25.0	1.0	
100	QPSK	270	0		23.94				
100	16QAM	1	1		23.81		25.0	1.0	
100	64QAM	1	1		22.02		23.5	2.5	
100	256QAM	1	1		19.89		21.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	649600	650000	650334	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
				3745.02	3750	3755.01			
90	QPSK	1	1	24.09	24.14	24.07	26.0	0.0	
Channel									
Frequency (MHz)									
				649334	650000	650666	Tune-up limit (dBm)	MPR	
				3749.01	3750	3750.02			
80	QPSK	1	1	24.18	24.12	24.13	26.0	0.0	
Channel									
Frequency (MHz)									
				649000	650000	651000	Tune-up limit (dBm)	MPR	
				3745	3750	3765			
70	QPSK	1	1	24.17	24.13	24.11	26.0	0.0	
Channel									
Frequency (MHz)									
				648668	650000	651334	Tune-up limit (dBm)	MPR	
				3740.02	3750	3770.01			
60	QPSK	1	1	24.17	24.15	24.15	26.0	0.0	
Channel									
Frequency (MHz)									
				648334	650000	651668	Tune-up limit (dBm)	MPR	
				3725.01	3750	3775.02			
50	QPSK	1	1	24.08	24.14	24.10	26.0	0.0	
Channel									
Frequency (MHz)									
				648000	650000	652000	Tune-up limit (dBm)	MPR	
				3720	3750	3780			
40	QPSK	1	1	24.20	24.09	24.09	26.0	0.0	
Channel									
Frequency (MHz)									
				647668	650000	652334	Tune-up limit (dBm)	MPR	
				3715.02	3750	3785.01			
30	QPSK	1	1	24.10	24.09	24.14	26.0	0.0	
Channel									
Frequency (MHz)									
				647334	650000	652668	Tune-up limit (dBm)	MPR	
				3710.01	3750	3790.02			
20	QPSK	1	1	24.19	24.10	24.13	26.0	0.0	

Part27Q n78 Ant 5									
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									
Frequency (MHz)									
100	PQ2 BPSK	1	1		21.42				
100	PQ2 BPSK	1	137		21.35		23.0	0.0	
100	PQ2 BPSK	1	271		21.34				
100	PQ2 BPSK	135	0		21.32		22.5	0.5	
100	PQ2 BPSK	135	69		21.37		23.0	0.0	
100	PQ2 BPSK	135	138		21.25		22.5	0.5	
100	PQ2 BPSK	270	0		21.39				
100	QPSK	1	1		21.46				
100	QPSK	1	137		21.17		23.0	0.0	
100	QPSK	1	271		21.05				
100	QPSK	135	0		20.49		22.0	1.0	
100	QPSK	135	69		21.45		23.0	0.0	
100	QPSK	135	138		20.28		22.0	1.0	
100	QPSK	270	0		20.45				
100	16QAM	1	1		21.11		22.0	1.0	
100	64QAM	1	1		19.57		20.5	2.5	
100	256QAM	1	1		17.62		18.5	4.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		21.40	21.36	21.17	23.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3490.02	3500.01	3510.01			
80	QPSK	1	1		21.32	21.39	21.36	23.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1		21.33	21.23	21.25	23.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1		21.24	21.35	21.21	23.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		21.32	21.25	21.16	23.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		21.41	21.26	21.44	23.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		21.22	21.42	21.50	23.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		21.45	21.32	21.35	23.0	0.0

Part27Q n78 HPUE Ant 5									
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									
Frequency (MHz)									
100	PQ2 BPSK	1	1		21.54				
100	PQ2 BPSK	1	137		21.47		26.0	0.0	
100	PQ2 BPSK	1	271		21.49				
100	PQ2 BPSK	135	0		21.45		25.5	0.5	
100	PQ2 BPSK	135	69		21.48		26.0	0.0	
100	PQ2 BPSK	135	138		23.97		25.5	0.5	
100	PQ2 BPSK	270	0		23.97				
100	QPSK	1	1		21.57				
100	QPSK	1	137		21.53		26.0	0.0	
100	QPSK	1	271		21.41				
100	QPSK	135	0		21.23		25.0	1.0	
100	QPSK	135	69		21.44		26.0	0.0	
100	QPSK	135	138		21.25		25.0	1.0	
100	QPSK	270	0		21.31				
100	16QAM	1	1		23.09		25.0	1.0	
100	64QAM	1	1		21.56		23.5	2.5	
100	256QAM	1	1		19.57		21.5	4.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		21.36	21.46	21.43	26.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		21.37	21.42	21.32	26.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1		21.47	21.59	21.55	26.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1		21.28	21.51	21.42	26.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		21.41	21.41	21.34	26.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		21.40	21.41	21.34	26.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		21.29	21.45	21.29	26.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		21.41	21.48	21.28	26.0	0.0

n7 Ant 6									
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				502000	507000	512000			
Frequency (MHz)				2610	2635	2660			
20	PV2 BPSK	1	1	22.15	22.19	22.12	23.0	0.0	
20	PV2 BPSK	1	53	22.09	22.16	22.08			
20	PV2 BPSK	1	104	22.00	22.11	21.96			
20	PV2 BPSK	50	0	21.43	21.50	21.36	22.5	0.5	
20	PV2 BPSK	50	28	22.03	22.12	21.99	23.0	0.0	
20	PV2 BPSK	50	56	21.36	21.42	21.29	22.5	0.5	
20	PV2 BPSK	100	0	21.36	21.45	21.37			
20	QPSK	1	1	22.20	22.21	22.22	23.0	0.0	
20	QPSK	1	53	22.08	22.23	22.16			
20	QPSK	1	104	22.08	22.18	22.12			
20	QPSK	50	0	21.09	21.16	21.12	22.0	1.0	
20	QPSK	50	28	22.15	22.18	22.12	23.0	0.0	
20	QPSK	50	56	20.90	20.97	20.94	22.0	1.0	
20	QPSK	100	0	20.92	21.06	20.94			
20	16QAM	1	1	21.00	21.14	21.05	22.0	1.0	
20	64QAM	1	1	19.74	19.81	19.68	20.5	2.5	
20	256QAM	1	1	17.58	17.59	17.46	18.5	4.5	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2635	2562.5			
15	QPSK	1	1	22.13	22.19	22.08	23.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2635	2565			
10	QPSK	1	1	22.10	22.21	22.10	23.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2635	2567.5			
5	QPSK	1	1	22.03	22.14	22.06	23.0	0.0	



n38 Ant 6							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				518004	518000	518996	
Frequency (MHz)				2560.02	2565	2569.98	
40	PI2 BPSK	1	1	21.96	22.07	21.99	
40	PI2 BPSK	1	53	21.87	21.98	21.96	23.0
40	PI2 BPSK	1	104	21.82	21.97	21.94	
40	PI2 BPSK	50	0	21.34	21.47	21.31	22.5 0.5
40	PI2 BPSK	50	28	21.92	21.99	21.96	23.0 0.0
40	PI2 BPSK	50	56	21.22	21.35	21.30	22.5 0.5
40	PI2 BPSK	100	0	21.29	21.42	21.27	
40	QPSK	1	1	22.06	22.15	22.04	
40	QPSK	1	53	22.06	22.08	21.99	23.0 0.0
40	QPSK	1	104	21.95	22.01	21.97	
40	QPSK	50	0	20.77	20.88	20.81	22.0 1.0
40	QPSK	50	28	21.96	22.05	22.02	23.0 0.0
40	QPSK	50	56	20.72	20.87	20.77	22.0 1.0
40	QPSK	100	0	20.91	20.98	20.84	
40	16QAM	1	1	20.89	21.05	20.98	22.0 1.0
40	64QAM	1	1	19.87	19.70	19.61	20.5 2.5
40	256QAM	1	1	17.54	17.78	17.69	18.5 4.5
Channel				517002	518000	520000	
Frequency (MHz)				2585.01	2585	2604.99	
30	QPSK	1	1	21.95	22.12	21.89	23.0 0.0
Channel				516000	518000	520000	
Frequency (MHz)				2640	2645	2610	
20	QPSK	1	1	21.98	22.05	21.90	23.0 0.0

n41 Ant 6							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				509002	518998	528000	
Frequency (MHz)				2546.01	2552.98	2640	
100	PI2 BPSK	1	1	22.18	22.20	21.98	
100	PI2 BPSK	1	137	22.15	22.19	21.91	23.0 0.0
100	PI2 BPSK	1	271	22.21	22.24	21.99	
100	PI2 BPSK	135	0	21.74	21.85	21.56	22.5 0.5
100	PI2 BPSK	135	69	22.17	22.14	22.00	23.0 0.0
100	PI2 BPSK	135	138	21.95	21.74	21.56	22.5 0.5
100	PI2 BPSK	270	0	21.88	21.84	21.50	
100	QPSK	1	1	22.28	22.35	22.08	
100	QPSK	1	137	22.32	22.19	21.84	23.0 0.0
100	QPSK	1	271	22.10	21.82	22.03	
100	QPSK	135	0	21.24	21.42	21.07	22.0 1.0
100	QPSK	135	69	22.02	22.25	22.10	23.0 0.0
100	QPSK	135	138	21.39	21.30	21.13	22.0 1.0
100	QPSK	270	0	21.38	21.43	21.07	
100	16QAM	1	1	21.15	21.41	20.93	22.0 1.0
100	64QAM	1	1	19.81	19.97	19.55	20.5 2.5
100	256QAM	1	1	17.57	17.96	17.72	18.5 4.5
Channel				508000	518998	528998	
Frequency (MHz)				2641	2592.99	2644.98	
90	QPSK	1	1	21.97	21.89	21.93	23.0 0.0
Channel				507204	518998	529998	
Frequency (MHz)				2636.02	2592.99	2659.99	
80	QPSK	1	1	21.83	22.07	22.02	23.0 0.0
Channel				506202	518998	531000	
Frequency (MHz)				2631.01	2592.99	2655	
70	QPSK	1	1	21.83	21.88	21.83	23.0 0.0
Channel				505200	518998	531998	
Frequency (MHz)				2626	2592.99	2659.98	
60	QPSK	1	1	22.02	21.99	22.00	23.0 0.0
Channel				504204	518998	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	21.86	22.07	21.99	23.0 0.0
Channel				503202	518998	534000	
Frequency (MHz)				2616.01	2592.99	2670	
40	QPSK	1	1	21.98	22.10	21.83	23.0 0.0
Channel				502200	518998	534998	
Frequency (MHz)				2611	2592.99	2674.98	
30	QPSK	1	1	21.90	22.02	22.04	23.0 0.0
Channel				501204	518998	535998	
Frequency (MHz)				2606.02	2592.99	2679.99	
20	QPSK	1	1	21.99	21.98	21.82	23.0 0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				509202	518998	528000	
Frequency (MHz)				2546.01	2552.98	2640	
100	PI2 BPSK	1	1	24.09	24.08	23.91	
100	PI2 BPSK	1	137	24.27	24.07	24.01	25.0 0.0
100	PI2 BPSK	1	271	23.94	24.19	24.06	
100	PI2 BPSK	135	0	23.56	23.92	23.29	24.5 0.5
100	PI2 BPSK	135	69	24.05	23.94	24.08	25.0 0.0
100	PI2 BPSK	135	138	23.92	23.53	23.76	24.5 0.5
100	PI2 BPSK	270	0	23.92	23.65	23.50	
100	QPSK	1	1	24.14	24.39	24.01	
100	QPSK	1	137	24.05	23.88	23.80	25.0 0.0
100	QPSK	1	271	24.06	23.76	23.98	
100	QPSK	135	0	23.21	23.28	23.01	24.0 1.0
100	QPSK	135	69	23.70	23.93	23.86	25.0 0.0
100	QPSK	135	138	23.10	23.37	22.99	24.0 1.0
100	QPSK	270	0	22.91	23.07	22.85	
100	16QAM	1	1	23.32	23.22	22.98	24.0 1.0
100	64QAM	1	1	21.58	21.53	21.39	22.5 2.5
100	256QAM	1	1	19.70	19.56	19.59	20.5 4.5
Channel				509200	518998	529998	
Frequency (MHz)				2641	2592.99	2644.98	
90	QPSK	1	1	24.23	24.16	24.13	25.0 0.0
Channel				507204	518998	529998	
Frequency (MHz)				2636.02	2592.99	2655	
80	QPSK	1	1	24.20	24.30	24.04	25.0 0.0
Channel				506202	518998	531000	
Frequency (MHz)				2631.01	2592.99	2655	
70	QPSK	1	1	24.23	24.18	24.03	25.0 0.0
Channel				505200	518998	531998	
Frequency (MHz)				2626	2592.99	2659.98	
60	QPSK	1	1	24.14	24.13	24.13	25.0 0.0
Channel				503203	518998	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	24.25	24.18	24.10	25.0 0.0
Channel				503202	518998	534000	
Frequency (MHz)				2616.01	2592.99	2670	
40	QPSK	1	1	24.20	24.34	24.04	25.0 0.0
Channel				502200	518998	534998	
Frequency (MHz)				2611	2592.99	2674.98	
30	QPSK	1	1	24.27	24.16	24.06	25.0 0.0
Channel				501204	518998	535998	
Frequency (MHz)				2606.02	2592.99	2679.99	
20	QPSK	1	1	24.12	24.14	24.16	25.0 0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 656000	Power High Ch. / Freq. 662000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.30	22.44	22.38	23.0	0.0
100	PI2 BPSK	1	137	22.11	22.29	22.32		
100	PI2 BPSK	1	271	22.09	22.28	22.10		
100	PI2 BPSK	135	0	21.78	21.87	21.64	22.5	0.5
100	PI2 BPSK	135	69	22.42	22.43	22.33	23.0	0.0
100	PI2 BPSK	135	138	21.86	21.75	21.84	22.5	0.5
100	PI2 BPSK	270	0	21.83	21.84	21.62	23.0	0.0
100	QPSK	1	1	22.21	22.25	22.15		
100	QPSK	1	137	22.10	22.24	22.17		
100	QPSK	1	271	22.05	22.19	22.11	22.0	1.0
100	QPSK	135	0	20.92	21.06	20.97		
100	QPSK	135	69	22.11	22.23	22.10		
100	QPSK	135	138	20.94	21.04	21.02	22.0	1.0
100	QPSK	270	0	21.75	21.75	21.75	22.0	1.0
100	16QAM	1	1	21.06	21.12	21.03		
100	64QAM	1	1	19.69	19.79	19.67		
100	256QAM	1	1	17.65	17.72	17.60	18.5	4.5
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	22.12	22.21	22.07	23.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	22.15	22.19	22.11	23.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	22.10	22.17	22.09	23.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	22.05	22.23	22.09	23.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	22.07	22.15	22.17	23.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 656000	Power High Ch. / Freq. 662000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	24.51	24.53	24.29	26.0	0.0
100	PI2 BPSK	1	137	24.04	24.08	24.17		
100	PI2 BPSK	1	271	23.92	24.14	23.81		
100	PI2 BPSK	135	0	23.33	23.39	23.24	25.5	0.5
100	PI2 BPSK	135	69	24.10	24.24	23.96	26.0	0.0
100	PI2 BPSK	135	138	23.15	23.04	23.09	25.5	0.5
100	PI2 BPSK	270	0	23.10	23.25	23.23	25.0	1.0
100	QPSK	1	1	23.39	23.57	23.52		
100	QPSK	1	137	23.08	23.23	23.12		
100	QPSK	1	271	23.10	23.34	23.06	24.0	2.0
100	QPSK	135	0	22.27	22.55	22.26		
100	QPSK	135	69	23.18	23.23	23.18		
100	QPSK	135	138	22.19	22.23	21.96	24.0	2.0
100	QPSK	270	0	22.05	22.19	22.24	25.0	1.0
100	16QAM	1	1	23.09	23.32	23.01		
100	64QAM	1	1	21.28	21.48	21.14		
100	256QAM	1	1	19.71	19.61	19.61	21.5	4.5
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	24.27	24.21	24.21	26.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	24.23	24.39	24.19	26.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	24.23	24.19	24.09	26.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	24.10	24.21	24.26	26.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	24.20	24.16	24.17	26.0	0.0

Part27Q n77 Ant 6

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 630000	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq. 636668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1		3000.01		23.0	0.0
100	PI2 BPSK	1	137		2171			
100	PI2 BPSK	1	271		2168			
100	PI2 BPSK	135	0		2084		22.0	1.0
100	PI2 BPSK	135	69		2214		23.0	0.0
100	PI2 BPSK	135	138		2069		22.0	1.0
100	PI2 BPSK	270	0		2071		22.0	1.0
100	QPSK	1	1		2115			
100	QPSK	1	137		2086			
100	QPSK	1	271		2082		20.5	2.5
100	QPSK	135	0		1975			
100	QPSK	135	69		2127			
100	QPSK	135	138		1961		20.5	2.5
100	QPSK	270	0		1975		21.0	2.0
100	16QAM	1	1		2021			
100	64QAM	1	1		1858			
100	256QAM	1	1		1715		18.0	5.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	22.05	22.05	22.20	23.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	22.02	22.02	22.07	23.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	22.05	22.09	22.04	23.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	22.03	22.02	22.09	23.0	0.0

Part27Q n77 HPUE Ant 6

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								
Frequency (MHz)								
100	P12 BPSK	1	1	24.83	3500.01		26.0	0.0
100	P12 BPSK	1	137	24.81				
100	P12 BPSK	1	271	24.83				
100	P12 BPSK	135	0	24.29			25.5	0.5
100	P12 BPSK	135	69	24.83			26.0	0.0
100	P12 BPSK	135	138	24.18			25.5	0.5
100	P12 BPSK	270	0	24.38				
100	QPSK	1	1	24.01			25.0	1.0
100	QPSK	1	137	23.79				
100	QPSK	1	271	23.59				
100	QPSK	135	0	23.22			24.0	2.0
100	QPSK	135	69	23.82			25.0	1.0
100	QPSK	135	138	23.18			24.0	2.0
100	QPSK	270	0	23.47				
100	16QAM	1	1	23.51			24.5	1.5
100	64QAM	1	1	21.96			23.0	3.0
100	256QAM	1	1	20.05			21.0	5.0
Channel								
Frequency (MHz)								
80	P12 BPSK	1	1	24.36	24.41	24.44	26.0	0.0
Channel								
Frequency (MHz)								
60	P12 BPSK	1	1	24.46	24.50	24.37	26.0	0.0
Channel								
Frequency (MHz)								
40	P12 BPSK	1	1	24.52	24.44	24.40	26.0	0.0
Channel								
Frequency (MHz)								
30	P12 BPSK	1	1	24.41	24.37	24.43	26.0	0.0
Channel								
Frequency (MHz)								
20	P12 BPSK	1	1	24.37	24.47	24.50	26.0	0.0

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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								
Frequency (MHz)								
100	P12 BPSK	1	1	21.64	3750		23.0	0.0
100	P12 BPSK	1	137	21.05				
100	P12 BPSK	1	271	20.88				
100	P12 BPSK	135	0	20.37			22.5	0.5
100	P12 BPSK	135	69	21.66			23.0	0.0
100	P12 BPSK	135	138	20.07			22.5	0.5
100	P12 BPSK	270	0	20.29				
100	QPSK	1	1	21.28			22.5	0.5
100	QPSK	1	137	20.79				
100	QPSK	1	271	20.69				
100	QPSK	135	0	20.06			21.5	1.5
100	QPSK	135	69	20.82			22.5	0.5
100	QPSK	135	138	19.63			21.5	1.5
100	QPSK	270	0	20.11				
100	16QAM	1	1	20.77			22.0	1.0
100	64QAM	1	1	18.41			20.5	2.5
100	256QAM	1	1	18.23			18.5	4.5
Channel								
Frequency (MHz)								
90	P12 BPSK	1	1	21.62	21.59	21.54	23.0	0.0
Channel								
Frequency (MHz)								
80	P12 BPSK	1	1	21.07	21.10	21.11	23.0	0.0
Channel								
Frequency (MHz)								
70	P12 BPSK	1	1	21.03	21.09	21.08	23.0	0.0
Channel								
Frequency (MHz)								
60	P12 BPSK	1	1	20.45	20.43	20.47	23.0	0.0
Channel								
Frequency (MHz)								
50	P12 BPSK	1	1	21.07	21.10	21.11	23.0	0.0
Channel								
Frequency (MHz)								
40	P12 BPSK	1	1	20.12	20.12	20.11	23.0	0.0
Channel								
Frequency (MHz)								
30	P12 BPSK	1	1	20.37	20.29	20.28	23.0	0.0
Channel								
Frequency (MHz)								
20	P12 BPSK	1	1	20.90	20.88	20.89	23.0	0.0

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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								
Frequency (MHz)								
100	P12 BPSK	1	1	24.29	3750		26.0	0.0
100	P12 BPSK	1	137	23.92				
100	P12 BPSK	1	271	23.69				
100	P12 BPSK	135	0	23.56			25.5	0.5
100	P12 BPSK	135	69	23.73			26.0	0.0
100	P12 BPSK	135	138	23.30			25.5	0.5
100	P12 BPSK	270	0	23.04				
100	QPSK	1	1	23.56			25.5	0.5
100	QPSK	1	137	23.02				
100	QPSK	1	271	22.71				
100	QPSK	135	0	22.80			24.0	2.0
100	QPSK	135	69	22.72			25.5	0.5
100	QPSK	135	138	22.36			24.0	2.0
100	QPSK	270	0	22.32				
100	16QAM	1	1	22.89			24.5	1.5
100	64QAM	1	1	21.89			23.5	2.5
100	256QAM	1	1	19.63			21.5	4.5
Channel								
Frequency (MHz)								
90	P12 BPSK	1	1	24.16	24.11	24.02	26.0	0.0
Channel								
Frequency (MHz)								
80	P12 BPSK	1	1	24.02	24.11	23.93	26.0	0.0
Channel								
Frequency (MHz)								
70	P12 BPSK	1	1	24.01	24.01	24.19	26.0	0.0
Channel								
Frequency (MHz)								
60	P12 BPSK	1	1	24.02	24.09	23.89	26.0	0.0
Channel								
Frequency (MHz)								
50	P12 BPSK	1	1	24.11	24.11	23.94	26.0	0.0
Channel								
Frequency (MHz)								
40	P12 BPSK	1	1	24.16	24.34	23.90	26.0	0.0
Channel								
Frequency (MHz)								
30	P12 BPSK	1	1	23.89	24.10	23.97	26.0	0.0
Channel								
Frequency (MHz)								
20	P12 BPSK	1	1	24.06	24.02	24.01	26.0	0.0

Part27Q n78 Ant 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Midre Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3500.01					
Frequency (MHz)				22.03					
100	Pl2 BPSK	1	1		22.03		23.0	0.0	
100	Pl2 BPSK	1	137		22.01				
100	Pl2 BPSK	1	271		21.75				
100	Pl2 BPSK	135	0		21.00		22.5	0.5	
100	Pl2 BPSK	135	69		21.65		23.0	0.9	
100	Pl2 BPSK	135	138		20.81		22.5	0.5	
100	Pl2 BPSK	270	0		20.95				
100	QPSK	1	1		21.84				
100	QPSK	1	137		21.79		22.5	0.5	
100	QPSK	1	271		21.48				
100	QPSK	135	0		20.70		21.5	1.5	
100	QPSK	135	69		21.61		22.5	0.5	
100	QPSK	135	138		20.57		21.5	1.5	
100	QPSK	270	0		20.76		22.0	1.0	
100	16QAM	1	1		21.05				
100	64QAM	1	1		19.56		20.5	2.5	
100	256QAM	1	1		18.01		19.0	4.0	
Channel				633000	633334	633668			
Frequency (MHz)				3495	3500.01	3505.02			
90	Pl2 BPSK	1	1		22.02	21.91	21.88	23.0	0.0
Channel				630968	633334	634000			
Frequency (MHz)				3499.02	3500.01	3501.01			
80	Pl2 BPSK	1	1		21.86	21.97	21.89	23.0	0.0
Channel				632334	633334	634334			
Frequency (MHz)				3485.01	3500.01	3515.01			
70	Pl2 BPSK	1	1		21.67	21.69	21.52	23.0	0.0
Channel				632000	633334	634968			
Frequency (MHz)				3480	3500.01	3520.02			
60	Pl2 BPSK	1	1		21.88	21.87	21.97	23.0	0.0
Channel				631063	633334	635000			
Frequency (MHz)				3475.02	3500.01	3525			
50	Pl2 BPSK	1	1		21.98	21.94	21.94	23.0	0.0
Channel				631334	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01			
40	Pl2 BPSK	1	1		21.90	22.00	21.92	23.0	0.0
Channel				631000	633334	636968			
Frequency (MHz)				3465	3500.01	3535.02			
30	Pl2 BPSK	1	1		21.96	21.98	21.88	23.0	0.0
Channel				630968	633334	635000			
Frequency (MHz)				3460.02	3500.01	3540			
20	Pl2 BPSK	1	1		22.01	21.90	21.88	23.0	0.0

Part27Q n78 HPUE Ant 6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Midre Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3500.01					
Frequency (MHz)				24.79					
100	Pl2 BPSK	1	1		24.79		26.0	0.0	
100	Pl2 BPSK	1	137		24.67				
100	Pl2 BPSK	1	271		24.56				
100	Pl2 BPSK	135	0		24.23		25.5	0.5	
100	Pl2 BPSK	135	69		24.69		26.0	0.9	
100	Pl2 BPSK	135	138		24.05		25.5	0.5	
100	Pl2 BPSK	270	0		24.15				
100	QPSK	1	1		23.93				
100	QPSK	1	137		23.98		25.0	1.0	
100	QPSK	1	271		23.45				
100	QPSK	135	0		23.30		24.0	2.0	
100	QPSK	135	69		23.69		25.0	1.0	
100	QPSK	135	138		23.19		24.0	2.0	
100	QPSK	270	0		23.23		24.0	2.0	
100	16QAM	1	1		22.78				
100	64QAM	1	1		21.71		23.0	3.0	
100	256QAM	1	1		19.79		21.0	5.0	
Channel				633000	633334	633668			
Frequency (MHz)				3495	3500.01	3505.02			
90	Pl2 BPSK	1	1		24.01	24.52	24.62	26.0	0.0
Channel				630968	633334	634000			
Frequency (MHz)				3499.02	3500.01	3501.01			
80	Pl2 BPSK	1	1		24.07	24.62	24.71	26.0	0.0
Channel				632334	633334	634334			
Frequency (MHz)				3485.01	3500.01	3515.01			
70	Pl2 BPSK	1	1		24.07	24.50	24.57	26.0	0.0
Channel				632000	633334	634968			
Frequency (MHz)				3480	3500.01	3520.02			
60	Pl2 BPSK	1	1		24.04	24.50	24.63	26.0	0.0
Channel				631063	633334	635000			
Frequency (MHz)				3475.02	3500.01	3525			
50	Pl2 BPSK	1	1		24.03	24.54	24.60	26.0	0.0
Channel				631334	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01			
40	Pl2 BPSK	1	1		24.01	24.54	24.69	26.0	0.0
Channel				631000	633334	636968			
Frequency (MHz)				3465	3500.01	3535.02			
30	Pl2 BPSK	1	1		24.71	24.49	24.61	26.0	0.0
Channel				630968	633334	635000			
Frequency (MHz)				3460.02	3500.01	3540			
20	Pl2 BPSK	1	1		24.04	24.59	24.52	26.0	0.0

n7 Ant 7								
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				50200	50700	51200		
Frequency (MHz)				2510	2535	2560		
20	PV2 BPSK	1	1	21.21	21.35	21.27	23.0	0.0
20	PV2 BPSK	1	53	21.13	21.29	21.15		
20	PV2 BPSK	1	104	21.14	21.25	21.19	22.5	0.5
20	PV2 BPSK	50	0	20.82	20.71	20.81		
20	PV2 BPSK	50	28	21.19	21.25	21.25	23.0	0.0
20	PV2 BPSK	50	56	20.51	20.63	20.56	22.5	0.5
20	PV2 BPSK	100	0	20.52	20.67	20.58		
20	QPSK	1	1	21.33	21.41	21.33	23.0	0.0
20	QPSK	1	53	21.23	21.33	21.27		
20	QPSK	1	104	21.25	21.30	21.19	22.0	1.0
20	QPSK	50	0	20.13	20.22	20.15		
20	QPSK	50	28	21.22	21.34	21.29	23.0	0.0
20	QPSK	50	56	20.02	20.03	20.01	22.0	1.0
20	QPSK	100	0	20.03	20.05	20.04		
20	16QAM	1	1	20.22	20.32	20.21	22.0	1.0
20	64QAM	1	1	18.82	18.88	18.82	20.5	2.5
20	256QAM	1	1	16.58	16.71	16.54	18.5	4.5
Channel				50150	50700	51250	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	21.25	21.32	21.28	23.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	21.19	21.27	21.26	23.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	21.20	21.33	21.25	23.0	0.0



n38 Ant 7									
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				516004	516000	516996			
Frequency (MHz)				2580.02	2595	2599.98			
40	PV2 BPSK	1	1	19.91	20.01	19.82			
40	PV2 BPSK	1	53	19.90	19.97	19.91	21.0	0.0	
40	PV2 BPSK	1	104	19.92	20.06	19.90			
40	PV2 BPSK	50	0	19.48	19.45	19.45	20.5	0.5	
40	PV2 BPSK	50	28	19.87	19.98	19.94	21.0	0.0	
40	PV2 BPSK	50	58	19.81	19.59	19.44	20.5	0.5	
40	PV2 BPSK	100	0	19.60	19.59	19.46			
40	QPSK	1	1	20.03	20.11	20.00	21.0	0.0	
40	QPSK	1	53	19.88	19.92	19.88			
40	QPSK	1	104	19.91	19.99	19.91			
40	QPSK	50	0	18.99	18.99	18.98	20.0	1.0	
40	QPSK	50	28	20.00	20.02	19.99	21.0	0.0	
40	QPSK	50	58	18.93	18.92	18.95	20.0	1.0	
40	QPSK	100	0	18.97	18.95	18.97			
40	16QAM	1	1	18.95	18.97	18.92	20.0	1.0	
40	64QAM	1	1	17.52	17.54	17.45	18.5	2.5	
40	256QAM	1	1	15.58	15.57	15.51	16.5	4.5	
Channel				517002	516000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	19.95	19.97	19.97	21.0	0.0	
Channel				516000	516000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2590	2595	2610			
20	QPSK	1	1	19.95	20.00	19.88	21.0	0.0	

n41 Ant 7									
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				506202	518598	520998			
Frequency (MHz)				2548.01	2592.99	2640			
100	PV2 BPSK	1	1	20.02	20.09	19.93			
100	PV2 BPSK	1	137	19.97	20.02	20.03	21.0	0.0	
100	PV2 BPSK	1	271	20.04	20.11	20.03			
100	PV2 BPSK	135	0	19.58	19.82	19.58	20.5	0.5	
100	PV2 BPSK	135	69	20.00	20.06	20.05	21.0	0.0	
100	PV2 BPSK	135	138	19.65	19.84	19.58	20.5	0.5	
100	PV2 BPSK	270	0	19.68	19.82	19.54			
100	QPSK	1	1	20.10	20.15	20.08	21.0	0.0	
100	QPSK	1	137	20.00	20.04	19.94			
100	QPSK	1	271	19.99	20.10	20.05			
100	QPSK	135	0	19.06	19.07	19.06	20.0	1.0	
100	QPSK	135	69	20.08	20.10	20.05	21.0	0.0	
100	QPSK	135	138	19.05	19.10	19.02	20.0	1.0	
100	QPSK	270	0	19.08	19.13	19.06			
100	16QAM	1	1	19.08	19.09	19.04	20.0	1.0	
100	64QAM	1	1	17.61	17.60	17.58	18.5	2.5	
100	256QAM	1	1	15.64	15.69	15.58	16.5	4.5	
Channel				506202	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.99	20.02	19.94	21.0	0.0	
Channel				507204	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2643.99			
80	QPSK	1	1	19.95	20.03	19.95	21.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	19.95	19.99	20.00	21.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	19.95	20.05	19.95	21.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.97	20.02	19.92	21.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	20.00	20.00	19.94	21.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	19.99	20.08	19.80	21.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	20.02	20.01	19.94	21.0	0.0	

n41 HPUE Ant 7									
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				506202	518598	530000			
Frequency (MHz)				2548.01	2592.99	2640			
100	PV2 BPSK	1	1	21.83	21.90	21.80			
100	PV2 BPSK	1	137	21.82	21.86	21.78	23.0	0.0	
100	PV2 BPSK	1	271	21.82	21.83	21.87			
100	PV2 BPSK	135	0	21.47	21.47	21.50	22.5	0.5	
100	PV2 BPSK	135	69	21.87	21.85	21.89	23.0	0.5	
100	PV2 BPSK	135	138	21.41	21.47	21.45	22.5	0.5	
100	PV2 BPSK	270	0	21.38	21.51	21.41			
100	QPSK	1	1	21.92	21.96	21.96	23.0	0.0	
100	QPSK	1	137	21.84	21.86	21.79			
100	QPSK	1	271	21.81	21.90	21.82			
100	QPSK	135	0	20.90	20.99	20.98	22.0	1.0	
100	QPSK	135	69	21.81	21.88	21.85	23.0	0.0	
100	QPSK	135	138	20.91	20.90	20.93	22.0	1.0	
100	QPSK	270	0	20.95	20.97	20.96			
100	16QAM	1	1	20.86	20.96	20.91	22.0	1.0	
100	64QAM	1	1	18.64	18.58	19.50	20.5	2.5	
100	256QAM	1	1	17.44	17.46	17.43	18.5	4.5	
Channel				506202	518598	532996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.85	21.91	21.88	23.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2649.99			
80	QPSK	1	1	21.77	21.89	21.85	23.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	21.82	21.87	21.81	23.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	21.84	21.86	21.84	23.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	21.89	21.86	21.87	23.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	21.81	21.87	21.81	23.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	21.77	21.83	21.81	23.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.80	21.87	21.87	23.0	0.0	



n48 Part96 Ant 8									
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				636000	641666	646332			
Frequency (MHz)				320	3624.99	3676.98			
40	Pl2 BPSK	1	1	22.02	22.09	22.09			
40	Pl2 BPSK	1	53	21.80	21.89	21.93	23.5	0.0	
40	Pl2 BPSK	1	104	21.77	21.95	21.94			
40	Pl2 BPSK	50	0	21.77	21.87	21.87	23.5	0.0	
40	Pl2 BPSK	50	28	21.72	21.90	21.89	23.5	0.0	
40	Pl2 BPSK	50	56	21.82	21.92	21.87	23.5	0.0	
40	Pl2 BPSK	100	0	21.73	21.92	21.90			
40	QPSK	1	1	21.80	21.76	21.87			
40	QPSK	1	53	21.87	21.92	21.94	23.5	0.0	
40	QPSK	1	104	21.17	21.16	20.98			
40	QPSK	50	0	21.36	21.66	21.53	22.5	1.0	
40	QPSK	50	28	20.47	20.60	20.60	23.5	0.0	
40	QPSK	50	56	20.94	20.80	20.77	22.5	1.0	
40	QPSK	100	0	20.90	21.00	20.47	22.5	1.0	
40	16QAM	1	1	20.15	20.32	20.32	22.5	1.0	
40	64QAM	1	1	18.64	18.91	18.86	21.0	2.5	
40	256QAM	1	1	17.34	17.32	17.30	19.5	4.0	
Channel				637014	641668	646334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3560.01	3624.99	3690			
20	Pl2 BPSK	1	1	21.80	21.82	21.79	23.5	0.0	

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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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	Pl2 BPSK	1	1	20.21	20.23	20.07			
100	Pl2 BPSK	1	137	19.80	19.81	19.49	21.5	0.0	
100	Pl2 BPSK	1	271	19.92	19.84	19.74			
100	Pl2 BPSK	135	0	18.77	19.04	18.82	21.0	0.5	
100	Pl2 BPSK	135	69	19.74	19.93	19.96	21.5	0.0	
100	Pl2 BPSK	135	138	18.79	18.98	18.80	21.0	0.5	
100	Pl2 BPSK	270	0	18.64	19.01	18.92			
100	QPSK	1	1	20.02	20.04	19.87			
100	QPSK	1	137	19.83	19.72	19.49	21.5	0.0	
100	QPSK	1	271	19.76	19.71	19.64			
100	QPSK	135	0	18.61	18.88	18.77	20.5	1.0	
100	QPSK	135	69	19.68	19.92	19.84	21.5	0.0	
100	QPSK	135	138	18.56	18.95	18.83	20.5	1.0	
100	QPSK	270	0	18.46	18.96	18.70	20.5	1.0	
100	16QAM	1	1	18.81	18.91	18.86	20.5	1.0	
100	64QAM	1	1	18.20	18.47	18.32	19.0	2.5	
100	256QAM	1	1	16.79	16.92	16.99	17.0	4.5	
Channel				643134	650000	656000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	Pl2 BPSK	1	1	20.18	20.10	19.88	21.5	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3940.01			
60	Pl2 BPSK	1	1	20.19	20.17	20.01	21.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	Pl2 BPSK	1	1	20.21	20.18	20.09	21.5	0.0	
Channel				647168	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	Pl2 BPSK	1	1	20.15	20.14	19.97	21.5	0.0	
Channel				641254	650000	658000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	Pl2 BPSK	1	1	20.11	20.14	19.78	21.5	0.0	

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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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	Pl2 BPSK	1	1	22.65	22.97	22.84			
100	Pl2 BPSK	1	137	22.49	22.68	22.61	24.5	0.0	
100	Pl2 BPSK	1	271	22.59	22.60	22.66			
100	Pl2 BPSK	135	0	22.70	22.66	22.46	24.0	0.5	
100	Pl2 BPSK	135	69	22.59	22.75	22.51	24.5	0.0	
100	Pl2 BPSK	135	138	22.06	22.10	21.93	24.0	0.5	
100	Pl2 BPSK	270	0	21.97	22.28	22.10			
100	QPSK	1	1	21.47	21.80	22.04			
100	QPSK	1	137	21.56	21.87	21.94	23.5	1.0	
100	QPSK	1	271	21.58	21.35	21.53			
100	QPSK	135	0	21.64	21.63	21.58	23.0	1.5	
100	QPSK	135	69	21.55	21.65	21.50	23.5	1.0	
100	QPSK	135	138	20.83	20.91	21.00	23.0	1.5	
100	QPSK	270	0	21.10	21.26	21.03	23.0	1.5	
100	16QAM	1	1	21.00	21.07	21.13	23.0	1.5	
100	64QAM	1	1	19.50	19.88	19.72	21.5	3.0	
100	256QAM	1	1	17.73	17.94	17.85	20.0	4.5	
Channel				643134	650000	656000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	Pl2 BPSK	1	1	22.49	22.77	22.72	24.5	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3940.01			
60	Pl2 BPSK	1	1	22.38	22.66	22.66	24.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	Pl2 BPSK	1	1	22.69	22.83	22.84	24.5	0.0	
Channel				647168	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	Pl2 BPSK	1	1	22.56	22.66	22.59	24.5	0.0	
Channel				641254	650000	658000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	Pl2 BPSK	1	1	22.72	22.60	22.77	24.5	0.0	



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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								
Frequency (MHz)				3500.01				
100	Pl2 BPSK	1	1	21.20				
100	Pl2 BPSK	1	137	21.23			21.5	0.0
100	Pl2 BPSK	1	271	21.25				
100	Pl2 BPSK	135	0	20.34			21.5	0.0
100	Pl2 BPSK	135	69	21.10			21.5	0.0
100	Pl2 BPSK	135	138	20.42			21.5	0.0
100	Pl2 BPSK	270	0	20.23				
100	QPSK	1	1	20.95				
100	QPSK	1	137	20.91			21.5	0.0
100	QPSK	1	271	20.92				
100	QPSK	135	0	20.13			20.5	1.0
100	QPSK	135	69	20.85			21.5	0.0
100	QPSK	135	138	20.18			20.5	1.0
100	QPSK	270	0	20.08				
100	16QAM	1	1	20.67			21.0	0.5
100	64QAM	1	1	19.08			19.5	2.0
100	256QAM	1	1	17.68			18.0	3.5
Channel				632068	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480.02	3500.01	3510		
80	Pl2 BPSK	1	1	20.58	20.70	20.41	21.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3440	3500.01	3500.02		
80	Pl2 BPSK	1	1	20.47	20.63	20.66	21.5	0.0
Channel				631334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3476.01	3500.01	3530.01		
40	Pl2 BPSK	1	1	20.14	20.73	20.78	21.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	Pl2 BPSK	1	1	20.55	20.84	20.76	21.5	0.0
Channel				632000	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	Pl2 BPSK	1	1	20.81	20.73	20.81	21.5	0.0

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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								
Frequency (MHz)				3500.01				
100	Pl2 BPSK	1	1	23.09				
100	Pl2 BPSK	1	137	23.24			24.5	0.0
100	Pl2 BPSK	1	271	23.18				
100	Pl2 BPSK	135	0	22.91			24.0	0.5
100	Pl2 BPSK	135	69	22.95			24.5	0.0
100	Pl2 BPSK	135	138	22.92			24.0	0.5
100	Pl2 BPSK	270	0	22.55				
100	QPSK	1	1	22.34				
100	QPSK	1	137	22.26			23.5	1.0
100	QPSK	1	271	21.98				
100	QPSK	135	0	21.66			23.0	1.5
100	QPSK	135	69	22.29			23.5	1.0
100	QPSK	135	138	21.28			23.0	1.5
100	QPSK	270	0	21.10				
100	16QAM	1	1	22.33			23.0	1.5
100	64QAM	1	1	19.77			21.5	3.0
100	256QAM	1	1	18.02			19.5	5.0
Channel				632068	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480.02	3500.01	3510		
80	Pl2 BPSK	1	1	23.22	23.10	23.03	24.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3440	3500.01	3500.02		
80	Pl2 BPSK	1	1	23.37	23.07	23.21	24.5	0.0
Channel				631334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3476.01	3500.01	3530.01		
40	Pl2 BPSK	1	1	23.00	23.13	23.09	24.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	Pl2 BPSK	1	1	23.35	22.97	23.08	24.5	0.0
Channel				632000	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	Pl2 BPSK	1	1	23.08	23.14	23.31	24.5	0.0

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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								
Frequency (MHz)				3750				
100	Pl2 BPSK	1	1	20.11				
100	Pl2 BPSK	1	137	19.97			21.5	0.0
100	Pl2 BPSK	1	271	20.00				
100	Pl2 BPSK	135	0	19.54			21.0	0.5
100	Pl2 BPSK	135	69	19.84			21.5	0.0
100	Pl2 BPSK	135	138	18.88			21.0	0.5
100	Pl2 BPSK	270	0	19.17				
100	QPSK	1	1	19.20				
100	QPSK	1	137	19.15			20.5	1.0
100	QPSK	1	271	19.10				
100	QPSK	135	0	18.67			19.5	2.0
100	QPSK	135	69	19.16			20.5	1.0
100	QPSK	135	138	18.14			19.5	2.0
100	QPSK	270	0	18.24				
100	16QAM	1	1	18.36			18.5	3.0
100	64QAM	1	1	17.85			18.5	3.0
100	256QAM	1	1	16.14			16.5	5.0
Channel				648068	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
80	Pl2 BPSK	1	1	20.07	20.00	20.01	21.5	0.0
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	Pl2 BPSK	1	1	20.03	20.02	20.03	21.5	0.0
Channel				648000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	Pl2 BPSK	1	1	20.11	20.05	20.02	21.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	Pl2 BPSK	1	1	20.05	20.15	20.15	21.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	Pl2 BPSK	1	1	20.02	20.03	20.01	21.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	Pl2 BPSK	1	1	20.11	20.05	20.07	21.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	Pl2 BPSK	1	1	20.02	20.03	20.05	21.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	Pl2 BPSK	1	1	20.05	20.06	20.06	21.5	0.0



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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								
Frequency (MHz)				3750				
100	Pl2 BPSK	1	1	22.69				
100	Pl2 BPSK	1	137	22.70			24.5	0.0
100	Pl2 BPSK	1	271	22.34				
100	Pl2 BPSK	135	0	22.35			23.5	1.0
100	Pl2 BPSK	135	69	22.76			24.5	0.0
100	Pl2 BPSK	135	138	22.04			23.5	1.0
100	Pl2 BPSK	270	0	22.21				
100	QPSK	1	1	21.74				
100	QPSK	1	137	21.86			23.5	1.0
100	QPSK	1	271	21.22				
100	QPSK	135	0	21.12			22.0	2.5
100	QPSK	135	69	21.50			23.5	1.0
100	QPSK	135	138	20.95			22.0	2.5
100	QPSK	270	0	21.01				
100	16QAM	1	1	20.88			22.5	2.0
100	64QAM	1	1	19.55			21.0	3.5
100	256QAM	1	1	17.96			19.5	5.0
Channel				640968	650334	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	Pl2 BPSK	1	1	22.53	22.47	22.36	24.5	0.0
Channel				648334	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3748.01	3750	3750.02		
80	Pl2 BPSK	1	1	22.37	22.67	22.56	24.5	0.0
Channel				648000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	Pl2 BPSK	1	1	22.15	22.53	22.50	24.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	Pl2 BPSK	1	1	22.60	22.58	22.56	24.5	0.0
Channel				643334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	Pl2 BPSK	1	1	22.43	22.57	22.46	24.5	0.0
Channel				648000	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	Pl2 BPSK	1	1	22.60	22.52	22.32	24.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	Pl2 BPSK	1	1	22.41	22.80	22.52	24.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	Pl2 BPSK	1	1	22.51	22.59	22.47	24.5	0.0

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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								
Frequency (MHz)				3500.01				
100	Pl2 BPSK	1	1	20.62				
100	Pl2 BPSK	1	137	20.71			21.5	0.0
100	Pl2 BPSK	1	271	20.58				
100	Pl2 BPSK	135	0	20.23			21.0	0.5
100	Pl2 BPSK	135	69	20.87			21.5	0.0
100	Pl2 BPSK	135	138	19.75			21.0	0.5
100	Pl2 BPSK	270	0	19.70				
100	QPSK	1	1	19.97				
100	QPSK	1	137	19.67			20.5	1.0
100	QPSK	1	271	19.73				
100	QPSK	135	0	19.15			19.5	2.0
100	QPSK	135	69	19.94			20.5	1.0
100	QPSK	135	138	18.93			19.5	2.0
100	QPSK	270	0	19.66				
100	16QAM	1	1	19.35			20.0	1.5
100	64QAM	1	1	18.59			18.5	3.0
100	256QAM	1	1	17.17			17.0	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	Pl2 BPSK	1	1	21.74	21.02	21.54	21.5	0.0
Channel				630968	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	Pl2 BPSK	1	1	21.74	21.73	21.81	21.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	Pl2 BPSK	1	1	21.73	21.71	21.59	21.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	Pl2 BPSK	1	1	21.80	21.63	21.48	21.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	Pl2 BPSK	1	1	21.33	21.80	21.59	21.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3520.01		
40	Pl2 BPSK	1	1	21.70	21.02	21.66	21.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	Pl2 BPSK	1	1	21.53	21.56	21.49	21.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	Pl2 BPSK	1	1	21.63	21.53	21.59	21.5	0.0

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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								
Frequency (MHz)				3500.01				
100	Pl2 BPSK	1	1	22.21				
100	Pl2 BPSK	1	137	22.94			24.5	0.0
100	Pl2 BPSK	1	271	22.81				
100	Pl2 BPSK	135	0	22.60			24.0	0.5
100	Pl2 BPSK	135	69	23.10			24.5	0.0
100	Pl2 BPSK	135	138	22.44			24.0	0.5
100	Pl2 BPSK	270	0	22.41				
100	QPSK	1	1	21.96				
100	QPSK	1	137	21.96			23.5	1.0
100	QPSK	1	271	21.84				
100	QPSK	135	0	21.20			23.0	1.5
100	QPSK	135	69	21.57			23.5	1.0
100	QPSK	135	138	20.86			23.0	1.5
100	QPSK	270	0	20.98				
100	16QAM	1	1	21.08			21.5	1.5
100	64QAM	1	1	19.80			21.0	3.0
100	256QAM	1	1	17.96			20.0	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	Pl2 BPSK	1	1	22.97	22.95	22.88	24.5	0.0
Channel				630968	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	Pl2 BPSK	1	1	23.06	23.11	23.03	24.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	Pl2 BPSK	1	1	23.10	23.03	22.94	24.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	Pl2 BPSK	1	1	23.02	22.77	22.96	24.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	Pl2 BPSK	1	1	23.02	23.06	22.76	24.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3520.01		
40	Pl2 BPSK	1	1	23.10	22.92	22.76	24.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	Pl2 BPSK	1	1	23.08	23.01	22.81	24.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	Pl2 BPSK	1	1	22.89	22.99	22.75	24.5	0.0



Part270 n77 Ant 9									
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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	Pl2 BPSK	1	1	23.31	23.48	23.42	24.0	0.0	
100	Pl2 BPSK	1	137	23.22	23.14	23.17			
100	Pl2 BPSK	1	271	23.04	23.28	23.11			
100	Pl2 BPSK	135	0	23.08	23.21	23.10	23.5	0.5	
100	Pl2 BPSK	135	69	23.19	23.38	23.22	24.0	0.0	
100	Pl2 BPSK	135	138	22.99	23.12	23.04	23.5	0.5	
100	Pl2 BPSK	270	0	22.81	22.88	22.83	24.0	0.0	
100	QPSK	1	1	22.45	22.67	22.50			
100	QPSK	1	137	22.31	22.28	22.24			
100	QPSK	1	271	22.38	22.47	22.21	23.0	1.0	
100	QPSK	135	0	21.58	21.78	21.74			
100	QPSK	135	69	22.24	22.26	22.11			
100	QPSK	135	138	21.29	21.35	21.26	23.0	1.0	
100	QPSK	270	0	21.26	21.41	21.32	23.0	1.0	
100	16QAM	1	1	21.85	21.66	21.59	23.0	1.0	
100	64QAM	1	1	20.11	20.15	20.03	21.5	2.5	
100	256QAM	1	1	18.58	18.71	18.72	19.5	4.5	
Channel				640000	650000	660000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	Pl2 BPSK	1	1	23.30	23.37	23.32	24.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.02	3840	3940.03			
60	Pl2 BPSK	1	1	23.31	23.42	23.38	24.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	Pl2 BPSK	1	1	23.37	23.37	23.41	24.0	0.0	
Channel				647668	656000	665334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	Pl2 BPSK	1	1	23.24	23.40	23.37	24.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	Pl2 BPSK	1	1	23.33	23.41	23.26	24.0	0.0	

Part270 n77 HPUE Ant 9									
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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	Pl2 BPSK	1	1	25.52	25.62	25.58	26.0	0.0	
100	Pl2 BPSK	1	137	25.21	25.27	25.17			
100	Pl2 BPSK	1	271	24.89	25.00	24.83			
100	Pl2 BPSK	135	0	24.74	24.91	24.76	25.5	0.5	
100	Pl2 BPSK	135	69	25.31	25.43	25.38	26.0	0.0	
100	Pl2 BPSK	135	138	24.53	24.59	24.48	25.5	0.5	
100	Pl2 BPSK	270	0	24.49	24.51	24.47	25.0	1.0	
100	QPSK	1	1	24.58	24.69	24.52			
100	QPSK	1	137	24.17	24.22	24.13			
100	QPSK	1	271	24.10	24.27	24.06	24.0	2.0	
100	QPSK	135	0	23.56	23.57	23.38			
100	QPSK	135	69	24.05	24.13	24.08			
100	QPSK	135	138	23.08	23.15	23.11	24.0	2.0	
100	QPSK	270	0	23.06	23.21	23.10	24.0	2.0	
100	16QAM	1	1	23.05	23.09	23.02	24.0	2.0	
100	64QAM	1	1	21.51	21.65	21.58	22.5	3.5	
100	256QAM	1	1	19.54	19.71	19.54	21.0	5.0	
Channel				640000	650000	660000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	Pl2 BPSK	1	1	25.40	25.59	25.58	26.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.02	3840	3940.03			
60	Pl2 BPSK	1	1	25.43	25.55	25.57	26.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	Pl2 BPSK	1	1	25.37	25.48	25.39	26.0	0.0	
Channel				647668	656000	665334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	Pl2 BPSK	1	1	25.41	25.45	25.49	26.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	Pl2 BPSK	1	1	25.45	25.53	25.52	26.0	0.0	

Part270Q n77 Ant 9									
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				630000	633334	636668			
Frequency (MHz)				3500.01					
100	Pl2 BPSK	1	1	23.77			24.0	0.0	
100	Pl2 BPSK	1	137	23.37					
100	Pl2 BPSK	1	271	23.37					
100	Pl2 BPSK	135	0	23.39			23.5	0.5	
100	Pl2 BPSK	135	69	23.63			24.0	0.0	
100	Pl2 BPSK	135	138	23.34			23.5	0.5	
100	Pl2 BPSK	270	0	23.18			23.0	1.0	
100	QPSK	1	1	22.85					
100	QPSK	1	137	22.46					
100	QPSK	1	271	22.56			22.0	2.0	
100	QPSK	135	0	22.59					
100	QPSK	135	69	22.59					
100	QPSK	135	138	21.52			22.0	2.0	
100	QPSK	270	0	21.59			22.0	2.0	
100	16QAM	1	1	21.74			20.5	3.5	
100	64QAM	1	1	20.19			19.0	5.0	
100	256QAM	1	1	18.63					
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480.02	3500.01	3510			
80	Pl2 BPSK	1	1	23.02	23.00	23.51	24.0	0.0	
Channel				630000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3490.03	3500.05			
60	Pl2 BPSK	1	1	23.49	23.67	23.65	24.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	Pl2 BPSK	1	1	23.63	23.68	23.62	24.0	0.0	
Channel				631000	633334	635968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	Pl2 BPSK	1	1	23.66	23.72	23.52	24.0	0.0	
Channel				630668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	Pl2 BPSK	1	1	23.74	23.67	23.59	24.0	0.0	



Part27Q n77 HPUE Ant 9									
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				3500.01					
Frequency (MHz)				24.83					
100	PI2 BPSK	1	1		24.82		26.0	0.0	
100	PI2 BPSK	1	137		24.82				
100	PI2 BPSK	1	271		24.58				
100	PI2 BPSK	135	0		24.21		25.5	0.5	
100	PI2 BPSK	135	69		24.80		26.0	0.0	
100	PI2 BPSK	135	138		24.36		25.5	0.5	
100	PI2 BPSK	270	0		24.32				
100	QPSK	1	1		23.97				
100	QPSK	1	137		23.91		25.0	1.0	
100	QPSK	1	271		23.82				
100	QPSK	135	0		23.41		24.0	2.0	
100	QPSK	135	69		23.84		25.0	1.0	
100	QPSK	135	138		23.11		24.0	2.0	
100	QPSK	270	0		23.20				
100	16QAM	1	1		23.07		24.0	2.0	
100	64QAM	1	1		21.07		22.0	4.0	
100	256QAM	1	1		20.02		21.0	5.0	
Channel				632060	633334	634000			
Frequency (MHz)				3460.02	3500.01	3510			
80	PI2 BPSK	1	1		24.79	24.77	24.74	26.0	0.0
Channel				632060	633334	634068			
Frequency (MHz)				3460	3500.01	3530.02			
60	PI2 BPSK	1	1		24.76	24.81	24.76	26.0	0.0
Channel				631334	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01			
40	PI2 BPSK	1	1		24.80	24.80	24.79	26.0	0.0
Channel				631000	633334	635668			
Frequency (MHz)				3465	3500.01	3535.02			
30	PI2 BPSK	1	1		24.82	24.79	24.71	26.0	0.0
Channel				630560	633334	635900			
Frequency (MHz)				3460.02	3500.01	3540			
20	PI2 BPSK	1	1		24.72	24.71	24.81	26.0	0.0

Part27O n78 Ant 9									
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				3750					
Frequency (MHz)				23.20					
100	PI2 BPSK	1	1		23.12		24.0	0.0	
100	PI2 BPSK	1	271		23.08				
100	PI2 BPSK	135	0		22.81		23.5	0.5	
100	PI2 BPSK	135	69		23.17		24.0	0.0	
100	PI2 BPSK	135	138		22.76		23.5	0.5	
100	PI2 BPSK	270	0		22.63				
100	QPSK	1	1		22.15				
100	QPSK	1	137		21.99		23.0	1.0	
100	QPSK	1	271		22.05				
100	QPSK	135	0		21.56		22.0	2.0	
100	QPSK	135	69		22.11		23.0	1.0	
100	QPSK	135	138		21.09		22.0	2.0	
100	QPSK	270	0		21.17				
100	16QAM	1	1		21.30		22.0	2.0	
100	64QAM	1	1		19.79		20.5	3.5	
100	256QAM	1	1		18.22		19.0	5.0	
Channel				649668	650000	650334			
Frequency (MHz)				3745.02	3750	3755.01			
90	PI2 BPSK	1	1		23.09	23.03	22.94	24.0	0.0
Channel				649334	650000	650668			
Frequency (MHz)				3740.01	3750	3760.02			
80	PI2 BPSK	1	1		23.09	23.03	22.96	24.0	0.0
Channel				649000	650000	651000			
Frequency (MHz)				3735	3750	3765			
70	PI2 BPSK	1	1		22.95	23.13	22.91	24.0	0.0
Channel				648668	650000	651334			
Frequency (MHz)				3730.02	3750	3770.01			
60	PI2 BPSK	1	1		23.07	23.01	23.00	24.0	0.0
Channel				648334	650000	651668			
Frequency (MHz)				3725.01	3750	3775.02			
50	PI2 BPSK	1	1		22.97	23.12	22.96	24.0	0.0
Channel				648000	650000	652000			
Frequency (MHz)				3720	3750	3780			
40	PI2 BPSK	1	1		23.11	23.02	22.92	24.0	0.0
Channel				647668	650000	652334			
Frequency (MHz)				3715.02	3750	3785.01			
30	PI2 BPSK	1	1		23.09	23.04	22.95	24.0	0.0
Channel				647334	650000	652668			
Frequency (MHz)				3710.01	3750	3790.02			
20	PI2 BPSK	1	1		22.95	23.15	22.96	24.0	0.0

Part27O n78 HPUE Ant 9									
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				3750					
Frequency (MHz)				23.07					
100	PI2 BPSK	1	1		23.07		26.0	0.0	
100	PI2 BPSK	1	137		24.96				
100	PI2 BPSK	1	271		24.77				
100	PI2 BPSK	135	0		24.35		25.5	0.5	
100	PI2 BPSK	135	69		24.66		26.0	0.0	
100	PI2 BPSK	135	138		24.59		25.5	0.5	
100	PI2 BPSK	270	0		24.40				
100	QPSK	1	1		24.15				
100	QPSK	1	137		24.06		25.0	1.0	
100	QPSK	1	271		24.08				
100	QPSK	135	0		23.60		24.5	1.5	
100	QPSK	135	69		24.06		25.0	1.0	
100	QPSK	135	138		23.21		24.5	1.5	
100	QPSK	270	0		23.31				
100	16QAM	1	1		23.21		24.5	1.5	
100	64QAM	1	1		21.73		23.0	3.0	
100	256QAM	1	1		20.13		21.5	4.5	
Channel				649668	650000	650334			
Frequency (MHz)				3745.02	3750	3755.01			
90	PI2 BPSK	1	1		24.88	24.99	25.00	26.0	0.0
Channel				649334	650000	650668			
Frequency (MHz)				3740.01	3750	3760.02			
80	PI2 BPSK	1	1		24.91	24.95	24.98	26.0	0.0
Channel				649000	650000	651000			
Frequency (MHz)				3735	3750	3765			
70	PI2 BPSK	1	1		25.04	24.98	25.03	26.0	0.0
Channel				648668	650000	651334			
Frequency (MHz)				3730.02	3750	3770.01			
60	PI2 BPSK	1	1		24.85	25.05	24.85	26.0	0.0
Channel				648334	650000	651668			
Frequency (MHz)				3725.01	3750	3775.02			
50	PI2 BPSK	1	1		25.00	25.00	24.91	26.0	0.0
Channel				648000	650000	652000			
Frequency (MHz)				3720	3750	3780			
40	PI2 BPSK	1	1		24.83	24.81	24.98	26.0	0.0
Channel				647668	650000	652334			
Frequency (MHz)				3715.02	3750	3785.01			
30	PI2 BPSK	1	1		24.99	24.99	25.02	26.0	0.0
Channel				647334	650000	652668			
Frequency (MHz)				3710.01	3750	3790.02			
20	PI2 BPSK	1	1		24.97	25.02	24.84	26.0	0.0



Part27Q n78 Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Midline Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3500.01					
Frequency (MHz)				23.53					
100	Pl2 BPSK	1	1		23.53		24.0	0.0	
100	Pl2 BPSK	1	137		23.43				
100	Pl2 BPSK	1	271		23.33				
100	Pl2 BPSK	135	0		23.17		23.5	0.5	
100	Pl2 BPSK	135	69		23.39		24.0	0.0	
100	Pl2 BPSK	135	138		23.00		23.5	0.5	
100	Pl2 BPSK	270	0		22.88				
100	QPSK	1	1		22.42		23.0	1.0	
100	QPSK	1	137		22.25				
100	QPSK	1	271		22.22				
100	QPSK	135	0		21.76		22.0	2.0	
100	QPSK	135	69		22.39		23.0	1.0	
100	QPSK	135	138		21.37		22.0	2.0	
100	QPSK	270	0		21.58		22.0	2.0	
100	16QAM	1	1		21.59		20.5	3.5	
100	64QAM	1	1		20.01		19.0	5.0	
100	256QAM	1	1		18.58				
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02	24.0	0.0	
90	Pl2 BPSK	1	1		23.38	23.37	23.22	24.0	
Channel				630968	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3499.02	3500.01	3501.01	24.0	0.0	
80	Pl2 BPSK	1	1		23.26	23.50	23.31	24.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01	24.0	0.0	
70	Pl2 BPSK	1	1		23.24	23.33	23.39	24.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02	24.0	0.0	
60	Pl2 BPSK	1	1		23.36	23.46	23.24	24.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525	24.0	0.0	
50	Pl2 BPSK	1	1		23.39	23.42	23.25	24.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	24.0	0.0	
40	Pl2 BPSK	1	1		23.23	23.38	23.18	24.0	
Channel				631000	633334	636668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02	24.0	0.0	
30	Pl2 BPSK	1	1		23.33	23.44	23.31	24.0	
Channel				630668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	24.0	0.0	
20	Pl2 BPSK	1	1		23.21	23.35	23.43	24.0	

Part27Q n78 HPUE Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Midline Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3500.01					
Frequency (MHz)				24.69					
100	Pl2 BPSK	1	1		24.69		26.0	0.0	
100	Pl2 BPSK	1	137		24.62				
100	Pl2 BPSK	1	271		24.52				
100	Pl2 BPSK	135	0		24.17		25.5	0.5	
100	Pl2 BPSK	135	69		24.62		26.0	0.0	
100	Pl2 BPSK	135	138		24.26		25.5	0.5	
100	Pl2 BPSK	270	0		24.16				
100	QPSK	1	1		23.92		25.0	1.0	
100	QPSK	1	137		23.87				
100	QPSK	1	271		23.81				
100	QPSK	135	0		23.41		24.5	1.5	
100	QPSK	135	69		23.88		25.0	1.0	
100	QPSK	135	138		22.96		24.5	1.5	
100	QPSK	270	0		23.06		24.5	1.5	
100	16QAM	1	1		22.93		23.0	3.0	
100	64QAM	1	1		21.41		21.5	4.5	
100	256QAM	1	1		19.92				
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02	26.0	0.0	
90	Pl2 BPSK	1	1		24.75	24.70	24.82	26.0	
Channel				630968	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3499.02	3500.01	3501.01	26.0	0.0	
80	Pl2 BPSK	1	1		24.83	24.81	24.57	26.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01	26.0	0.0	
70	Pl2 BPSK	1	1		24.68	24.78	24.69	26.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02	26.0	0.0	
60	Pl2 BPSK	1	1		24.77	24.81	24.60	26.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525	26.0	0.0	
50	Pl2 BPSK	1	1		24.70	24.83	24.66	26.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	26.0	0.0	
40	Pl2 BPSK	1	1		24.94	24.80	24.77	26.0	
Channel				631000	633334	636668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02	26.0	0.0	
30	Pl2 BPSK	1	1		24.68	24.68	24.40	26.0	
Channel				630668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	26.0	0.0	
20	Pl2 BPSK	1	1		24.81	24.78	24.56	26.0	

Reduced Power Mode for DS15

n2 Ant 0								
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				372000	376000	380000	24.0	0.0
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	22.37	22.53	22.43	24.0	0.0
20	PI/2 BPSK	1	53	22.35	22.49	22.44		
20	PI/2 BPSK	1	104	22.32	22.32	22.40	23.5	0.5
20	PI/2 BPSK	50	0	21.90	21.97	21.97		
20	PI/2 BPSK	50	28	22.42	22.49	22.33	24.0	0.0
20	PI/2 BPSK	50	56	21.75	21.91	21.86	23.5	0.5
20	PI/2 BPSK	100	0	21.92	21.94	21.89		
20	QPSK	1	1	22.52	22.56	22.56	24.0	0.0
20	QPSK	1	53	22.49	22.56	22.42		
20	QPSK	1	104	22.38	22.53	22.42	23.0	1.0
20	QPSK	50	0	21.51	21.58	21.55		
20	QPSK	50	28	22.36	22.54	22.40	24.0	0.0
20	QPSK	50	56	21.48	21.54	21.40	23.0	1.0
20	QPSK	100	0	21.55	21.60	21.47		
20	16QAM	1	1	21.50	21.61	21.50	23.0	1.0
20	64QAM	1	1	19.96	20.12	20.07	21.5	2.5
20	256QAM	1	1	18.03	18.17	18.04	19.5	4.5
Channel				371900	376000	380500	Tune-up limit	MPR
Frequency (MHz)				1857.5	1880	1902.5	(dBm)	(dB)
15	QPSK	1	1	22.38	22.55	22.44	24.0	0.0
Channel				371000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1865	1880	1905	(dBm)	(dB)
10	QPSK	1	1	22.33	22.44	22.44	24.0	0.0
Channel				371000	376000	381500	Tune-up limit	MPR
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)
5	QPSK	1	1	22.34	22.40	22.32	24.0	0.0

n5 Ant 0								
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				16600	16700	16780		
Frequency (MHz)				834	836.5	838		
20	PI2 BPSK	1	1	22.59	22.73	22.58	24.0	0.0
20	PI2 BPSK	1	53	22.58	22.68	22.60		
20	PI2 BPSK	1	104	22.56	22.61	22.46		
20	PI2 BPSK	50	0	22.10	22.16	22.12	23.5	0.5
20	PI2 BPSK	50	28	22.55	22.64	22.50	24.0	0.0
20	PI2 BPSK	50	56	21.99	22.04	22.02	23.5	0.5
20	PI2 BPSK	100	0	21.96	22.01	21.96		
20	QPSK	1	1	22.72	22.80	22.70	24.0	0.0
20	QPSK	1	53	22.59	22.72	22.59		
20	QPSK	1	104	22.61	22.67	22.63	23.0	1.0
20	QPSK	50	0	21.67	21.71	21.56		
20	QPSK	50	28	22.64	22.72	22.62		
20	QPSK	50	56	21.50	21.62	21.54	23.0	1.0
20	QPSK	100	0	21.57	21.68	21.59		
20	16QAM	1	1	21.71	21.80	21.81	23.0	1.0
20	64QAM	1	1	20.29	20.39	20.27	21.5	2.5
20	256QAM	1	1	18.38	18.43	18.33	19.5	4.5
Channel				16690	16790	16890	Tune-up limit	MPR
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)
15	QPSK	1	1	22.62	22.64	22.61	24.0	0.0
Channel				16590	16790	16890	Tune-up limit	MPR
Frequency (MHz)				829	836.5	844	(dBm)	(dB)
10	QPSK	1	1	22.57	22.62	22.52	24.0	0.0
Channel				16590	16790	16890	Tune-up limit	MPR
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)
5	QPSK	1	1	22.62	22.74	22.58	24.0	0.0

n12 Ant 0								
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				141300	141500	141700	24.0	0.0
Frequency (MHz)				706.5	707.5	708.5		
15	PI/2 BPSK	1	1	22.36	22.40	22.12	24.0	0.0
15	PI/2 BPSK	1	40	22.03	22.22	22.20		
15	PI/2 BPSK	1	77	22.28	22.37	22.09	23.5	0.5
15	PI/2 BPSK	36	0	21.60	21.65	21.55		
15	PI/2 BPSK	36	22	22.15	22.33	22.12	24.0	0.0
15	PI/2 BPSK	36	43	21.58	21.79	21.61	23.5	0.5
15	PI/2 BPSK	75	0	21.63	21.65	21.61		
15	QPSK	1	1	22.26	22.41	22.32	24.0	0.0
15	QPSK	1	40	22.05	22.35	22.20		
15	QPSK	1	77	22.32	22.24	22.20	23.0	1.0
15	QPSK	36	0	21.24	21.28	21.09		
15	QPSK	36	22	22.32	22.33	22.16	24.0	0.0
15	QPSK	36	43	21.22	21.27	21.17	23.0	1.0
15	QPSK	75	0	21.05	21.27	21.15		
15	16QAM	1	1	21.34	21.57	21.33	23.0	1.0
15	64QAM	1	1	19.75	20.02	19.77	21.5	2.5
15	256QAM	1	1	17.92	18.05	17.83	19.5	4.5
Channel				140800	141500	142000	Tune-up limit	MPR
Frequency (MHz)				704	707.5	711	(dBm)	(dB)
10	QPSK	1	1	22.09	22.14	22.15	24.0	0.0
Channel				140300	141500	142000	Tune-up limit	MPR
Frequency (MHz)				701.5	707.5	713.5	(dBm)	(dB)
5	QPSK	1	1	22.07	22.28	22.12	24.0	0.0

n25 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel				372000	376000	381000		
Frequency (MHz)				1860	1862.5	1865		
20	Plz2 BPSK	1	1	22.66	22.61	22.68	24.0	0.0
20	Plz2 BPSK	1	53	22.83	22.60	22.79		
20	Plz2 BPSK	1	104	22.86	22.63	22.84		
20	Plz2 BPSK	50	0	22.26	22.13	22.33	23.5	0.5
20	Plz2 BPSK	50	28	22.85	22.62	22.63	24.0	0.0
20	Plz2 BPSK	50	56	22.30	22.31	22.30	23.5	0.5
20	Plz2 BPSK	100	0	22.22	22.31	22.32		
20	QPSK	1	1	22.63	22.66	22.73		
20	QPSK	1	53	22.63	22.74	22.73	24.0	0.0
20	QPSK	1	104	22.65	22.68	22.62	23.0	1.0
20	QPSK	50	0	21.77	21.77	21.73		
20	QPSK	50	28	22.65	22.73	22.71		
20	QPSK	50	56	21.71	21.86	21.85	23.0	1.0
20	QPSK	100	0	21.65	21.81	21.80		
20	16QAM	1	1	21.76	21.83	21.81		
20	64QAM	1	1	20.20	20.13	20.24	21.5	2.5
20	256QAM	1	1	18.21	18.14	18.12	19.5	4.5
Channel				371800	376000	381600	Tune-up limit (dBm)	MFR
Frequency (MHz)				1867.5	1862.5	1867.5	(dBm)	(dB)
15	QPSK	1	1	22.58	22.71	22.58	24.0	0.0
Channel				371000	376000	380000	Tune-up limit (dBm)	MFR
Frequency (MHz)				1865	1862.5	1910	(dBm)	(dB)
10	QPSK	1	1	22.66	22.62	22.67	24.0	0.0
Channel				371600	376000	382000	Tune-up limit (dBm)	MFR
Frequency (MHz)				1862.5	1862.5	1912.5	(dBm)	(dB)
5	QPSK	1	1	22.76	22.71	22.52	24.0	0.0

n66 Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)
Channel				346000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	Plz2 BPSK	1	1	22.16	22.27	22.15	24.0	0.0
20	Plz2 BPSK	1	53	22.21	22.21	22.17		
20	Plz2 BPSK	1	104	22.04	22.21	22.13		
20	Plz2 BPSK	50	0	21.55	21.65	21.64	23.5	0.5
20	Plz2 BPSK	50	28	22.06	22.23	22.08	24.0	0.0
20	Plz2 BPSK	50	56	21.56	21.66	21.51	23.5	0.5
20	Plz2 BPSK	100	0	21.56	21.53	21.60		
20	QPSK	1	1	22.25	22.38	22.22		
20	QPSK	1	53	22.18	22.32	22.21	24.0	0.0
20	QPSK	1	104	22.16	22.24	22.22	23.0	1.0
20	QPSK	50	0	21.12	21.24	21.21		
20	QPSK	50	28	22.25	22.35	22.18		
20	QPSK	50	56	21.05	21.16	21.03	23.0	1.0
20	QPSK	100	0	21.17	21.20	21.14		
20	16QAM	1	1	21.23	21.39	21.18		
20	64QAM	1	1	19.62	19.86	19.72	21.5	2.5
20	256QAM	1	1	17.64	17.81	17.73	19.5	4.5
Channel				346000	349000	354000	Tune-up limit (dBm)	MFR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	QPSK	1	1	22.20	22.31	22.12	24.0	0.0
Channel				343000	349000	350000	Tune-up limit (dBm)	MFR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	QPSK	1	1	22.19	22.22	22.14	24.0	0.0
Channel				343000	349000	350500	Tune-up limit (dBm)	MFR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	QPSK	1	1	22.08	22.21	22.13	24.0	0.0



n5 Ant 1										
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				166800	167300	167800	23.0	0.0		
Frequency (MHz)				834	836.5	839				
20	PI2 BPSK	1	1	22.11	22.22	22.14	23.0	0.0		
20	PI2 BPSK	1	53	22.07	22.15	22.09				
20	PI2 BPSK	1	104	22.09	22.12	22.08				
20	PI2 BPSK	50	0	21.53	21.55	21.52	22.5	0.5		
20	PI2 BPSK	50	28	22.01	22.17	22.07	23.0	0.0		
20	PI2 BPSK	50	58	21.51	21.53	21.54	22.5	0.5		
20	PI2 BPSK	100	0	21.58	21.53	21.51	23.0	0.0		
20	QPSK	1	1	22.18	22.28	22.18				
20	QPSK	1	53	22.12	22.24	22.17				
20	QPSK	1	104	22.10	22.18	22.10	22.0	1.0		
20	QPSK	50	0	21.11	21.19	21.09				
20	QPSK	50	28	22.05	22.19	22.07				
20	QPSK	50	58	21.01	21.04	21.02	22.0	1.0		
20	QPSK	100	0	21.02	21.10	21.07	22.0	1.0		
20	16QAM	1	1	21.18	21.12	21.26				
20	64QAM	1	1	19.70	19.51	19.64				
20	256QAM	1	1	17.74	17.73	17.64				
Channel				166300	167300	168300	Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5	23.0		0.0	
15	QPSK	1	1	22.07	22.14	22.10	23.0	0.0		
Channel				165800	167300	168800	Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)				820	836.5	844	23.0		0.0	
10	QPSK	1	1	22.01	22.10	22.07	23.0	0.0		
Channel				165300	167300	169300	Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5	23.0		0.5	
5	QPSK	1	1	22.15	22.22	22.15	23.0	0.0		

n7 Ant 1									
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				502000	507000	512000	23.0	0.0	
Frequency (MHz)				2610	2635	2660			
20	PI2 BPSK	1	1	22.12	22.26	22.17			
20	PI2 BPSK	1	53	22.13	22.24	22.17			
20	PI2 BPSK	1	104	22.11	22.15	22.06	22.5	0.5	
20	PI2 BPSK	50	0	21.51	21.56	21.53			
20	PI2 BPSK	50	28	22.12	22.24	22.10			
20	PI2 BPSK	50	58	21.54	21.53	21.56			
20	PI2 BPSK	100	0	21.51	21.52	21.61	23.0	0.0	
20	QPSK	1	1	22.30	22.36	22.22			
20	QPSK	1	53	22.18	22.31	22.27			
20	QPSK	1	104	22.15	22.24	22.15			
20	QPSK	50	0	21.05	21.19	21.18	22.0	1.0	
20	QPSK	50	28	22.15	22.25	22.18			
20	QPSK	50	58	21.01	21.08	21.05			
20	QPSK	100	0	21.02	21.13	21.05			
20	16QAM	1	1	21.15	21.22	21.12	22.0	1.0	
20	64QAM	1	1	19.60	19.76	19.74			
20	256QAM	1	1	17.59	17.68	17.53			
Channel				501500	507000	512500			
Frequency (MHz)				2507.5	2635	2662.5	MPR (dB)		
15	QPSK	1	1	22.11	22.29	22.13	23.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)		
Frequency (MHz)				2505	2635	2655	MPR (dB)		
10	QPSK	1	1	22.15	22.25	22.12	23.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)		
Frequency (MHz)				2502.5	2635	2667.5	MPR (dB)		
5	QPSK	1	1	22.11	22.18	22.08	23.0	0.0	

n12 Ant 1									
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				141300	141500	141700	23.0	0.0	
Frequency (MHz)				706.5	707.5	708.5			
15	PI2 BPSK	1	1	21.90	22.07	21.73			
15	PI2 BPSK	1	40	21.67	21.97	21.86			
15	PI2 BPSK	1	77	21.89	21.87	21.99	22.5	0.5	
15	PI2 BPSK	36	0	21.12	21.22	21.17			
15	PI2 BPSK	36	22	21.84	21.88	21.78			
15	PI2 BPSK	36	43	21.32	21.32	21.08			
15	PI2 BPSK	75	0	21.33	21.35	21.24	23.0	0.0	
15	QPSK	1	1	21.81	22.06	22.00			
15	QPSK	1	40	21.85	21.93	21.72			
15	QPSK	1	77	21.83	21.94	21.90			
15	QPSK	36	0	20.73	20.75	20.81	22.0	1.0	
15	QPSK	36	22	21.70	21.96	21.70			
15	QPSK	36	43	20.78	20.92	20.64			
15	QPSK	75	0	20.68	20.89	20.72			
15	16QAM	1	1	21.03	21.19	21.11	22.0	1.0	
15	64QAM	1	1	19.48	19.52	19.48			
15	256QAM	1	1	17.32	17.58	17.30			
Channel				140800	141500	142200	Tune-up limit (dBm)		
Frequency (MHz)				704	707.5	711	MPR (dB)		
10	QPSK	1	1	21.24	21.39	21.42	23.0	0.0	
Channel				140300	141500	142700	Tune-up limit (dBm)		
Frequency (MHz)				701.5	707.5	713.5	MPR (dB)		
5	QPSK	1	1	21.28	21.38	21.39	23.0	0.0	



n38 Ant 1									
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				518004	518000	519998			
Frequency (MHz)				2580.02	2595	2599.98			
40	PQ2 BPSK	1	1	21.10	21.45	21.26			
40	PQ2 BPSK	1	53	21.42	21.60	21.29	23.0	0.0	
40	PQ2 BPSK	1	104	21.07	21.51	21.21			
40	PQ2 BPSK	50	0	20.82	21.09	20.82	22.5	0.5	
40	PQ2 BPSK	50	28	21.25	21.30	21.23	23.0	0.0	
40	PQ2 BPSK	50	58	20.55	21.21	20.76			
40	PQ2 BPSK	100	0	20.59	21.07	20.79	22.5	0.5	
40	QPSK	1	1	21.11	21.65	21.34			
40	QPSK	1	53	21.12	21.16	21.10	23.0	0.0	
40	QPSK	1	104	21.19	21.36	21.51			
40	QPSK	50	0	20.28	20.29	20.11	22.0	1.0	
40	QPSK	50	28	21.32	21.39	21.13	23.0	0.0	
40	QPSK	50	58	20.21	20.09	20.10			
40	QPSK	100	0	20.22	20.33	20.17	22.0	1.0	
40	16QAM	1	1	20.29	20.09	20.04	22.0	1.0	
40	64QAM	1	1	18.83	18.83	18.67	20.5	2.5	
40	256QAM	1	1	16.75	16.75	16.64	18.5	4.5	
Channel				517092	518000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	21.05	21.54	21.23	23.0	0.0	
Channel				516000	516000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	21.08	21.54	21.21	23.0	0.0	

n41 Ant 1									
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				509202	518598	520998			
Frequency (MHz)				2548.01	2592.99	2640			
100	PQ2 BPSK	1	1	21.31	21.64	21.45			
100	PQ2 BPSK	1	137	21.17	21.75	21.53	23.0	0.0	
100	PQ2 BPSK	1	271	21.29	21.76	21.38			
100	PQ2 BPSK	135	0	20.88	21.27	21.07	22.5	0.5	
100	PQ2 BPSK	135	69	21.18	21.54	21.43	23.0	0.0	
100	PQ2 BPSK	135	138	20.78	21.39	20.98	22.5	0.5	
100	PQ2 BPSK	270	0	20.76	21.24	21.05			
100	QPSK	1	1	21.33	21.80	21.52			
100	QPSK	1	137	21.27	21.41	21.17	23.0	0.0	
100	QPSK	1	271	21.44	21.53	21.65			
100	QPSK	135	0	20.47	20.52	20.34	22.0	1.0	
100	QPSK	135	69	21.46	21.54	21.39	23.0	0.0	
100	QPSK	135	138	20.42	20.31	20.14	22.0	1.0	
100	QPSK	270	0	20.47	20.51	20.35			
100	16QAM	1	1	20.47	20.29	20.24	22.0	1.0	
100	64QAM	1	1	19.02	19.07	18.88	20.5	2.5	
100	256QAM	1	1	16.91	16.92	16.84	18.5	4.5	
Channel				508200	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.24	21.51	21.33	23.0	0.0	
Channel				507204	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2643.99			
80	QPSK	1	1	21.04	21.67	21.41	23.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	21.23	21.64	21.27	23.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	21.20	21.51	21.34	23.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2654.99			
50	QPSK	1	1	21.08	21.46	21.35	23.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	21.05	21.66	21.38	23.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	21.19	21.67	21.23	23.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.19	21.64	21.24	23.0	0.0	

n41 HPUE Ant 1									
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				509202	518598	520998			
Frequency (MHz)				2548.01	2592.99	2640			
100	PQ2 BPSK	1	1	23.45	23.50	23.49			
100	PQ2 BPSK	1	137	23.41	23.64	23.56	25.0	0.0	
100	PQ2 BPSK	1	271	23.45	23.69	23.47			
100	PQ2 BPSK	135	0	23.05	23.10	23.16	24.5	0.5	
100	PQ2 BPSK	135	69	23.32	23.61	23.59	25.0	0.0	
100	PQ2 BPSK	135	138	23.01	23.09	23.13	24.5	0.5	
100	PQ2 BPSK	270	0	23.00	23.28	23.14			
100	QPSK	1	1	23.34	23.75	23.66			
100	QPSK	1	137	23.44	23.70	23.67	25.0	0.0	
100	QPSK	1	271	23.68	23.34	23.66			
100	QPSK	135	0	22.48	22.62	22.72	24.0	1.0	
100	QPSK	135	69	23.33	23.60	23.57	25.0	0.0	
100	QPSK	135	138	22.86	22.64	22.76	24.0	1.0	
100	QPSK	270	0	22.19	22.55	22.49			
100	16QAM	1	1	22.63	22.58	22.75	24.0	1.0	
100	64QAM	1	1	21.04	21.17	21.15	22.5	2.5	
100	256QAM	1	1	18.15	19.17	19.28	20.5	4.5	
Channel				508200	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	23.35	23.41	23.41	25.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	23.33	23.52	23.44	25.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	23.34	23.58	23.41	25.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	23.33	23.42	23.35	25.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2654.99			
50	QPSK	1	1	23.31	23.52	23.42	25.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	23.32	23.55	23.37	25.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	23.35	23.60	23.38	25.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	23.33	23.50	23.45	25.0	0.0	



n2 Ant 5									
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				372000	376000	380000	24.0	0.0	
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	22.68	22.60	22.62	24.0	0.0	
20	PI2 BPSK	1	53	22.53	22.68	22.60			
20	PI2 BPSK	1	104	22.36	22.42	22.52			
20	PI2 BPSK	50	0	22.16	22.02	22.09	23.5	0.5	
20	PI2 BPSK	50	28	22.50	22.56	22.36	24.0	0.0	
20	PI2 BPSK	50	56	22.00	22.05	21.97	23.5	0.5	
20	PI2 BPSK	100	0	21.86	21.99	21.97	24.0	0.0	
20	QPSK	1	1	22.57	22.76	22.46			
20	QPSK	1	53	22.46	22.58	22.56			
20	QPSK	1	104	22.41	22.71	22.43	23.0	1.0	
20	QPSK	50	0	21.48	21.65	21.66			
20	QPSK	50	28	22.50	22.65	22.46			
20	QPSK	50	56	21.31	21.49	21.41	23.0	1.0	
20	QPSK	100	0	21.66	21.67	21.53	23.0	1.0	
20	16QAM	1	1	21.48	21.69	21.40			
20	64QAM	1	1	20.11	20.19	20.13			
20	256QAM	1	1	18.34	18.24	18.27	19.5	4.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5	24.0 <td colspan="2">0.0</td>	0.0	
15	QPSK	1	1	22.63	22.69	22.58	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1905	1880	1905 <td>24.0</td> <td colspan="2">0.0</td>	24.0	0.0	
10	QPSK	1	1	22.48	22.56	22.39	24.0	0.0	
Channel				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5 <td>24.0</td> <td colspan="2">0.0</td>	24.0	0.0	
5	QPSK	1	1	22.40	22.48	22.49	24.0	0.0	

n7 Ant 5									
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				502000	507000	512000	24.0	0.0	
Frequency (MHz)				2610	2635	2660			
20	PI2 BPSK	1	1	22.32	22.49	22.48	24.0	0.0	
20	PI2 BPSK	1	53	22.29	22.41	22.30			
20	PI2 BPSK	1	104	22.24	22.39	22.34			
20	PI2 BPSK	50	0	21.69	21.71	21.59	23.5	0.5	
20	PI2 BPSK	50	28	22.30	22.40	22.28	24.0	0.0	
20	PI2 BPSK	50	56	21.56	21.63	21.61	23.5	0.5	
20	PI2 BPSK	100	0	21.54	21.63	21.62	24.0	0.0	
20	QPSK	1	1	22.36	22.58	22.55			
20	QPSK	1	53	22.35	22.49	22.38			
20	QPSK	1	104	22.35	22.49	22.36	23.0	1.0	
20	QPSK	50	0	21.28	21.37	21.32			
20	QPSK	50	28	22.32	22.47	22.36			
20	QPSK	50	56	21.12	21.25	21.24	23.0	1.0	
20	QPSK	100	0	21.12	21.31	21.29	23.0	1.0	
20	16QAM	1	1	21.39	21.46	21.29			
20	64QAM	1	1	19.87	20.00	19.85		2.5	
20	256QAM	1	1	17.71	17.83	17.79	19.5	4.5	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2635	2662.5	24.0	0.0	
15	QPSK	1	1	22.14	22.31	22.25	24.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2635	2665	24.0	0.0	
10	QPSK	1	1	22.07	22.21	22.12	24.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2635	2667.5	24.0	0.0	
5	QPSK	1	1	22.04	22.20	22.17	24.0	0.0	

n66 Ant 5									
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				343000	349000	354000	24.0	0.0	
Frequency (MHz)				1720	1745	1770			
20	PI2 BPSK	1	1	22.12	22.36	22.19	24.0	0.0	
20	PI2 BPSK	1	53	22.21	22.23	22.19			
20	PI2 BPSK	1	104	22.04	22.11	22.02			
20	PI2 BPSK	50	0	21.53	21.78	21.58	23.5	0.5	
20	PI2 BPSK	50	28	22.13	22.30	22.15	24.0	0.0	
20	PI2 BPSK	50	56	22.16	21.60	21.63	23.5	0.5	
20	PI2 BPSK	100	0	21.53	21.58	21.51	24.0	0.0	
20	QPSK	1	1	22.34	22.37	22.36			
20	QPSK	1	53	22.12	22.28	22.19			
20	QPSK	1	104	22.17	22.21	22.17	23.0	1.0	
20	QPSK	50	0	21.13	21.23	21.06			
20	QPSK	50	28	22.28	22.33	22.21			
20	QPSK	50	56	21.02	21.01	21.03	23.0	1.0	
20	QPSK	100	0	21.03	21.16	21.15	23.0	1.0	
20	16QAM	1	1	21.21	21.28	21.18			
20	64QAM	1	1	19.83	19.74	19.75			
20	256QAM	1	1	17.64	17.91	17.89	19.5	4.5	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	24.0 <td colspan="2">0.0</td>	0.0	
15	QPSK	1	1	22.17	22.33	22.12	24.0	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	24.0 <td colspan="2">0.0</td>	0.0	
10	QPSK	1	1	22.21	22.28	22.13	24.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	24.0 <td colspan="2">0.0</td>	0.0	
5	QPSK	1	1	22.22	22.31	22.12	24.0	0.0	



n38 Ant 5							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				519002	519004	519006	
Frequency (MHz)				2190.02	2190.04	2190.06	
40	PI2 BPSK	1	1	21.90	22.02	21.89	
40	PI2 BPSK	1	53	21.89	21.96	21.94	23.0
40	PI2 BPSK	1	104	21.86	21.89	21.80	
40	PI2 BPSK	50	0	21.30	21.43	21.27	22.5
40	PI2 BPSK	50	28	21.89	21.96	21.90	23.0
40	PI2 BPSK	50	56	21.21	21.34	21.26	22.5
40	PI2 BPSK	100	0	21.21	21.38	21.30	
40	QPSK	1	1	21.92	22.09	22.00	
40	QPSK	1	53	21.96	21.98	21.98	23.0
40	QPSK	1	104	21.89	21.95	21.83	
40	QPSK	50	0	20.79	20.95	20.83	22.0
40	QPSK	50	28	21.93	22.01	21.92	23.0
40	QPSK	50	56	20.70	20.80	20.72	22.0
40	QPSK	100	0	20.92	20.98	20.78	22.0
40	16QAM	1	1	20.89	21.05	21.01	22.0
40	64QAM	1	1	19.99	19.96	19.61	20.5
40	256QAM	1	1	17.57	17.51	17.46	18.5
Channel				519002	519004	519006	
Frequency (MHz)				2585.01	2585	2604.99	
30	QPSK	1	1	21.86	21.89	21.84	23.0
Channel				519000	519000	520000	
Frequency (MHz)				2580	2585	2610	
20	QPSK	1	1	21.80	21.85	21.77	23.0

n41 Ant 5							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				509202	518998	528000	
Frequency (MHz)				2546.01	2552.99	2640	
100	PI2 BPSK	1	1	22.07	22.10	22.11	
100	PI2 BPSK	1	137	22.03	22.07	22.05	23.0
100	PI2 BPSK	1	271	21.95	21.95	22.00	
100	PI2 BPSK	135	0	21.66	21.65	21.71	22.5
100	PI2 BPSK	135	69	22.07	22.09	22.06	23.0
100	PI2 BPSK	135	138	21.73	21.76	21.76	22.5
100	PI2 BPSK	270	0	21.80	21.57	21.55	
100	QPSK	1	1	22.08	22.13	22.10	
100	QPSK	1	107	22.11	22.08	22.08	23.0
100	QPSK	1	271	22.07	22.02	22.06	
100	QPSK	135	0	21.01	21.03	21.00	22.0
100	QPSK	135	69	21.63	21.67	21.64	23.0
100	QPSK	135	138	21.19	21.16	21.18	22.0
100	QPSK	270	0	21.25	21.20	21.24	
100	16QAM	1	1	21.13	21.13	21.12	22.0
100	64QAM	1	1	19.53	19.52	19.53	20.5
100	256QAM	1	1	17.68	17.67	17.71	18.5
Channel				509200	518998	528000	
Frequency (MHz)				2641	2592.99	2644.98	
90	QPSK	1	1	21.93	21.90	21.95	23.0
Channel				507204	518998	529998	
Frequency (MHz)				2631.01	2592.99	2650	
80	QPSK	1	1	21.88	21.85	21.90	23.0
Channel				506202	518998	531000	
Frequency (MHz)				2621.01	2592.99	2650	
70	QPSK	1	1	21.19	21.80	21.77	23.0
Channel				505200	518998	531998	
Frequency (MHz)				2626	2592.99	2659.98	
60	QPSK	1	1	21.93	21.90	21.94	23.0
Channel				502200	518998	536998	
Frequency (MHz)				2592.02	2592.99	2664.99	
50	QPSK	1	1	21.87	21.86	21.90	23.0
Channel				500202	518998	534000	
Frequency (MHz)				2616.01	2604.99	2670	
40	QPSK	1	1	21.80	21.78	21.82	23.0
Channel				502200	518998	534998	
Frequency (MHz)				2511	2592.99	2674.98	
30	QPSK	1	1	21.87	21.89	21.89	23.0
Channel				501204	518998	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	21.93	21.94	21.91	23.0

n41 HPUE Ant 5							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				506202	518998	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI2 BPSK	1	1	22.10	24.02	24.02	
100	PI2 BPSK	1	137	23.76	23.81	23.80	25.0
100	PI2 BPSK	1	271	23.96	24.01	23.99	
100	PI2 BPSK	135	0	23.51	23.54	23.52	24.5
100	PI2 BPSK	135	69	23.89	23.88	23.86	25.0
100	PI2 BPSK	135	138	23.46	23.49	23.46	24.5
100	PI2 BPSK	270	0	23.42	23.46	23.46	
100	QPSK	1	1	23.97	24.03	24.02	
100	QPSK	1	107	23.75	23.69	23.75	25.0
100	QPSK	1	271	23.74	23.77	23.73	
100	QPSK	135	0	23.07	23.06	23.09	24.0
100	QPSK	135	69	23.75	23.77	23.75	25.0
100	QPSK	135	138	22.77	22.80	22.80	24.0
100	QPSK	270	0	22.83	22.85	22.84	
100	16QAM	1	1	23.07	23.07	23.07	24.0
100	64QAM	1	1	21.54	21.52	21.48	22.5
100	256QAM	1	1	19.60	19.53	19.57	20.5
Channel				506200	518998	529998	
Frequency (MHz)				2641	2592.99	2644.98	
90	QPSK	1	1	23.78	23.77	23.84	25.0
Channel				507204	518998	529998	
Frequency (MHz)				2631.01	2592.99	2650	
80	QPSK	1	1	23.89	23.91	23.85	25.0
Channel				506202	518998	531000	
Frequency (MHz)				2621.01	2592.99	2650	
70	QPSK	1	1	23.91	23.85	23.84	25.0
Channel				505200	518998	531998	
Frequency (MHz)				2626	2592.99	2659.98	
60	QPSK	1	1	23.87	23.92	23.87	25.0
Channel				502200	518998	536998	
Frequency (MHz)				2592.02	2592.99	2664.99	
50	QPSK	1	1	23.94	23.94	23.90	25.0
Channel				500202	518998	534000	
Frequency (MHz)				2616.01	2604.99	2670	
40	QPSK	1	1	23.87	23.84	23.86	25.0
Channel				502200	518998	534998	
Frequency (MHz)				2511	2592.99	2674.98	
30	QPSK	1	1	23.84	23.84	23.91	25.0
Channel				501204	518998	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	23.93	23.89	23.84	25.0



n48 Part96 Ant 5									
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				638000	641666	645332			
Frequency (MHz)				3520	3624.99	3679.98			
40	PI2 BPSK	1	1	21.08	21.50	21.12			
40	PI2 BPSK	1	53	21.02	21.10	21.12	22.0		
40	PI2 BPSK	1	104	21.18	21.17	21.16			
40	PI2 BPSK	50	0	20.36	20.52	20.43	22.0	0.0	
40	PI2 BPSK	50	28	20.84	21.03	21.04	22.0	0.0	
40	PI2 BPSK	50	56	20.43	20.50	20.34	22.0	0.0	
40	PI2 BPSK	100	0	20.47	20.54	20.51			
40	QPSK	1	1	21.18	21.32	21.09			
40	QPSK	1	53	21.01	21.19	21.00	22.0	0.0	
40	QPSK	1	104	21.00	21.11	21.02			
40	QPSK	50	0	21.13	20.12	20.98	22.0	0.0	
40	QPSK	50	28	21.09	21.14	21.02	22.0	0.0	
40	QPSK	50	56	21.07	20.08	20.95	22.0	0.0	
40	QPSK	100	0	21.07	21.10	21.02			
40	16QAM	1	1	21.14	21.25	20.93	22.0	0.0	
40	64QAM	1	1	19.79	19.82	19.66	20.5	1.5	
40	256QAM	1	1	17.56	17.71	17.64	18.5	3.5	
Channel				637344	641666	645000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3560.01	3624.99	3690.01			
20	QPSK	1	1	21.08	21.19	21.03	22.0	0.0	

Part270 n77 Ant 5									
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				650000	650000	660000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	21.50	21.43	21.52			
100	PI2 BPSK	1	137	21.25	21.38	21.37	23.0	0.0	
100	PI2 BPSK	1	271	21.22	21.23	21.20			
100	PI2 BPSK	135	0	21.20	21.35	21.31	22.5	0.5	
100	PI2 BPSK	135	69	21.32	21.34	21.30	23.0	0.0	
100	PI2 BPSK	135	138	21.27	21.32	21.26	22.5	0.5	
100	PI2 BPSK	270	0	21.21	21.24	21.14			
100	QPSK	1	1	21.44	21.49	21.35			
100	QPSK	1	137	21.31	21.42	21.27	23.0	0.0	
100	QPSK	1	271	21.31	21.39	21.32			
100	QPSK	135	0	21.19	21.31	21.21	22.0	1.0	
100	QPSK	135	69	21.35	21.41	21.39	23.0	0.0	
100	QPSK	135	138	20.31	20.51	20.28	22.0	1.0	
100	QPSK	270	0	20.43	20.57	20.50			
100	16QAM	1	1	21.31	21.40	21.26	22.0	1.0	
100	64QAM	1	1	19.68	19.89	19.74	20.5	2.5	
100	256QAM	1	1	17.40	17.64	17.78	18.5	4.5	
Channel				645334	650000	650000			
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	21.24	21.27	21.26	23.0	0.0	
Channel				648000	650000	660334			
Frequency (MHz)				3720.02	3840	3940.01			
60	QPSK	1	1	21.35	21.40	21.33	23.0	0.0	
Channel				648000	650000	664000			
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	21.29	21.37	21.28	23.0	0.0	
Channel				647668	650000	664334			
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	21.31	21.32	21.20	23.0	0.0	
Channel				641334	650000	650000			
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	21.28	21.31	21.25	23.0	0.0	

Part270 n77 HPUE Ant 5									
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				650000	650000	660000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	24.02	24.07	24.06			
100	PI2 BPSK	1	137	24.01	24.02	24.01	26.0	0.0	
100	PI2 BPSK	1	271	24.02	24.03	24.03			
100	PI2 BPSK	135	0	23.97	24.02	23.98	25.5	0.5	
100	PI2 BPSK	135	69	24.10	24.05	24.01	26.0	0.0	
100	PI2 BPSK	135	138	23.86	23.93	23.83	25.5	0.5	
100	PI2 BPSK	270	0	23.96	24.05	23.80			
100	QPSK	1	1	24.08	24.30	24.02			
100	QPSK	1	137	24.07	24.07	24.02	26.0	0.0	
100	QPSK	1	271	24.03	24.02	24.01			
100	QPSK	135	0	23.87	24.02	23.92	25.0	1.0	
100	QPSK	135	69	24.01	24.09	24.02	26.0	0.0	
100	QPSK	135	138	24.01	24.02	23.95	25.0	1.0	
100	QPSK	270	0	23.88	24.00	23.89			
100	16QAM	1	1	23.23	23.26	23.25	25.0	1.0	
100	64QAM	1	1	21.53	21.54	21.51	23.5	2.5	
100	256QAM	1	1	20.18	20.28	20.25	21.5	4.5	
Channel				645334	650000	650000			
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	24.06	24.08	23.99	26.0	0.0	
Channel				648000	650000	660334			
Frequency (MHz)				3720.02	3840	3940.01			
60	QPSK	1	1	23.96	24.04	23.91	26.0	0.0	
Channel				648000	650000	664000			
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	23.91	24.04	23.84	26.0	0.0	
Channel				647668	650000	664334			
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	23.98	24.07	23.98	26.0	0.0	
Channel				641334	650000	650000			
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	23.98	24.10	23.99	26.0	0.0	



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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								
Frequency (MHz)				3500.01				
100	Pl2 BPSK	1	1	21.52				
100	Pl2 BPSK	1	137	21.49			23.0	0.0
100	Pl2 BPSK	1	271	21.40				
100	Pl2 BPSK	135	0	21.24			22.5	0.5
100	Pl2 BPSK	135	69	21.32			23.0	0.9
100	Pl2 BPSK	135	138	21.21			22.5	0.5
100	Pl2 BPSK	270	0	21.16				
100	QPSK	1	1	21.60				
100	QPSK	1	137	21.54			23.0	0.0
100	QPSK	1	271	21.47				
100	QPSK	135	0	21.17			22.0	1.0
100	QPSK	135	69	21.36			23.0	0.0
100	QPSK	135	138	21.13			22.0	1.0
100	QPSK	270	0	21.23				
100	16QAM	1	1	21.46			22.0	1.0
100	64QAM	1	1	19.91			20.5	2.5
100	256QAM	1	1	17.92			18.5	4.5
Channel				632968	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	21.38	21.46	21.45	23.0	0.0
Channel				632000	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490	3500.01	3500.02		
60	QPSK	1	1	21.35	21.35	21.34	23.0	0.0
Channel				631334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	21.35	21.31	21.32	23.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	21.37	21.38	21.35	23.0	0.0
Channel				632000	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480.02	3500.01	3540		
20	QPSK	1	1	21.35	21.36	21.38	23.0	0.0

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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								
Frequency (MHz)				3500.01				
100	Pl2 BPSK	1	1	24.23				
100	Pl2 BPSK	1	137	24.28			26.0	0.0
100	Pl2 BPSK	1	271	24.36				
100	Pl2 BPSK	135	0	24.27			25.5	0.5
100	Pl2 BPSK	135	69	24.32			26.0	0.9
100	Pl2 BPSK	135	138	24.37			25.5	0.5
100	Pl2 BPSK	270	0	24.33				
100	QPSK	1	1	24.63				
100	QPSK	1	137	24.25			26.0	0.0
100	QPSK	1	271	24.22				
100	QPSK	135	0	23.18			25.0	1.0
100	QPSK	135	69	24.24			26.0	0.0
100	QPSK	135	138	23.24			25.0	1.0
100	QPSK	270	0	22.80				
100	16QAM	1	1	23.24			25.0	1.0
100	64QAM	1	1	21.70			23.5	2.5
100	256QAM	1	1	19.84			21.5	4.5
Channel				632968	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	24.27	24.26	24.23	26.0	0.0
Channel				632000	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490	3500.01	3500.02		
60	QPSK	1	1	24.21	24.28	24.28	26.0	0.0
Channel				631334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	24.20	24.25	24.27	26.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	24.29	24.22	24.25	26.0	0.0
Channel				632000	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480.02	3500.01	3540		
20	QPSK	1	1	24.25	24.26	24.21	26.0	0.0

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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								
Frequency (MHz)				3750				
100	Pl2 BPSK	1	1	21.13				
100	Pl2 BPSK	1	137	21.14			23.0	0.0
100	Pl2 BPSK	1	271	21.04				
100	Pl2 BPSK	135	0	20.96			22.5	0.5
100	Pl2 BPSK	135	69	21.03			23.0	0.9
100	Pl2 BPSK	135	138	20.95			22.5	0.5
100	Pl2 BPSK	270	0	20.98				
100	QPSK	1	1	21.20				
100	QPSK	1	137	21.03			23.0	0.0
100	QPSK	1	271	21.06				
100	QPSK	135	0	20.28			22.0	1.0
100	QPSK	135	69	21.15			23.0	0.0
100	QPSK	135	138	20.02			22.0	1.0
100	QPSK	270	0	20.05				
100	16QAM	1	1	21.04			22.0	1.0
100	64QAM	1	1	19.59			20.5	2.5
100	256QAM	1	1	17.83			18.5	4.5
Channel				648968	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
80	QPSK	1	1	21.14	21.16	21.01	23.0	0.0
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	21.09	21.09	21.18	23.0	0.0
Channel				648000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	21.07	21.11	21.04	23.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	21.07	21.10	21.15	23.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	21.04	21.12	21.11	23.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	21.02	21.01	21.18	23.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	21.11	21.17	21.08	23.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	21.10	21.05	21.03	23.0	0.0



Part270 n78 HPUE Ant 5									
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									
Frequency (MHz)				3750					
100	Pl2 BPSK	1	1	24.07					
100	Pl2 BPSK	1	137	24.25			26.0	0.0	
100	Pl2 BPSK	1	271	24.09					
100	Pl2 BPSK	135	0	24.12			25.5	0.5	
100	Pl2 BPSK	135	69	24.20			26.0	0.0	
100	Pl2 BPSK	135	138	23.99			25.5	0.5	
100	Pl2 BPSK	270	0	23.88			25.5	0.5	
100	QPSK	1	1	24.28					
100	QPSK	1	137	24.12			26.0	0.0	
100	QPSK	1	271	24.04					
100	QPSK	135	0	23.98			26.0	1.0	
100	QPSK	135	69	24.05			26.0	0.0	
100	QPSK	135	138	23.87			25.0	1.0	
100	QPSK	270	0	23.94			26.0	1.0	
100	16QAM	1	1	23.81			26.0	1.0	
100	64QAM	1	1	22.02			23.5	2.5	
100	256QAM	1	1	19.99			21.5	4.5	
Channel									
Frequency (MHz)				648968	650000	650334	Tune-up limit (dBm)	MPR	
Channel				3745.02	3750	3755.01	26.0	0.0	
80	QPSK	1	1	24.09	24.14	24.07	26.0	0.0	
Channel									
Frequency (MHz)				645334	630000	630668	Tune-up limit (dBm)	MPR	
Channel				3749.01	3750	3750.02	26.0	0.0	
80	QPSK	1	1	24.18	24.12	24.13	26.0	0.0	
Channel									
Frequency (MHz)				648900	650000	651000	Tune-up limit (dBm)	MPR	
Channel				3725	3750	3765	26.0	0.0	
70	QPSK	1	1	24.17	24.13	24.11	26.0	0.0	
Channel									
Frequency (MHz)				648968	650000	651334	Tune-up limit (dBm)	MPR	
Channel				3730.02	3750	3770.01	26.0	0.0	
60	QPSK	1	1	24.17	24.15	24.15	26.0	0.0	
Channel									
Frequency (MHz)				631334	630000	631668	Tune-up limit (dBm)	MPR	
Channel				3725.01	3750	3775.02	26.0	0.0	
50	QPSK	1	1	24.08	24.14	24.10	26.0	0.0	
Channel									
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR	
Channel				3700	3750	3780	26.0	0.0	
40	QPSK	1	1	24.20	24.09	24.08	26.0	0.0	
Channel									
Frequency (MHz)				647868	650000	652334	Tune-up limit (dBm)	MPR	
Channel				3715.02	3750	3765.01	26.0	0.0	
30	QPSK	1	1	24.15	24.09	24.14	26.0	0.0	
Channel									
Frequency (MHz)				647334	650000	650668	Tune-up limit (dBm)	MPR	
Channel				3710.01	3750	3760.02	26.0	0.0	
20	QPSK	1	1	24.19	24.10	24.13	26.0	0.0	

Part27Q n78 Ant 5									
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				3500.01					
Frequency (MHz)				3500.01					
100	Pl2 BPSK	1	1	21.42					
100	Pl2 BPSK	1	137	21.35			23.0	0.0	
100	Pl2 BPSK	1	271	21.34					
100	Pl2 BPSK	135	0	21.32			22.5	0.5	
100	Pl2 BPSK	135	69	21.37			23.0	0.0	
100	Pl2 BPSK	135	138	21.25			22.5	0.5	
100	Pl2 BPSK	270	0	21.39			22.5	0.5	
100	QPSK	1	1	21.46					
100	QPSK	1	137	21.17			23.0	0.0	
100	QPSK	1	271	21.05					
100	QPSK	135	0	20.49			22.0	1.0	
100	QPSK	135	69	21.45			23.0	0.0	
100	QPSK	135	138	20.36			22.0	1.0	
100	QPSK	270	0	20.48			22.0	1.0	
100	16QAM	1	1	21.11			22.0	1.0	
100	64QAM	1	1	19.57			20.5	2.5	
100	256QAM	1	1	17.86			18.5	4.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3495	3500.01	3505.02	23.0	0.0	
90	QPSK	1	1	21.40	21.36	21.17	23.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3490.02	3500.01	3510	23.0	0.0	
80	QPSK	1	1	21.32	21.39	21.36	23.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3485.01	3500.01	3515.01	23.0	0.0	
70	QPSK	1	1	21.53	21.23	21.26	23.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3480	3500.01	3520.02	23.0	0.0	
60	QPSK	1	1	21.24	21.35	21.21	23.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3475.02	3500.01	3525	23.0	0.0	
50	QPSK	1	1	21.32	21.25	21.16	23.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	23.0	0.0	
40	QPSK	1	1	21.41	21.26	21.44	23.0	0.0	
Channel				631000	633334	636668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3465	3500.01	3535.02	23.0	0.0	
30	QPSK	1	1	21.22	21.42	21.39	23.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3460.02	3500.01	3540	23.0	0.0	
20	QPSK	1	1	21.45	21.32	21.35	23.0	0.0	

Part27Q n78 HPUE Ant 5									
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									
Frequency (MHz)				3500.01					
100	Pl2 BPSK	1	1	24.54					
100	Pl2 BPSK	1	137	24.47			26.0	0.0	
100	Pl2 BPSK	1	271	24.49					
100	Pl2 BPSK	135	0	24.45			25.5	0.5	
100	Pl2 BPSK	135	69	24.46			26.0	0.0	
100	Pl2 BPSK	135	138	23.97			25.5	0.5	
100	Pl2 BPSK	270	0	23.97			25.5	0.5	
100	QPSK	1	1	24.57					
100	QPSK	1	137	24.53			26.0	0.0	
100	QPSK	1	271	24.41					
100	QPSK	135	0	24.23			25.0	1.0	
100	QPSK	135	69	24.44			26.0	0.0	
100	QPSK	135	138	24.25			25.0	1.0	
100	QPSK	270	0	23.51			25.0	1.0	
100	16QAM	1	1	23.09			25.0	1.0	
100	64QAM	1	1	21.56			23.5	2.5	
100	256QAM	1	1	19.57			21.5	4.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3495	3500.01	3505.02	26.0	0.0	
80	QPSK	1	1	24.36	24.46	24.43	26.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3490.02	3500.01	3510	26.0	0.0	
80	QPSK	1	1	24.37	24.42	24.32	26.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3485.01	3500.01	3515.01	26.0	0.0	
70	QPSK	1	1	24.47	24.59	24.25	26.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3480	3500.01	3520.02	26.0	0.0	
60	QPSK	1	1	24.28	24.51	24.42	26.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3475.02	3500.01	3525	26.0	0.0	
50	QPSK	1	1	24.41	24.41	24.34	26.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	26.0	0.0	
40	QPSK	1	1	24.40	24.41	24.34	26.0	0.0	
Channel				631000	633334	636668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3465	3500.01	3535.02	26.0	0.0	
30	QPSK	1	1	24.29	24.55	24.25	26.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3460.02	3500.01	3540	26.0	0.0	
20	QPSK	1	1	24.41	24.48	24.28	26.0	0.0	

n7 Ant 6									
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				502000	507000	512000			
Frequency (MHz)				2610	2635	2660			
20	PI2 BPSK	1	1	22.15	22.19	22.12	23.0	0.0	
20	PI2 BPSK	1	53	22.09	22.16	22.08			
20	PI2 BPSK	1	104	22.00	22.11	21.96			
20	PI2 BPSK	50	0	21.43	21.50	21.36	22.5	0.5	
20	PI2 BPSK	50	28	22.03	22.12	21.99	23.0	0.0	
20	PI2 BPSK	50	56	21.36	21.42	21.29	22.5	0.5	
20	PI2 BPSK	100	0	21.36	21.45	21.37			
20	QPSK	1	1	22.20	22.21	22.22			
20	QPSK	1	53	22.08	22.23	22.16	23.0	0.0	
20	QPSK	1	104	22.08	22.18	22.12			
20	QPSK	50	0	21.09	21.16	21.12	22.0	1.0	
20	QPSK	50	28	22.15	22.18	22.12	23.0	0.0	
20	QPSK	50	56	20.90	20.97	20.94			
20	QPSK	100	0	20.92	21.06	20.94	22.0	1.0	
20	16QAM	1	1	21.00	21.14	21.05	22.0	1.0	
20	64QAM	1	1	19.74	19.81	19.68	20.5	2.5	
20	256QAM	1	1	17.58	17.59	17.46	18.5	4.5	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2635	2562.5			
15	QPSK	1	1	22.13	22.19	22.08	23.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2635	2565			
10	QPSK	1	1	22.10	22.21	22.10	23.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2635	2567.5			
5	QPSK	1	1	22.03	22.14	22.06	23.0	0.0	



n38 Ant 6							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				516004	516000	516996	
Frequency (MHz)				2560.02	2565	2569.98	
40	PI2 BPSK	1	1	21.96	22.07	21.99	
40	PI2 BPSK	1	53	21.87	21.98	21.96	23.0
40	PI2 BPSK	1	104	21.82	21.97	21.94	
40	PI2 BPSK	50	0	21.34	21.47	21.31	22.5 0.5
40	PI2 BPSK	50	28	21.92	21.99	21.96	23.0 0.0
40	PI2 BPSK	50	56	21.22	21.35	21.30	22.5 0.5
40	PI2 BPSK	100	0	21.29	21.42	21.27	
40	QPSK	1	1	22.06	22.15	22.04	
40	QPSK	1	53	22.06	22.08	21.99	23.0 0.0
40	QPSK	1	104	21.95	22.01	21.97	
40	QPSK	50	0	20.77	20.88	20.81	22.0 1.0
40	QPSK	50	28	21.96	22.05	22.02	23.0 0.0
40	QPSK	50	56	20.72	20.87	20.77	22.0 1.0
40	QPSK	100	0	20.91	20.98	20.84	
40	16QAM	1	1	20.89	21.05	20.98	22.0 1.0
40	64QAM	1	1	19.87	19.70	19.61	20.5 2.5
40	256QAM	1	1	17.54	17.78	17.69	18.5 4.5
Channel				517002	516000	520000	
Frequency (MHz)				2565.01	2565	2604.99	
30	QPSK	1	1	21.95	22.12	21.89	23.0 0.0
Channel				516000	516000	520000	
Frequency (MHz)				2560	2565	2610	
20	QPSK	1	1	21.96	22.05	21.90	23.0 0.0

n41 Ant 6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				509002	516998	528000	
Frequency (MHz)				2546.01	2552.98	2640	
100	PI2 BPSK	1	1	22.18	22.20	21.98	
100	PI2 BPSK	1	137	22.15	22.19	21.91	23.0 0.0
100	PI2 BPSK	1	271	22.21	22.24	21.99	
100	PI2 BPSK	135	0	21.74	21.85	21.56	22.5 0.5
100	PI2 BPSK	135	69	22.17	22.14	22.00	23.0 0.0
100	PI2 BPSK	135	138	21.95	21.74	21.56	22.5 0.5
100	PI2 BPSK	270	0	21.88	21.84	21.50	
100	QPSK	1	1	22.28	22.35	22.08	
100	QPSK	1	137	22.32	22.19	21.84	23.0 0.0
100	QPSK	1	271	22.10	21.82	22.03	
100	QPSK	135	0	21.24	21.42	21.07	22.0 1.0
100	QPSK	135	69	22.02	22.25	22.10	23.0 0.0
100	QPSK	135	138	21.39	21.30	21.13	22.0 1.0
100	QPSK	270	0	21.38	21.43	21.07	
100	16QAM	1	1	21.15	21.41	20.93	22.0 1.0
100	64QAM	1	1	19.81	19.97	19.55	20.5 2.5
100	256QAM	1	1	17.07	17.96	17.72	18.5 4.5
Channel				508000	516998	528998	
Frequency (MHz)				2541	2552.98	2644.98	
90	QPSK	1	1	21.97	21.89	21.93	23.0 0.0
Channel				507204	516998	529998	
Frequency (MHz)				2536.02	2562.99	2649.99	
80	QPSK	1	1	21.83	22.07	22.02	23.0 0.0
Channel				506202	516998	531000	
Frequency (MHz)				2531.01	2562.99	2655	
70	QPSK	1	1	21.83	21.86	21.83	23.0 0.0
Channel				505200	516998	531998	
Frequency (MHz)				2526.08	2562.99	2659.98	
60	QPSK	1	1	22.02	21.99	22.00	23.0 0.0
Channel				504204	516998	532998	
Frequency (MHz)				2521.02	2562.99	2664.99	
50	QPSK	1	1	21.86	22.07	21.99	23.0 0.0
Channel				503202	516998	534000	
Frequency (MHz)				2516.01	2562.99	2670	
40	QPSK	1	1	21.98	22.10	21.83	23.0 0.0
Channel				502200	516998	534998	
Frequency (MHz)				2511	2562.99	2674.98	
30	QPSK	1	1	21.90	22.02	22.04	23.0 0.0
Channel				501204	516998	535998	
Frequency (MHz)				2506.02	2562.99	2679.99	
20	QPSK	1	1	21.99	21.98	21.82	23.0 0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (dfm)	MPR (dB)
Channel				509202	516998	528000		
Frequency (MHz)				2546.01	2552.99	2640		
100	PI2 BPSK	1	1	24.09	24.08	23.91		
100	PI2 BPSK	1	137	24.27	24.07	24.01	25.0	0.0
100	PI2 BPSK	1	271	23.94	24.19	24.06		
100	PI2 BPSK	135	0	23.56	23.92	23.29	24.5	0.5
100	PI2 BPSK	135	69	24.05	23.94	24.08	25.0	0.0
100	PI2 BPSK	135	138	23.92	23.53	23.76	24.5	0.5
100	PI2 BPSK	270	0	23.92	23.65	23.50		
100	QPSK	1	1	24.14	24.39	24.01		
100	QPSK	1	137	24.05	23.86	23.60	25.0	0.0
100	QPSK	1	271	24.06	23.76	23.98		
100	QPSK	135	0	23.21	23.28	23.01	24.0	1.0
100	QPSK	135	69	23.70	23.93	23.86	25.0	0.0
100	QPSK	135	138	23.10	23.37	22.99	24.0	1.0
100	QPSK	270	0	22.91	23.07	22.85		
100	16QAM	1	1	23.32	23.22	22.98	24.0	1.0
100	64QAM	1	1	21.58	21.53	21.39	22.5	2.5
100	256QAM	1	1	19.70	19.56	19.59	20.5	4.5
Channel				509200	516998	529998		
Frequency (MHz)				2541	2552.99	2644.98		
90	QPSK	1	1	24.23	24.16	24.13	25.0	0.0
Channel				507204	516998	529998		
Frequency (MHz)				2536.02	2562.99	2649.99		
80	QPSK	1	1	24.20	24.30	24.04	25.0	0.0
Channel				505202	516998	531000		
Frequency (MHz)				2531.01	2562.99	2655		
70	QPSK	1	1	24.23	24.18	24.03	25.0	0.0
Channel				505200	516998	531998		
Frequency (MHz)				2526	2562.99	2659.98		
60	QPSK	1	1	24.14	24.13	24.13	25.0	0.0
Channel				503203	516998	532998		
Frequency (MHz)				2521.02	2562.99	2664.99		
50	QPSK	1	1	24.25	24.18	24.10	25.0	0.0
Channel				503202	516998	534000		
Frequency (MHz)				2516.01	2562.99	2670		
40	QPSK	1	1	24.20	24.34	24.04	25.0	0.0
Channel				502200	516998	534998		
Frequency (MHz)				2511	2562.99	2674.98		
30	QPSK	1	1	24.27	24.16	24.06	25.0	0.0
Channel				501204	516998	535998		
Frequency (MHz)				2506.02	2562.99	2679.99		
20	QPSK	1	1	24.12	24.14	24.16	25.0	0.0



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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				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	Pl2 BPSK	1	1	22.30	22.44	22.58	23.0	0.0
100	Pl2 BPSK	1	137	22.11	22.29	22.32		
100	Pl2 BPSK	1	271	22.09	22.28	22.10		
100	Pl2 BPSK	135	0	21.78	21.87	21.84	22.5	0.5
100	Pl2 BPSK	135	69	22.42	22.43	22.33	23.0	0.0
100	Pl2 BPSK	135	138	21.86	21.75	21.84	22.5	0.5
100	Pl2 BPSK	270	0	21.83	21.84	21.82	23.0	0.0
100	QPSK	1	1	22.21	22.25	22.15		
100	QPSK	1	137	22.10	22.24	22.17		
100	QPSK	1	271	22.05	22.19	22.11		
100	QPSK	135	0	20.92	21.06	20.97	22.0	1.0
100	QPSK	135	69	22.11	22.23	22.10	23.0	0.0
100	QPSK	135	138	20.94	21.04	21.02	22.0	1.0
100	QPSK	270	0	21.75	21.76	21.75	22.0	1.0
100	16QAM	1	1	21.06	21.12	21.03	22.0	1.0
100	64QAM	1	1	19.89	19.79	19.67	20.5	2.5
100	256QAM	1	1	17.09	17.73	17.68	18.5	4.5
Channel				640000	650000	660000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	23.0	0.0
80	Pl2 BPSK	1	1	22.12	22.21	22.07	23.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3739.02	3840	3940.01	23.0	0.0
60	Pl2 BPSK	1	1	22.15	22.19	22.11	23.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	23.0	0.0
40	Pl2 BPSK	1	1	22.15	22.17	22.09	23.0	0.0
Channel				647668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01	23.0	0.0
30	Pl2 BPSK	1	1	22.05	22.23	22.09	23.0	0.0
Channel				647334	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	23.0	0.0
20	Pl2 BPSK	1	1	22.07	22.15	22.17	23.0	0.0

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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				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	Pl2 BPSK	1	1	24.51	24.53	24.29	26.0	0.0
100	Pl2 BPSK	1	137	24.04	24.04	24.08		
100	Pl2 BPSK	1	271	23.92	24.14	23.81		
100	Pl2 BPSK	135	0	23.33	23.39	23.24	25.5	0.5
100	Pl2 BPSK	135	69	24.10	24.24	23.95	26.0	0.0
100	Pl2 BPSK	135	138	23.15	23.04	23.09	25.5	0.5
100	Pl2 BPSK	270	0	23.10	23.25	23.23	25.0	1.0
100	QPSK	1	1	23.39	23.57	23.52		
100	QPSK	1	137	23.06	23.23	23.12		
100	QPSK	1	271	23.10	23.24	23.06		
100	QPSK	135	0	22.27	22.55	22.26	24.0	2.0
100	QPSK	135	69	23.18	23.23	23.18	25.0	1.0
100	QPSK	135	138	22.19	22.23	21.96	24.0	2.0
100	QPSK	270	0	22.06	22.18	22.24	25.0	1.0
100	16QAM	1	1	23.09	23.32	23.01	25.0	1.0
100	64QAM	1	1	21.28	21.48	21.14	23.0	3.0
100	256QAM	1	1	19.71	19.61	19.61	21.5	4.5
Channel				640000	650000	660000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	26.0	0.0
80	Pl2 BPSK	1	1	24.27	24.21	24.21	26.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3739.02	3840	3940.01	26.0	0.0
60	Pl2 BPSK	1	1	24.23	24.39	24.19	26.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	26.0	0.0
40	Pl2 BPSK	1	1	24.25	24.19	24.09	26.0	0.0
Channel				647668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01	26.0	0.0
30	Pl2 BPSK	1	1	24.10	24.21	24.26	26.0	0.0
Channel				647334	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	26.0	0.0
20	Pl2 BPSK	1	1	24.20	24.16	24.17	26.0	0.0

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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				630000	633334	636668		
Frequency (MHz)				3500.01				
100	Pl2 BPSK	1	1	22.23			23.0	0.0
100	Pl2 BPSK	1	137	21.71				
100	Pl2 BPSK	1	271	21.68				
100	Pl2 BPSK	135	0	20.84			22.0	1.0
100	Pl2 BPSK	135	69	22.14			23.0	0.0
100	Pl2 BPSK	135	138	20.69			22.0	1.0
100	Pl2 BPSK	270	0	20.71			22.0	1.0
100	QPSK	1	1	21.15				
100	QPSK	1	137	20.86				
100	QPSK	1	271	20.82				
100	QPSK	135	0	19.75			20.5	2.5
100	QPSK	135	69	21.27			22.0	1.0
100	QPSK	135	138	19.81			20.5	2.5
100	QPSK	270	0	19.75			21.0	2.0
100	16QAM	1	1	20.21			19.5	3.5
100	64QAM	1	1	18.58			17.15	5.0
100	256QAM	1	1	17.15			15.0	6.0
Channel				630968	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510	23.0	0.0
80	Pl2 BPSK	1	1	22.05	22.05	22.20	23.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3490.01	3500.02	23.0	0.0
60	Pl2 BPSK	1	1	22.18	22.01	22.07	23.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01	23.0	0.0
40	Pl2 BPSK	1	1	22.02	22.22	22.10	23.0	0.0
Channel				631000	633334	635968	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02	23.0	0.0
30	Pl2 BPSK	1	1	22.05	22.09	22.04	23.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540	23.0	0.0
20	Pl2 BPSK	1	1	22.03	22.02	22.09	23.0	0.0



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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								
Frequency (MHz)				3500.01				
100	Pl2 BPSK	1	1	24.53			26.0	0.0
100	Pl2 BPSK	1	137	24.81				
100	Pl2 BPSK	1	271	24.53				
100	Pl2 BPSK	135	0	24.29			25.5	0.5
100	Pl2 BPSK	135	69	24.63			26.0	0.0
100	Pl2 BPSK	135	138	24.18			25.5	0.5
100	Pl2 BPSK	270	0	24.38			25.0	1.0
100	QPSK	1	1	24.01				
100	QPSK	1	137	23.79				
100	QPSK	1	271	23.59			24.0	2.0
100	QPSK	135	0	23.22				
100	QPSK	135	69	23.82				
100	QPSK	135	138	23.18			24.0	2.0
100	QPSK	270	0	23.47			24.5	1.5
100	16QAM	1	1	23.51				
100	64QAM	1	1	21.85				
100	256QAM	1	1	20.08			23.0	3.0
Channel				630968	633334	634000	21.0	5.0
Frequency (MHz)				3489.02	3500.01	3510		
80	Pl2 BPSK	1	1	24.36	24.41	24.44	26.0	0.0
Channel								
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
80	Pl2 BPSK	1	1	24.46	24.50	24.37	26.0	0.0
Channel								
Frequency (MHz)				631334	633334	636334	Tune-up limit (dBm)	MPR (dB)
40	Pl2 BPSK	1	1	24.52	24.44	24.40	23.0	0.0
Channel								
Frequency (MHz)				637000	633334	635668	Tune-up limit (dBm)	MPR (dB)
30	Pl2 BPSK	1	1	24.41	24.37	24.43	26.0	0.0
Channel								
Frequency (MHz)				635000	633334	636000	Tune-up limit (dBm)	MPR (dB)
20	Pl2 BPSK	1	1	24.37	24.47	24.50	26.0	0.0

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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								
Frequency (MHz)				3750				
100	Pl2 BPSK	1	1	21.64			23.0	0.0
100	Pl2 BPSK	1	137	21.05				
100	Pl2 BPSK	1	271	20.98				
100	Pl2 BPSK	135	0	20.37			22.5	0.5
100	Pl2 BPSK	135	69	21.05			23.0	0.0
100	Pl2 BPSK	135	138	20.07			22.5	0.5
100	Pl2 BPSK	270	0	20.29			22.5	0.5
100	QPSK	1	1	21.28				
100	QPSK	1	137	20.79				
100	QPSK	1	271	20.69			21.5	1.5
100	QPSK	135	0	20.06				
100	QPSK	135	69	20.82				
100	QPSK	135	138	19.63			21.5	1.5
100	QPSK	270	0	20.11			22.0	1.0
100	16QAM	1	1	20.77				
100	64QAM	1	1	19.41				
100	256QAM	1	1	18.23			20.5	2.5
Channel				648968	650000	650334	18.5	4.5
Frequency (MHz)				3745.02	3750	3755.01		
90	Pl2 BPSK	1	1	21.62	21.59	21.54	23.0	0.0
Channel								
Frequency (MHz)				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	Pl2 BPSK	1	1	21.07	21.10	21.11	23.0	0.0
Channel								
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
70	Pl2 BPSK	1	1	21.03	21.09	21.09	23.0	0.0
Channel								
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
60	Pl2 BPSK	1	1	20.45	20.43	20.47	23.0	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
50	Pl2 BPSK	1	1	21.07	21.10	21.11	23.0	0.0
Channel								
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
40	Pl2 BPSK	1	1	20.12	20.12	20.11	23.0	0.0
Channel								
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
30	Pl2 BPSK	1	1	20.37	20.38	20.36	23.0	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
20	Pl2 BPSK	1	1	20.90	20.88	20.89	23.0	0.0

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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								
Frequency (MHz)				3750				
100	Pl2 BPSK	1	1	24.29			26.0	0.0
100	Pl2 BPSK	1	137	23.92				
100	Pl2 BPSK	1	271	23.69				
100	Pl2 BPSK	135	0	23.56			25.5	0.5
100	Pl2 BPSK	135	69	23.73			26.0	0.0
100	Pl2 BPSK	135	138	23.30			25.5	0.5
100	Pl2 BPSK	270	0	23.04			25.5	0.5
100	QPSK	1	1	23.56				
100	QPSK	1	137	23.62				
100	QPSK	1	271	22.71			24.0	2.0
100	QPSK	135	0	22.80				
100	QPSK	135	69	22.72				
100	QPSK	135	138	22.36			24.0	2.0
100	QPSK	270	0	22.52			24.5	1.5
100	16QAM	1	1	22.89				
100	64QAM	1	1	21.89				
100	256QAM	1	1	19.63			23.5	2.5
Channel				648968	650000	650334	21.5	4.5
Frequency (MHz)				3745.02	3750	3755.01		
90	Pl2 BPSK	1	1	24.16	24.11	24.02	26.0	0.0
Channel								
Frequency (MHz)				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	Pl2 BPSK	1	1	24.02	24.11	23.93	26.0	0.0
Channel								
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
70	Pl2 BPSK	1	1	24.01	24.01	24.10	26.0	0.0
Channel								
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
60	Pl2 BPSK	1	1	24.02	24.09	23.89	26.0	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
50	Pl2 BPSK	1	1	24.11	24.11	23.94	26.0	0.0
Channel								
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
40	Pl2 BPSK	1	1	24.16	24.24	23.90	26.0	0.0
Channel								
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
30	Pl2 BPSK	1	1	23.89	24.10	23.97	26.0	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
20	Pl2 BPSK	1	1	24.06	24.02	24.01	26.0	0.0

Part27Q n78 Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3500.01					
Frequency (MHz)				22.03					
100	Pl2 BPSK	1	1		22.03		23.0	0.0	
100	Pl2 BPSK	1	137		22.01				
100	Pl2 BPSK	1	271		21.75				
100	Pl2 BPSK	135	0		21.00		22.5	0.5	
100	Pl2 BPSK	135	69		21.65		23.0	0.9	
100	Pl2 BPSK	135	138		20.81		22.5	0.5	
100	Pl2 BPSK	270	0		20.95				
100	QPSK	1	1		21.84				
100	QPSK	1	137		21.79		22.5	0.5	
100	QPSK	1	271		21.48				
100	QPSK	135	0		20.70		21.5	1.5	
100	QPSK	135	69		21.61		22.5	0.5	
100	QPSK	135	138		20.57		21.5	1.5	
100	QPSK	270	0		20.76		22.0	1.0	
100	16QAM	1	1		21.05				
100	64QAM	1	1		19.56		20.5	2.5	
100	256QAM	1	1		18.01		19.0	4.0	
Channel				633000	633334	633668			
Frequency (MHz)				3495	3500.01	3505.02			
90	Pl2 BPSK	1	1		22.02	21.91	21.88	23.0	0.0
Channel				630968	633334	634000			
Frequency (MHz)				3499.02	3500.01	3501.01			
80	Pl2 BPSK	1	1		21.86	21.97	21.89	23.0	0.0
Channel				632334	633334	634334			
Frequency (MHz)				3485.01	3500.01	3515.01			
70	Pl2 BPSK	1	1		21.67	21.69	21.52	23.0	0.0
Channel				632000	633334	634968			
Frequency (MHz)				3480	3500.01	3520.02			
60	Pl2 BPSK	1	1		21.88	21.87	21.97	23.0	0.0
Channel				631663	633334	635000			
Frequency (MHz)				3475.02	3500.01	3525			
50	Pl2 BPSK	1	1		21.98	21.94	21.94	23.0	0.0
Channel				631334	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01			
40	Pl2 BPSK	1	1		21.90	22.00	21.92	23.0	0.0
Channel				631000	633334	636668			
Frequency (MHz)				3465	3500.01	3535.02			
30	Pl2 BPSK	1	1		21.94	21.98	21.88	23.0	0.0
Channel				630668	633334	635000			
Frequency (MHz)				3460.02	3500.01	3540			
20	Pl2 BPSK	1	1		22.01	21.90	21.88	23.0	0.0

Part27Q n78 HPUE Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3500.01					
Frequency (MHz)				24.79					
100	Pl2 BPSK	1	1		24.79		26.0	0.0	
100	Pl2 BPSK	1	137		24.67				
100	Pl2 BPSK	1	271		24.56				
100	Pl2 BPSK	135	0		24.23		25.5	0.5	
100	Pl2 BPSK	135	69		24.69		26.0	0.9	
100	Pl2 BPSK	135	138		24.05		25.5	0.5	
100	Pl2 BPSK	270	0		24.15				
100	QPSK	1	1		23.93				
100	QPSK	1	137		23.98		25.0	1.0	
100	QPSK	1	271		23.45				
100	QPSK	135	0		23.30		24.0	2.0	
100	QPSK	135	69		23.69		25.0	1.0	
100	QPSK	135	138		23.19		24.0	2.0	
100	QPSK	270	0		23.23		24.0	2.0	
100	16QAM	1	1		22.78				
100	64QAM	1	1		21.71		23.0	3.0	
100	256QAM	1	1		19.79		21.0	5.0	
Channel				633000	633334	633668			
Frequency (MHz)				3495	3500.01	3505.02			
90	Pl2 BPSK	1	1		24.01	24.52	24.62	26.0	0.0
Channel				630968	633334	634000			
Frequency (MHz)				3499.02	3500.01	3501.01			
80	Pl2 BPSK	1	1		24.07	24.62	24.71	26.0	0.0
Channel				632334	633334	634334			
Frequency (MHz)				3485.01	3500.01	3515.01			
70	Pl2 BPSK	1	1		24.07	24.50	24.57	26.0	0.0
Channel				632000	633334	634968			
Frequency (MHz)				3480	3500.01	3520.02			
60	Pl2 BPSK	1	1		24.04	24.50	24.63	26.0	0.0
Channel				631663	633334	635000			
Frequency (MHz)				3475.02	3500.01	3525			
50	Pl2 BPSK	1	1		24.03	24.54	24.60	26.0	0.0
Channel				631334	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01			
40	Pl2 BPSK	1	1		24.01	24.54	24.69	26.0	0.0
Channel				631000	633334	636668			
Frequency (MHz)				3465	3500.01	3535.02			
30	Pl2 BPSK	1	1		24.71	24.49	24.61	26.0	0.0
Channel				630668	633334	635000			
Frequency (MHz)				3460.02	3500.01	3540			
20	Pl2 BPSK	1	1		24.04	24.59	24.52	26.0	0.0

n7 Ant 7								
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				502000	507000	512000		
Frequency (MHz)				2610	2635	2660		
20	PI2 BPSK	1	1	21.21	21.35	21.27	23.0	0.0
20	PI2 BPSK	1	53	21.13	21.29	21.15		
20	PI2 BPSK	1	104	21.14	21.25	21.18		
20	PI2 BPSK	50	0	20.82	20.71	20.81	22.5	0.5
20	PI2 BPSK	50	28	21.19	21.25	21.25	23.0	0.0
20	PI2 BPSK	50	56	20.51	20.63	20.56	22.5	0.5
20	PI2 BPSK	100	0	20.52	20.67	20.58		
20	QPSK	1	1	21.33	21.41	21.33	23.0	0.0
20	QPSK	1	53	21.23	21.33	21.27		
20	QPSK	1	104	21.25	21.30	21.19		
20	QPSK	50	0	20.13	20.22	20.15	22.0	1.0
20	QPSK	50	28	21.22	21.34	21.29	23.0	0.0
20	QPSK	50	56	20.02	20.03	20.01	22.0	1.0
20	QPSK	100	0	20.03	20.05	20.04		
20	16QAM	1	1	20.22	20.32	20.21	22.0	1.0
20	64QAM	1	1	18.82	18.88	18.82	20.5	2.5
20	256QAM	1	1	16.58	16.71	16.54	18.5	4.5
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	21.25	21.32	21.28	23.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	21.19	21.27	21.26	23.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	21.20	21.33	21.25	23.0	0.0



n38 Ant 7									
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				516004	516000	516998			
Frequency (MHz)				2580.02	2595	2599.98			
40	P12 BPSK	1	1	19.91	20.01	19.82			
40	P12 BPSK	1	53	19.90	19.97	19.91	21.0	0.0	
40	P12 BPSK	1	104	19.92	20.06	19.90			
40	P12 BPSK	50	0	19.48	19.48	19.45	20.5	0.5	
40	P12 BPSK	50	28	19.87	19.98	19.94	21.0	0.0	
40	P12 BPSK	50	58	19.81	19.59	19.44	20.5	0.5	
40	P12 BPSK	100	0	19.80	19.59	19.46			
40	QPSK	1	1	20.03	20.11	20.00	21.0	0.0	
40	QPSK	1	53	19.88	19.92	19.88			
40	QPSK	1	104	19.91	19.99	19.91			
40	QPSK	50	0	18.99	18.99	18.98	20.0	1.0	
40	QPSK	50	28	20.00	20.02	19.99	21.0	0.0	
40	QPSK	50	58	18.93	18.92	18.95	20.0	1.0	
40	QPSK	100	0	18.97	18.95	18.97			
40	16QAM	1	1	18.95	18.97	18.92	20.0	1.0	
40	64QAM	1	1	17.52	17.54	17.45	18.5	2.5	
40	256QAM	1	1	15.58	15.57	15.51	16.5	4.5	
Channel				517002	516000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	19.95	19.97	19.97	21.0	0.0	
Channel				516000	516000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2590	2595	2610			
20	QPSK	1	1	19.95	20.00	19.88	21.0	0.0	

n41 Ant 7									
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				506202	518598	520998			
Frequency (MHz)				2548.01	2592.99	2640			
100	P12 BPSK	1	1	20.02	20.09	19.93			
100	P12 BPSK	1	137	19.97	20.02	20.03	21.0	0.0	
100	P12 BPSK	1	271	20.04	20.11	20.03			
100	P12 BPSK	135	0	19.58	19.82	19.58	20.5	0.5	
100	P12 BPSK	135	69	20.00	20.08	20.05	21.0	0.0	
100	P12 BPSK	135	138	19.65	19.84	19.58	20.5	0.5	
100	P12 BPSK	270	0	19.68	19.82	19.54			
100	QPSK	1	1	20.10	20.15	20.08	21.0	0.0	
100	QPSK	1	137	20.00	20.04	19.94			
100	QPSK	1	271	19.99	20.10	20.05			
100	QPSK	135	0	19.06	19.07	19.06	20.0	1.0	
100	QPSK	135	69	20.08	20.10	20.05	21.0	0.0	
100	QPSK	135	138	19.05	19.10	19.02	20.0	1.0	
100	QPSK	270	0	19.08	19.13	19.06			
100	16QAM	1	1	19.08	19.09	19.04	20.0	1.0	
100	64QAM	1	1	17.61	17.60	17.58	18.5	2.5	
100	256QAM	1	1	15.64	15.69	15.58	16.5	4.5	
Channel				506202	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.99	20.02	19.94	21.0	0.0	
Channel				507204	518598	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2643.99			
80	QPSK	1	1	19.95	20.03	19.95	21.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	19.95	19.99	20.00	21.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2528	2592.99	2659.98			
60	QPSK	1	1	19.95	20.05	19.95	21.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.97	20.02	19.92	21.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	20.00	20.00	19.94	21.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	19.99	20.08	19.80	21.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	20.02	20.01	19.94	21.0	0.0	

n41 HPUE Ant 7									
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				506202	518598	530000			
Frequency (MHz)				2548.01	2592.99	2640			
100	P12 BPSK	1	1	21.83	21.90	21.80			
100	P12 BPSK	1	137	21.82	21.86	21.78	23.0	0.0	
100	P12 BPSK	1	271	21.82	21.83	21.87			
100	P12 BPSK	135	0	21.47	21.47	21.50	22.5	0.5	
100	P12 BPSK	135	69	21.87	21.85	21.89	23.0	0.5	
100	P12 BPSK	135	138	21.41	21.47	21.45	22.5	0.5	
100	P12 BPSK	270	0	21.38	21.51	21.41			
100	QPSK	1	1	21.92	21.96	21.96	23.0	0.0	
100	QPSK	1	137	21.84	21.86	21.79			
100	QPSK	1	271	21.81	21.90	21.82			
100	QPSK	135	0	20.90	20.99	20.98	22.0	1.0	
100	QPSK	135	69	21.81	21.88	21.85	23.0	0.0	
100	QPSK	135	138	20.91	20.90	20.93	22.0	1.0	
100	QPSK	270	0	20.95	20.97	20.96			
100	16QAM	1	1	20.86	20.96	20.91	22.0	1.0	
100	64QAM	1	1	18.64	18.58	19.50	20.5	2.5	
100	256QAM	1	1	17.44	17.46	17.43	18.5	4.5	
Channel				506202	518598	532996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.85	21.91	21.88	23.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2649.99			
80	QPSK	1	1	21.77	21.89	21.85	23.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	21.82	21.87	21.81	23.0	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2528	2592.99	2659.98			
60	QPSK	1	1	21.84	21.86	21.84	23.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	21.89	21.86	21.87	23.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	21.81	21.87	21.81	23.0	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	21.77	21.83	21.81	23.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.80	21.87	21.87	23.0	0.0	



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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				636000	641666	646332			
Frequency (MHz)				3520	3624.99	3676.98			
40	Pl2 BPSK	1	1	17.49	17.63	17.56			
40	Pl2 BPSK	1	53	17.37	17.48	17.51	19.0		
40	Pl2 BPSK	1	104	17.33	17.51	17.43			
40	Pl2 BPSK	50	0	17.36	17.45	17.45	19.0		
40	Pl2 BPSK	50	28	17.39	17.53	17.45	19.0		
40	Pl2 BPSK	50	56	17.43	17.48	17.52	19.0		
40	Pl2 BPSK	100	0	17.40	17.45	17.40			
40	QPSK	1	1	17.42	17.47	17.41			
40	QPSK	1	53	17.43	17.46	17.43	19.0		
40	QPSK	1	104	17.41	17.52	17.45			
40	QPSK	50	0	17.42	17.50	17.49	19.0		
40	QPSK	50	28	16.97	17.10	17.10	19.0		
40	QPSK	50	56	17.44	17.30	17.27	19.0		
40	QPSK	100	0	17.40	17.50	16.97	19.0		
40	16QAM	1	1	17.22	17.30	17.28	19.0		
40	64QAM	1	1	17.18	17.31	17.21	19.0		
40	256QAM	1	1	17.42	17.47	17.46	19.0		
Channel				637234	641666	646000	Tune-up limit (dB)	MPR (dB)	
Frequency (MHz)				3560.01	3624.99	3690			
20	Pl2 BPSK	1	1	17.40	17.46	17.43	19.0		

Part270 n77 Ant 8									
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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	Pl2 BPSK	1	1	16.58	16.60	16.56			
100	Pl2 BPSK	1	137	16.58	16.56	16.48	18.0		
100	Pl2 BPSK	1	271	16.58	16.55	16.53			
100	Pl2 BPSK	135	0	16.51	16.52	16.50	18.0		
100	Pl2 BPSK	135	69	16.52	16.55	16.53	18.0		
100	Pl2 BPSK	135	138	16.53	16.47	16.52	18.0		
100	Pl2 BPSK	270	0	16.45	16.51	16.48			
100	QPSK	1	1	16.47	16.49	16.47			
100	QPSK	1	137	16.55	16.50	16.56	18.0		
100	QPSK	1	271	16.45	16.48	16.44			
100	QPSK	135	0	16.41	16.38	16.45	18.0		
100	QPSK	135	69	16.44	16.43	16.42	18.0		
100	QPSK	135	138	16.48	16.40	16.47	18.0		
100	QPSK	270	0	16.35	16.43	16.40	18.0		
100	16QAM	1	1	16.52	16.52	16.48	18.0		
100	64QAM	1	1	16.08	16.13	16.04	18.0		
100	256QAM	1	1	15.29	15.42	15.49	17.0		
Channel				645334	650000	655666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	Pl2 BPSK	1	1	16.46	16.44	16.41	18.0		
Channel				646668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.02	3840	3940.01			
60	Pl2 BPSK	1	1	16.46	16.44	16.44	18.0		
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	Pl2 BPSK	1	1	16.53	16.43	16.47	18.0		
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	Pl2 BPSK	1	1	16.54	16.51	16.41	18.0		
Channel				641334	650000	660000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	Pl2 BPSK	1	1	16.46	16.44	16.46	18.0		

Part270 n77 HPUE Ant 8									
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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	Pl2 BPSK	1	1	19.35	19.49	19.31			
100	Pl2 BPSK	1	137	19.23	19.33	19.24	21.0		
100	Pl2 BPSK	1	271	19.24	19.28	19.29			
100	Pl2 BPSK	135	0	19.24	19.32	19.29	21.0		
100	Pl2 BPSK	135	69	19.32	19.46	19.33	21.0		
100	Pl2 BPSK	135	138	19.27	19.34	19.30	21.0		
100	Pl2 BPSK	270	0	19.25	19.33	19.26			
100	QPSK	1	1	19.24	19.35	19.24			
100	QPSK	1	137	19.15	19.28	19.16	21.0		
100	QPSK	1	271	19.20	19.21	19.15			
100	QPSK	135	0	19.17	19.34	19.24	21.0		
100	QPSK	135	69	19.24	19.26	19.26	21.0		
100	QPSK	135	138	19.14	19.27	19.15	21.0		
100	QPSK	270	0	19.10	19.24	19.20	21.0		
100	16QAM	1	1	19.19	19.20	19.13	21.0		
100	64QAM	1	1	19.14	19.10	19.04	21.0		
100	256QAM	1	1	18.36	18.50	18.37	20.0		
Channel				645334	650000	655666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	Pl2 BPSK	1	1	19.20	19.30	19.12	21.0		
Channel				646668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.02	3840	3940.01			
60	Pl2 BPSK	1	1	19.15	19.25	19.11	21.0		
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	Pl2 BPSK	1	1	19.10	19.18	19.10	21.0		
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	Pl2 BPSK	1	1	19.09	19.29	19.13	21.0		
Channel				641334	650000	660000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	Pl2 BPSK	1	1	19.15	19.26	19.10	21.0		



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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								
Frequency (MHz)				3500.01				
100	Pl2 BPSK	1	1	17.75				
100	Pl2 BPSK	1	137	17.71			18.0	0.0
100	Pl2 BPSK	1	271	17.64				
100	Pl2 BPSK	135	0	17.67			18.0	0.0
100	Pl2 BPSK	135	69	17.71			18.0	0.0
100	Pl2 BPSK	135	138	17.64			18.0	0.0
100	Pl2 BPSK	270	0	17.68			18.0	0.0
100	QPSK	1	1	17.67				
100	QPSK	1	137	17.69			18.0	0.0
100	QPSK	1	271	17.60				
100	QPSK	135	0	17.58			18.0	0.0
100	QPSK	135	69	17.68			18.0	0.0
100	QPSK	135	138	17.60			18.0	0.0
100	QPSK	270	0	17.56			18.0	0.0
100	16QAM	1	1	17.65			18.0	0.0
100	64QAM	1	1	17.58			18.0	0.0
100	256QAM	1	1	17.53			18.0	0.0
Channel				632068	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480.02	3500.01	3510		
80	Pl2 BPSK	1	1	17.68	17.63	17.69	18.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3440	3500.01	3560.02		
60	Pl2 BPSK	1	1	17.68	17.62	17.69	18.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	Pl2 BPSK	1	1	17.55	17.55	17.68	18.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	Pl2 BPSK	1	1	17.64	17.61	17.63	18.0	0.0
Channel				632000	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	Pl2 BPSK	1	1	17.63	17.58	17.66	18.0	0.0

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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								
Frequency (MHz)				3500.01				
100	Pl2 BPSK	1	1	20.21				
100	Pl2 BPSK	1	137	20.04			21.0	0.0
100	Pl2 BPSK	1	271	19.98				
100	Pl2 BPSK	135	0	20.00			21.0	0.0
100	Pl2 BPSK	135	69	20.20			21.0	0.0
100	Pl2 BPSK	135	138	20.01			21.0	0.0
100	Pl2 BPSK	270	0	20.00			21.0	0.0
100	QPSK	1	1	20.02				
100	QPSK	1	137	20.02			21.0	0.0
100	QPSK	1	271	19.96				
100	QPSK	135	0	19.99			21.0	0.0
100	QPSK	135	69	20.03			21.0	0.0
100	QPSK	135	138	19.91			21.0	0.0
100	QPSK	270	0	19.95			21.0	0.0
100	16QAM	1	1	20.06			21.0	0.0
100	64QAM	1	1	20.15			21.0	0.0
100	256QAM	1	1	19.75			19.5	1.5
Channel				632068	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480.02	3500.01	3510		
80	Pl2 BPSK	1	1	19.48	19.43	19.53	21.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3440	3500.01	3560.02		
60	Pl2 BPSK	1	1	19.40	19.34	19.42	21.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	Pl2 BPSK	1	1	19.43	19.41	19.47	21.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	Pl2 BPSK	1	1	19.44	19.40	19.42	21.0	0.0
Channel				632000	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	Pl2 BPSK	1	1	19.36	19.39	19.46	21.0	0.0

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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								
Frequency (MHz)				3750				
100	Pl2 BPSK	1	1	16.51				
100	Pl2 BPSK	1	137	16.41			18.0	0.0
100	Pl2 BPSK	1	271	16.44				
100	Pl2 BPSK	135	0	16.45			18.0	0.0
100	Pl2 BPSK	135	69	16.49			18.0	0.0
100	Pl2 BPSK	135	138	16.35			18.0	0.0
100	Pl2 BPSK	270	0	16.44			18.0	0.0
100	QPSK	1	1	16.42				
100	QPSK	1	137	16.37			18.0	0.0
100	QPSK	1	271	16.36				
100	QPSK	135	0	16.25			18.0	0.0
100	QPSK	135	69	16.29			18.0	0.0
100	QPSK	135	138	16.25			18.0	0.0
100	QPSK	270	0	16.38			18.0	0.0
100	16QAM	1	1	16.43			18.0	0.0
100	64QAM	1	1	16.35			18.0	0.0
100	256QAM	1	1	14.86			16.5	1.5
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
80	Pl2 BPSK	1	1	16.37	16.45	16.42	18.0	0.0
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	Pl2 BPSK	1	1	16.30	16.42	16.34	18.0	0.0
Channel				648000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	Pl2 BPSK	1	1	16.34	16.53	16.29	18.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	Pl2 BPSK	1	1	16.26	16.30	16.34	18.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	Pl2 BPSK	1	1	16.30	16.37	16.37	18.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3726	3766	3786		
40	Pl2 BPSK	1	1	16.27	16.36	16.30	18.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	Pl2 BPSK	1	1	16.29	16.38	16.30	18.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	Pl2 BPSK	1	1	16.27	16.41	16.37	18.0	0.0



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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								
Frequency (MHz)				3750				
100	Pi2 BPSK	1	1	19.12			21.0	0.0
100	Pi2 BPSK	1	137	19.20				
100	Pi2 BPSK	1	271	19.22				
100	Pi2 BPSK	135	0	19.18			21.0	0.0
100	Pi2 BPSK	135	69	19.26			21.0	0.0
100	Pi2 BPSK	135	138	19.24			21.0	0.0
100	Pi2 BPSK	270	0	19.26			21.0	0.0
100	QPSK	1	1	19.27			21.0	0.0
100	QPSK	1	137	19.21				
100	QPSK	1	271	19.08				
100	QPSK	135	0	19.21			21.0	0.0
100	QPSK	135	69	19.17			21.0	0.0
100	QPSK	135	138	19.13			21.0	0.0
100	QPSK	270	0	19.16			21.0	0.0
100	16QAM	1	1	19.11			21.0	0.0
100	64QAM	1	1	19.19			21.0	0.0
100	256QAM	1	1	17.41			19.5	1.5
Channel				640968	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	Pi2 BPSK	1	1	19.02	19.21	19.04	21.0	0.0
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3748.01	3750	3750.02		
80	Pi2 BPSK	1	1	19.09	19.21	19.07	21.0	0.0
Channel				648000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3750	3750	3765		
70	Pi2 BPSK	1	1	19.14	19.23	19.09	21.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3750.02	3750	3770.01		
60	Pi2 BPSK	1	1	19.09	19.14	19.05	21.0	0.0
Channel				647334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	Pi2 BPSK	1	1	19.03	19.23	19.09	21.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	Pi2 BPSK	1	1	19.13	19.18	19.00	21.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	Pi2 BPSK	1	1	19.14	19.22	19.00	21.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	Pi2 BPSK	1	1	19.07	19.16	19.08	21.0	0.0

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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								
Frequency (MHz)				3500.01				
100	Pi2 BPSK	1	1	17.71			18.0	0.0
100	Pi2 BPSK	1	137	17.59				
100	Pi2 BPSK	1	271	17.50				
100	Pi2 BPSK	135	0	17.54			18.0	0.0
100	Pi2 BPSK	135	69	17.66			18.0	0.0
100	Pi2 BPSK	135	138	17.58			18.0	0.0
100	Pi2 BPSK	270	0	17.63			18.0	0.0
100	QPSK	1	1	17.62			18.0	0.0
100	QPSK	1	137	17.57				
100	QPSK	1	271	17.53				
100	QPSK	135	0	17.51			18.0	0.0
100	QPSK	135	69	17.59			18.0	0.0
100	QPSK	135	138	17.51			18.0	0.0
100	QPSK	270	0	17.56			18.0	0.0
100	16QAM	1	1	17.51			18.0	0.0
100	64QAM	1	1	17.09			18.0	0.0
100	256QAM	1	1	16.52			17.0	1.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	Pi2 BPSK	1	1	17.55	17.48	17.61	18.0	0.0
Channel				630668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	Pi2 BPSK	1	1	17.54	17.51	17.52	18.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	Pi2 BPSK	1	1	17.53	17.51	17.52	18.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	Pi2 BPSK	1	1	17.52	17.50	17.62	18.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	Pi2 BPSK	1	1	17.57	17.57	17.61	18.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	Pi2 BPSK	1	1	17.61	17.48	17.52	18.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	Pi2 BPSK	1	1	17.56	17.47	17.60	18.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	Pi2 BPSK	1	1	17.51	17.48	17.58	18.0	0.0

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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								
Frequency (MHz)				3500.01				
100	Pi2 BPSK	1	1	20.01			21.0	0.0
100	Pi2 BPSK	1	137	19.90				
100	Pi2 BPSK	1	271	19.94				
100	Pi2 BPSK	135	0	19.87			21.0	0.0
100	Pi2 BPSK	135	69	19.96			21.0	0.0
100	Pi2 BPSK	135	138	19.91			21.0	0.0
100	Pi2 BPSK	270	0	19.90			21.0	0.0
100	QPSK	1	1	19.94			21.0	0.0
100	QPSK	1	137	19.92				
100	QPSK	1	271	19.88				
100	QPSK	135	0	19.91			21.0	0.0
100	QPSK	135	69	19.96			21.0	0.0
100	QPSK	135	138	19.87			21.0	0.0
100	QPSK	270	0	19.96			21.0	0.0
100	16QAM	1	1	19.92			21.0	0.0
100	64QAM	1	1	19.88			21.0	0.0
100	256QAM	1	1	19.93			20.0	1.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	Pi2 BPSK	1	1	19.39	19.27	19.44	21.0	0.0
Channel				630668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	Pi2 BPSK	1	1	19.37	19.34	19.30	21.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	Pi2 BPSK	1	1	19.32	19.35	19.38	21.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	Pi2 BPSK	1	1	19.36	19.29	19.36	21.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	Pi2 BPSK	1	1	19.37	19.34	19.47	21.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	Pi2 BPSK	1	1	19.41	19.33	19.35	21.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	Pi2 BPSK	1	1	19.38	19.34	19.42	21.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	Pi2 BPSK	1	1	19.31	19.36	19.40	21.0	0.0



Part270 n77 Ant 9									
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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	Pl2 BPSK	1	1	23.31	23.48	23.42	24.0	0.0	
100	Pl2 BPSK	1	137	23.22	23.14	23.17			
100	Pl2 BPSK	1	271	23.04	23.28	23.11			
100	Pl2 BPSK	135	0	23.08	23.21	23.10	23.5	0.5	
100	Pl2 BPSK	135	69	23.19	23.38	23.22	24.0	0.0	
100	Pl2 BPSK	135	138	22.99	23.12	23.04	23.5	0.5	
100	Pl2 BPSK	270	0	22.81	22.88	22.83	24.0	0.0	
100	QPSK	1	1	22.45	22.67	22.50			
100	QPSK	1	137	22.31	22.28	22.24			
100	QPSK	1	271	22.38	22.47	22.21	23.0	1.0	
100	QPSK	135	0	21.58	21.78	21.74			
100	QPSK	135	69	22.24	22.26	22.11			
100	QPSK	135	138	21.29	21.35	21.26	23.0	1.0	
100	QPSK	270	0	21.26	21.41	21.32	23.0	1.0	
100	16QAM	1	1	21.85	21.66	21.59	23.0	1.0	
100	64QAM	1	1	20.11	20.15	20.03	21.5	2.5	
100	256QAM	1	1	18.58	18.71	18.72	19.5	4.5	
Channel				640000	650000	660000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	Pl2 BPSK	1	1	23.30	23.37	23.32	24.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.02	3840	3940.03			
60	Pl2 BPSK	1	1	23.31	23.42	23.38	24.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	Pl2 BPSK	1	1	23.37	23.37	23.41	24.0	0.0	
Channel				647668	656000	665334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	Pl2 BPSK	1	1	23.24	23.40	23.37	24.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	Pl2 BPSK	1	1	23.33	23.41	23.26	24.0	0.0	

Part270 n77 HPUE Ant 9									
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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	Pl2 BPSK	1	1	25.52	25.62	25.58	26.0	0.0	
100	Pl2 BPSK	1	137	25.21	25.27	25.17			
100	Pl2 BPSK	1	271	24.89	25.00	24.83			
100	Pl2 BPSK	135	0	24.74	24.91	24.76	25.5	0.5	
100	Pl2 BPSK	135	69	25.31	25.43	25.38	26.0	0.0	
100	Pl2 BPSK	135	138	24.53	24.59	24.48	25.5	0.5	
100	Pl2 BPSK	270	0	24.49	24.51	24.47	25.0	1.0	
100	QPSK	1	1	24.58	24.69	24.52			
100	QPSK	1	137	24.17	24.22	24.13			
100	QPSK	1	271	24.10	24.27	24.06	24.0	2.0	
100	QPSK	135	0	23.56	23.57	23.38			
100	QPSK	135	69	24.05	24.13	24.08			
100	QPSK	135	138	23.08	23.15	23.11	24.0	2.0	
100	QPSK	270	0	23.06	23.21	23.10	24.0	2.0	
100	16QAM	1	1	23.05	23.09	23.02	24.0	2.0	
100	64QAM	1	1	21.51	21.65	21.58	22.5	3.5	
100	256QAM	1	1	19.54	19.71	19.54	21.0	5.0	
Channel				640000	650000	660000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	Pl2 BPSK	1	1	25.40	25.59	25.58	26.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.02	3840	3940.03			
60	Pl2 BPSK	1	1	25.43	25.55	25.57	26.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	Pl2 BPSK	1	1	25.37	25.48	25.39	26.0	0.0	
Channel				647668	656000	665334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	Pl2 BPSK	1	1	25.41	25.45	25.49	26.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	Pl2 BPSK	1	1	25.45	25.53	25.52	26.0	0.0	

Part270Q n77 Ant 9									
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				630000	633334	636668			
Frequency (MHz)				3500.01					
100	Pl2 BPSK	1	1	23.77			24.0	0.0	
100	Pl2 BPSK	1	137	23.37					
100	Pl2 BPSK	1	271	23.37					
100	Pl2 BPSK	135	0	23.39			23.5	0.5	
100	Pl2 BPSK	135	69	23.63			24.0	0.0	
100	Pl2 BPSK	135	138	23.34			23.5	0.5	
100	Pl2 BPSK	270	0	23.18			23.0	1.0	
100	QPSK	1	1	22.85					
100	QPSK	1	137	22.46					
100	QPSK	1	271	22.56			22.0	2.0	
100	QPSK	135	0	22.59					
100	QPSK	135	69	22.59					
100	QPSK	135	138	21.52			22.0	2.0	
100	QPSK	270	0	21.59			22.0	2.0	
100	16QAM	1	1	21.74			20.5	3.5	
100	64QAM	1	1	20.19			19.0	5.0	
100	256QAM	1	1	18.63					
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480.02	3500.01	3510			
80	Pl2 BPSK	1	1	23.02	23.00	23.51	24.0	0.0	
Channel				630000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3490.03	3500.05			
60	Pl2 BPSK	1	1	23.49	23.67	23.65	24.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	Pl2 BPSK	1	1	23.63	23.68	23.62	24.0	0.0	
Channel				631000	633334	635968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	Pl2 BPSK	1	1	23.66	23.72	23.52	24.0	0.0	
Channel				630668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	Pl2 BPSK	1	1	23.74	23.67	23.59	24.0	0.0	



Part27Q n77 HPUE Ant 9									
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				3500.01					
Frequency (MHz)				24.53					
100	Pl2 BPSK	1	1		24.83		26.0	0.0	
100	Pl2 BPSK	1	137		24.82				
100	Pl2 BPSK	1	271		24.56				
100	Pl2 BPSK	135	0		24.21		25.5	0.5	
100	Pl2 BPSK	135	69		24.80		26.0	0.0	
100	Pl2 BPSK	135	138		24.36		25.5	0.5	
100	Pl2 BPSK	270	0		24.32				
100	QPSK	1	1		23.97				
100	QPSK	1	137		23.91		25.0	1.0	
100	QPSK	1	271		23.82				
100	QPSK	135	0		23.41		24.0	2.0	
100	QPSK	135	69		23.84		25.0	1.0	
100	QPSK	135	138		23.11		24.0	2.0	
100	QPSK	270	0		23.20		24.0	2.0	
100	16QAM	1	1		23.07		24.0	2.0	
100	64QAM	1	1		21.07		22.0	4.0	
100	256QAM	1	1		20.02		21.0	5.0	
Channel				630968	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480.02	3500.01	3510	26.0	0.0	
80	Pl2 BPSK	1	1		24.79	24.77	24.74	26.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3440	3500.01	3500.02	26.0	0.0	
80	Pl2 BPSK	1	1		24.76	24.81	24.76	26.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3500.01	26.0	0.0	
40	Pl2 BPSK	1	1		24.59	24.59	24.76	26.0	0.0
Channel				637000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485	3500.01	3535.02	26.0	0.0	
30	Pl2 BPSK	1	1		24.82	24.79	24.71	26.0	0.0
Channel				630000	633334	630000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480.02	3500.01	3540	26.0	0.0	
20	Pl2 BPSK	1	1		24.72	24.71	24.81	26.0	0.0

Part27O n78 Ant 9									
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				3750					
Frequency (MHz)				23.00					
100	Pl2 BPSK	1	1		23.12		24.0	0.0	
100	Pl2 BPSK	1	137		23.12				
100	Pl2 BPSK	1	271		23.08				
100	Pl2 BPSK	135	0		22.81		23.5	0.5	
100	Pl2 BPSK	135	69		23.17		24.0	0.0	
100	Pl2 BPSK	135	138		22.76		23.5	0.5	
100	Pl2 BPSK	270	0		22.63				
100	QPSK	1	1		22.15				
100	QPSK	1	137		21.89		23.0	1.0	
100	QPSK	1	271		22.05				
100	QPSK	135	0		21.56		22.0	2.0	
100	QPSK	135	69		22.11		23.0	1.0	
100	QPSK	135	138		21.09		22.0	2.0	
100	QPSK	270	0		21.17		22.0	2.0	
100	16QAM	1	1		21.30		22.0	2.0	
100	64QAM	1	1		19.79		20.5	3.5	
100	256QAM	1	1		18.28		19.0	5.0	
Channel				640968	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	24.0	0.0	
90	Pl2 BPSK	1	1		23.09	23.03	22.94	24.0	0.0
Channel				640334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	24.0	0.0	
80	Pl2 BPSK	1	1		23.09	23.03	22.96	24.0	0.0
Channel				640000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765	24.0	0.0	
70	Pl2 BPSK	1	1		22.95	23.13	22.91	24.0	0.0
Channel				640668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01	24.0	0.0	
60	Pl2 BPSK	1	1		23.07	23.01	23.00	24.0	0.0
Channel				640334	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	24.0	0.0	
50	Pl2 BPSK	1	1		22.97	23.12	22.96	24.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	24.0	0.0	
40	Pl2 BPSK	1	1		23.11	23.02	22.92	24.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01	24.0	0.0	
30	Pl2 BPSK	1	1		23.06	23.04	22.95	24.0	0.0
Channel				647334	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	24.0	0.0	
20	Pl2 BPSK	1	1		22.95	23.15	22.86	24.0	0.0

Part27O n78 HPUE Ant 9									
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				3750					
Frequency (MHz)				23.07					
100	Pl2 BPSK	1	1		23.12		26.0	0.0	
100	Pl2 BPSK	1	137		24.96				
100	Pl2 BPSK	1	271		24.77				
100	Pl2 BPSK	135	0		24.35		25.5	0.5	
100	Pl2 BPSK	135	69		24.58		25.5	0.5	
100	Pl2 BPSK	135	138		24.59		25.5	0.5	
100	Pl2 BPSK	270	0		24.40				
100	QPSK	1	1		24.15				
100	QPSK	1	137		24.06		25.0	1.0	
100	QPSK	1	271		24.06				
100	QPSK	135	0		23.60		24.5	1.5	
100	QPSK	135	69		24.06		25.0	1.0	
100	QPSK	135	138		23.21		24.5	1.5	
100	QPSK	270	0		23.31		24.5	1.5	
100	16QAM	1	1		23.21		23.5	3.0	
100	64QAM	1	1		21.73		21.5	4.5	
100	256QAM	1	1		20.19		21.5	4.5	
Channel				649968	650000	650334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3745.02	3750	3755.01	26.0	0.0	
90	Pl2 BPSK	1	1		24.88	24.99	25.00	26.0	0.0
Channel				640334	650000	650668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3740.01	3750	3760.02	26.0	0.0	
80	Pl2 BPSK	1	1		24.91	24.95	24.98	26.0	0.0
Channel				640000	650000	651000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3735	3750	3765	26.0	0.0	
70	Pl2 BPSK	1	1		25.04	24.96	25.03	26.0	0.0
Channel				640668	650000	651334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3730.02	3750	3770.01	26.0	0.0	
60	Pl2 BPSK	1	1		24.85	25.05	24.85	26.0	0.0
Channel				640334	650000	651000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3725.01	3750	3775.02	26.0	0.0	
50	Pl2 BPSK	1	1		25.00	25.00	24.91	26.0	0.0
Channel				648000	650000	652000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3720	3750	3780	26.0	0.0	
40	Pl2 BPSK	1	1		24.83	24.81	24.98	26.0	0.0
Channel				647668	650000	652334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3715.02	3750	3785.01	26.0	0.0	
30	Pl2 BPSK	1	1		24.98	24.90	25.02	26.0	0.0
Channel				647334	650000	652000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3710.01	3750	3790.02	26.0	0.0	
20	Pl2 BPSK	1	1		24.97	25.02	24.84	26.0	0.0

Part27Q n78 Ant 9								
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				633334		3500.01	24.0	0.0
Frequency (MHz)				23.33				
100	PI2 BPSK	1	1	23.43				
100	PI2 BPSK	1	137	23.33				
100	PI2 BPSK	1	271	23.17			23.5	0.5
100	PI2 BPSK	135	0	23.39			24.0	0.0
100	PI2 BPSK	135	69	23.00			23.5	0.5
100	PI2 BPSK	135	138	22.88				
100	PI2 BPSK	270	0	22.42			23.0	1.0
100	QPSK	1	1	22.25				
100	QPSK	1	137	22.22				
100	QPSK	1	271	21.76				
100	QPSK	135	0	22.39			22.0	2.0
100	QPSK	135	69	21.37			23.0	1.0
100	QPSK	135	138	21.27			22.0	2.0
100	QPSK	270	0	21.59			22.0	2.0
100	16QAM	1	1	20.01				
100	64QAM	1	1	18.52			20.5	3.5
100	256QAM	1	1	633330		633334	19.0	5.0
Channel				633334		3500.01	24.0	0.0
Frequency (MHz)				3485		3505.02		
90	PI2 BPSK	1	1	23.36		23.37	23.22	24.0
Channel				632068		633334	634000	Tune-up limit MPR
Frequency (MHz)				3480.02		3500.01	3510	(dBm) (dB)
Channel				632234		633334	634334	Tune-up limit MPR
Frequency (MHz)				3483.01		3500.01	3515.01	(dBm) (dB)
80	PI2 BPSK	1	1	23.34		23.32	23.29	24.0
Channel				632000		633334	634668	Tune-up limit MPR
Frequency (MHz)				3480		3500.01	3520.02	(dBm) (dB)
60	PI2 BPSK	1	1	23.36		23.46	23.24	24.0
Channel				631064		633334	635000	Tune-up limit MPR
Frequency (MHz)				3475.02		3500.01	3525	(dBm) (dB)
50	PI2 BPSK	1	1	23.39		23.42	23.25	24.0
Channel				631334		633334	635334	Tune-up limit MPR
Frequency (MHz)				3478.01		3500.01	3528.01	(dBm) (dB)
40	PI2 BPSK	1	1	23.23		23.35	23.19	24.0
Channel				631000		633334	635668	Tune-up limit MPR
Frequency (MHz)				3465		3500.01	3535.02	(dBm) (dB)
30	PI2 BPSK	1	1	23.32		23.44	23.21	24.0
Channel				630505		633334	636000	Tune-up limit MPR
Frequency (MHz)				3460.02		3500.01	3540	(dBm) (dB)
20	PI2 BPSK	1	1	23.21		23.35	23.43	24.0

Part27Q n78 HPUE Ant 9								
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				633334		3500.01	26.0	0.0
Frequency (MHz)				24.65				
100	PI2 BPSK	1	1	24.62				
100	PI2 BPSK	1	137	24.62				
100	PI2 BPSK	1	271	24.17			25.5	0.5
100	PI2 BPSK	135	0	24.62			26.0	0.0
100	PI2 BPSK	135	69	24.26			25.5	0.5
100	PI2 BPSK	135	138	24.16				
100	PI2 BPSK	270	0	23.92			25.0	1.0
100	QPSK	1	1	23.87				
100	QPSK	1	137	23.81				
100	QPSK	1	271	23.41				
100	QPSK	135	0	23.88			24.5	1.5
100	QPSK	135	69	22.86			25.0	1.0
100	QPSK	135	138	22.56			24.5	1.5
100	QPSK	270	0	23.05			24.5	1.5
100	16QAM	1	1	22.93				
100	64QAM	1	1	21.41			23.0	3.0
100	256QAM	1	1	633330		633334	21.5	4.5
Channel				633334		3500.01	26.0	0.0
Frequency (MHz)				3485		3505.02		
90	PI2 BPSK	1	1	24.75		24.70	24.82	26.0
Channel				632068		633334	634000	Tune-up limit MPR
Frequency (MHz)				3480.02		3500.01	3510	(dBm) (dB)
Channel				632234		633334	634334	Tune-up limit MPR
Frequency (MHz)				3483.01		3500.01	3515.01	(dBm) (dB)
80	PI2 BPSK	1	1	24.63		24.81	24.57	26.0
Channel				632000		633334	634668	Tune-up limit MPR
Frequency (MHz)				3480		3500.01	3520.02	(dBm) (dB)
60	PI2 BPSK	1	1	24.77		24.81	24.60	26.0
Channel				631064		633334	635000	Tune-up limit MPR
Frequency (MHz)				3475.02		3500.01	3525	(dBm) (dB)
50	PI2 BPSK	1	1	24.70		24.83	24.66	26.0
Channel				631334		633334	635334	Tune-up limit MPR
Frequency (MHz)				3478.01		3500.01	3528.01	(dBm) (dB)
40	PI2 BPSK	1	1	24.64		24.80	24.77	26.0
Channel				631000		633334	635668	Tune-up limit MPR
Frequency (MHz)				3465		3500.01	3535.02	(dBm) (dB)
30	PI2 BPSK	1	1	24.65		24.69	24.69	26.0
Channel				630505		633334	636000	Tune-up limit MPR
Frequency (MHz)				3460.02		3500.01	3540	(dBm) (dB)
20	PI2 BPSK	1	1	24.81		24.78	24.96	26.0

DL CA Power

2CA DL

CA List	PCC										SCC					Power	
	LTE	BW	BW	UL	UL	UL#	UL	DL Antenna Configuration			LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
	Band	Ant	(MHz)	Freq. Channel	Mod.	RB	RB Offset				Band	(MHz)	Freq. Channel			Tx. Power (dBm)	Tx. Power (dBm)
			(MHz)														
CA_2C	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO		Band 2	20M	1960	1098	4x4MIMO	22.47	22.61
CA_2A-4A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO		Band 4	20M	2133	2175	4x4MIMO	22.39	22.61
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO		Band 2	20M	1960	900	4x4MIMO	22.19	22.31
CA_2A-12A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO		Band 12	10M	737.5	5095		22.45	22.61
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0			Band 2	20M	1960	900	4x4MIMO	22.50	22.57
CA_2A-13A	Band 12	Ant1	10M	707.5	23095	QPSK	1	0			Band 2	20M	1960	900	4x4MIMO	21.81	21.99
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO		Band 13	10M	751	5230		22.45	22.61
CA_4A-7A	Band 4	Ant0	10M	1732.5	20175	QPSK	1	0	4x4MIMO		Band 7	20M	2655	3100	4x4MIMO	22.25	22.31
	Band 7	Ant6	20M	2535	21100	QPSK	1	0	4x4MIMO		Band 4	20M	2133	2175	4x4MIMO	22.39	22.56
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO		Band 4	20M	2133	2175	4x4MIMO	21.13	21.29
	Band 7	Ant5	20M	2535	21100	QPSK	1	0	4x4MIMO		Band 4	20M	2133	2175	4x4MIMO	21.59	21.75
	Band 7	Ant7	20M	2535	21100	QPSK	1	0	4x4MIMO		Band 4	20M	2133	2175	4x4MIMO	20.38	20.49
	Band 4	Ant0	10M	1732.5	20175	QPSK	1	0	4x4MIMO		Band 17	10M	740	5790		22.21	22.31
CA_4A-17A	Band 17	Ant0	10M	710	23790	QPSK	1	0			Band 4	10M	2133	2175	4x4MIMO	22.56	22.64
	Band 17	Ant1	10M	710	23790	QPSK	1	0			Band 4	10M	2133	2175	4x4MIMO	21.76	21.82
CA_5B	Band 5	Ant0	10M	836.5	20525	QPSK	1	0			Band 5	5M	888.7	2597		22.81	22.85
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0			Band 5	5M	888.7	2597		22.16	22.21
CA_5A-7A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0			Band 7	20M	2655	3100	4x4MIMO	22.73	22.85
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0			Band 7	20M	2655	3100	4x4MIMO	22.13	22.21
	Band 7	Ant6	20M	2535	21100	QPSK	1	0	4x4MIMO		Band 5	10M	881.5	2525		22.39	22.56
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO		Band 5	10M	881.5	2525		21.16	21.29
	Band 7	Ant5	20M	2535	21100	QPSK	1	0	4x4MIMO		Band 5	10M	881.5	2525		21.50	21.75
	Band 7	Ant7	20M	2535	21100	QPSK	1	0	4x4MIMO		Band 5	10M	881.5	2525		20.31	20.49
CA_5A-38A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0			Band 38	20M	2595	38000	4x4MIMO	22.65	22.85
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0			Band 38	20M	2595	38000	4x4MIMO	22.09	22.21
CA_7C	Band 7	Ant6	20M	2535	21100	QPSK	1	0	4x4MIMO		Band 7	20M	2555	3298	4x4MIMO	22.39	22.56
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO		Band 7	20M	2555	3298	4x4MIMO	21.27	21.29
	Band 7	Ant5	20M	2535	21100	QPSK	1	0	4x4MIMO		Band 7	20M	2555	3298	4x4MIMO	21.71	21.75
	Band 7	Ant7	20M	2535	21100	QPSK	1	0	4x4MIMO		Band 7	20M	2555	3298	4x4MIMO	20.47	20.49
CA_12B	Band 12	Ant0	10M	707.5	23095	QPSK	1	0			Band 12	5M	743.5	5155		22.48	22.57
	Band 12	Ant1	10M	707.5	23095	QPSK	1	0			Band 12	5M	743.5	5155		21.88	21.99
CA_38C	Band 38	Ant6	20M	2580	37850	QPSK	1	0	4x4MIMO		Band 38	20M	2600	38048	4x4MIMO	22.18	22.29
	Band 38	Ant1	20M	2580	37850	QPSK	1	0	4x4MIMO		Band 38	20M	2600	38048	4x4MIMO	22.41	22.45
	Band 38	Ant5	20M	2580	37850	QPSK	1	0	4x4MIMO		Band 38	20M	2600	38048	4x4MIMO	22.62	22.69
	Band 38	Ant7	20M	2580	37850	QPSK	1	0	4x4MIMO		Band 38	20M	2600	38048	4x4MIMO	21.24	21.27
CA_41C	Band 41	Ant6	20M	2593	40620	QPSK	1	0	4x4MIMO		Band 41	20M	2613	40818	4x4MIMO	22.13	22.26
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO		Band 41	20M	2613	40818	4x4MIMO	22.31	22.45
	Band 41	Ant5	20M	2593	40620	QPSK	1	0	4x4MIMO		Band 41	20M	2613	40818	4x4MIMO	22.55	22.65
	Band 41	Ant7	20M	2593	40620	QPSK	1	0	4x4MIMO		Band 41	20M	2613	40818	4x4MIMO	21.09	21.28
CA_48C	Band 48	Ant8	20M	3609	55830	QPSK	1	0	4x4MIMO		Band 48	20M	3629	56028	4x4MIMO	23.41	23.49
CA_48A-66A	Band 48	Ant8	20M	3609	55830	QPSK	1	0	4x4MIMO		Band 66	20M	2155	66886	4x4MIMO	23.37	23.49
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO		Band 48	20M	3609	55830	4x4MIMO	22.25	22.39
CA_66B	Band 66	Ant0	15M	1745	132322	QPSK	1	0	4x4MIMO		Band 66	5M	2164	66979	4x4MIMO	22.31	22.39
CA_66C	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO		Band 66	20M	2175	67084	4x4MIMO	22.35	22.39

3CA DL

3CA List	PCC									SCC1					SCC2				Power		
	LTE	BW	BW	UL	UL		UL#	UL	DL Antenna	LTE	BW	DL	DL	DL Antenna	LTE	BW	DL	DL	DL Antenna	With CA	Without CA
	Band	Ant	(MHz)	Freq.	Channel	Mod.	RB	RB	Offset	Band	(MHz)	Freq.	Channel	Configuration	Band	(MHz)	Freq.	Channel	Configuration	Tx. Power	Tx. Power
				(MHz)								(MHz)					(MHz)			(dBm)	(dBm)
CA_2A-5A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MIMO	22.45	22.61
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.81	22.85
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.20	22.21
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 5	10M	881.5	2525		22.25	22.39
CA_2A-7A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	22.49	22.61
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.36	22.56
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	21.12	21.29
	Band 7	Ant5	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	21.60	21.75

