

ANT2				DSI 1/5			
GSM850				Burst Average Power (dBm)			
TX Channel				128	189	251	Tune-up Limit (dBm)
Frequency (MHz)				824.2	836.4	848.8	
GSM 1 Tx slot	31.06	31.30	31.07	31.50	22.06	22.30	22.07
GPRS 1 Tx slot	31.05	31.29	31.05	31.50	22.05	22.29	22.05
GPRS 2 Tx slots	28.06	28.37	28.04	28.50	22.06	22.37	22.04
GPRS 3 Tx slots	26.02	26.64	26.50	26.70	21.76	22.38	22.24
GPRS 4 Tx slots	24.76	25.17	25.02	25.50	21.76	22.17	22.02
EDGE 1 Tx slot	25.05	25.37	25.01	26.00	16.05	16.37	16.01
EDGE 2 Tx slots	21.97	22.01	21.88	23.00	15.97	16.01	15.89
EDGE 3 Tx slots	19.91	20.31	20.49	21.20	15.65	16.05	16.23
EDGE 4 Tx slots	18.72	19.10	19.14	20.00	15.72	16.10	16.14

ANT2				DSI 1/5			
Band				WCDMA V			
TX Channel				4132	4182	4233	Tune-up Limit (dBm)
Rx Channel				4357	4407	4458	
Frequency (MHz)				835.4	835.4	848.6	
3GPP Rel 99	AMR 12.2Kbps	22.67	22.68	22.62	23.00		
3GPP Rel 99	RMC 12.2Kbps	22.65	22.68	22.63	23.00		
3GPP Rel 6	HSDPA Subtest-1	21.44	21.35	21.36	22.00		
3GPP Rel 6	HSDPA Subtest-2	21.40	21.42	21.41	22.00		
3GPP Rel 6	HSDPA Subtest-3	20.89	20.96	20.86	21.50		
3GPP Rel 6	HSDPA Subtest-4	20.94	20.95	20.83	21.50		
3GPP Rel 8	DC-HSDPA Subtest-1	21.37	21.36	21.26	22.00		
3GPP Rel 8	DC-HSDPA Subtest-2	21.38	21.38	21.32	22.00		
3GPP Rel 8	DC-HSDPA Subtest-3	20.87	20.89	20.82	21.50		
3GPP Rel 8	DC-HSDPA Subtest-4	20.85	20.84	20.84	21.50		
3GPP Rel 6	HSUPA Subtest-1	21.36	21.43	21.41	22.00		
3GPP Rel 6	HSUPA Subtest-2	19.36	19.42	19.36	20.00		
3GPP Rel 6	HSUPA Subtest-3	20.43	20.38	20.37	21.00		
3GPP Rel 6	HSUPA Subtest-4	19.47	19.42	19.30	20.00		
3GPP Rel 6	HSUPA Subtest-5	21.41	21.43	21.39	22.00		

ANT2_Band 5 DSI 1/5									
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				20450	20525	20600	21.5	0	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	0	20.52	20.77	20.47			
10	QPSK	1	25	20.65	20.67	20.73			
10	QPSK	1	49	20.66	20.66	20.68	21.5	0	
10	QPSK	25	0	20.57	20.70	20.63			
10	QPSK	25	12	20.61	20.60	20.62			
10	QPSK	25	25	20.62	20.66	20.68			
10	QPSK	50	0	20.59	20.69	20.62	21.5	0	
10	16QAM	1	0	20.62	20.65	20.66			
10	16QAM	1	25	20.67	20.65	20.67			
10	16QAM	1	49	20.69	20.63	20.64			
10	16QAM	25	0	20.54	20.60	20.60	21.5	0	
10	16QAM	25	12	20.58	20.69	20.64			
10	16QAM	25	25	20.61	20.70	20.63			
10	16QAM	50	0	20.58	20.70	20.62			
10	64QAM	1	0	20.66	20.67	20.69	21.5	0	
10	64QAM	1	25	20.65	20.69	20.66			
10	64QAM	1	49	20.67	20.64	20.67			
10	64QAM	25	0	20.58	20.62	20.64			
10	64QAM	25	12	20.59	20.61	20.66	21.5	0	
10	64QAM	25	25	20.61	20.68	20.65			
10	64QAM	50	0	20.45	20.69	20.64			
Channel				20425	20525	20625	21.5	0	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	20.43	20.61	20.64			
5	QPSK	1	12	20.52	20.57	20.56			
5	QPSK	1	24	20.54	20.53	20.45	21.5	0	
5	QPSK	12	0	20.62	20.64	20.64			
5	QPSK	12	7	20.61	20.65	20.60			
5	QPSK	12	13	20.60	20.60	20.53			
5	QPSK	25	0	20.60	20.64	20.58	21.5	0	
5	16QAM	1	0	20.69	20.68	20.67			
5	16QAM	1	12	20.54	20.63	20.61			
5	16QAM	1	24	20.67	20.64	20.50			
5	16QAM	12	0	20.62	20.64	20.62	21.5	0	
5	16QAM	12	7	20.66	20.70	20.62			
5	16QAM	12	13	20.63	20.59	20.54			
5	16QAM	25	0	20.63	20.64	20.62			
5	64QAM	1	0	20.56	20.56	20.60	21.5	0	
5	64QAM	1	12	20.55	20.49	20.51			
5	64QAM	1	24	20.54	20.55	20.40			
5	64QAM	12	0	20.58	20.62	20.64			
5	64QAM	12	7	20.62	20.65	20.60	21.5	0	
5	64QAM	12	13	20.58	20.58	20.54			
5	64QAM	25	0	20.63	20.65	20.58			
Channel				20415	20525	20635	21.5	0	
Frequency (MHz)				825.5	836.5	847.5			
3	QPSK	1	0	20.54	20.57	20.64			
3	QPSK	1	8	20.59	20.63	20.61			
3	QPSK	1	14	20.52	20.53	20.53	21.5	0	
3	QPSK	8	0	20.68	20.71	20.68			
3	QPSK	8	4	20.67	20.71	20.68			
3	QPSK	8	7	20.62	20.69	20.63			
3	QPSK	15	0	20.63	20.66	20.67	21.5	0	
3	16QAM	1	0	20.62	20.63	20.65			
3	16QAM	1	8	20.65	20.64	20.66			
3	16QAM	1	14	20.56	20.56	20.59			
3	16QAM	8	0	20.70	20.73	20.74	21.5	0	
3	16QAM	8	4	20.71	20.73	20.72			
3	16QAM	8	7	20.62	20.72	20.66			
3	16QAM	15	0	20.66	20.69	20.70			
3	64QAM	1	0	20.51	20.62	20.68	21.5	0	
3	64QAM	1	8	20.51	20.61	20.58			
3	64QAM	1	14	20.56	20.54	20.53			
3	64QAM	8	0	20.67	20.70	20.71			
3	64QAM	8	4	20.69	20.73	20.70	21.5	0	
3	64QAM	8	7	20.62	20.65	20.61			
3	64QAM	15	0	20.63	20.65	20.65			
Channel				20407	20525	20643	21.5	0	
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	20.49	20.15	20.49			
1.4	QPSK	1	3	20.51	20.34	20.53			
1.4	QPSK	1	5	20.43	20.31	20.48	21.5	0	
1.4	QPSK	3	0	20.48	20.40	20.54			
1.4	QPSK	3	1	20.51	20.48	20.55			
1.4	QPSK	3	3	20.48	20.52	20.52			
1.4	QPSK	6	0	20.57	20.58	20.59	21.5	0	
1.4	16QAM	1	0	20.59	20.59	20.61			
1.4	16QAM	1	3	20.60	20.64	20.61			
1.4	16QAM	1	5	20.50	20.55	20.58			
1.4	16QAM	3	0	20.56	20.59	20.62	21.5	0	
1.4	16QAM	3	1	20.61	20.63	20.63			
1.4	16QAM	3	3	20.52	20.55	20.57			
1.4	16QAM	6	0	20.65	20.67	20.68			
1.4	64QAM	1	0	20.51	20.56	20.58	21.5	0	
1.4	64QAM	1	3	20.49	20.55	20.53			
1.4	64QAM	1	5	20.43	20.44	20.53			
1.4	64QAM	3	0	20.66	20.62	20.64			
1.4	64QAM	3	1	20.67	20.72	20.66	21.5	0	
1.4	64QAM	3	3	20.61	20.61	20.35			
1.4	64QAM	6	0	20.60	20.61	20.42			

ANT2_Band 12 DSI 1/5									
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				23060	23095	23130	22.5	0	
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	21.58	21.71	21.51			
10	QPSK	1	25	21.54	21.51	21.47			
10	QPSK	1	49	21.64	21.58	21.47	22.5	0	
10	QPSK	25	0	21.67	21.69	21.55			
10	QPSK	25	12	21.62	21.64	21.64			
10	QPSK	25	25	21.67	21.68	21.61			
10	QPSK	50	0	21.61	21.69	21.67	22.5	0	
10	16QAM	1	0	21.65	21.67	21.56			
10	16QAM	1	25	21.64	21.65	21.66			
10	16QAM	1	49	21.62	21.69	21.53			
10	16QAM	25	0	21.61	21.66	21.57	22.5	0	
10	16QAM	25	12	21.67	21.65	21.67			
10	16QAM	25	25	21.66	21.66	21.59			
10	16QAM	50	0	21.69	21.66	21.65			
10	64QAM	1	0	21.63	21.70	21.63	22.5	0	
10	64QAM	1	25	21.64	21.59	21.66			
10	64QAM	1	49	21.61	21.66	21.65			
10	64QAM	25	0	21.62	21.65	21.57			
10	64QAM	25	12	21.57	21.67	21.69	22.5	0	
10	64QAM	25	25	21.63	21.69	21.38			
10	64QAM	50	0	21.66	21.69	21.58			
Channel				23035	23095	23155	22.5	0	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	21.58	21.54	21.61			
5	QPSK	1	12	21.61	21.58	21.62			
5	QPSK	1	24	21.56	21.59	21.67	22.5	0	
5	QPSK	12	0	21.64	21.61	21.68			
5	QPSK	12	7	21.65	21.67	21.66			
5	QPSK	12	13	21.63	21.66	21.55			
5	QPSK	25	0	21.63	21.62	21.56	22.5	0	
5	16QAM	1	0	21.64	21.61	21.48			
5	16QAM	1	12	21.62	21.68	21.43			
5	16QAM	1	24	21.63	21.68	21.57	22.5	0	
5	16QAM	12	0	21.68	21.65	21.57			
5	16QAM	12	7	21.64	21.68	21.61			
5	16QAM	12	13	21.64	21.69	21.56			
5	16QAM	25	0	21.64	21.64	21.59	22.5	0	
5	64QAM	1	0	21.55	21.50	21.68			
5	64QAM	1	12	21.52	21.63	21.60			
5	64QAM	1	24	21.54	21.63	21.64			
5	64QAM	12	0	21.64	21.65	21.57	22.5	0	
5	64QAM	12	7	21.63	21.70	21.54			
5	64QAM	12	13	21.62	21.66	21.49			
5	64QAM	25	0	21.66	21.64	21.46			
Channel				23025	23095	23165	22.5	0	
Frequency (MHz)				700.5	707.5	714.5			
3	QPSK	1	0	21.49	21.45	21.48			
3	QPSK	1	8	21.54	21.53	21.40			
3	QPSK	1	14	21.51	21.47	21.44	22.5	0	
3	QPSK	8	0	21.56	21.53	21.50			
3	QPSK	8	4	21.62	21.58	21.58			
3	QPSK	8	7	21.60	21.60	21.54			
3	QPSK	15	0	21.60	21.57	21.49	22.5	0	
3	16QAM	1	0	21.59	21.52	21.56			
3	16QAM	1	8	21.55	21.64	21.63			
3	16QAM	1	14	21.59	21.50	21.54			
3	16QAM	8	0	21.60	21.59	21.56	22.5	0	
3	16QAM	8	4	21.66	21.65	21.63			
3	16QAM	8	7	21.65	21.64	21.59			
3	16QAM	15	0	21.64	21.59	21.53			
3	64QAM	1	0	21.53	21.42	21.49	22.5	0	
3	64QAM	1	8	21.47	21.55	21.48			
3	64QAM	1	14	21.50	21.60	21.46			
3	64QAM	8	0	21.58	21.58	21.50			
3	64QAM	8	4	21.64	21.65	21.60	22.5	0	
3	64QAM	8	7	21.58	21.60	21.53			
3	64QAM	15	0	21.64	21.59	21.52			
Channel				23017	23095	23173	22.5	0	
Frequency (MHz)				699.7	707.5	715.3			
1.4	QPSK	1	0	21.37	21.32	21.33			
1.4	QPSK	1	3	21.44	21.39	21.37			
1.4	QPSK	1	5	21.34	21.39	21.29	22.5	0	
1.4	QPSK	3	0	21.40	21.33	21.33			
1.4	QPSK	3	1	21.41	21.40	21.37			
1.4	QPSK	3	3	21.36	21.40	21.32			
1.4	QPSK	6	0	21.46	21.44	21.41	22.5	0	
1.4	16QAM	1	0	21.65	21.66	21.66			
1.4	16QAM	1	3	21.64	21.28	21.57			
1.4	16QAM	1	5	21.67	21.67	21.63	22.5	0	
1.4	16QAM	3	0	21.49	21.46	21.48			
1.4	16QAM	3	1	21.52	21.52	21.50			
1.4	16QAM	3	3	21.45	21.47	21.47			
1.4	16QAM	6	0	21.58	21.58	21.50	22.5	0	
1.4	64QAM	1	0	21.64	21.58	21.61			
1.4	64QAM	1	3	21.26	21.46	21.46			
1.4	64QAM	1	5	21.26	21.63	21.57	22.5	0	
1.4	64QAM	3	0	21.38	21.46	21.52			
1.4	64QAM	3	1	21.54	21.55	21.52			
1.4	64QAM	3	3	21.47	21.51	21.47			
1.4	64QAM	6	0	21.44	21.45	21.45	22.5	0	

ANT4

ANT4 Full power/DSI 1/3/4/5									
GSM1900		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	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot		29.70	29.66	29.29	30.00	20.70	20.66	20.29	21.00
GPRS 1 Tx slot		29.69	29.64	29.28	30.00	20.69	20.64	20.28	21.00
GPRS 2 Tx slots		26.77	26.93	26.61	27.00	20.77	20.93	20.61	21.00
GPRS 3 Tx slots		24.90	25.12	24.73	25.20	20.64	20.86	20.47	20.94
GPRS 4 Tx slots		23.70	23.98	23.61	24.00	20.70	20.98	20.61	21.00
EDGE 1 Tx slot		25.47	25.60	25.52	27.00	16.47	16.60	16.52	18.00
EDGE 2 Tx slots		22.95	22.76	22.59	24.00	16.95	16.76	16.59	18.00
EDGE 3 Tx slots		20.54	20.30	20.32	22.20	16.28	16.04	16.06	17.94
EDGE 4 Tx slots		19.64	19.70	19.41	21.00	16.64	16.70	16.41	18.00

ANT4 Full power/DSI4									
Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513	
Rx Channel		9662	9800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	AMR 12.2Kbps	23.99	23.82	23.73	25.00	24.22	24.27	24.31	25.00
3GPP Rel 99	RMC 12.2Kbps	23.84	24.21	23.74	25.00	24.24	24.28	24.33	25.00
3GPP Rel 6	HSDPA Subtest-1	23.05	23.07	22.90	24.00	23.20	23.13	23.06	24.00
3GPP Rel 6	HSDPA Subtest-2	22.55	22.60	22.31	24.00	22.68	22.66	22.55	24.00
3GPP Rel 6	HSDPA Subtest-3	23.02	22.74	22.90	23.50	23.20	23.10	23.11	23.50
3GPP Rel 6	HSDPA Subtest-4	23.07	23.09	22.90	23.50	23.19	23.13	23.06	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.99	22.98	22.80	24.00	23.11	23.07	23.00	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.49	22.51	22.23	24.00	22.62	22.60	22.47	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.93	22.65	22.82	23.50	23.12	23.01	23.02	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.98	23.01	22.81	23.50	23.11	23.08	22.97	23.50
3GPP Rel 6	HSUPA Subtest-1	22.95	23.03	22.84	24.00	23.08	23.06	23.00	24.00
3GPP Rel 6	HSUPA Subtest-2	20.99	21.02	20.87	22.00	21.16	21.05	21.02	22.00
3GPP Rel 6	HSUPA Subtest-3	21.97	22.00	21.88	23.00	22.10	22.06	22.04	23.00
3GPP Rel 6	HSUPA Subtest-4	20.98	21.05	20.83	22.00	21.14	21.08	20.98	22.00
3GPP Rel 6	HSUPA Subtest-5	23.00	23.00	22.90	24.00	23.10	23.00	23.00	24.00



ANT4_Band 2 Full Power / DSI 4												
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Fires	Power Med Ch./Fires	Power High Ch./Fires	Turn-up Int. (sec)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	24.10	24.25	24.14		25.5	0			
20	QPSK	1	49	24.05	24.06	24.04						
20	QPSK	1	99	23.91	23.96	23.84						
20	QPSK	50	0	23.20	23.33	23.13		24.5	1			
20	QPSK	50	24	23.32	23.30	23.35						
20	QPSK	50	50	23.24	23.07	23.18						
20	QPSK	100	0	23.26	23.27	23.14						
20	QPSK	100	0	23.30	23.51	23.45						
20	16QAM	1	49	23.42	23.47	23.38		24.5	1			
20	16QAM	1	99	23.50	23.27	23.14						
20	16QAM	50	0	22.25	22.24	22.35		23.5	2			
20	16QAM	50	24	22.31	22.31	22.35						
20	16QAM	50	50	22.26	22.22	22.21						
20	16QAM	100	0	22.29	22.28	22.35						
20	16QAM	1	0	22.51	22.46	22.45						
20	16QAM	1	49	22.50	22.56	22.28		23.5	2			
20	16QAM	1	99	22.52	22.52	22.57						
20	16QAM	50	0	21.21	21.25	21.12		22.5	3			
20	16QAM	50	24	21.20	21.28	21.12						
20	16QAM	50	50	21.26	21.14	21.17						
20	16QAM	100	0	21.28	21.30	21.15						
Channel												
Frequency (MHz)												
16	QPSK	1	0	24.20	24.17	24.08		25.5	0			
16	QPSK	1	37	24.14	24.04	24.03						
16	QPSK	1	74	24.14	24.11	24.14						
16	QPSK	36	0	23.32	23.26	23.12		24.5	1			
16	QPSK	36	20	23.30	23.26	23.25						
16	QPSK	36	50	23.32	23.30	23.31						
16	QPSK	75	0	23.32	23.29	23.12						
16	16QAM	1	0	23.49	23.32	23.41		24.5	1			
16	16QAM	1	37	23.45	23.39	23.40						
16	16QAM	1	74	23.44	23.04	23.05						
16	16QAM	36	0	22.34	22.33	22.14		23.5	2			
16	16QAM	36	20	22.32	22.32	22.30						
16	16QAM	36	50	22.31	22.28	22.23						
16	16QAM	75	0	22.45	22.43	22.37		23.5	2			
16	16QAM	1	37	22.34	22.38	22.32						
16	16QAM	1	74	22.34	22.34	22.35						
16	16QAM	36	0	21.34	21.23	21.12		22.5	3			
16	16QAM	36	20	21.32	21.31	21.22						
16	16QAM	36	50	21.30	21.32	21.25						
16	16QAM	75	0	21.38	21.31	21.15						
Channel												
Frequency (MHz)												
10	QPSK	1	0	24.16	24.10	24.06		25.5	0			
10	QPSK	1	25	24.10	23.97	24.05						
10	QPSK	1	49	24.15	23.89	23.78						
10	QPSK	25	0	23.35	23.22	23.10		24.5	1			
10	QPSK	25	12	23.33	23.12	23.14						
10	QPSK	25	25	23.31	22.90	22.98						
10	QPSK	50	0	23.33	23.08	23.34						
10	16QAM	1	0	23.53	23.50	23.47		24.5	1			
10	16QAM	1	25	23.56	23.35	23.41						
10	16QAM	25	0	23.35	23.22	23.11		23.5	2			
10	16QAM	25	0	22.34	22.21	22.12						
10	16QAM	25	12	22.33	22.33	22.18						
10	16QAM	25	25	22.33	22.15	22.08						
10	16QAM	50	0	22.34	22.22	22.13		23.5	2			
10	16QAM	1	25	22.34	22.22	22.13						
10	16QAM	25	0	22.34	22.07	22.29		23.5	2			
10	16QAM	1	49	23.30	23.28	22.88		22.5	3			
10	16QAM	25	12	22.28	22.20	22.03						
10	16QAM	25	25	22.15	21.75	22.00						
10	16QAM	50	0	21.38	21.31	21.15						
Channel												
Frequency (MHz)												
5	QPSK	1	0	24.23	24.06	24.02		25.5	0			
5	QPSK	1	12	24.23	23.85	23.87						
5	QPSK	1	24	24.20	23.83	24.15						
5	QPSK	12	0	23.34	23.11	23.13		24.5	1			
5	QPSK	12	0	23.37	23.05	23.06						
5	QPSK	12	13	23.34	22.90	22.87						
5	QPSK	25	0	23.30	23.00	22.87		24.5	1			
5	QPSK	25	0	23.32	23.37	23.31						
5	16QAM	1	12	23.51	23.26	23.11		24.5	1			
5	16QAM	1	24	23.49	23.26	23.12						
5	16QAM	12	0	22.35	22.26	22.15		23.5	2			
5	16QAM	12	7	22.38	22.26	22.16						
5	16QAM	25	0	22.37	22.32	22.07						
5	16QAM	1	0	23.25	23.05	23.07		23.5	2			
5	16QAM	1	12	23.25	23.07	23.05						
5	16QAM	1	24	23.23	23.00	23.12						
5	16QAM	12	0	22.14	21.97	21.88		22.5	3			
5	16QAM	12	13	22.15	21.98	21.91						
5	16QAM	25	0	22.08	22.03	21.88						
Channel												
Frequency (MHz)												
3	QPSK	1	0	24.14	24.04	23.79		25.5	0			
3	QPSK	1	8	24.21	24.00	23.79						
3	QPSK	1	14	24.17	23.89	24.00						
3	QPSK	8	0	23.25	23.24	22.89		24.5	1			
3	QPSK	8	4	23.27	23.24	22.78						
3	QPSK	8	7	23.25	23.14	22.86						
3	QPSK	16	0	23.26	23.15	22.76						
3	QPSK	16	0	23.42	23.24	23.04		24.5	1			
3	QPSK	16	8	23.30	23.39	23.15						
3	16QAM	1	14	23.51	23.24	23.04						
3	16QAM	8	0	22.37	22.32	22.07		23.5	2			
3	16QAM	8	4	22.42	22.34	21.98						
3	16QAM	8	7	22.35	22.31	21.96						
3	16QAM	16	0	22.30	22.26	21.90						
3	16QAM	1	0	23.13	23.10	22.85		23.5	2			
3	16QAM	1	8	23.07	23.15	22.78						
3	16QAM	1	14	23.10	23.07	22.71						
3	16QAM	8	0	22.13	22.14	21.77		22.5	3			
3	16QAM	8	4	22.09	22.00	21.87						
3	16QAM	8	7	22.05	21.97	21.70						
3	16QAM	16	0	22.00	22.10	21.87						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	24.05	24.05	24.15		25.5	0			
1.4	QPSK	1	3	24.15	24.01	24.01						
1.4	QPSK	1	5	24.06	23.86	23.89						
1.4	QPSK	3	0	24.10	23.99	24.05		24.5	1			
1.4	QPSK	3	1	24.14	23.94	23.99						
1.4	QPSK	3	5	24.10	23.85	23.92						
1.4	QPSK	6	0	23.25	23.01	23.13		24.5	1			
1.4	16QAM	1	0	23.44	23.24	23.42						
1.4	16QAM	1	3	23.42	23.25	23.36						
1.4	16QAM	1	5	23.40	23.18	23.18		24.5	1			
1.4	16QAM	3	0	23.17	23.10	23.22						
1.4	16QAM	3	5	23.20	23.10	23.20						
1.4	16QAM	3	3	23.21	23.04	23.07		23.5	2			
1.4	16QAM	6	0	22.20	22.24	22.41		23.5	2			
1.4	16QAM	1	3	23.15	22.94	23.23						
1.4	16QAM	1	3	23.28	23.11	23.17		23.5	2			
1.4	16QAM	1	5	23.24	22.93	22.93						
1.4	16QAM	3	0	23.05	22.94	23.04						
1.4	16QAM	3	1	23.03	22.91	23.04						
1.4	16QAM	3	3	22.98	22.90	22.79		22.5	3			

ANT4_Band 4 Full Power / DSI 4										
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Fires	Power Med Ch./Fires	Power High Ch./Fires	Turn-up Int. (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	24.28	24.31	24.25		25.5	0	
20	QPSK	1	49	24.05	24.04	24.03				
20	QPSK	1	99	23.95	23.95	23.82				
20	QPSK	50	0	23.35	23.39	23.20		24.5	1	
20	QPSK	50	24	23.32	23.30	23.35				
20	QPSK	50	50	23.24	23.11	23.05				
20	QPSK	100	0	23.17	23.17	23.07				
20	QPSK	100	49	23.47	23.41	23.37		24.5	1	
20	QPSK	100	99	23.41	23.24	23.34				
20	QPSK	100	24	23.21	23.18	23.27				
20	QPSK	100	50	23.26	23.22	23.20		23.5	2	
20	QPSK	100	99	23.22	23.20	23.19				
20	QPSK	100	24	23.24	23.22	23.23				
20	QPSK	100	0	23.22	23.21	23.20				
20	QPSK	100	49	23.21	23.07	23.25		23.5	2	
20	QPSK	100	99	23.14	23.17	23.17				
20	QPSK	100	24	23.17	23.27	23.16		22.5	3	
20	QPSK	100	50	23.20	23.20	23.11				
20	QPSK	100	0	23.16	23.19	23.17				
Turn-up Int. (sec)										
MPR (dB)										
Frequency (MHz)										
15	QPSK	1	0	24.10	24.23	24.21		25.5	0	
15	QPSK	1	37	24.03	23.97	23.91				
15	QPSK	1	74	24.06	24.18	24.04				
15	QPSK	36	0	23.20	23.20	23.22		24.5	1	
15	QPSK	36	24	23.26	23.24	23.24				
15	QPSK	36	75	23.32	23.28	23.23				
15	QPSK	36	99	23.25	23.25	23.23				
15	QPSK	1	37	24.04	23.93	23.29		24.5	1	
15	QPSK	1	74	23.45	23.19	23.38				
15	QPSK	36	24	23.24	23.24	23.18		23.5	2	
15	QPSK	36	20	23.30	23.31	23.28				
15	QPSK	36	99	23.17	23.18	23.23				
15	QPSK	36	24	23.25	23.20	23.23				
15	QPSK	100	0	23.22	23.25	23.16		23.5	2	
15	QPSK	100	1	23.27	23.25	23.20				
15	QPSK	100	36	23.21	23.32	23.21				
15	QPSK	100	75	23.22	23.25	23.19		22.5	3	
15	QPSK	100	99	23.24	23.26	23.17				
Turn-up Int. (sec)										
MPR (dB)										
Frequency (MHz)										
10	QPSK	1	0	24.01	24.24	24.05		25.5	0	
10	QPSK	1	25	24.21	24.13	24.01				
10	QPSK	1	50	24.05	24.10	24.03				
10	QPSK	25	0	23.39	23.26	23.14		24.5	1	
10	QPSK	25	12	23.40	23.34	23.15				
10	QPSK	25	24	23.39	23.29	23.15				
10	QPSK	50	0	23.43	23.24	23.20				
10	QPSK	50	1	23.23	23.60	23.49				
10	QPSK	50	12	23.60	23.45	23.40				
10	QPSK	100	1	23.55	23.50	23.43				
10	QPSK	100	12	23.45	23.46	23.40		23.5	2	
10	QPSK	100	25	23.42	23.32	23.23				
10	QPSK	100	50	23.43	23.32	23.23				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				
10	QPSK	100	1	23.43	23.61	23.44				

ANT4_Band 38 Full Power / DSI 4									
BW [MHz]	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	25.5	0	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	24.42	24.55	24.43			
20	QPSK	1	49	24.48	24.46	24.48	24.5	1	
20	QPSK	1	99	24.47	24.50	24.45			
20	QPSK	50	0	23.54	23.68	23.54			
20	QPSK	50	24	23.64	23.60	23.55	24.5	1	
20	QPSK	50	50	23.65	23.64	23.62			
20	QPSK	100	0	23.60	23.63	23.54			
20	16QAM	1	0	23.55	23.55	23.56	24.5	1	
20	16QAM	1	49	23.56	23.54	23.57			
20	16QAM	1	99	23.62	23.60	23.61			
20	16QAM	50	0	22.57	22.60	22.58	23.5	2	
20	16QAM	50	24	22.68	22.69	22.58			
20	16QAM	50	50	22.69	22.67	22.63			
20	16QAM	100	0	22.65	22.65	22.56	23.5	2	
20	64QAM	1	0	22.18	22.11	22.20			
20	64QAM	1	49	22.04	22.08	22.08			
20	64QAM	1	99	22.23	22.09	22.29	22.5	3	
20	64QAM	50	0	20.54	20.52	20.51			
20	64QAM	50	24	20.62	20.62	20.53			
20	64QAM	50	50	20.58	20.60	20.58	22.5	3	
20	64QAM	100	0	20.69	20.70	20.58			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5	25.5	0	
15	QPSK	1	0	24.41	24.41	24.39			
15	QPSK	1	37	24.41	24.43	24.37	24.5	1	
15	QPSK	1	74	24.42	24.43	24.41			
15	QPSK	36	0	23.53	23.54	23.53			
15	QPSK	36	20	23.64	23.62	23.58	24.5	1	
15	QPSK	36	39	23.61	23.61	23.59			
15	QPSK	75	0	23.64	23.65	23.60			
15	16QAM	1	0	23.59	23.57	23.59	24.5	1	
15	16QAM	1	37	23.38	23.44	23.43			
15	16QAM	1	74	23.62	23.62	23.61			
15	16QAM	36	0	22.54	22.53	22.50	23.5	2	
15	16QAM	36	20	22.57	22.59	22.57			
15	16QAM	36	39	22.59	22.60	22.57			
15	16QAM	75	0	22.66	22.66	22.62	23.5	2	
15	64QAM	1	0	22.16	22.02	22.05			
15	64QAM	1	37	22.05	22.09	22.06			
15	64QAM	1	74	22.08	22.21	22.18	22.5	3	
15	64QAM	36	0	20.56	20.56	20.52			
15	64QAM	36	20	20.62	20.63	20.60			
15	64QAM	36	39	20.63	20.64	20.61	22.5	3	
15	64QAM	75	0	20.63	20.65	20.64			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615	25.5	0	
10	QPSK	1	0	24.48	24.46	24.42			
10	QPSK	1	25	24.49	24.49	24.48	24.5	1	
10	QPSK	1	49	24.52	24.54	24.47			
10	QPSK	25	0	23.53	23.53	23.49			
10	QPSK	25	12	23.61	23.63	23.52	24.5	1	
10	QPSK	25	25	23.63	23.62	23.61			
10	QPSK	50	0	23.63	23.64	23.54			
10	16QAM	1	0	23.62	23.61	23.59	24.5	1	
10	16QAM	1	25	23.61	23.64	23.60			
10	16QAM	1	49	23.67	23.59	23.60			
10	16QAM	25	0	22.51	22.55	22.51	23.5	2	
10	16QAM	25	12	22.62	22.62	22.56			
10	16QAM	25	25	22.60	22.62	22.59			
10	16QAM	50	0	22.62	22.66	22.53	23.5	2	
10	64QAM	1	0	22.29	22.41	22.37			
10	64QAM	1	25	22.32	22.35	22.27			
10	64QAM	1	49	22.40	22.40	22.33	22.5	3	
10	64QAM	25	0	21.30	21.26	21.30			
10	64QAM	25	12	21.45	21.47	21.33			
10	64QAM	25	25	21.31	21.47	21.43	22.5	3	
10	64QAM	50	0	21.45	21.39	21.36			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5	25.5	0	
5	QPSK	1	0	24.38	24.40	24.38			
5	QPSK	1	12	24.41	24.47	24.42	24.5	1	
5	QPSK	1	24	24.48	24.49	24.45			
5	QPSK	12	0	23.57	23.57	23.52			
5	QPSK	12	7	23.60	23.62	23.51	24.5	1	
5	QPSK	12	13	23.58	23.59	23.61			
5	QPSK	25	0	23.58	23.58	23.53			
5	16QAM	1	0	23.55	23.56	23.54	24.5	1	
5	16QAM	1	12	23.63	23.65	23.65			
5	16QAM	1	24	23.62	23.66	23.64			
5	16QAM	12	0	22.58	22.52	22.48	23.5	2	
5	16QAM	12	7	22.62	22.62	22.54			
5	16QAM	12	13	22.60	22.59	22.58			
5	16QAM	25	0	22.59	22.65	22.57	23.5	2	
5	64QAM	1	0	22.22	22.16	22.06			
5	64QAM	1	12	22.22	22.29	22.22			
5	64QAM	1	24	22.12	22.20	22.19	22.5	3	
5	64QAM	12	0	21.42	21.42	21.34			
5	64QAM	12	7	21.30	21.47	21.28			
5	64QAM	12	13	21.46	21.39	21.44	22.5	3	
5	64QAM	25	0	21.35	21.46	21.24			

ANT4_Band 41 Full Power / DSI 4										
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	40185	40620	41055	41490	25.5	0
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	24.74	24.44	24.53	24.53	24.49		
20	QPSK	1	49	24.61	24.41	24.45	24.45	24.37	24.5	1
20	QPSK	1	99	24.58	24.41	24.55	24.53	24.40		
20	QPSK	50	0	23.84	23.52	23.55	23.54	23.57		
20	QPSK	50	24	23.82	23.61	23.65	23.65	23.54	24.5	1
20	QPSK	50	50	23.78	23.60	23.63	23.62	23.52		
20	QPSK	100	0	23.80	23.60	23.63	23.60	23.52		
20	16QAM	1	0	23.73	23.55	23.63	23.70	23.63	24.5	1
20	16QAM	1	49	23.69	23.50	23.55	23.57	23.50		
20	16QAM	1	99	23.75	23.50	23.65	23.68	23.51		
20	16QAM	50	0	22.85	22.57	22.58	22.57	22.60	23.5	2
20	16QAM	50	24	22.85	22.63	22.65	22.65	22.58		
20	16QAM	50	50	22.82	22.63	22.68	22.67	22.55		
20	16QAM	100	0	22.83	22.62	22.67	22.62	22.56	23.5	2
20	64QAM	1	0	22.32	22.13	22.20	22.11	22.30		
20	64QAM	1	49	22.34	22.08	22.22	22.10	22.12		
20	64QAM	1	99	22.30	22.05	22.28	22.15	22.01	22.5	3
20	64QAM	50	0	21.58	21.23	21.34	21.30	21.35		
20	64QAM	50	24	21.55	21.30	21.50	21.48	21.34		
20	64QAM	50	50	21.61	21.40	21.48	21.45	21.25	22.5	3
20	64QAM	100	0	21.66	21.53	21.48	21.46	21.34		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	25.5	0
15	QPSK	1	0	24.63	24.42	24.43	24.46	24.44		
15	QPSK	1	37	24.59	24.39	24.42	24.42	24.33	24.5	1
15	QPSK	1	74	24.59	24.53	24.56	24.52	24.35		
15	QPSK	36	0	23.82	23.56	23.55	23.54	23.53	24.5	1
15	QPSK	36	20	23.81	23.60	23.64	23.62	23.51		
15	QPSK	36	39	23.81	23.61	23.63	23.62	23.49		
15	QPSK	75	0	23.80	23.62	23.65	23.62	23.51	24.5	1
15	16QAM	1	0	23.73	23.55	23.60	23.66	23.57		
15	16QAM	1	37	23.65	23.43	23.42	23.45	23.41		
15	16QAM	1	74	23.78	23.64	23.75	23.71	23.57	23.5	2
15	16QAM	36	0	22.80	22.50	22.52	22.49	22.52		
15	16QAM	36	20	22.77	22.56	22.59	22.59	22.49		
15	16QAM	36	39	22.79	22.56	22.62	22.60	22.47	22.5	3
15	16QAM	75	0	22.83	22.67	22.66	22.65	22.55		
15	64QAM	1	0	22.41	22.17	22.18	22.12	22.13		
15	64QAM	1	37	22.37	22.17	22.20	22.20	21.96	22.5	2
15	64QAM	1	74	22.44	22.15	22.27	22.40	22.18		
15	64QAM	36	0	21.55	21.45	21.28	21.35	21.28		
15	64QAM	36	20	21.68	21.35	21.46	21.43	21.35	22.5	3
15	64QAM	36	39	21.67	21.43	21.39	21.42	21.29		
15	64QAM	75	0	21.61	21.51	21.36	21.39	21.36		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685	25.5	0
10	QPSK	1	0	24.66	24.45	24.47	24.51	24.39		
10	QPSK	1	25	24.66	24.47	24.53	24.55	24.40	24.5	1
10	QPSK	1	49	24.70	24.53	24.56	24.58	24.36		
10	QPSK	25	0	23.81	23.53	23.56	23.56	23.53		
10	QPSK	25	12	23.84	23.62	23.65	23.67	23.54	24.5	1
10	QPSK	25	25	23.82	23.59	23.69	23.69	23.49		
10	QPSK	50	0	23.84	23.61	23.64	23.65	23.52		
10	16QAM	1	0	23.82	23.59	23.66	23.71	23.61	24.5	1
10	16QAM	1	25	23.84	23.58	23.67	23.70	23.56		
10	16QAM	1	49	23.79	23.59	23.69	23.71	23.52		
10	16QAM	25	0	22.84	22.52	22.54	22.54	22.55	23.5	2
10	16QAM	25	12	22.85	22.63	22.67	22.69	22.55		
10	16QAM	25	25	22.85	22.61	22.66	22.66	22.51		
10	16QAM	50	0	22.84	22.62	22.66	22.68	22.57	23.5	2
10	64QAM	1	0	22.65	22.28	22.22	22.30	22.33		
10	64QAM	1	25	22.57	22.30	22.40	22.21	22.23		
10	64QAM	1	49	22.64	22.25	22.40	22.44	22.31	22.5	3
10	64QAM	25	0	21.53	21.25	21.26	21.43	21.28		
10	64QAM	25	12	21.66	21.37	21.50	21.52	21.26		
10	64QAM	25	25	21.50	21.29	21.45	21.41	21.33	22.5	3
10	64QAM	50	0	21.68	21.30	21.40	21.33	21.20		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	25.5	0
5	QPSK	1	0	24.70	24.48	24.47	24.45	24.39		
5	QPSK	1	12	24.67	24.46	24.51	24.52	24.34	24.5	1
5	QPSK	1	24	24.72	24.46	24.53	24.53	24.33		
5	QPSK	12	0	23.84	23.59	23.55	23.58	23.49		
5	QPSK	12	7	23.84	23.66	23.64	23.62	23.51	24.5	1
5	QPSK	12	13	23.83	23.63	23.63	23.68	23.48		
5	QPSK	25	0	23.79	23.60	23.62	23.57	23.48		
5	16QAM	1	0	23.87	23.62	23.57	23.62	23.53	24.5	1
5	16QAM	1	12	23.87	23.69	23.73	23.71	23.55		
5	16QAM	1	24	23.88	23.64	23.70	23.72	23.53		
5	16QAM	12	0	22.81	22.56	22.54	22.57	22.46	23.5	2
5	16QAM	12	7	22.83	22.63	22.62	22.61	22.51		
5	16QAM	12	13	22.80	22.57	22.62	22.65	22.47		
5	16QAM	25	0	22.85	22.63	22.67	22.64	22.50	23.5	2
5	64QAM	1	0	22.37	22.20	22.28	22.26	22.03		
5	64QAM	1	12	22.39	22.23	22.23	22.24	22.06		
5	64QAM	1	24	22.38	22.31	22.23	22.34	21.98	22.5	3
5	64QAM	12	0	21.66	21.37	21.41	21.37	21.25		
5	64QAM	12	7	21.70	21.29	21.53	21.28	21.23		
5	64QAM	12	13	21.63	21.39	21.33	21.51	21.23	22.5	3
5	64QAM	25	0	21.52	21.38	21.37	21.34	21.35		

ANT4				DSI 1/5			DSI 3			DSI 1/5			DSI 3		
Band				WCDMA II			WCDMA II			WCDMA IV			WCDMA IV		
TX Channel				9262	9400	9538	9262			1312	1413	1513	1312		
Rx Channel				9662	9800	9938	9662			1537	1638	1738	1537		
Frequency (MHz)				1852.4	1880	1907.6	1852.4			1712.4	1732.6	1752.6	1712.4		
3GPP Rel 99				AMR 12.2Kbps	21.30	21.32	21.29	22.00	23.33	23.35	23.31	24.00	20.37	20.35	20.24
3GPP Rel 99				RMC 12.2Kbps	21.32	21.33	21.30	22.00	23.34	23.37	23.33	24.00	20.37	20.34	20.38
3GPP Rel 6				HSDPA Subtest-1	20.38	20.35	20.29	21.00	22.01	22.07	21.93	23.00	19.38	19.45	19.33
3GPP Rel 6				HSDPA Subtest-2	20.35	20.35	20.31	21.00	21.57	21.61	21.29	23.00	19.37	19.39	19.32
3GPP Rel 6				HSDPA Subtest-3	19.67	19.88	19.79	20.50	22.04	21.71	21.86	22.50	18.89	18.86	18.85
3GPP Rel 6				HSDPA Subtest-4	19.88	19.87	19.80	20.50	22.04	22.08	21.86	22.50	18.91	18.89	18.82
3GPP Rel 6				DC-HSDPA Subtest-1	20.33	20.31	20.25	21.00	21.99	21.99	21.78	23.00	19.34	19.41	19.29
3GPP Rel 6				DC-HSDPA Subtest-2	20.30	20.30	20.28	21.00	21.47	21.53	21.19	23.00	19.33	19.35	19.28
3GPP Rel 6				DC-HSDPA Subtest-3	19.83	19.84	19.74	20.50	21.91	21.64	21.84	22.50	18.84	18.82	18.81
3GPP Rel 6				DC-HSDPA Subtest-4	19.84	19.83	19.75	20.50	21.93	22.04	21.80	22.50	18.87	18.85	18.78
3GPP Rel 6				HSUPA Subtest-1	20.28	20.28	20.24	21.00	21.92	22.03	21.82	23.00	19.30	19.29	19.21
3GPP Rel 6				HSUPA Subtest-2	18.32	18.30	18.28	19.00	19.95	20.01	19.83	21.00	17.33	17.35	17.20
3GPP Rel 6				HSUPA Subtest-3	19.27	19.27	19.25	20.00	20.93	21.03	20.88	22.00	18.30	18.31	18.21
3GPP Rel 6				HSUPA Subtest-4	18.26	18.28	18.25	19.00	20.02	20.09	19.86	21.00	17.35	17.32	17.25
3GPP Rel 6				HSUPA Subtest-5	20.30	20.30	20.20	21.00	22.00	21.95	21.87	23.00	19.30	19.30	19.20

ANT4_Band 2 DSI 1/5														
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power Ch./F.Freq.	Power Ch./F.Freq.	Time-up (sec)	MFR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	20.43	20.51	20.38	21.5	0						
20	QPSK	1	49	20.52	20.59	20.29								
20	QPSK	1	99	20.22	20.38	20.22								
20	QPSK	50	24	20.43	20.50	20.38								
20	QPSK	50	50	20.20	20.24	20.18								
20	QPSK	100	0	20.21	20.31	20.26	21.5	0						
20	HQAM	1	0	20.27	20.31	20.38								
20	HQAM	1	49	20.36	20.07	20.17								
20	HQAM	50	0	20.27	20.36	20.18								
20	HQAM	50	24	20.46	20.24	20.23								
20	HQAM	50	50	20.41	20.21	20.42	21.5	0						
20	HQAM	100	0	20.20	20.09	20.17								
20	HQAM	1	49	20.27	20.36	20.25								
20	HQAM	1	49	20.37	20.09	20.14								
20	HQAM	1	99	20.52	19.98	20.21								
20	HQAM	50	0	20.27	20.36	20.18	21.5	0						
20	HQAM	50	24	20.50	20.15	20.33								
20	HQAM	50	50	20.23	20.15	20.31								
20	HQAM	100	0	20.32	20.15	20.18								
Channel														
Frequency (MHz)														
15	QPSK	1	0	20.18	20.27	20.13					21.5	0		
15	QPSK	1	37	20.19	20.16	20.23								
15	QPSK	1	74	20.15	20.24	20.21								
15	QPSK	36	0	20.37	20.24	20.17								
15	QPSK	36	20	20.36	20.31	20.20								
15	QPSK	36	50	20.27	20.27	20.27	21.5	0						
15	QPSK	36	50	20.30	20.35	20.28								
15	HQAM	1	0	20.29	20.13	20.29								
15	HQAM	1	49	20.27	20.27	20.27								
15	HQAM	1	49	20.32	20.09	20.14								
15	HQAM	1	99	20.52	19.99	20.21	21.5	0						
15	HQAM	36	0	20.27	20.36	20.18								
15	HQAM	36	20	20.34	20.34	20.30								
15	HQAM	75	0	20.35	20.30	20.18								
15	HQAM	1	0	20.44	20.38	20.21								
15	HQAM	1	37	20.41	20.28	20.40	21.5	0						
15	HQAM	1	74	20.41	20.19	20.37								
15	HQAM	36	0	20.38	20.24	20.21								
15	HQAM	36	20	20.24	20.38	20.22								
15	HQAM	36	50	20.32	20.35	20.30								
15	HQAM	75	0	20.32	20.25	20.30	21.5	0						
15	HQAM	75	0	20.32	20.25	20.30								
15	HQAM	75	0	20.32	20.25	20.30								
15	HQAM	75	0	20.32	20.25	20.30								
15	HQAM	75	0	20.32	20.25	20.30								
Channel														
Frequency (MHz)														
10	QPSK	1	0	20.42	20.15	20.00	21.5	0						
10	QPSK	1	25	20.12	20.14	20.04								
10	QPSK	1	50	20.12	20.14	20.04								
10	QPSK	25	0	20.12	20.09	20.11								
10	QPSK	25	12	20.42	20.39	20.27								
10	QPSK	25	12	20.39	20.36	20.28	21.5	0						
10	QPSK	25	12	20.39	20.36	20.28								
10	QPSK	50	0	20.21	20.28	20.11								
10	HQAM	1	0	20.35	20.36	20.38								
10	HQAM	1	25	20.32	20.32	20.17								
10	HQAM	1	49	20.38	20.36	20.27	21.5	0						
10	HQAM	25	0	20.37	20.32	20.38								
10	HQAM	25	12	20.39	20.28	20.30								
10	HQAM	25	25	20.35	20.34	20.28								
10	HQAM	50	0	20.19	20.15	20.11								
10	HQAM	1	25	20.33	20.34	20.27	21.5	0						
10	HQAM	1	49	20.32	20.36	20.17								
10	HQAM	25	0	20.39	20.13	20.20								
10	HQAM	25	12	20.41	20.33	20.28								
10	HQAM	25	25	20.32	20.34	20.28								
10	HQAM	50	0	20.32	20.22	20.10	21.5	0						
10	HQAM	50	0	20.32	20.22	20.10								
10	HQAM	50	0	20.32	20.22	20.10								
10	HQAM	50	0	20.32	20.22	20.10								
10	HQAM	50	0	20.32	20.22	20.10								
Channel														
Frequency (MHz)														
5	QPSK	1	0	20.24	19.98	20.03	21.5	0						
5	QPSK	1	12	20.15	20.19	20.18								
5	QPSK	1	24	20.20	20.31	20.10								
5	QPSK	12	0	20.28	20.27	20.16								
5	QPSK	12	7	20.27	20.20	20.24								
5	QPSK	12	13	20.20	20.30	20.24	21.5	0						
5	QPSK	12	13	20.20	20.30	20.24								
5	QPSK	25	0	20.28	20.28	20.25								
5	HQAM	1	0	20.29	20.29	20.38								
5	HQAM	1	12	20.24	20.31	20.38								
5	HQAM	1	24	20.32	20.32	20.37	21.5	0						
5	HQAM	12	0	20.29	20.28	20.16								
5	HQAM	12	7	20.28	20.28	20.33								
5	HQAM	12	13	20.28	20.33	20.24								
5	HQAM	25	0	20.24	20.14	20.17								
5	HQAM	1	0	20.38	20.24	20.33	21.5	0						
5	HQAM	1	12	20.33	20.36	20.22								
5	HQAM	12	0	20.27	20.30	20.37								
5	HQAM	12	7	20.24	20.32	20.27								
5	HQAM	12	13	20.24	20.32	20.19								
5	HQAM	25	0	20.28	20.26	20.17	21.5	0						
5	HQAM	25	0	20.28	20.26	20.17								
5	HQAM	25	0	20.28	20.26	20.17								
5	HQAM	25	0	20.28	20.26	20.17								
5	HQAM	25	0	20.28	20.26	20.17								
Channel														
Frequency (MHz)														
3	QPSK	1	0	20.11	20.09	20.13	21.5	0						
3	QPSK	1	8	20.22	20.16	20.20								
3	QPSK	1	14	20.18	20.11	20.08								
3	QPSK	8	0	20.28	20.18	20.17								
3	QPSK	8	7	20.20	20.30	20.16								
3	QPSK	8	7	20.22	20.17	20.14	21.5	0						
3	QPSK	15	0	20.20	20.24	20.18								
3	HQAM	1	0	20.27	20.13	20.14								
3	HQAM	1	8	20.41	20.34	20.28								
3	HQAM	1	14	20.22	20.40	20.39								
3	HQAM	8	0	20.30	20.16	20.29	21.5	0						
3	HQAM	8	4	20.32	20.29	20.24								
3	HQAM	1	0	20.30	20.21	20.22								
3	HQAM	15	0	20.27	20.17	20.16								
3	HQAM	15	0	20.27	20.17	20.16								
3	HQAM	1	0	20.28	20.09	20.38	21.5	0						
3	HQAM	1	14	20.										

ANT4_Band 7 DSI1/3/5									
Site (Band)	Modulator	RF ID	RF ChID	Power Ch/Freq	Power Ch/Freq	Power Ch/Freq	Power Ch/Freq	Total Tx (dBm)	MFR (dB)
Chemical									
20	OPSK	1	0	16.49	16.52	16.72			
20	OPSK	1	69	16.71	16.72	16.72		17.5	0
20	OPSK	1	29	16.44	16.72	16.72			
20	OPSK	50	0	16.31	16.71	16.66			
20	OPSK	50	69	16.31	16.71	16.66		17.5	0
20	OPSK	50	50	16.50	16.67	16.65			
20	OPSK	100	0	16.43	16.70	16.62			
20	OPSK	100	69	16.73	16.63	16.63			
20	QAGM	1	49	16.50	16.77	16.71		17.5	0
20	QAGM	1	99	16.62	16.74	16.74			
20	QAGM	50	56	16.42	16.68	16.58			
20	QAGM	50	24	16.35	16.68	16.71		17.5	0
20	QAGM	50	99	16.50	16.73	16.72			
20	QAGM	100	69	16.58	16.65	16.65			
20	QAGM	1	0	16.47	16.48	16.78			
20	QAGM	1	49	16.58	16.58	16.78		17.5	0
20	QAGM	50	0	16.42	16.54	16.79			
20	QAGM	50	0	16.38	16.54	16.67			
20	QAGM	50	25	16.31	16.67	16.72			
20	QAGM	100	0	16.40	16.67	16.72			
20	QAGM	100	0	16.43	16.60	16.70			
Frequency (MHz)									
20	OPSK	1	0	20.07	20.09	20.09	20.09	17.5	MFR (dB)
15	OPSK	1	0	16.54	16.67	16.62			
15	OPSK	1	37	16.37	16.52	16.53		17.5	0
15	OPSK	1	69	16.50	16.60	16.60			
15	OPSK	36	0	16.55	16.60	16.74			
15	OPSK	36	20	16.48	16.60	16.64			
15	OPSK	36	58	16.65	16.58	16.74			
15	OPSK	75	0	16.53	16.61	16.78			
15	OPSK	75	69	16.65	16.71	16.72			
15	QAGM	37	0	16.75	16.74	16.74		17.5	0
15	QAGM	1	74	16.68	16.69	16.78			
15	QAGM	36	0	16.71	16.65	16.75			
15	QAGM	36	20	16.52	16.50	16.75			
15	QAGM	37	0	16.65	16.73	16.77			
15	QAGM	75	0	16.45	16.65	16.76			
15	QAGM	1	0	16.53	16.41	16.61			
15	QAGM	37	0	16.44	16.75	16.75		17.5	0
15	QAGM	74	0	16.23	16.43	16.63			
15	QAGM	36	0	16.37	16.50	16.68			
15	QAGM	38	20	16.71	16.59	16.75			
15	QAGM	75	0	16.61	16.57	16.67			
Chemical									
10	OPSK	1	0	20.00	21.00	24.00	24.00	17.5	MFR (dB)
Frequency (MHz)									
30	OPSK	1	0	16.55	16.70	16.68			
10	OPSK	1	25	16.43	16.36	16.35		17.5	0
10	OPSK	25	0	16.45	16.36	16.35			
10	OPSK	25	0	16.45	16.61	16.67			
10	OPSK	25	12	16.72	16.70	16.72			
10	OPSK	25	12	16.62	16.66	16.66		17.5	0
10	OPSK	50	0	16.45	16.65	16.70			
10	QAGM	1	0	16.55	16.57	16.70			
10	QAGM	1	69	16.62	16.70	16.70			
10	QAGM	1	49	16.40	16.57	16.61			
10	QAGM	25	0	16.60	16.49	16.78			
10	QAGM	25	0	16.52	16.48	16.78			
10	QAGM	25	0	16.55	16.60	16.81			
10	QAGM	50	0	16.54	16.64	16.69			
10	QAGM	50	0	16.75	16.67	16.67			
10	QAGM	1	26	16.51	16.36	16.70		17.5	0
10	QAGM	1	74	16.68	16.69	16.78			
10	QAGM	25	12	16.54	16.76	16.61			
10	QAGM	25	12	16.62	16.68	16.71		17.5	0
10	QAGM	50	12	16.63	16.63	16.63			
10	QAGM	50	0	16.58	16.61	16.72			
Chemical									
5	OPSK	1	0	20.07	21.00	24.00	24.00	17.5	MFR (dB)
Frequency (MHz)									
5	OPSK	1	0	16.37	16.40	16.55			
5	OPSK	1	12	16.42	16.78	16.46		17.5	0
5	OPSK	12	0	16.45	16.55	16.65			
5	OPSK	12	12	16.74	16.55	16.65			
5	OPSK	12	7	16.65	16.68	16.77			
5	OPSK	12	7	16.65	16.68	16.77		17.5	0
5	OPSK	25	0	16.71	16.59	16.68			
5	OPSK	25	0	16.60	16.76	16.77			
5	OPSK	25	12	16.72	16.78	16.78		17.5	0
5	QAGM	1	24	16.70	16.73	16.67			
5	QAGM	12	0	16.71	16.69	16.75			
5	QAGM	12	12	16.74	16.74	16.74			
5	QAGM	12	13	16.72	16.76	16.61		17.5	0
5	QAGM	25	0	16.66	16.65	16.70			
5	QAGM	25	0	16.66	16.68	16.70			
5	QAGM	1	12	16.65	16.60	16.74		17.5	0
5	QAGM	12	0	16.60	16.79	16.69			
5	QAGM	12	13	16.68	16.60	16.68			
5	QAGM	12	7	16.56	16.55	16.67			
5	QAGM	25	12	16.50	16.59	16.76		17.5	0

[illegible]

ANT2_Band 66 DSI 3											
QPSK	Modulation	RB Set	RB Offset	Power Ch/Freq	Power Ch/Freq	Power Ch/Freq	Power Ch/Freq	Time-slot (ms)	Mbps (Mbps)		
Channel											
20	QPSK	1	0	17.50	17.50	17.50	17.50				
20	QPSK	16	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	31	0	17.50	17.50	17.50	17.50				
20	QPSK	46	0	17.50	17.50	17.50	17.50				
20	QPSK	61	0	17.50	17.50	17.50	17.50				
20	QPSK	76	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	91	0	17.50	17.50	17.50	17.50				
20	QPSK	106	0	17.50	17.50	17.50	17.50				
20	QPSK	121	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	136	0	17.50	17.50	17.50	17.50				
20	QPSK	151	0	17.50	17.50	17.50	17.50				
20	QPSK	166	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	181	0	17.50	17.50	17.50	17.50				
20	QPSK	196	0	17.50	17.50	17.50	17.50				
20	QPSK	211	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	226	0	17.50	17.50	17.50	17.50				
20	QPSK	241	0	17.50	17.50	17.50	17.50				
20	QPSK	256	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	271	0	17.50	17.50	17.50	17.50				
20	QPSK	286	0	17.50	17.50	17.50	17.50				
20	QPSK	301	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	316	0	17.50	17.50	17.50	17.50				
20	QPSK	331	0	17.50	17.50	17.50	17.50				
20	QPSK	346	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	361	0	17.50	17.50	17.50	17.50				
20	QPSK	376	0	17.50	17.50	17.50	17.50				
20	QPSK	391	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	406	0	17.50	17.50	17.50	17.50				
20	QPSK	421	0	17.50	17.50	17.50	17.50				
20	QPSK	436	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	451	0	17.50	17.50	17.50	17.50				
20	QPSK	466	0	17.50	17.50	17.50	17.50				
20	QPSK	481	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	496	0	17.50	17.50	17.50	17.50				
20	QPSK	511	0	17.50	17.50	17.50	17.50				
20	QPSK	526	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	541	0	17.50	17.50	17.50	17.50				
20	QPSK	556	0	17.50	17.50	17.50	17.50				
20	QPSK	571	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	586	0	17.50	17.50	17.50	17.50				
20	QPSK	601	0	17.50	17.50	17.50	17.50				
20	QPSK	616	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	631	0	17.50	17.50	17.50	17.50				
20	QPSK	646	0	17.50	17.50	17.50	17.50				
20	QPSK	661	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	676	0	17.50	17.50	17.50	17.50				
20	QPSK	691	0	17.50	17.50	17.50	17.50				
20	QPSK	706	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	721	0	17.50	17.50	17.50	17.50				
20	QPSK	736	0	17.50	17.50	17.50	17.50				
20	QPSK	751	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	766	0	17.50	17.50	17.50	17.50				
20	QPSK	781	0	17.50	17.50	17.50	17.50				
20	QPSK	796	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	811	0	17.50	17.50	17.50	17.50				
20	QPSK	826	0	17.50	17.50	17.50	17.50				
20	QPSK	841	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	856	0	17.50	17.50	17.50	17.50				
20	QPSK	871	0	17.50	17.50	17.50	17.50				
20	QPSK	886	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	901	0	17.50	17.50	17.50	17.50				
20	QPSK	916	0	17.50	17.50	17.50	17.50				
20	QPSK	931	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	946	0	17.50	17.50	17.50	17.50				
20	QPSK	961	0	17.50	17.50	17.50	17.50				
20	QPSK	976	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	991	0	17.50	17.50	17.50	17.50				
20	QPSK	1006	0	17.50	17.50	17.50	17.50				
20	QPSK	1021	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	1036	0	17.50	17.50	17.50	17.50				
20	QPSK	1051	0	17.50	17.50	17.50	17.50				
20	QPSK	1066	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	1081	0	17.50	17.50	17.50	17.50				
20	QPSK	1096	0	17.50	17.50	17.50	17.50				
20	QPSK	1111	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	1126	0	17.50	17.50	17.50	17.50				
20	QPSK	1141	0	17.50	17.50	17.50	17.50				
20	QPSK	1156	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	1171	0	17.50	17.50	17.50	17.50				
20	QPSK	1186	0	17.50	17.50	17.50	17.50				
20	QPSK	1201	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	1216	0	17.50	17.50	17.50	17.50				
20	QPSK	1231	0	17.50	17.50	17.50	17.50				
20	QPSK	1246	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	1261	0	17.50	17.50	17.50	17.50				
20	QPSK	1276	0	17.50	17.50	17.50	17.50				
20	QPSK	1291	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	1306	0	17.50	17.50	17.50	17.50				
20	QPSK	1321	0	17.50	17.50	17.50	17.50				
20	QPSK	1336	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	1351	0	17.50	17.50	17.50	17.50				
20	QPSK	1366	0	17.50	17.50	17.50	17.50				
20	QPSK	1381	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	1396	0	17.50	17.50	17.50	17.50				
20	QPSK	1411	0	17.50	17.50	17.50	17.50				
20	QPSK	1426	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	1441	0	17.50	17.50	17.50	17.50				
20	QPSK	1456	0	17.50	17.50	17.50	17.50				
20	QPSK	1471	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	1486	0	17.50	17.50	17.50	17.50				
20	QPSK	1501	0	17.50	17.50	17.50	17.50				
20	QPSK	1516	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	1531	0	17.50	17.50	17.50	17.50				
20	QPSK	1546	0	17.50	17.50	17.50	17.50				
20	QPSK	1561	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	1576	0	17.50	17.50	17.50	17.50				
20	QPSK	1591	0	17.50	17.50	17.50	17.50				
20	QPSK	1606	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	1621	0	17.50	17.50	17.50	17.50				
20	QPSK	1636	0	17.50	17.50	17.50	17.50				
20	QPSK	1651	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	1666	0	17.50	17.50	17.50	17.50				
20	QPSK	1681	0	17.50	17.50	17.50	17.50				
20	QPSK	1696	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	1711	0	17.50	17.50	17.50	17.50				
20	QPSK	1726	0	17.50	17.50	17.50	17.50				
20	QPSK	1741	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	1756	0	17.50	17.50	17.50	17.50				
20	QPSK	1771	0	17.50	17.50	17.50	17.50				
20	QPSK	1786	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	1801	0	17.50	17.50	17.50	17.50				
20	QPSK	1816	0	17.50	17.50	17.50	17.50				
20	QPSK	1831	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	1846	0	17.50	17.50	17.50	17.50				
20	QPSK	1861	0	17.50	17.50	17.50	17.50				
20	QPSK	1876	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	1891	0	17.50	17.50	17.50	17.50				
20	QPSK	1906	0	17.50	17.50	17.50	17.50				
20	QPSK	1921	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	1936	0	17.50	17.50	17.50	17.50				
20	QPSK	1951	0	17.50	17.50	17.50	17.50				
20	QPSK	1966	0	17.50	17.50	17.50	17.50	22.5	0		
20	QPSK	1981	0	17.50	17.50	17.50	17.50				
20	QPSK	1996	0	1							

ANT4_Band 38 DSI1/5									
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				37850	38000	38150	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	20.47	20.83	20.82	21.5	0	
20	QPSK	1	49	20.74	20.82	20.70			
20	QPSK	1	99	20.76	20.80	20.75			
20	QPSK	50	0	20.63	20.79	20.65	21.5	0	
20	QPSK	50	24	20.71	20.77	20.71			
20	QPSK	50	50	20.69	20.78	20.76			
20	QPSK	100	0	20.70	20.75	20.68	21.5	0	
20	16QAM	1	0	20.70	20.64	20.78			
20	16QAM	1	49	20.75	20.71	20.78			
20	16QAM	1	99	20.77	20.77	20.75	21.5	0	
20	16QAM	50	0	20.66	20.70	20.68			
20	16QAM	50	24	20.71	20.77	20.77			
20	16QAM	50	50	20.76	20.74	20.78	21.5	0	
20	16QAM	100	0	20.79	20.76	20.73			
20	64QAM	1	0	20.46	20.46	20.44	21.5	0	
20	64QAM	1	49	20.38	20.47	20.54			
20	64QAM	1	99	20.55	20.59	20.58			
20	64QAM	50	0	20.54	20.52	20.54	21.5	0	
20	64QAM	50	24	20.57	20.65	20.54			
20	64QAM	50	50	20.30	20.23	20.49			
20	64QAM	100	0	20.29	20.46	20.66			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	20.56	20.64	20.64	21.5	0	
15	QPSK	1	37	20.61	20.61	20.62			
15	QPSK	1	74	20.64	20.59	20.58			
15	QPSK	36	0	20.54	20.50	20.58	21.5	0	
15	QPSK	36	20	20.64	20.65	20.57			
15	QPSK	36	39	20.62	20.61	20.60			
15	QPSK	75	0	20.62	20.68	20.59	21.5	0	
15	16QAM	1	0	20.51	20.60	20.61			
15	16QAM	1	37	20.44	20.58	20.48			
15	16QAM	1	74	20.58	20.64	20.60	21.5	0	
15	16QAM	36	0	20.53	20.50	20.55			
15	16QAM	36	20	20.60	20.58	20.58			
15	16QAM	36	39	20.52	20.60	20.61	21.5	0	
15	16QAM	75	0	20.62	20.66	20.65			
15	64QAM	1	0	20.27	20.33	20.36	21.5	0	
15	64QAM	1	37	20.32	20.45	20.41			
15	64QAM	1	74	20.37	20.46	20.39			
15	64QAM	36	0	20.40	20.47	20.42	21.5	0	
15	64QAM	36	20	20.56	20.57	20.48			
15	64QAM	36	39	20.49	20.51	20.52			
15	64QAM	75	0	20.56	20.31	20.33			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2675	2695	2615			
10	QPSK	1	0	20.66	20.71	20.72	21.5	0	
10	QPSK	1	25	20.70	20.79	20.70			
10	QPSK	1	49	20.71	20.79	20.74			
10	QPSK	25	0	20.46	20.61	20.58	21.5	0	
10	QPSK	25	12	20.62	20.66	20.67			
10	QPSK	25	25	20.63	20.73	20.61			
10	QPSK	50	0	20.61	20.73	20.66	21.5	0	
10	16QAM	1	0	20.57	20.79	20.75			
10	16QAM	1	25	20.57	20.70	20.70			
10	16QAM	1	49	20.70	20.72	20.69	21.5	0	
10	16QAM	25	0	20.57	20.61	20.58			
10	16QAM	25	12	20.66	20.75	20.69			
10	16QAM	25	25	20.67	20.67	20.61	21.5	0	
10	16QAM	50	0	20.61	20.71	20.73			
10	64QAM	1	0	20.48	20.60	20.57			
10	64QAM	1	25	20.46	20.62	20.47	21.5	0	
10	64QAM	1	49	20.52	20.63	20.56			
10	64QAM	25	0	20.37	20.47	20.48			
10	64QAM	25	12	20.54	20.57	20.54	21.5	0	
10	64QAM	25	25	20.50	20.65	20.52			
10	64QAM	50	0	20.55	20.35	20.29			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	20.60	20.70	20.59	21.5	0	
5	QPSK	1	12	20.64	20.70	20.66			
5	QPSK	1	24	20.63	20.72	20.79			
5	QPSK	12	0	20.51	20.52	20.56	21.5	0	
5	QPSK	12	7	20.58	20.63	20.66			
5	QPSK	12	13	20.59	20.71	20.61			
5	QPSK	25	0	20.60	20.66	20.57	21.5	0	
5	16QAM	1	0	20.47	20.69	20.60			
5	16QAM	1	12	20.63	20.69	20.59			
5	16QAM	1	24	20.66	20.72	20.70	21.5	0	
5	16QAM	12	0	20.54	20.58	20.63			
5	16QAM	12	7	20.52	20.69	20.62			
5	16QAM	12	13	20.55	20.59	20.62	21.5	0	
5	16QAM	25	0	20.65	20.74	20.64			
5	64QAM	1	0	20.36	20.47	20.35			
5	64QAM	1	12	20.33	20.54	20.41	21.5	0	
5	64QAM	1	24	20.38	20.47	20.50			
5	64QAM	12	0	20.36	20.54	20.49			
5	64QAM	12	7	20.41	20.58	20.51	21.5	0	
5	64QAM	12	13	20.44	20.49	20.53			
5	64QAM	25	0	20.46	20.50	20.43			

ANT4_Band 38 DSI 3									
BW [MHz]	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	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	22.49	22.80	22.79	23.5	0	
20	QPSK	1	49	22.79	22.79	22.74			
20	QPSK	1	99	22.76	22.79	22.78			
20	QPSK	50	0	22.61	22.79	22.69	23.5	0	
20	QPSK	50	24	22.72	22.78	22.66			
20	QPSK	50	50	22.72	22.74	22.73			
20	QPSK	100	0	22.70	22.74	22.66	23.5	0	
20	16QAM	1	0	22.68	22.63	22.77			
20	16QAM	1	49	22.70	22.69	22.76			
20	16QAM	1	99	22.74	22.77	22.71	23.5	0	
20	16QAM	50	0	22.68	22.73	22.73			
20	16QAM	50	24	22.73	22.73	22.72			
20	16QAM	50	50	22.76	22.70	22.79	23.5	0	
20	16QAM	100	0	22.77	22.73	22.70			
20	64QAM	1	0	22.47	22.42	22.48			
20	64QAM	1	49	22.43	22.47	22.52	23.5	0	
20	64QAM	1	99	22.51	22.61	22.60			
20	64QAM	50	0	21.01	21.06	21.07			
20	64QAM	50	24	21.10	21.16	21.06	22.5	1	
20	64QAM	50	50	20.78	20.74	21.03			
20	64QAM	100	0	20.83	20.92	21.14			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	22.54	22.62	22.60	23.5	0	
15	QPSK	1	37	22.61	22.66	22.57			
15	QPSK	1	74	22.63	22.64	22.61			
15	QPSK	36	0	22.51	22.54	22.54	23.5	0	
15	QPSK	36	20	22.60	22.63	22.58			
15	QPSK	36	39	22.60	22.61	22.56			
15	QPSK	75	0	22.59	22.65	22.60	23.5	0	
15	16QAM	1	0	22.55	22.60	22.58			
15	16QAM	1	37	22.48	22.56	22.47			
15	16QAM	1	74	22.60	22.67	22.64	23.5	0	
15	16QAM	36	0	22.50	22.55	22.51			
15	16QAM	36	20	22.56	22.60	22.56			
15	16QAM	36	39	22.55	22.62	22.57	23.5	0	
15	16QAM	75	0	22.63	22.65	22.64			
15	64QAM	1	0	22.28	22.35	22.37			
15	64QAM	1	37	22.30	22.41	22.42	23.5	0	
15	64QAM	1	74	22.35	22.43	22.36			
15	64QAM	36	0	20.92	20.98	20.96			
15	64QAM	36	20	21.01	21.03	21.03	22.5	1	
15	64QAM	36	39	21.00	21.04	21.02			
15	64QAM	75	0	21.01	20.78	20.84			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	22.68	22.71	22.70	23.5	0	
10	QPSK	1	25	22.65	22.75	22.67			
10	QPSK	1	49	22.75	22.76	22.75			
10	QPSK	25	0	22.48	22.60	22.55	23.5	0	
10	QPSK	25	12	22.58	22.68	22.64			
10	QPSK	25	25	22.60	22.69	22.65			
10	QPSK	50	0	22.60	22.70	22.63	23.5	0	
10	16QAM	1	0	22.62	22.74	22.70			
10	16QAM	1	25	22.61	22.69	22.65			
10	16QAM	1	49	22.67	22.68	22.67	23.5	0	
10	16QAM	25	0	22.53	22.63	22.58			
10	16QAM	25	12	22.66	22.73	22.66			
10	16QAM	25	25	22.63	22.70	22.65	23.5	0	
10	16QAM	50	0	22.65	22.73	22.68			
10	64QAM	1	0	22.48	22.56	22.60			
10	64QAM	1	25	22.49	22.57	22.52	23.5	0	
10	64QAM	1	49	22.56	22.64	22.58			
10	64QAM	25	0	20.90	20.99	20.95			
10	64QAM	25	12	21.02	21.12	21.05	22.5	1	
10	64QAM	25	25	20.99	21.15	21.05			
10	64QAM	50	0	21.02	20.82	20.82			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	22.61	22.69	22.62	23.5	0	
5	QPSK	1	12	22.61	22.72	22.67			
5	QPSK	1	24	22.62	22.73	22.75			
5	QPSK	12	0	22.49	22.57	22.53	23.5	0	
5	QPSK	12	7	22.60	22.68	22.68			
5	QPSK	12	13	22.59	22.67	22.65			
5	QPSK	25	0	22.55	22.64	22.57	23.5	0	
5	16QAM	1	0	22.51	22.64	22.63			
5	16QAM	1	12	22.60	22.71	22.64			
5	16QAM	1	24	22.65	22.73	22.70	23.5	0	
5	16QAM	12	0	22.50	22.63	22.59			
5	16QAM	12	7	22.55	22.65	22.63			
5	16QAM	12	13	22.55	22.63	22.62	23.5	0	
5	16QAM	25	0	22.61	22.72	22.60			
5	64QAM	1	0	22.31	22.45	22.37			
5	64QAM	1	12	22.37	22.50	22.46	23.5	0	
5	64QAM	1	24	22.38	22.49	22.47			
5	64QAM	12	0	20.88	21.01	20.96			
5	64QAM	12	7	20.95	21.08	21.04	22.5	1	
5	64QAM	12	13	20.96	21.04	21.02			
5	64QAM	25	0	20.93	21.03	20.95			

ANT4_Band 41 DSI 1/5											
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	40185	40620	41055	41490	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680			
20	QPSK	1	0	20.88	20.50	20.79	20.61	20.63	21.5	0	
20	QPSK	1	49	20.74	20.61	20.67	20.66	20.55			
20	QPSK	1	99	20.68	20.57	20.81	20.76	20.60			
20	QPSK	50	0	20.81	20.42	20.54	20.48	20.52	21.5	0	
20	QPSK	50	24	20.74	20.47	20.63	20.54	20.48			
20	QPSK	50	50	20.70	20.53	20.70	20.62	20.43			
20	QPSK	100	0	20.79	20.52	20.63	20.52	20.52	21.5	0	
20	16QAM	1	0	20.75	20.45	20.67	20.59	20.43			
20	16QAM	1	49	20.67	20.45	20.65	20.58	20.40			
20	16QAM	1	99	20.62	20.48	20.72	20.69	20.45	21.5	0	
20	16QAM	50	0	20.76	20.49	20.62	20.49	20.51			
20	16QAM	50	24	20.72	20.59	20.76	20.54	20.51			
20	16QAM	50	50	20.75	20.60	20.76	20.55	20.46	21.5	0	
20	16QAM	100	0	20.72	20.57	20.67	20.57	20.52			
20	64QAM	1	0	20.69	20.45	20.56	20.70	20.71			
20	64QAM	1	49	20.57	20.38	20.58	20.43	20.67	21.5	0	
20	64QAM	1	99	20.58	20.42	20.63	20.44	20.57			
20	64QAM	50	0	20.71	20.55	20.69	20.70	20.75			
20	64QAM	50	24	20.73	20.67	20.67	20.64	20.73	21.5	0	
20	64QAM	50	50	20.65	20.71	20.79	20.52	20.43			
20	64QAM	100	0	20.48	20.58	20.69	20.77	20.55			
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5			
15	QPSK	1	0	20.71	20.41	20.56	20.52	20.47	21.5	0	
15	QPSK	1	37	20.66	20.36	20.54	20.56	20.39			
15	QPSK	1	74	20.68	20.51	20.68	20.65	20.47			
15	QPSK	36	0	20.68	20.30	20.52	20.41	20.45	21.5	0	
15	QPSK	36	20	20.67	20.45	20.51	20.40	20.36			
15	QPSK	36	39	20.60	20.44	20.63	20.47	20.29			
15	QPSK	75	0	20.64	20.37	20.62	20.38	20.31	21.5	0	
15	16QAM	1	0	20.68	20.46	20.56	20.50	20.42			
15	16QAM	1	37	20.46	20.37	20.45	20.34	20.42			
15	16QAM	1	74	20.60	20.59	20.71	20.65	20.53	21.5	0	
15	16QAM	36	0	20.64	20.32	20.43	20.41	20.42			
15	16QAM	36	20	20.56	20.34	20.53	20.38	20.29			
15	16QAM	36	39	20.61	20.43	20.52	20.40	20.36	21.5	0	
15	16QAM	75	0	20.70	20.45	20.64	20.47	20.46			
15	64QAM	1	0	20.58	20.43	20.55	20.57	20.43			
15	64QAM	1	37	20.55	20.25	20.59	20.47	20.45	21.5	0	
15	64QAM	1	74	20.55	20.42	20.63	20.54	20.53			
15	64QAM	36	0	20.65	20.33	20.51	20.38	20.38			
15	64QAM	36	20	20.61	20.36	20.58	20.44	20.40	21.5	0	
15	64QAM	36	39	20.61	20.37	20.51	20.52	20.31			
15	64QAM	75	0	20.37	20.26	20.18	20.15	20.15			
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501	2547	2593	2639	2685			
10	QPSK	1	0	20.81	20.43	20.63	20.58	20.45	21.5	0	
10	QPSK	1	25	20.72	20.55	20.69	20.70	20.50			
10	QPSK	1	49	20.76	20.58	20.71	20.68	20.41			
10	QPSK	25	0	20.69	20.50	20.45	20.49	20.40	21.5	0	
10	QPSK	25	12	20.73	20.48	20.60	20.44	20.37			
10	QPSK	25	25	20.64	20.36	20.59	20.51	20.34			
10	QPSK	50	0	20.68	20.50	20.62	20.55	20.34	21.5	0	
10	16QAM	1	0	20.77	20.50	20.56	20.49	20.52			
10	16QAM	1	25	20.76	20.47	20.70	20.54	20.40			
10	16QAM	1	49	20.72	20.39	20.69	20.68	20.33	21.5	0	
10	16QAM	25	0	20.69	20.37	20.59	20.44	20.40			
10	16QAM	25	12	20.67	20.49	20.66	20.48	20.40			
10	16QAM	25	25	20.63	20.38	20.62	20.52	20.40	21.5	0	
10	16QAM	50	0	20.66	20.40	20.61	20.49	20.48			
10	64QAM	1	0	20.64	20.29	20.46	20.45	20.37			
10	64QAM	1	25	20.59	20.34	20.53	20.45	20.38	21.5	0	
10	64QAM	1	49	20.67	20.38	20.56	20.46	20.30			
10	64QAM	25	0	20.63	20.42	20.47	20.37	20.43			
10	64QAM	25	12	20.66	20.41	20.61	20.48	20.43	21.5	0	
10	64QAM	25	25	20.66	20.45	20.53	20.51	20.38			
10	64QAM	50	0	20.52	20.13	20.18	20.14	20.11			
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5			
5	QPSK	1	0	20.56	20.34	20.34	20.44	20.31	21.5	0	
5	QPSK	1	12	20.53	20.38	20.50	20.47	20.30			
5	QPSK	1	24	20.56	20.30	20.52	20.39	20.36			
5	QPSK	12	0	20.70	20.48	20.48	20.44	20.37	21.5	0	
5	QPSK	12	7	20.78	20.40	20.69	20.59	20.37			
5	QPSK	12	13	20.76	20.42	20.59	20.54	20.37			
5	QPSK	25	0	20.64	20.39	20.63	20.56	20.34	21.5	0	
5	16QAM	1	0	20.76	20.38	20.54	20.49	20.45			
5	16QAM	1	12	20.86	20.53	20.74	20.63	20.54			
5	16QAM	1	24	20.81	20.54	20.64	20.67	20.39	21.5	0	
5	16QAM	12	0	20.67	20.38	20.46	20.54	20.33			
5	16QAM	12	7	20.71	20.46	20.58	20.63	20.34			
5	16QAM	12	13	20.70	20.40	20.60	20.59	20.34	21.5	0	
5	16QAM	25	0	20.73	20.48	20.60	20.54	20.47			
5	64QAM	1	0	20.79	20.47	20.57	20.49	20.40			
5	64QAM	1	12	20.73	20.48	20.62	20.66	20.45	21.5	0	
5	64QAM	1	24	20.78	20.50	20.56	20.62	20.42			
5	64QAM	12	0	20.69	20.43	20.49	20.47	20.32			
5	64QAM	12	7	20.73	20.42	20.60	20.62	20.35	21.5	0	
5	64QAM	12	13	20.71	20.37	20.55	20.51	20.35			
5	64QAM	25	0	20.68	20.44	20.53	20.57	20.37			

ANT4_Band 41 DSI 3											
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	40185	40620	41055	41490	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680			
20	QPSK	1	0	22.83	22.49	22.75	22.64	22.64	23.5	0	
20	QPSK	1	49	22.76	22.55	22.68	22.59	22.50			
20	QPSK	1	99	22.70	22.54	22.78	22.70	22.53			
20	QPSK	50	0	22.76	22.41	22.57	22.48	22.50	23.5	0	
20	QPSK	50	24	22.70	22.49	22.65	22.51	22.47			
20	QPSK	50	50	22.65	22.50	22.67	22.57	22.45			
20	QPSK	100	0	22.73	22.51	22.64	22.51	22.45	23.5	0	
20	16QAM	1	0	22.72	22.46	22.71	22.63	22.47			
20	16QAM	1	49	22.64	22.41	22.57	22.51	22.35	23.5	0	
20	16QAM	1	99	22.60	22.47	22.71	22.62	22.41			
20	16QAM	50	0	22.75	22.43	22.60	22.53	22.53	23.5	0	
20	16QAM	50	24	22.73	22.53	22.69	22.53	22.49			
20	16QAM	50	50	22.70	22.55	22.69	22.60	22.45			
20	16QAM	100	0	22.72	22.52	22.67	22.52	22.45	23.5	0	
20	64QAM	1	0	22.67	22.44	22.56	22.64	22.72			
20	64QAM	1	49	22.58	22.34	22.55	22.47	22.60			
20	64QAM	1	99	22.57	22.37	22.62	22.47	22.51	23.5	0	
20	64QAM	50	0	21.70	21.58	21.72	21.66	21.71			
20	64QAM	50	24	21.68	21.66	21.68	21.66	21.68			
20	64QAM	50	50	21.61	21.66	21.82	21.47	21.42	22.5	1	
20	64QAM	100	0	21.47	21.61	21.64	21.74	21.58			
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5			
15	QPSK	1	0	22.68	22.42	22.59	22.47	22.47	23.5	0	
15	QPSK	1	37	22.63	22.39	22.54	22.49	22.33			
15	QPSK	1	74	22.62	22.54	22.67	22.61	22.42			
15	QPSK	36	0	22.64	22.32	22.47	22.42	22.41	23.5	0	
15	QPSK	36	20	22.63	22.39	22.55	22.40	22.35			
15	QPSK	36	39	22.59	22.40	22.56	22.48	22.32			
15	QPSK	75	0	22.62	22.41	22.57	22.41	22.34	23.5	0	
15	16QAM	1	0	22.64	22.42	22.49	22.50	22.43			
15	16QAM	1	37	22.45	22.33	22.40	22.32	22.35			
15	16QAM	1	74	22.60	22.53	22.63	22.58	22.48	23.5	0	
15	16QAM	36	0	22.61	22.29	22.45	22.39	22.39			
15	16QAM	36	20	22.58	22.36	22.52	22.39	22.34			
15	16QAM	36	39	22.57	22.37	22.52	22.45	22.33	23.5	0	
15	16QAM	75	0	22.66	22.43	22.57	22.45	22.42			
15	64QAM	1	0	22.59	22.37	22.51	22.53	22.42			
15	64QAM	1	37	22.54	22.29	22.52	22.46	22.37	23.5	0	
15	64QAM	1	74	22.55	22.40	22.57	22.49	22.46			
15	64QAM	36	0	21.66	21.34	21.48	21.42	21.41			
15	64QAM	36	20	21.60	21.40	21.56	21.42	21.39	22.5	1	
15	64QAM	36	39	21.60	21.42	21.55	21.52	21.35			
15	64QAM	75	0	21.41	21.31	21.15	21.19	21.16			
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501	2547	2593	2639	2685			
10	QPSK	1	0	22.81	22.46	22.59	22.54	22.45	23.5	0	
10	QPSK	1	25	22.75	22.48	22.66	22.64	22.43			
10	QPSK	1	49	22.73	22.54	22.67	22.65	22.41			
10	QPSK	25	0	22.68	22.43	22.48	22.44	22.38	23.5	0	
10	QPSK	25	12	22.68	22.42	22.58	22.46	22.38			
10	QPSK	25	25	22.66	22.39	22.60	22.53	22.34			
10	QPSK	50	0	22.69	22.43	22.61	22.48	22.37	23.5	0	
10	16QAM	1	0	22.74	22.47	22.59	22.54	22.45			
10	16QAM	1	25	22.71	22.42	22.65	22.57	22.42			
10	16QAM	1	49	22.67	22.39	22.64	22.61	22.36	23.5	0	
10	16QAM	25	0	22.70	22.39	22.52	22.49	22.43			
10	16QAM	25	12	22.71	22.47	22.63	22.49	22.44			
10	16QAM	25	25	22.68	22.43	22.60	22.57	22.32	23.5	0	
10	16QAM	50	0	22.70	22.44	22.62	22.50	22.43			
10	64QAM	1	0	22.62	22.33	22.50	22.40	22.35			
10	64QAM	1	25	22.58	22.27	22.46	22.41	22.30	23.5	0	
10	64QAM	1	49	22.61	22.31	22.52	22.48	22.27			
10	64QAM	25	0	21.68	21.39	21.47	21.42	21.40			
10	64QAM	25	12	21.69	21.44	21.60	21.48	21.41	22.5	1	
10	64QAM	25	25	21.66	21.41	21.57	21.52	21.35			
10	64QAM	50	0	21.48	21.10	21.20	21.13	21.00			
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5			
5	QPSK	1	0	22.59	22.23	22.39	22.37	22.29	23.5	0	
5	QPSK	1	12	22.56	22.31	22.47	22.42	22.23			
5	QPSK	1	24	22.56	22.30	22.45	22.41	22.23			
5	QPSK	12	0	22.71	22.43	22.52	22.48	22.37	23.5	0	
5	QPSK	12	7	22.72	22.45	22.64	22.58	22.39			
5	QPSK	12	13	22.68	22.43	22.58	22.56	22.34			
5	QPSK	25	0	22.68	22.38	22.60	22.51	22.33	23.5	0	
5	16QAM	1	0	22.76	22.36	22.53	22.49	22.40			
5	16QAM	1	12	22.80	22.50	22.71	22.66	22.49			
5	16QAM	1	24	22.75	22.51	22.65	22.64	22.37	23.5	0	
5	16QAM	12	0	22.68	22.41	22.50	22.49	22.33			
5	16QAM	12	7	22.70	22.43	22.60	22.59	22.39			
5	16QAM	12	13	22.70	22.41	22.58	22.53	22.36	23.5	0	
5	16QAM	25	0	22.71	22.46	22.61	22.57	22.39			
5	64QAM	1	0	22.74	22.39	22.55	22.49	22.39			
5	64QAM	1	12	22.70	22.45	22.64	22.58	22.41	23.5	0	
5	64QAM	1	24	22.71	22.45	22.60	22.58	22.34			
5	64QAM	12	0	21.67	21.39	21.48	21.50	21.34			
5	64QAM	12	7	21.70	21.42	21.60	21.59	21.37	22.5	1	
5	64QAM	12	13	21.67	21.41	21.57	21.54	21.33			
5	64QAM	25	0	21.69	21.40	21.56	21.54	21.35			

ANT8

ANT8_Band 4 Full Power / DSI 1/3/4/5										
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				20550	20175	20300				
Frequency (MHz)				1720	1732.5	1745				
20	QPSK	1	0	23.01	23.41	23.02	25	0		
20	QPSK	1	49	23.18	23.18	23.12				
20	QPSK	1	99	23.18	23.11	23.07				
20	QPSK	50	0	22.40	22.44	22.34				
20	QPSK	50	24	22.41	22.37	22.25	24	1		
20	QPSK	50	50	22.31	22.26	22.25				
20	QPSK	100	0	22.32	22.39	22.33				
20	16QAM	1	0	22.16	22.53	22.19				
20	16QAM	1	49	22.61	22.50	22.50	24	1		
20	16QAM	1	99	22.54	22.38	22.55				
20	16QAM	50	0	21.42	21.38	21.36				
20	16QAM	50	24	21.41	21.37	21.28				
20	16QAM	50	50	21.34	21.26	21.26	23	2		
20	16QAM	100	0	21.40	21.35	21.32				
20	64QAM	1	0	21.17	21.64	21.18				
20	64QAM	1	49	21.62	21.27	21.35				
20	64QAM	1	99	21.51	21.26	21.50	22	3		
20	64QAM	50	0	20.39	20.36	20.36				
20	64QAM	50	24	20.39	20.35	20.24				
20	64QAM	50	50	20.31	20.26	20.25				
20	64QAM	100	0	20.39	20.35	20.34				
Channel				20525	20175	20325	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1717.5	1732.5	1747.5				
15	QPSK	1	0	23.12	23.39	23.05	25	0		
15	QPSK	1	37	23.23	23.20	23.16				
15	QPSK	1	74	23.18	23.06	23.13				
15	QPSK	36	0	22.42	22.35	22.31				
15	QPSK	36	20	22.38	22.27	22.30	24	1		
15	QPSK	36	39	22.34	22.29	22.27				
15	QPSK	75	0	22.40	22.38	22.33				
15	16QAM	1	0	22.59	22.69	22.50				
15	16QAM	1	37	22.53	22.46	22.44	24	1		
15	16QAM	1	74	22.52	22.45	22.54				
15	16QAM	36	0	21.37	21.36	21.31				
15	16QAM	36	20	21.38	21.35	21.33				
15	16QAM	36	39	21.31	21.30	21.25	23	2		
15	16QAM	75	0	21.42	21.38	21.33				
15	64QAM	1	0	21.15	21.59	21.21				
15	64QAM	1	37	21.50	21.33	21.44				
15	64QAM	1	74	21.57	21.36	21.57	23	2		
15	64QAM	36	0	20.41	20.35	20.35				
15	64QAM	36	20	20.39	20.36	20.30				
15	64QAM	36	39	20.33	20.29	20.27				
15	64QAM	75	0	20.39	20.36	20.33	22	3		
15	64QAM	75	0	20.39	20.36	20.33				
Channel				20500	20175	20350	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1715	1732.5	1750				
10	QPSK	1	0	23.12	23.27	23.18	25	0		
10	QPSK	1	25	23.18	23.25	23.20				
10	QPSK	1	49	23.24	23.18	23.27				
10	QPSK	25	0	22.35	22.24	22.28				
10	QPSK	25	12	22.32	22.30	22.37	24	1		
10	QPSK	25	25	22.46	22.25	22.38				
10	QPSK	50	0	22.49	22.40	22.39				
10	16QAM	1	0	22.29	22.60	22.59				
10	16QAM	1	25	22.70	22.58	22.61	24	1		
10	16QAM	1	49	22.62	22.50	22.59				
10	16QAM	25	0	21.32	21.31	21.26				
10	16QAM	25	12	21.48	21.43	21.38				
10	16QAM	25	25	21.46	21.40	21.39	23	2		
10	16QAM	50	0	21.46	21.39	21.37				
10	64QAM	1	0	21.24	21.61	21.56				
10	64QAM	1	25	21.70	21.56	21.67				
10	64QAM	1	49	21.71	21.55	21.69	23	2		
10	64QAM	25	0	20.38	20.32	20.31				
10	64QAM	25	12	20.51	20.43	20.43				
10	64QAM	25	25	20.45	20.41	20.37				
10	64QAM	50	0	20.43	20.39	20.37	22	3		
10	64QAM	50	0	20.43	20.39	20.37				
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1715	1732.5	1750				
5	QPSK	1	0	23.09	23.23	23.20	25	0		
5	QPSK	1	12	23.39	23.33	23.32				
5	QPSK	1	24	23.33	23.31	23.33				
5	QPSK	12	0	22.43	22.41	22.27				
5	QPSK	12	7	22.50	22.44	22.31	24	1		
5	QPSK	12	13	22.46	22.41	22.42				
5	QPSK	25	0	22.42	22.39	22.32				
5	16QAM	1	0	22.44	22.54	22.50				
5	16QAM	1	12	22.63	22.64	22.61	24	1		
5	16QAM	1	24	22.69	22.64	22.66				
5	16QAM	12	0	21.47	21.44	21.32				
5	16QAM	12	7	21.53	21.47	21.39				
5	16QAM	12	13	21.48	21.44	21.41	23	2		
5	16QAM	25	0	21.44	21.42	21.32				
5	64QAM	1	0	21.35	21.49	21.47				
5	64QAM	1	12	21.55	21.54	21.44				
5	64QAM	1	24	21.60	21.57	21.55	23	2		
5	64QAM	12	0	20.41	20.36	20.31				
5	64QAM	12	7	20.47	20.41	20.31				
5	64QAM	12	13	20.43	20.38	20.36				
5	64QAM	25	0	20.45	20.39	20.31	22	3		
5	64QAM	25	0	20.45	20.39	20.31				
Channel				19955	20175	20350	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1711.5	1732.5	1753.5				
3	QPSK	1	0	23.13	23.22	23.21	25	0		
3	QPSK	1	8	23.40	23.34	23.33				
3	QPSK	1	14	23.31	23.30	23.25				
3	QPSK	8	0	22.35	22.39	22.30				
3	QPSK	8	4	22.49	22.43	22.38	24	1		
3	QPSK	8	7	22.46	22.37	22.34				
3	QPSK	15	0	22.44	22.40	22.38				
3	16QAM	1	0	22.38	22.57	22.47				
3	16QAM	1	8	22.65	22.63	22.62	24	1		
3	16QAM	1	14	22.65	22.65	22.64				
3	16QAM	8	0	21.48	21.46	21.40				
3	16QAM	8	4	21.53	21.48	21.48				
3	16QAM	8	7	21.52	21.47	21.43	23	2		
3	16QAM	15	0	21.49	21.42	21.40				
3	64QAM	1	0	21.49	21.49	21.43				
3	64QAM	1	8	21.60	21.56	21.57				
3	64QAM	1	14	21.60	21.54	21.54	23	2		
3	64QAM	8	0	20.45	20.40	20.32				
3	64QAM	8	4	20.50	20.44	20.42				
3	64QAM	8	7	20.48	20.43	20.41				
3	64QAM	15	0	20.46	20.39	20.38	22	3		
3	64QAM	15	0	20.46	20.39	20.38				
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1710.7	1732.5	1754.3				
1.4	QPSK	1	0	23.12	23.15	23.13	25	0		
1.4	QPSK	1	3	23.24	23.22	23.19				
1.4	QPSK	1	5	23.17	23.16	23.16				
1.4	QPSK	3	0	23.20	23.20	23.18				
1.4	QPSK	3	1	23.24	23.23	22.27	25	0		
1.4	QPSK	3	3	23.25	23.22	23.20				
1.4	QPSK	6	0	22.25	22.29	22.28				
1.4	16QAM	1	0	22.27	22.47	22.43				
1.4	16QAM	1	3	22.27	22.51	22.50	24	1		
1.4	16QAM	1	5	22.48	22.48	22.49				
1.4	16QAM	3	0	22.30	22.28	22.24				
1.4	16QAM	3	1	22.38	22.36	22.36				
1.4	16QAM	3	3	22.29	22.25	22.29	24	1		
1.4	16QAM	6	0	21.41	21.34	21.33				
1.4	64QAM	1	0	21.36	21.53	21.43				
1.4	64QAM	1	3	21.54	21.51	21.49				
1.4	64QAM	1	5	21.47	21.52	21.48	23	2		
1.4	64QAM	3	0	21.31	21.31	21.31				
1.4	64QAM	3	1	21.37	21.37	21.35				
1.4	64QAM	3	3	21.32	21.28	21.31				
1.4	64QAM	6	0	20.34	20.29	20.28	22	3		
1.4	64QAM	6	0	20.34	20.29	20.28				

ANT8_Band 38 Full Power									
BW [MHz]	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	25	0	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	23.49	23.39	23.72			
20	QPSK	1	49	23.25	23.41	23.69			
20	QPSK	1	99	23.26	23.60	23.63	24	1	
20	QPSK	50	0	22.36	22.37	22.78			
20	QPSK	50	24	22.34	22.48	22.77			
20	QPSK	50	50	22.39	22.59	22.70			
20	QPSK	100	0	22.27	22.47	22.76	24	1	
20	16QAM	1	0	22.58	22.52	22.80			
20	16QAM	1	49	22.38	22.52	22.79			
20	16QAM	1	99	22.38	22.65	22.79			
20	16QAM	50	0	21.56	21.45	21.81	23	2	
20	16QAM	50	24	21.51	21.55	21.81			
20	16QAM	50	50	21.41	21.74	21.74			
20	16QAM	100	0	21.40	21.59	21.76			
20	64QAM	1	0	21.23	21.14	21.46	23	2	
20	64QAM	1	49	21.05	21.00	21.39			
20	64QAM	1	99	21.12	21.35	21.37			
20	64QAM	50	0	20.35	20.27	20.45			
20	64QAM	50	24	20.36	20.40	20.51	22	3	
20	64QAM	50	50	20.08	20.41	20.38			
20	64QAM	100	0	20.33	20.49	20.63			
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5	25	0	
15	QPSK	1	0	23.29	23.22	23.60			
15	QPSK	1	37	23.13	23.24	23.60			
15	QPSK	1	74	23.11	23.49	23.57			
15	QPSK	36	0	22.30	22.33	22.76	24	1	
15	QPSK	36	20	22.32	22.42	22.78			
15	QPSK	36	39	22.37	22.50	22.78			
15	QPSK	75	0	22.36	22.41	22.81			
15	16QAM	1	0	22.42	22.37	22.74	24	1	
15	16QAM	1	37	22.33	22.39	22.70			
15	16QAM	1	74	22.27	22.54	22.77			
15	16QAM	36	0	21.42	21.40	21.70			
15	16QAM	36	20	21.40	21.47	21.75	23	2	
15	16QAM	36	39	21.35	21.64	21.75			
15	16QAM	75	0	21.40	21.53	21.84			
15	64QAM	1	0	21.10	21.33	21.40			
15	64QAM	1	37	21.16	21.08	21.40	23	2	
15	64QAM	1	74	21.18	21.28	21.26			
15	64QAM	36	0	20.32	20.23	20.58			
15	64QAM	36	20	20.21	20.40	20.70			
15	64QAM	36	39	20.21	20.50	20.68	22	3	
15	64QAM	75	0	20.35	20.30	20.65			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615	25	0	
10	QPSK	1	0	23.25	23.28	23.64			
10	QPSK	1	25	23.20	23.27	23.46			
10	QPSK	1	49	23.26	23.43	23.54			
10	QPSK	25	0	22.33	22.31	22.71	24	1	
10	QPSK	25	12	22.33	22.40	22.76			
10	QPSK	25	25	22.35	22.43	22.71			
10	QPSK	50	0	22.31	22.32	22.77			
10	16QAM	1	0	22.30	22.29	22.74	24	1	
10	16QAM	1	25	22.31	22.39	22.71			
10	16QAM	1	49	22.32	22.55	22.70			
10	16QAM	25	0	21.47	21.45	21.75			
10	16QAM	25	12	21.50	21.51	21.85	23	2	
10	16QAM	25	25	21.48	21.59	21.81			
10	16QAM	50	0	21.41	21.49	21.84			
10	64QAM	1	0	21.02	21.00	21.42			
10	64QAM	1	25	21.21	21.03	21.36	23	2	
10	64QAM	1	49	21.19	21.16	21.40			
10	64QAM	25	0	20.31	20.26	20.45			
10	64QAM	25	12	20.16	20.33	20.47			
10	64QAM	25	25	20.25	20.34	20.64	22	3	
10	64QAM	50	0	20.12	20.28	20.55			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5	25	0	
5	QPSK	1	0	23.26	23.21	23.63			
5	QPSK	1	12	23.21	23.27	23.65			
5	QPSK	1	24	23.24	23.30	23.67			
5	QPSK	12	0	22.36	22.36	22.73	24	1	
5	QPSK	12	7	22.36	22.43	22.82			
5	QPSK	12	13	22.33	22.44	22.78			
5	QPSK	25	0	22.39	22.35	22.80			
5	16QAM	1	0	22.37	22.38	22.81	24	1	
5	16QAM	1	12	22.38	22.39	22.85			
5	16QAM	1	24	22.38	22.47	22.85			
5	16QAM	12	0	21.48	21.44	21.75			
5	16QAM	12	7	21.48	21.48	21.80	23	2	
5	16QAM	12	13	21.43	21.48	21.79			
5	16QAM	25	0	21.49	21.51	21.84			
5	64QAM	1	0	21.08	21.02	21.39			
5	64QAM	1	12	21.11	21.03	21.36	23	2	
5	64QAM	1	24	21.14	21.10	21.47			
5	64QAM	12	0	20.24	20.16	20.54			
5	64QAM	12	7	20.32	20.28	20.55			
5	64QAM	12	13	20.16	20.27	20.54	22	3	
5	64QAM	25	0	20.19	20.18	20.61			

ANT8_Band 41 Full Power										
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	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	24.02	23.64	23.69	23.65	23.64	25	0
20	QPSK	1	49	23.85	23.65	23.57	23.57	23.52		
20	QPSK	1	99	23.79	23.59	23.65	23.56	23.52		
20	QPSK	50	0	23.07	22.84	22.73	22.65	22.63		
20	QPSK	50	24	23.03	22.84	22.77	22.71	22.57	24	1
20	QPSK	50	50	22.98	22.79	22.74	22.67	22.58		
20	QPSK	100	0	23.03	22.83	22.78	22.63	22.65		
20	16QAM	1	0	22.98	22.79	22.76	22.74	22.66		
20	16QAM	1	49	22.94	22.72	22.65	22.65	22.61	24	1
20	16QAM	1	99	22.92	22.71	22.67	22.70	22.54		
20	16QAM	50	0	22.10	21.86	21.73	21.68	21.84		
20	16QAM	50	24	22.07	21.86	21.80	21.74	21.77		
20	16QAM	50	50	22.05	21.82	21.76	21.71	21.64	23	2
20	16QAM	100	0	22.05	21.83	21.76	21.63	21.74		
20	64QAM	1	0	21.71	21.30	21.60	21.44	21.46		
20	64QAM	1	49	21.64	21.44	21.44	21.41	21.25		
20	64QAM	1	99	21.67	21.28	21.44	21.42	21.28	23	2
20	64QAM	50	0	20.84	20.71	20.44	20.38	20.47		
20	64QAM	50	24	20.78	20.58	20.48	20.37	20.54		
20	64QAM	50	50	20.73	20.63	20.51	20.45	20.42		
20	64QAM	100	0	20.97	20.63	20.60	20.52	20.57	22	3
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	23.85	23.68	23.62	23.56	23.63	25	0
15	QPSK	1	37	23.82	23.63	23.58	23.48	23.48		
15	QPSK	1	74	23.78	23.70	23.66	23.59	23.45		
15	QPSK	36	0	23.05	22.75	22.70	22.64	22.73		
15	QPSK	36	20	23.00	22.79	22.75	22.63	22.66	24	1
15	QPSK	36	39	22.99	22.76	22.73	22.65	22.59		
15	QPSK	75	0	23.02	22.81	22.74	22.60	22.68		
15	16QAM	1	0	22.90	22.75	22.75	22.70	22.76		
15	16QAM	1	37	22.78	22.56	22.54	22.60	22.47	24	1
15	16QAM	1	74	22.95	22.86	22.76	22.78	22.63		
15	16QAM	36	0	22.02	21.72	21.67	21.60	21.70		
15	16QAM	36	20	21.98	21.74	21.73	21.60	21.61		
15	16QAM	36	39	21.99	21.74	21.72	21.63	21.57	23	2
15	16QAM	75	0	22.07	21.81	21.78	21.62	21.70		
15	64QAM	1	0	21.86	21.45	21.59	21.35	21.53		
15	64QAM	1	37	21.74	21.29	21.36	21.33	21.33		
15	64QAM	1	74	21.74	21.53	21.54	21.45	21.29	23	2
15	64QAM	36	0	20.84	20.57	20.47	20.53	20.59		
15	64QAM	36	20	20.77	20.56	20.63	20.40	20.53		
15	64QAM	36	39	20.87	20.53	20.59	20.49	20.45		
15	64QAM	75	0	20.82	20.71	20.65	20.34	20.44	22	3
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	23.76	23.70	23.65	23.60	23.69	25	0
10	QPSK	1	25	23.91	23.73	23.69	23.65	23.59		
10	QPSK	1	49	23.91	23.70	23.65	23.65	23.54		
10	QPSK	25	0	23.07	22.84	22.74	22.67	22.75		
10	QPSK	25	12	23.06	22.84	22.81	22.74	22.75	24	1
10	QPSK	25	25	23.03	22.82	22.79	22.76	22.69		
10	QPSK	50	0	23.08	22.84	22.79	22.76	22.75		
10	16QAM	1	0	23.08	22.86	22.79	22.78	22.82		
10	16QAM	1	25	23.03	22.82	22.76	22.78	22.75	24	1
10	16QAM	1	49	23.01	22.82	22.72	22.73	22.69		
10	16QAM	25	0	22.10	21.86	21.75	21.68	21.78		
10	16QAM	25	12	22.09	21.88	21.85	21.78	21.77		
10	16QAM	25	25	22.06	21.82	21.79	21.70	21.68	23	2
10	16QAM	50	0	22.10	21.85	21.82	21.78	21.79		
10	64QAM	1	0	21.89	21.86	21.56	21.56	21.52		
10	64QAM	1	25	21.88	21.51	21.65	21.41	21.43		
10	64QAM	1	49	21.85	21.45	21.58	21.44	21.50	23	2
10	64QAM	25	0	20.81	20.52	20.59	20.44	20.47		
10	64QAM	25	12	20.90	20.75	20.52	20.53	20.52		
10	64QAM	25	25	20.73	20.64	20.64	20.53	20.41		
10	64QAM	50	0	20.82	20.61	20.58	20.50	20.59	22	3
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	24.01	23.73	23.61	23.57	23.67	25	0
5	QPSK	1	12	23.93	23.69	23.69	23.59	23.60		
5	QPSK	1	24	23.97	23.66	23.62	23.58	23.59		
5	QPSK	12	0	23.07	22.82	22.72	22.68	22.70		
5	QPSK	12	7	23.08	22.84	22.84	22.70	22.72	24	1
5	QPSK	12	13	23.05	22.81	22.78	22.70	22.68		
5	QPSK	25	0	23.04	22.84	22.77	22.65	22.70		
5	16QAM	1	0	23.13	22.86	22.80	22.73	22.83		
5	16QAM	1	12	23.08	22.90	22.88	22.82	22.74	24	1
5	16QAM	1	24	23.15	22.86	22.89	22.77	22.74		
5	16QAM	12	0	22.08	21.81	21.72	21.66	21.72		
5	16QAM	12	7	22.08	21.81	21.80	21.68	21.72		
5	16QAM	12	13	22.06	21.84	21.80	21.71	21.67	23	2
5	16QAM	25	0	22.09	21.86	21.80	21.70	21.73		
5	64QAM	1	0	21.59	21.41	21.31	21.31	21.31		
5	64QAM	1	12	21.68	21.41	21.45	21.31	21.42		
5	64QAM	1	24	21.65	21.45	21.33	21.37	21.27	23	2
5	64QAM	12	0	20.82	20.51	20.48	20.44	20.58		
5	64QAM	12	7	20.84	20.71	20.53	20.39	20.58		
5	64QAM	12	13	20.77	20.62	20.52	20.44	20.41		
5	64QAM	25	0	20.85	20.50	20.49	20.40	20.53	22	3

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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				20850	21100	21350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	20.21	20.40	20.11	21	0
20	QPSK	1	49	20.19	20.20	20.20		
20	QPSK	1	99	20.18	20.21	20.20		
20	QPSK	50	0	20.28	20.39	20.22	21	0
20	QPSK	50	24	20.38	20.30	20.28		
20	QPSK	50	50	20.32	20.27	20.35		
20	QPSK	100	0	20.34	20.36	20.26	21	0
20	16QAM	1	0	20.21	20.19	20.12		
20	16QAM	1	49	20.16	20.29	20.22		
20	16QAM	1	99	20.17	20.24	20.23	21	0
20	16QAM	50	0	20.27	20.29	20.27		
20	16QAM	50	24	20.36	20.33	20.30		
20	16QAM	50	50	20.32	20.30	20.36	21	0
20	16QAM	100	0	20.32	20.28	20.27		
20	64QAM	1	0	20.12	20.13	20.05		
20	64QAM	1	49	20.06	20.31	20.07	21	0
20	64QAM	1	99	19.99	20.27	20.20		
20	64QAM	50	0	20.23	20.28	20.24		
20	64QAM	50	24	20.34	20.34	20.29	21	0
20	64QAM	50	50	20.30	20.28	19.95		
20	64QAM	100	0	20.33	20.20	20.23		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	20.22	20.19	20.19	21	0
15	QPSK	1	37	20.21	20.23	20.22		
15	QPSK	1	74	20.21	20.18	20.25		
15	QPSK	36	0	20.29	20.25	20.24	21	0
15	QPSK	36	20	20.39	20.28	20.35		
15	QPSK	36	39	20.34	20.25	20.32		
15	QPSK	75	0	20.34	20.28	20.23	21	0
15	16QAM	1	0	20.19	20.18	20.14		
15	16QAM	1	37	20.24	20.23	20.23		
15	16QAM	1	74	20.17	20.23	20.20	21	0
15	16QAM	36	0	20.28	20.29	20.28		
15	16QAM	36	20	20.36	20.30	20.36		
15	16QAM	36	39	20.33	20.28	20.34	21	0
15	16QAM	75	0	20.34	20.29	20.27		
15	64QAM	1	0	20.14	20.08	20.08		
15	64QAM	1	37	20.05	20.29	20.07	21	0
15	64QAM	1	74	20.06	20.26	20.19		
15	64QAM	36	0	20.26	20.28	20.28		
15	64QAM	36	20	20.36	20.31	20.38	21	0
15	64QAM	36	39	20.31	20.28	20.33		
15	64QAM	75	0	19.90	20.00	20.02		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	20.18	20.14	20.12	21	0
10	QPSK	1	25	20.14	20.07	20.16		
10	QPSK	1	49	20.15	20.11	20.18		
10	QPSK	25	0	20.26	20.24	20.25	21	0
10	QPSK	25	12	20.37	20.25	20.27		
10	QPSK	25	25	20.35	20.22	20.32		
10	QPSK	50	0	20.37	20.26	20.23	21	0
10	16QAM	1	0	20.21	20.18	20.17		
10	16QAM	1	25	20.20	20.17	20.19		
10	16QAM	1	49	20.19	20.17	20.19	21	0
10	16QAM	25	0	20.34	20.23	20.26		
10	16QAM	25	12	20.38	20.26	20.29		
10	16QAM	25	25	20.33	20.25	20.33	21	0
10	16QAM	50	0	20.35	20.29	20.28		
10	64QAM	1	0	20.23	20.27	20.18		
10	64QAM	1	25	20.19	20.26	20.24	21	0
10	64QAM	1	49	20.26	20.26	20.24		
10	64QAM	25	0	20.25	20.25	20.23		
10	64QAM	25	12	20.30	20.29	20.30	21	0
10	64QAM	25	25	20.35	20.24	20.32		
10	64QAM	50	0	20.06	20.05	20.00		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	20.19	20.16	20.21	21	0
5	QPSK	1	12	20.24	20.21	20.22		
5	QPSK	1	24	20.26	20.20	20.20		
5	QPSK	12	0	20.30	20.29	20.35	21	0
5	QPSK	12	7	20.37	20.30	20.32		
5	QPSK	12	13	20.37	20.35	20.32		
5	QPSK	25	0	20.37	20.29	20.31	21	0
5	16QAM	1	0	20.18	20.19	20.25		
5	16QAM	1	12	20.21	20.16	20.15		
5	16QAM	1	24	20.21	20.20	20.17	21	0
5	16QAM	12	0	20.21	20.00	20.01		
5	16QAM	12	7	20.10	19.96	19.99		
5	16QAM	12	13	20.06	20.05	20.00	21	0
5	16QAM	25	0	20.07	19.99	19.99		
5	64QAM	1	0	20.08	20.10	20.09		
5	64QAM	1	12	20.12	20.05	20.02	21	0
5	64QAM	1	24	20.17	20.11	20.05		
5	64QAM	12	0	20.32	20.31	20.32		
5	64QAM	12	7	20.31	20.31	20.34	21	0
5	64QAM	12	13	20.30	20.37	20.34		
5	64QAM	25	0	20.32	20.33	20.33		

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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				20850	21100	21350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	19.15	19.33	19.09	20	0
20	QPSK	1	49	19.14	19.15	19.12		
20	QPSK	1	99	19.08	19.17	19.19		
20	QPSK	50	0	19.22	19.32	19.16	20	0
20	QPSK	50	24	19.31	19.23	19.19		
20	QPSK	50	50	19.27	19.21	19.30		
20	QPSK	100	0	19.27	19.30	19.23	20	0
20	16QAM	1	0	19.17	19.13	19.07		
20	16QAM	1	49	19.11	19.14	19.15		
20	16QAM	1	99	19.14	19.09	19.19	20	0
20	16QAM	50	0	19.25	19.20	19.18		
20	16QAM	50	24	19.31	19.25	19.21		
20	16QAM	50	50	19.30	19.22	19.28	20	0
20	16QAM	100	0	19.29	19.21	19.19		
20	64QAM	1	0	19.06	19.06	19.01		
20	64QAM	1	49	19.18	19.04	19.15	20	0
20	64QAM	1	99	18.93	19.13	19.13		
20	64QAM	50	0	19.22	19.20	19.15		
20	64QAM	50	24	19.31	19.21	19.19	20	0
20	64QAM	50	50	19.27	19.20	18.88		
20	64QAM	100	0	19.01	19.00	19.05		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	19.22	19.21	19.17		
15	QPSK	1	37	19.23	19.23	19.22		
15	QPSK	1	74	19.20	19.18	19.24		
15	QPSK	36	0	19.17	19.13	19.17	20	0
15	QPSK	36	20	19.25	19.18	19.26		
15	QPSK	36	39	19.22	19.14	19.20		
15	QPSK	75	0	19.24	19.15	19.15	20	0
15	16QAM	1	0	19.22	19.05	19.07		
15	16QAM	1	37	19.20	19.17	19.19		
15	16QAM	1	74	19.14	19.12	19.22	20	0
15	16QAM	36	0	19.20	19.16	19.11		
15	16QAM	36	20	19.25	19.18	19.24		
15	16QAM	36	39	19.22	19.15	19.24	20	0
15	16QAM	75	0	19.25	19.15	19.15		
15	64QAM	1	0	19.07	19.03	19.06		
15	64QAM	1	37	19.14	19.08	19.21	20	0
15	64QAM	1	74	19.12	19.08	19.13		
15	64QAM	36	0	19.16	19.13	19.13		
15	64QAM	36	20	19.26	19.17	19.21	20	0
15	64QAM	36	39	19.22	19.14	19.20		
15	64QAM	75	0	19.20	19.11	19.03		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	19.17	19.15	19.15		
10	QPSK	1	25	19.19	19.15	19.14		
10	QPSK	1	49	19.20	19.17	19.16		
10	QPSK	25	0	19.21	19.16	19.14	20	0
10	QPSK	25	12	19.28	19.17	19.18		
10	QPSK	25	25	19.25	19.14	19.21		
10	QPSK	50	0	19.27	19.18	19.16	20	0
10	16QAM	1	0	19.22	19.14	19.10		
10	16QAM	1	25	19.19	19.15	19.11		
10	16QAM	1	49	19.18	19.18	19.21	20	0
10	16QAM	25	0	19.17	19.12	19.13		
10	16QAM	25	12	19.31	19.18	19.18		
10	16QAM	25	25	19.25	19.18	19.22	20	0
10	16QAM	50	0	19.27	19.16	19.13		
10	64QAM	1	0	19.27	19.19	19.19		
10	64QAM	1	25	19.18	19.25	19.19	20	0
10	64QAM	1	49	19.25	19.28	19.30		
10	64QAM	25	0	19.19	19.15	19.13		
10	64QAM	25	12	19.32	19.19	19.19	20	0
10	64QAM	25	25	19.25	19.16	19.22		
10	64QAM	50	0	18.99	19.00	18.95		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	19.19	19.11	19.17		
5	QPSK	1	12	19.23	19.21	19.18		
5	QPSK	1	24	19.28	19.22	19.19		
5	QPSK	12	0	19.28	19.20	19.20	20	0
5	QPSK	12	7	19.28	19.19	19.19		
5	QPSK	12	13	19.28	19.21	19.22		
5	QPSK	25	0	19.28	19.15	19.20	20	0
5	16QAM	1	0	19.20	19.10	19.15		
5	16QAM	1	12	19.19	19.20	19.16		
5	16QAM	1	24	19.22	19.16	19.12	20	0
5	16QAM	12	0	19.31	19.20	19.20		
5	16QAM	12	7	19.27	19.16	19.21		
5	16QAM	12	13	19.26	19.23	19.22	20	0
5	16QAM	25	0	19.29	19.21	19.23		
5	64QAM	1	0	19.11	19.06	19.10		
5	64QAM	1	12	19.08	19.10	18.89	20	0
5	64QAM	1	24	19.16	19.01	19.04		
5	64QAM	12	0	19.26	19.22	19.19		
5	64QAM	12	7	19.25	19.26	19.18	20	0
5	64QAM	12	13	19.29	19.22	19.19		
5	64QAM	25	0	19.27	19.16	19.20		

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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				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	21.47	21.38	21.83	23	0	
20	QPSK	1	49	21.36	21.39	21.68			
20	QPSK	1	99	21.33	21.64	21.61			
20	QPSK	50	0	21.33	21.42	21.80	23	0	
20	QPSK	50	24	21.33	21.49	21.78			
20	QPSK	50	50	21.36	21.56	21.69			
20	QPSK	100	0	21.23	21.52	21.72	23	0	
20	16QAM	1	0	21.59	21.57	21.80			
20	16QAM	1	49	21.41	21.53	21.79			
20	16QAM	1	99	21.34	21.69	21.78	23	0	
20	16QAM	50	0	21.55	21.47	21.84			
20	16QAM	50	24	21.49	21.57	21.77			
20	16QAM	50	50	21.45	21.77	21.73	23	0	
20	16QAM	100	0	21.38	21.63	21.74			
20	64QAM	1	0	21.28	21.10	21.52			
20	64QAM	1	49	21.09	21.06	21.41	23	0	
20	64QAM	1	99	21.12	21.33	21.41			
20	64QAM	50	0	20.39	20.28	20.45			
20	64QAM	50	24	20.41	20.36	20.47	22	1	
20	64QAM	50	50	20.11	20.44	20.39			
20	64QAM	100	0	20.30	20.47	20.63			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	21.29	21.27	21.66		23	
15	QPSK	1	37	21.16	21.20	21.64			
15	QPSK	1	74	21.16	21.50	21.60			
15	QPSK	36	0	21.34	21.38	21.79	23	0	
15	QPSK	36	20	21.34	21.43	21.74			
15	QPSK	36	39	21.33	21.55	21.79			
15	QPSK	75	0	21.41	21.37	21.77	23	0	
15	16QAM	1	0	21.41	21.43	21.70			
15	16QAM	1	37	21.29	21.42	21.74			
15	16QAM	1	74	21.31	21.59	21.77	23	0	
15	16QAM	36	0	21.44	21.42	21.74			
15	16QAM	36	20	21.40	21.42	21.71			
15	16QAM	36	39	21.40	21.68	21.77	23	0	
15	16QAM	75	0	21.41	21.52	21.81			
15	64QAM	1	0	21.07	21.30	21.43			
15	64QAM	1	37	21.20	21.13	21.44	23	0	
15	64QAM	1	74	21.20	21.26	21.26			
15	64QAM	36	0	20.31	20.33	20.54			
15	64QAM	36	20	20.32	20.38	20.66	22	1	
15	64QAM	36	39	20.33	20.50	20.74			
15	64QAM	75	0	20.38	20.26	20.66			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	21.29	21.30	21.60		23	
10	QPSK	1	25	21.16	21.29	21.44			
10	QPSK	1	49	21.23	21.40	21.51			
10	QPSK	25	0	21.28	21.31	21.76	23	0	
10	QPSK	25	12	21.36	21.39	21.74			
10	QPSK	25	25	21.40	21.40	21.71			
10	QPSK	50	0	21.36	21.37	21.82	23	0	
10	16QAM	1	0	21.31	21.34	21.70			
10	16QAM	1	25	21.34	21.36	21.75			
10	16QAM	1	49	21.30	21.55	21.74	23	0	
10	16QAM	25	0	21.44	21.45	21.78			
10	16QAM	25	12	21.54	21.48	21.83			
10	16QAM	25	25	21.45	21.61	21.86	23	0	
10	16QAM	50	0	21.41	21.49	21.89			
10	64QAM	1	0	21.03	20.97	21.40			
10	64QAM	1	25	21.18	21.00	21.39	23	0	
10	64QAM	1	49	21.17	21.13	21.36			
10	64QAM	25	0	20.29	20.30	20.48			
10	64QAM	25	12	20.23	20.34	20.45	22	1	
10	64QAM	25	25	20.21	20.39	20.64			
10	64QAM	50	0	20.19	20.34	20.60			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	21.30	21.17	21.58		23	
5	QPSK	1	12	21.17	21.24	21.61			
5	QPSK	1	24	21.25	21.33	21.60			
5	QPSK	12	0	21.41	21.40	21.71	23	0	
5	QPSK	12	7	21.41	21.44	21.83			
5	QPSK	12	13	21.42	21.47	21.73			
5	QPSK	25	0	21.41	21.41	21.75	23	0	
5	16QAM	1	0	21.36	21.36	21.78			
5	16QAM	1	12	21.39	21.40	21.79			
5	16QAM	1	24	21.41	21.45	21.76	23	0	
5	16QAM	12	0	21.53	21.41	21.74			
5	16QAM	12	7	21.44	21.52	21.79			
5	16QAM	12	13	21.47	21.46	21.81	23	0	
5	16QAM	25	0	21.48	21.48	21.87			
5	64QAM	1	0	21.13	21.01	21.41			
5	64QAM	1	12	21.12	21.02	21.38	23	0	
5	64QAM	1	24	21.12	21.14	21.48			
5	64QAM	12	0	20.23	20.12	20.57			
5	64QAM	12	7	20.36	20.30	20.59	22	1	
5	64QAM	12	13	20.12	20.22	20.56			
5	64QAM	25	0	20.18	20.17	20.66			

ANT8_Band 38 DSI 3/4/5									
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				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	21.48	21.44	21.90	23	0	
20	QPSK	1	49	21.49	21.48	21.67			
20	QPSK	1	99	21.43	21.65	21.62			
20	QPSK	50	0	21.30	21.38	21.74	23	0	
20	QPSK	50	24	21.39	21.48	21.72			
20	QPSK	50	50	21.33	21.59	21.70			
20	QPSK	100	0	21.27	21.49	21.72	23	0	
20	16QAM	1	0	21.64	21.57	21.84			
20	16QAM	1	49	21.40	21.53	21.80			
20	16QAM	1	99	21.43	21.74	21.80	23	0	
20	16QAM	50	0	21.64	21.48	21.87			
20	16QAM	50	24	21.44	21.60	21.83			
20	16QAM	50	50	21.52	21.78	21.75	23	0	
20	16QAM	100	0	21.42	21.61	21.82			
20	64QAM	1	0	21.32	21.16	21.54			
20	64QAM	1	49	21.12	21.12	21.43	23	0	
20	64QAM	1	99	21.17	21.37	21.46			
20	64QAM	50	0	20.36	20.31	20.53			
20	64QAM	50	24	20.40	20.35	20.52	22	1	
20	64QAM	50	50	20.18	20.44	20.37			
20	64QAM	100	0	20.32	20.51	20.66			
Channel				37825	38000	38175	Tune-up limit	MPR	
Frequency (MHz)				2577.5	2595	2612.5	(dBm)	(dB)	
15	QPSK	1	0	21.39	21.30	21.71	23	0	
15	QPSK	1	37	21.22	21.22	21.65			
15	QPSK	1	74	21.26	21.47	21.60			
15	QPSK	36	0	21.30	21.37	21.75	23	0	
15	QPSK	36	20	21.35	21.38	21.71			
15	QPSK	36	39	21.35	21.54	21.75			
15	QPSK	75	0	21.40	21.35	21.77	23	0	
15	16QAM	1	0	21.38	21.45	21.65			
15	16QAM	1	37	21.31	21.47	21.79			
15	16QAM	1	74	21.32	21.64	21.79	23	0	
15	16QAM	36	0	21.49	21.38	21.73			
15	16QAM	36	20	21.44	21.45	21.68			
15	16QAM	36	39	21.36	21.74	21.83	23	0	
15	16QAM	75	0	21.48	21.58	21.81			
15	64QAM	1	0	21.04	21.33	21.48			
15	64QAM	1	37	21.21	21.09	21.53	23	0	
15	64QAM	1	74	21.18	21.21	21.24			
15	64QAM	36	0	20.30	20.40	20.51			
15	64QAM	36	20	20.37	20.38	20.65	22	1	
15	64QAM	36	39	20.35	20.51	20.77			
15	64QAM	75	0	20.40	20.27	20.73			
Channel				37800	38000	38200	Tune-up limit	MPR	
Frequency (MHz)				25575	25955	26155	(dBm)	(dB)	
10	QPSK	1	0	21.35	21.27	21.60	23	0	
10	QPSK	1	25	21.14	21.33	21.45			
10	QPSK	1	49	21.26	21.39	21.54			
10	QPSK	25	0	21.30	21.37	21.73	23	0	
10	QPSK	25	12	21.32	21.43	21.78			
10	QPSK	25	25	21.41	21.35	21.75			
10	QPSK	50	0	21.41	21.32	21.75	23	0	
10	16QAM	1	0	21.36	21.38	21.66			
10	16QAM	1	25	21.37	21.41	21.74			
10	16QAM	1	49	21.29	21.59	21.75	23	0	
10	16QAM	25	0	21.41	21.43	21.79			
10	16QAM	25	12	21.54	21.50	21.81			
10	16QAM	25	25	21.48	21.67	21.82	23	0	
10	16QAM	50	0	21.42	21.51	21.82			
10	64QAM	1	0	21.02	21.04	21.41			
10	64QAM	1	25	21.22	21.04	21.47	23	0	
10	64QAM	1	49	21.14	21.14	21.37			
10	64QAM	25	0	20.24	20.29	20.56			
10	64QAM	25	12	20.29	20.42	20.46	22	1	
10	64QAM	25	25	20.18	20.40	20.62			
10	64QAM	50	0	20.15	20.36	20.59			
Channel				37712	38000	38225	Tune-up limit	MPR	
Frequency (MHz)				25272.5	25995	26177.5	(dBm)	(dB)	
5	QPSK	1	0	21.34	21.22	21.54	23	0	
5	QPSK	1	12	21.21	21.29	21.63			
5	QPSK	1	24	21.24	21.33	21.60			
5	QPSK	12	0	21.40	21.37	21.75	23	0	
5	QPSK	12	7	21.43	21.46	21.86			
5	QPSK	12	13	21.45	21.48	21.72			
5	QPSK	25	0	21.38	21.45	21.77	23	0	
5	16QAM	1	0	21.37	21.38	21.74			
5	16QAM	1	12	21.43	21.41	21.79			
5	16QAM	1	24	21.39	21.50	21.75	23	0	
5	16QAM	12	0	21.53	21.41	21.80			
5	16QAM	12	7	21.46	21.60	21.75			
5	16QAM	12	13	21.52	21.42	21.87	23	0	
5	16QAM	25	0	21.46	21.44	21.85			
5	64QAM	1	0	21.20	21.00	21.39			
5	64QAM	1	12	21.09	20.98	21.45	23	0	
5	64QAM	1	24	21.15	21.11	21.45			
5	64QAM	12	0	20.23	20.12	20.52			
5	64QAM	12	7	20.43	20.38	20.56	22	1	
5	64QAM	12	13	20.12	20.27	20.57			
5	64QAM	25	0	20.23	20.16	20.63			

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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	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.18	21.81	21.80	21.79	21.78	23	0
20	QPSK	1	49	21.81	21.83	21.75	21.74	21.75		
20	QPSK	1	99	21.85	21.76	21.78	21.78	21.76		
20	QPSK	50	0	22.08	21.89	21.70	21.63	21.63		
20	QPSK	50	24	21.99	21.84	21.76	21.75	21.65	23	0
20	QPSK	50	50	21.96	21.77	21.78	21.71	21.59		
20	QPSK	100	0	22.07	21.85	21.82	21.65	21.60		
20	16QAM	1	0	22.01	21.80	21.75	21.78	21.62		
20	16QAM	1	49	21.90	21.77	21.83	21.64	21.60	23	0
20	16QAM	1	99	21.93	21.68	21.64	21.74	21.58		
20	16QAM	50	0	22.01	21.77	21.64	21.59	21.73		
20	16QAM	50	24	21.98	21.77	21.69	21.65	21.69		
20	16QAM	50	50	21.99	21.74	21.64	21.65	21.56	23	0
20	16QAM	100	0	21.94	21.76	21.65	21.57	21.65		
20	64QAM	1	0	21.59	21.27	21.54	21.35	21.37		
20	64QAM	1	49	21.52	21.39	21.32	21.32	21.23		
20	64QAM	1	99	21.61	21.22	21.33	21.36	21.21	23	0
20	64QAM	50	0	20.75	20.60	20.33	20.29	20.40		
20	64QAM	50	24	20.70	20.50	20.38	20.26	20.42		
20	64QAM	50	50	20.65	20.56	20.42	20.39	20.31		
20	64QAM	100	0	20.86	20.55	20.50	20.45	20.51	22	1
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2546.3	2593	2637.3	2682.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	21.82	21.68	21.64	21.55	21.71	23	0
15	QPSK	1	37	21.86	21.62	21.54	21.46	21.50		
15	QPSK	1	74	21.84	21.73	21.71	21.58	21.52		
15	QPSK	36	0	22.07	21.73	21.68	21.69	21.74		
15	QPSK	36	20	21.98	21.83	21.79	21.64	21.65	23	0
15	QPSK	36	39	22.05	21.77	21.80	21.65	21.59		
15	QPSK	75	0	22.07	21.85	21.76	21.63	21.70		
15	16QAM	1	0	21.94	21.73	21.72	21.68	21.83		
15	16QAM	1	37	21.83	21.59	21.54	21.56	21.48	23	0
15	16QAM	1	74	21.97	21.86	21.81	21.82	21.61		
15	16QAM	36	0	21.90	21.60	21.62	21.52	21.62		
15	16QAM	36	20	21.87	21.64	21.61	21.55	21.53		
15	16QAM	36	39	21.91	21.65	21.62	21.55	21.46	23	0
15	16QAM	75	0	21.98	21.74	21.66	21.51	21.62		
15	64QAM	1	0	21.55	21.40	21.51	21.24	21.40		
15	64QAM	1	37	21.67	21.26	21.27	21.27	21.25		
15	64QAM	1	74	21.98	21.46	21.44	21.36	21.29	23	0
15	64QAM	36	0	20.74	20.47	20.41	20.44	20.51		
15	64QAM	36	20	20.65	20.50	20.58	20.35	20.46		
15	64QAM	36	39	20.77	20.47	20.54	20.40	20.34		
15	64QAM	75	0	20.76	20.66	20.58	20.33	20.38	22	1
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	21.85	21.67	21.63	21.58	21.72	23	0
10	QPSK	1	25	21.91	21.76	21.69	21.62	21.61		
10	QPSK	1	49	21.88	21.67	21.69	21.65	21.59		
10	QPSK	25	0	22.04	21.81	21.71	21.70	21.77		
10	QPSK	25	12	22.04	21.84	21.77	21.73	21.76	23	0
10	QPSK	25	25	22.09	21.86	21.81	21.82	21.69		
10	QPSK	50	0	22.06	21.90	21.76	21.80	21.80		
10	16QAM	1	0	22.08	21.92	21.80	21.84	21.80		
10	16QAM	1	25	22.05	21.80	21.74	21.84	21.73	23	0
10	16QAM	1	49	22.03	21.83	21.68	21.68	21.65		
10	16QAM	25	0	22.03	21.76	21.83	21.58	21.70		
10	16QAM	25	12	22.01	21.82	21.75	21.69	21.68		
10	16QAM	25	25	21.97	21.76	21.74	21.65	21.59	23	0
10	16QAM	50	0	22.00	21.75	21.70	21.70	21.71		
10	64QAM	1	0	21.81	21.60	21.50	21.50	21.41		
10	64QAM	1	25	21.77	21.43	21.53	21.31	21.37		
10	64QAM	1	49	21.74	21.34	21.47	21.38	21.44	23	0
10	64QAM	25	0	20.75	20.44	20.50	20.35	20.41		
10	64QAM	25	12	20.82	20.68	20.41	20.46	20.45		
10	64QAM	25	25	20.65	20.54	20.54	20.41	20.36		
10	64QAM	50	0	20.71	20.49	20.46	20.44	20.52	22	1
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	22.08	21.76	21.67	21.59	21.70	23	0
5	QPSK	1	12	21.98	21.71	21.64	21.61	21.64		
5	QPSK	1	24	22.06	21.69	21.59	21.66	21.65		
5	QPSK	12	0	22.07	21.80	21.67	21.75	21.72		
5	QPSK	12	7	22.10	21.86	21.89	21.73	21.68	23	0
5	QPSK	12	13	22.07	21.78	21.79	21.73	21.64		
5	QPSK	25	0	22.09	21.80	21.83	21.69	21.76		
5	16QAM	1	0	22.15	21.92	21.78	21.76	21.79		
5	16QAM	1	12	22.05	21.88	21.90	21.79	21.75	23	0
5	16QAM	1	24	22.12	21.86	21.95	21.82	21.78		
5	16QAM	12	0	21.96	21.75	21.65	21.57	21.60		
5	16QAM	12	7	22.03	21.73	21.75	21.57	21.66		
5	16QAM	12	13	21.95	21.73	21.75	21.60	21.60	23	0
5	16QAM	25	0	22.03	21.74	21.70	21.59	21.61		
5	64QAM	1	0	21.47	21.34	21.20	21.23	21.20		
5	64QAM	1	12	21.62	21.33	21.33	21.19	21.34		
5	64QAM	1	24	21.57	21.33	21.25	21.28	21.15	23	0
5	64QAM	12	0	20.76	20.40	20.36	20.37	20.51		
5	64QAM	12	7	20.73	20.58	20.42	20.32	20.48		
5	64QAM	12	13	20.72	20.52	20.39	20.36	20.34		
5	64QAM	25	0	20.73	20.38	20.41	20.31	20.43	22	1
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2546.3	2593	2637.3	2682.5	Tune-up limit (dBm)	MPR (dB)

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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	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.09	21.70	21.74	21.69	21.69	23	0
20	QPSK	1	49	21.70	21.69	21.64	21.61	21.63		
20	QPSK	1	99	21.77	21.63	21.63	21.68	21.65		
20	QPSK	50	0	22.02	21.83	21.64	21.53	21.60		
20	QPSK	50	24	21.91	21.70	21.62	21.63	21.55	23	0
20	QPSK	50	50	21.88	21.68	21.72	21.62	21.57		
20	QPSK	100	0	21.92	21.73	21.73	21.54	21.52		
20	16QAM	1	0	21.93	21.70	21.69	21.72	21.77		
20	16QAM	1	49	21.78	21.72	21.49	21.50	21.45	23	0
20	16QAM	1	99	21.78	21.55	21.51	21.65	21.45		
20	16QAM	50	0	21.99	21.74	21.63	21.55	21.70		
20	16QAM	50	24	21.97	21.73	21.68	21.62	21.69		
20	16QAM	50	50	21.97	21.70	21.63	21.64	21.52	23	0
20	16QAM	100	0	21.89	21.72	21.65	21.56	21.60		
20	64QAM	1	0	21.55	21.25	21.50	21.34	21.36		
20	64QAM	1	49	21.50	21.39	21.29	21.30	21.19		
20	64QAM	1	99	21.61	21.19	21.32	21.37	21.18	23	0
20	64QAM	50	0	20.72	20.56	20.28	20.27	20.36		
20	64QAM	50	24	20.67	20.48	20.35	20.24	20.41	22	1
20	64QAM	50	50	20.60	20.52	20.41	20.35	20.30		
20	64QAM	100	0	20.84	20.51	20.50	20.43	20.48		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	21.75	21.57	21.57	21.49	21.57	23	0
15	QPSK	1	37	21.78	21.55	21.42	21.33	21.40		
15	QPSK	1	74	21.77	21.64	21.62	21.44	21.40		
15	QPSK	36	0	22.01	21.65	21.60	21.54	21.61		
15	QPSK	36	20	21.93	21.73	21.66	21.58	21.57	23	0
15	QPSK	36	39	21.93	21.65	21.69	21.58	21.52		
15	QPSK	75	0	22.02	21.72	21.70	21.54	21.63		
15	16QAM	1	0	21.80	21.64	21.59	21.58	21.74		
15	16QAM	1	37	21.75	21.46	21.46	21.45	21.60	23	0
15	16QAM	1	74	21.84	21.73	21.68	21.73	21.49		
15	16QAM	36	0	21.88	21.56	21.57	21.53	21.57		
15	16QAM	36	20	21.85	21.63	21.58	21.52	21.52		
15	16QAM	36	39	21.88	21.62	21.60	21.52	21.53	23	0
15	16QAM	75	0	21.95	21.71	21.65	21.49	21.61		
15	64QAM	1	0	21.51	21.36	21.50	21.24	21.40		
15	64QAM	1	37	21.65	21.22	21.26	21.28	21.22		
15	64QAM	1	74	21.64	21.46	21.44	21.33	21.26	23	0
15	64QAM	36	0	20.70	20.45	20.40	20.45	20.49		
15	64QAM	36	20	20.63	20.47	20.55	20.33	20.45		
15	64QAM	36	39	20.77	20.47	20.52	20.36	20.32		
15	64QAM	75	0	20.74	20.62	20.56	20.34	20.38	22	1
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	21.71	21.57	21.56	21.49	21.60	23	0
10	QPSK	1	25	21.83	21.65	21.60	21.47	21.54		
10	QPSK	1	49	21.78	21.59	21.60	21.52	21.45		
10	QPSK	25	0	21.98	21.72	21.65	21.62	21.62		
10	QPSK	25	12	21.94	21.74	21.70	21.62	21.69	23	0
10	QPSK	25	25	22.03	21.79	21.74	21.75	21.63		
10	QPSK	50	0	21.96	21.83	21.67	21.70	21.65		
10	16QAM	1	0	22.02	21.81	21.66	21.74	21.72		
10	16QAM	1	25	21.98	21.70	21.62	21.73	21.67	23	0
10	16QAM	1	49	21.96	21.74	21.54	21.56	21.57		
10	16QAM	25	0	21.99	21.72	21.60	21.56	21.70		
10	16QAM	25	12	22.01	21.79	21.75	21.68	21.65		
10	16QAM	25	25	21.92	21.74	21.73	21.63	21.56	23	0
10	16QAM	50	0	22.00	21.72	21.65	21.68	21.69		
10	64QAM	1	0	21.77	21.61	21.47	21.46	21.39		
10	64QAM	1	25	21.73	21.38	21.53	21.29	21.37		
10	64QAM	1	49	21.73	21.34	21.46	21.35	21.41	22	1
10	64QAM	25	10	20.71	20.40	20.50	20.34	20.39		
10	64QAM	25	12	20.77	20.66	20.37	20.42	20.40		
10	64QAM	25	25	20.61	20.54	20.52	20.38	20.32		
10	64QAM	50	0	20.69	20.47	20.44	20.40	20.50		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	22.02	21.62	21.54	21.62	21.56	23	0
5	QPSK	1	12	21.92	21.62	21.55	21.58	21.58		
5	QPSK	1	24	21.99	21.55	21.61	21.57	21.55		
5	QPSK	12	0	22.01	21.71	21.53	21.66	21.63		
5	QPSK	12	7	21.96	21.74	21.78	21.65	21.54	23	0
5	QPSK	12	13	22.00	21.69	21.66	21.66	21.59		
5	QPSK	25	0	22.03	21.73	21.76	21.60	21.71		
5	16QAM	1	0	22.08	21.84	21.64	21.68	21.70		
5	16QAM	1	12	21.92	21.78	21.85	21.68	21.62	23	0
5	16QAM	1	24	22.01	21.77	21.88	21.72	21.66		
5	16QAM	12	0	21.92	21.72	21.64	21.54	21.57		
5	16QAM	12	01	22.01	21.73	21.73	21.56	21.53		
5	16QAM	12	13	21.92	21.74	21.75	21.57	21.59	23	0
5	16QAM	25	0	22.00	21.73	21.71	21.58	21.60		
5	64QAM	1	0	21.47	21.32	21.20	21.23	21.19		
5	64QAM	1	12	21.58	21.28	21.30	21.15	21.33		
5	64QAM	1	24	21.53	21.33	21.20	21.24	21.12	23	0
5	64QAM	12	0	20.74	20.41	20.35	20.35	20.49		
5	64QAM	12	7	20.72	20.57	20.39	20.27	20.48		
5	64QAM	12	13	20.68	20.51	20.40	20.36	20.32		
5	64QAM	25	0	20.70	20.33	20.42	20.29	20.42	22	1

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ANT9_Band 38 Full Power / DSI 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	24.5	0	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	23.63	23.74	23.68			
20	QPSK	1	49	23.64	23.64	23.70			
20	QPSK	1	99	23.59	23.60	23.66	23.5	1	
20	QPSK	50	0	22.66	22.72	22.78			
20	QPSK	50	24	22.82	22.80	22.79			
20	QPSK	50	50	22.75	22.77	22.73			
20	QPSK	100	0	22.70	22.80	22.76	23.5	1	
20	16QAM	1	0	22.73	22.70	22.87			
20	16QAM	1	49	22.67	22.70	22.80			
20	16QAM	1	99	22.68	22.71	22.79			
20	16QAM	50	0	21.77	21.74	21.82	22.5	2	
20	16QAM	50	24	21.82	21.82	21.81			
20	16QAM	50	50	21.81	21.81	21.76			
20	16QAM	100	0	21.72	21.82	21.79			
20	64QAM	1	0	20.55	20.72	20.69	22.5	2	
20	64QAM	1	49	20.57	20.59	20.59			
20	64QAM	1	99	20.72	20.55	20.63			
20	64QAM	50	0	19.67	19.69	19.75			
20	64QAM	50	24	19.77	19.75	19.75	21.5	3	
20	64QAM	50	50	19.75	19.74	19.70			
20	64QAM	100	0	19.77	19.86	19.81			
Channel				37825	38000	38175	24.5	0	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	23.45	23.58	23.65			
15	QPSK	1	37	23.52	23.60	23.66			
15	QPSK	1	74	23.63	23.60	23.59	23.5	1	
15	QPSK	36	0	22.62	22.71	22.76			
15	QPSK	36	20	22.73	22.76	22.80			
15	QPSK	36	39	22.72	22.77	22.78			
15	QPSK	75	0	22.64	22.77	22.80	23.5	1	
15	16QAM	1	0	22.63	22.70	22.81			
15	16QAM	1	37	22.59	22.64	22.69			
15	16QAM	1	74	22.70	22.71	22.83			
15	16QAM	36	0	21.66	21.67	21.74	22.5	2	
15	16QAM	36	20	21.74	21.73	21.77			
15	16QAM	36	39	21.75	21.72	21.77			
15	16QAM	75	0	21.76	21.78	21.81			
15	64QAM	1	0	20.66	20.57	20.63	22.5	2	
15	64QAM	1	37	20.67	20.62	20.56			
15	64QAM	1	74	20.62	20.59	20.57			
15	64QAM	36	0	19.72	19.72	19.77			
15	64QAM	36	20	19.77	19.79	19.79	21.5	3	
15	64QAM	36	39	19.77	19.76	19.79			
15	64QAM	75	0	19.76	19.78	19.80			
Channel				37800	38000	38200	24.5	0	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	23.38	23.69	23.73			
10	QPSK	1	25	23.48	23.68	23.69			
10	QPSK	1	49	23.51	23.71	23.70	23.5	1	
10	QPSK	25	0	22.58	22.74	22.76			
10	QPSK	25	12	22.62	22.83	22.84			
10	QPSK	25	25	22.63	22.80	22.83			
10	QPSK	50	0	22.54	22.81	22.85	23.5	1	
10	16QAM	1	0	22.52	22.79	22.91			
10	16QAM	1	25	22.65	22.75	22.83			
10	16QAM	1	49	22.61	22.81	22.84			
10	16QAM	25	0	21.72	21.74	21.72	22.5	2	
10	16QAM	25	12	21.81	21.83	21.84			
10	16QAM	25	25	21.80	21.79	21.81			
10	16QAM	50	0	21.72	21.85	21.87			
10	64QAM	1	0	20.79	20.77	20.84	22.5	2	
10	64QAM	1	25	20.83	20.78	20.74			
10	64QAM	1	49	20.84	20.74	20.78			
10	64QAM	25	0	19.67	19.73	19.76			
10	64QAM	25	12	19.71	19.81	19.84	21.5	3	
10	64QAM	25	25	19.73	19.75	19.80			
10	64QAM	50	0	19.61	19.78	19.82			
Channel				37775	38000	38225	24.5	0	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	23.39	23.65	23.67			
5	QPSK	1	12	23.40	23.63	23.69			
5	QPSK	1	24	23.43	23.68	23.69	23.5	1	
5	QPSK	12	0	22.52	22.75	22.78			
5	QPSK	12	7	22.54	22.81	22.83			
5	QPSK	12	13	22.58	22.81	22.80			
5	QPSK	25	0	22.48	22.77	22.80	23.5	1	
5	16QAM	1	0	22.53	22.85	22.83			
5	16QAM	1	12	22.59	22.87	22.85			
5	16QAM	1	24	22.61	22.90	22.93			
5	16QAM	12	0	21.66	21.74	21.77	22.5	2	
5	16QAM	12	7	21.69	21.81	21.82			
5	16QAM	12	13	21.67	21.78	21.78			
5	16QAM	25	0	21.70	21.83	21.86			
5	64QAM	1	0	20.75	20.51	20.58	22.5	2	
5	64QAM	1	12	20.84	20.59	20.64			
5	64QAM	1	24	20.87	20.57	20.65			
5	64QAM	12	0	19.65	19.69	19.73			
5	64QAM	12	7	19.70	19.78	19.84	21.5	3	
5	64QAM	12	13	19.67	19.75	19.78			
5	64QAM	25	0	19.61	19.78	19.81			

ANT9_Band 41 Full Power / DSI 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Middle 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	40185	40620	41055	41490	24.5	0
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.72	23.47	23.59	23.66	23.66	23.5	1
20	QPSK	1	49	23.60	23.43	23.55	23.56	23.54		
20	QPSK	1	99	23.56	23.44	23.59	23.59	23.45		
20	QPSK	50	0	22.80	22.65	22.62	22.65	22.70		
20	QPSK	50	24	22.79	22.62	22.68	22.70	22.65	23.5	1
20	QPSK	50	50	22.76	22.61	22.69	22.69	22.60		
20	QPSK	100	0	22.76	22.62	22.69	22.65	22.63		
20	16QAM	1	0	22.74	22.56	22.70	22.81	22.79		
20	16QAM	1	49	22.68	22.50	22.64	22.65	22.59	23.5	1
20	16QAM	1	99	22.71	22.49	22.67	22.72	22.55		
20	16QAM	50	0	21.82	21.66	21.65	21.69	21.73		
20	16QAM	50	24	21.82	21.63	21.73	21.74	21.69		
20	16QAM	50	50	21.78	21.63	21.72	21.70	21.64	22.5	2
20	16QAM	100	0	21.78	21.64	21.72	21.63	21.67		
20	64QAM	1	0	21.28	21.15	21.34	21.25	21.48		
20	64QAM	1	49	21.25	21.10	21.15	21.17	21.16		
20	64QAM	1	99	21.38	21.15	21.20	21.26	21.21	22.5	2
20	64QAM	50	0	20.62	20.42	20.30	20.45	20.55		
20	64QAM	50	24	20.56	20.46	20.55	20.49	20.42		
20	64QAM	50	50	20.56	20.38	20.44	20.34	20.34		
20	64QAM	100	0	20.54	20.57	20.48	20.48	20.44	21.5	3
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	23.57	23.45	23.53	23.59	23.51		
15	QPSK	1	37	23.55	23.42	23.50	23.51	23.45		
15	QPSK	1	74	23.57	23.50	23.56	23.59	23.49		
15	QPSK	36	0	22.77	22.53	22.61	22.64	22.64		
15	QPSK	36	20	22.76	22.58	22.67	22.62	22.60	23.5	1
15	QPSK	36	39	22.72	22.57	22.68	22.67	22.58		
15	QPSK	75	0	22.76	22.59	22.69	22.62	22.61		
15	16QAM	1	0	22.74	22.60	22.68	22.71	22.71		
15	16QAM	1	37	22.55	22.36	22.49	22.51	22.45	23.5	1
15	16QAM	1	74	22.72	22.64	22.74	22.78	22.62		
15	16QAM	36	0	21.73	21.49	21.59	21.59	21.64		
15	16QAM	36	20	21.72	21.54	21.65	21.59	21.58		
15	16QAM	36	39	21.71	21.56	21.66	21.66	21.55	22.5	2
15	16QAM	75	0	21.80	21.61	21.71	21.62	21.66		
15	16QAM	1	0	21.62	21.24	21.31	21.29	21.42		
15	64QAM	1	37	21.33	21.13	21.14	21.23	21.18		
15	64QAM	1	74	21.33	21.21	21.33	21.26	21.27	22.5	2
15	64QAM	36	0	19.79	19.55	19.62	19.66	19.67		
15	64QAM	36	20	19.75	19.59	19.68	19.63	19.63		
15	64QAM	36	39	19.75	19.59	19.68	19.68	19.59		
15	64QAM	75	0	19.77	19.64	19.72	19.65	19.62	21.5	3
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	23.65	23.50	23.57	23.63	23.55		
10	QPSK	1	25	23.67	23.51	23.63	23.65	23.54		
10	QPSK	1	49	23.65	23.55	23.65	23.63	23.43		
10	QPSK	25	0	22.78	22.60	22.66	22.67	22.66		
10	QPSK	25	12	22.80	22.65	22.74	22.76	22.66	23.5	1
10	QPSK	25	25	22.77	22.63	22.74	22.75	22.61		
10	QPSK	50	0	22.78	22.62	22.74	22.77	22.65		
10	16QAM	1	0	22.79	22.63	22.76	22.79	22.74		
10	16QAM	1	25	22.77	22.61	22.75	22.77	22.69	23.5	1
10	16QAM	1	49	22.77	22.63	22.76	22.72	22.58		
10	16QAM	25	0	21.80	21.63	21.69	21.69	21.68		
10	16QAM	25	12	21.82	21.67	21.74	21.79	21.70		
10	16QAM	25	25	21.79	21.60	21.73	21.75	21.62	22.5	2
10	16QAM	50	0	21.80	21.65	21.79	21.76	21.68		
10	64QAM	1	0	20.78	20.58	20.63	20.65	20.62		
10	64QAM	1	25	20.71	20.51	20.57	20.65	20.57		
10	64QAM	1	49	20.73	20.51	20.64	20.68	20.55	22.5	2
10	64QAM	25	0	19.79	19.58	19.65	19.64	19.65		
10	64QAM	25	12	19.80	19.66	19.75	19.76	19.66		
10	64QAM	25	25	19.74	19.55	19.69	19.71	19.61		
10	64QAM	50	0	19.71	19.56	19.70	19.71	19.61	21.5	3
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	23.71	23.53	23.53	23.55	23.54		
5	QPSK	1	12	23.64	23.47	23.58	23.61	23.49		
5	QPSK	1	24	23.66	23.49	23.59	23.59	23.48		
5	QPSK	12	0	22.78	22.64	22.64	22.69	22.64		
5	QPSK	12	7	22.79	22.66	22.77	22.67	22.64	23.5	1
5	QPSK	12	13	22.76	22.63	22.76	22.72	22.60		
5	QPSK	25	0	22.77	22.62	22.69	22.65	22.61		
5	16QAM	1	0	22.86	22.67	22.72	22.69	22.69		
5	16QAM	1	12	22.86	22.70	22.80	22.84	22.72	23.5	1
5	16QAM	1	24	22.86	22.69	22.82	22.81	22.68		
5	16QAM	12	0	21.77	21.61	21.64	21.68	21.63		
5	16QAM	12	7	21.78	21.60	21.70	21.67	21.62		
5	16QAM	12	13	21.75	21.60	21.72	21.74	21.58	22.5	2
5	16QAM	25	0	21.81	21.65	21.75	21.70	21.66		
5	64QAM	1	0	21.35	21.17	21.21	21.29	21.36		
5	64QAM	1	12	21.33	21.19	21.37	21.40	21.15		
5	64QAM	1	24	21.33	21.23	21.23	21.21	21.15	22.5	2
5	64QAM	12	0	19.75	19.57	19.62	19.66	19.62		
5	64QAM	12	7	19.78	19.62	19.73	19.68	19.64		
5	64QAM	12	13	19.75	19.61	19.70	19.72	19.58		
5	64QAM	25	0	19.72	19.58	19.67	19.63	19.59	21.5	3

ANT9_Band 38 DSI 3/4/5									
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				37850	38000	38150	23.5	0	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	22.82	22.95	22.88	23.5	0	
20	QPSK	1	49	22.79	22.83	22.93			
20	QPSK	1	99	22.78	22.82	22.83			
20	QPSK	50	0	22.71	22.82	22.80	23.5	0	
20	QPSK	50	24	22.79	22.80	22.77			
20	QPSK	50	50	22.81	22.80	22.77			
20	QPSK	100	0	22.76	22.85	22.83	23.5	0	
20	16QAM	1	0	22.70	22.69	22.74			
20	16QAM	1	49	22.62	22.66	22.76			
20	16QAM	1	99	22.75	22.69	22.75	22.5	1	
20	16QAM	50	0	21.73	21.79	21.82			
20	16QAM	50	24	21.79	21.84	21.88			
20	16QAM	50	50	21.85	21.85	21.84	22.5	1	
20	16QAM	100	0	21.70	21.78	21.75			
20	64QAM	1	0	20.62	20.77	20.72			
20	64QAM	1	49	20.65	20.55	20.57	22.5	1	
20	64QAM	1	99	20.80	20.53	20.66			
20	64QAM	50	0	19.64	19.69	19.80			
20	64QAM	50	24	19.81	19.74	19.83	21.5	2	
20	64QAM	50	50	19.78	19.74	19.70			
20	64QAM	100	0	19.74	19.88	19.82			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5	23.5	0	
				22.52 <td>22.60</td> <td>22.65</td>	22.60	22.65			
15	QPSK	1	0	22.52	22.60	22.65	23.5	0	
15	QPSK	1	37	22.60	22.67	22.73			
15	QPSK	1	74	22.61	22.66	22.59			
15	QPSK	36	0	22.59	22.71	22.74	23.5	0	
15	QPSK	36	20	22.81	22.82	22.85			
15	QPSK	36	39	22.70	22.75	22.78			
15	QPSK	75	0	22.63	22.77	22.84	23.5	0	
15	16QAM	1	0	22.64	22.69	22.78			
15	16QAM	1	37	22.64	22.69	22.74			
15	16QAM	1	74	22.66	22.76	22.87	22.5	1	
15	16QAM	36	0	21.73	21.72	21.78			
15	16QAM	36	20	21.79	21.69	21.78			
15	16QAM	36	39	21.73	21.67	21.76	22.5	1	
15	16QAM	75	0	21.83	21.79	21.83			
15	64QAM	1	0	20.67	20.62	20.63			
15	64QAM	1	37	20.66	20.60	20.64	22.5	1	
15	64QAM	1	74	20.61	20.56	20.58			
15	64QAM	36	0	19.75	19.73	19.84			
15	64QAM	36	20	19.83	19.76	19.74	21.5	2	
15	64QAM	36	39	19.74	19.79	19.79			
15	64QAM	75	0	19.71	19.75	19.80			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615	23.5	0	
				22.40 <td>22.65</td> <td>22.77</td>	22.65	22.77			
10	QPSK	1	0	22.40	22.65	22.77	23.5	0	
10	QPSK	1	25	22.54	22.63	22.70			
10	QPSK	1	49	22.57	22.73	22.73			
10	QPSK	25	0	22.56	22.72	22.79	23.5	0	
10	QPSK	25	12	22.64	22.80	22.89			
10	QPSK	25	25	22.67	22.78	22.88			
10	QPSK	50	0	22.53	22.81	22.88	23.5	0	
10	16QAM	1	0	22.58	22.78	22.91			
10	16QAM	1	25	22.69	22.75	22.79			
10	16QAM	1	49	22.63	22.80	22.83	22.5	1	
10	16QAM	25	0	21.68	21.72	21.74			
10	16QAM	25	12	21.88	21.89	21.90			
10	16QAM	25	25	21.77	21.84	21.89	22.5	1	
10	16QAM	50	0	21.71	21.86	21.94			
10	64QAM	1	0	20.85	20.81	20.91			
10	64QAM	1	25	20.88	20.80	20.70	22.5	1	
10	64QAM	1	49	20.83	20.78	20.79			
10	64QAM	25	0	19.65	19.72	19.75			
10	64QAM	25	12	19.68	19.77	19.83	21.5	2	
10	64QAM	25	25	19.77	19.75	19.83			
10	64QAM	50	0	19.60	19.74	19.78			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5	23.5	0	
				22.35 <td>22.73</td> <td>22.69</td>	22.73	22.69			
5	QPSK	1	0	22.35	22.73	22.69	23.5	0	
5	QPSK	1	12	22.44	22.63	22.67			
5	QPSK	1	24	22.42	22.66	22.72			
5	QPSK	12	0	22.57	22.74	22.82	23.5	0	
5	QPSK	12	7	22.53	22.85	22.81			
5	QPSK	12	13	22.65	22.83	22.82			
5	QPSK	25	0	22.50	22.72	22.78	23.5	0	
5	16QAM	1	0	22.58	22.91	22.78			
5	16QAM	1	12	22.64	22.84	22.92			
5	16QAM	1	24	22.56	22.76	22.91	22.5	1	
5	16QAM	12	0	21.73	21.71	21.74			
5	16QAM	12	7	21.70	21.83	21.79			
5	16QAM	12	13	21.74	21.86	21.81	22.5	1	
5	16QAM	25	0	21.72	21.79	21.89			
5	64QAM	1	0	20.74	20.52	20.58			
5	64QAM	1	12	20.87	20.62	20.69	22.5	1	
5	64QAM	1	24	20.85	20.60	20.67			
5	64QAM	12	0	19.67	19.65	19.79			
5	64QAM	12	7	19.73	19.79	19.85	21.5	2	
5	64QAM	12	13	19.65	19.82	19.80			
5	64QAM	25	0	19.68	19.77	19.86			

ANT9_Band 41 DSI 3/4/5										
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	40185	40620	41055	41490	23.5	0
Frequency (MHz)				2596	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.94	22.50	22.61	22.70	22.66		
20	QPSK	1	49	22.65	22.46	22.59	22.51	22.50	23.5	0
20	QPSK	1	99	22.54	22.46	22.56	22.58	22.51		
20	QPSK	50	0	22.85	22.70	22.57	22.68	22.67		
20	QPSK	50	24	22.74	22.65	22.68	22.68	22.60	23.5	0
20	QPSK	50	50	22.77	22.66	22.69	22.70	22.64		
20	QPSK	100	0	22.75	22.63	22.70	22.66	22.58		
20	16QAM	1	0	22.75	22.56	22.70	22.82	22.79	23.5	0
20	16QAM	1	49	22.67	22.50	22.60	22.65	22.55		
20	16QAM	1	99	22.69	22.52	22.72	22.70	22.54		
20	16QAM	50	0	21.87	21.66	21.68	21.73	21.75	22.5	1
20	16QAM	50	24	21.83	21.67	21.70	21.71	21.71		
20	16QAM	50	50	21.82	21.61	21.75	21.69	21.62		
20	16QAM	100	0	21.74	21.64	21.74	21.62	21.65	22.5	1
20	64QAM	1	0	21.29	21.16	21.39	21.24	21.46		
20	64QAM	1	49	21.31	21.08	21.11	21.21	21.18		
20	64QAM	1	99	21.40	21.11	21.15	21.31	21.25	21.5	2
20	64QAM	50	0	20.64	20.40	20.26	20.45	20.58		
20	64QAM	50	24	20.55	20.50	20.61	20.45	20.41		
20	64QAM	50	50	20.56	20.43	20.49	20.36	20.34	21.5	2
20	64QAM	100	0	20.52	20.61	20.47	20.45	20.42		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2593.5	2547.3	2593	2637.3	2682.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	22.52	22.40	22.58	22.56	22.51	23.5	0
15	QPSK	1	37	22.51	22.38	22.53	22.47	22.49		
15	QPSK	1	74	22.53	22.52	22.60	22.80	22.47		
15	QPSK	36	0	22.75	22.48	22.58	22.61	22.60	23.5	0
15	QPSK	36	20	22.74	22.54	22.64	22.63	22.57		
15	QPSK	36	39	22.77	22.57	22.68	22.71	22.58		
15	QPSK	75	0	22.73	22.64	22.74	22.67	22.65	23.5	0
15	16QAM	1	0	22.80	22.59	22.67	22.70	22.73		
15	16QAM	1	37	22.50	22.38	22.47	22.49	22.50		
15	16QAM	1	74	22.77	22.80	22.73	22.73	22.64	22.5	1
15	16QAM	36	0	21.70	21.44	21.56	21.60	21.66		
15	16QAM	36	20	21.77	21.52	21.62	21.65	21.64		
15	16QAM	36	39	21.66	21.62	21.71	21.71	21.58	22.5	1
15	16QAM	75	0	21.78	21.66	21.69	21.66	21.68		
15	64QAM	1	0	21.47	21.23	21.27	21.25	21.39		
15	64QAM	1	37	21.36	21.10	21.19	21.20	21.16	22.5	1
15	64QAM	1	74	21.31	21.23	21.37	21.22	21.24		
15	64QAM	36	0	19.78	19.57	19.66	19.69	19.70		
15	64QAM	36	20	19.76	19.58	19.70	19.58	19.67	21.5	2
15	64QAM	36	39	19.80	19.56	19.63	19.70	19.56		
15	64QAM	75	0	19.77	19.70	19.72	19.66	19.64		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2591	2547	2593	2639	2685	23.5	0
10	QPSK	1	0	22.70	22.53	22.58	22.63	22.55		
10	QPSK	1	25	22.67	22.47	22.67	22.61	22.52		
10	QPSK	1	49	22.64	22.58	22.65	22.63	22.46	23.5	0
10	QPSK	25	0	22.82	22.59	22.66	22.69	22.66		
10	QPSK	25	12	22.82	22.61	22.76	22.76	22.67		
10	QPSK	25	25	22.80	22.62	22.70	22.71	22.60	23.5	0
10	QPSK	50	0	22.82	22.63	22.71	22.79	22.63		
10	16QAM	1	0	22.74	22.60	22.81	22.85	22.80		
10	16QAM	1	25	22.79	22.67	22.70	22.80	22.72	23.5	0
10	16QAM	1	49	22.80	22.68	22.74	22.73	22.55		
10	16QAM	25	0	21.78	21.68	21.68	21.72	21.70		
10	16QAM	25	12	21.85	21.66	21.76	21.82	21.69	22.5	1
10	16QAM	25	25	21.80	21.59	21.78	21.72	21.63		
10	16QAM	50	0	21.81	21.70	21.75	21.78	21.64		
10	64QAM	1	0	20.74	20.58	20.63	20.64	20.61	22.5	1
10	64QAM	1	25	20.76	20.51	20.62	20.60	20.58		
10	64QAM	1	49	20.70	20.52	20.68	20.72	20.61		
10	64QAM	25	0	19.82	19.58	19.66	19.61	19.67	21.5	2
10	64QAM	25	12	19.83	19.70	19.77	19.78	19.64		
10	64QAM	25	25	19.73	19.51	19.66	19.68	19.61		
10	64QAM	50	0	19.70	19.52	19.71	19.77	19.66	Tune-up limit (dBm)	MPR (dB)
Channel				39675	40148	40620	41093	41565	23.5	0
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	22.70	22.49	22.50	22.61	22.58		
5	QPSK	1	12	22.67	22.52	22.57	22.62	22.52	23.5	0
5	QPSK	1	24	22.62	22.50	22.64	22.64	22.52		
5	QPSK	12	0	22.78	22.69	22.64	22.66	22.64		
5	QPSK	12	7	22.77	22.66	22.78	22.70	22.64	23.5	0
5	QPSK	12	13	22.75	22.66	22.71	22.73	22.58		
5	QPSK	25	0	22.76	22.68	22.74	22.61	22.65		
5	16QAM	1	0	22.91	22.70	22.69	22.68	22.74	23.5	0
5	16QAM	1	12	22.85	22.72	22.85	22.83	22.74		
5	16QAM	1	24	22.88	22.68	22.86	22.85	22.71		
5	16QAM	12	0	21.73	21.60	21.69	21.72	21.67	22.5	1
5	16QAM	12	7	21.80	21.62	21.71	21.71	21.58		
5	16QAM	12	13	21.71	21.60	21.69	21.71	21.60		
5	16QAM	25	0	21.80	21.67	21.75	21.76	21.61	22.5	1
5	64QAM	1	0	21.31	21.20	21.25	21.28	21.34		
5	64QAM	1	12	21.36	21.20	21.37	21.45	21.16		
5	64QAM	1	24	21.34	21.25	21.26	21.18	21.15	21.5	2
5	64QAM	12	0	19.70	19.58	19.59	19.69	19.60		
5	64QAM	12	7	19.76	19.60	19.76	19.68	19.60		
5	64QAM	12	13	19.76	19.65	19.75	19.70	19.62	21.5	2
5	64QAM	25	0	19.71	19.57	19.71	19.67	19.63		

ANT10

ANT10 Full power/DS1 1/3/4/5									
GSM850		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel		128	189	251		128	189	251	
Frequency (MHz)		824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot		32.72	32.99	32.85	33.50	23.72	23.99	23.85	24.50
GPRS 1 Tx slot		32.70	32.98	32.83	33.50	23.70	23.98	23.83	24.50
GPRS 2 Tx slots		29.95	29.75	29.73	30.50	23.95	23.75	23.73	24.50
GPRS 3 Tx slots		28.07	28.27	27.79	28.70	23.81	24.01	23.53	24.44
GPRS 4 Tx slots		26.72	26.89	26.77	27.50	23.72	23.89	23.77	24.50
EDGE 1 Tx slot		26.30	26.35	26.24	28.00	17.30	17.35	17.24	19.00
EDGE 2 Tx slots		23.86	23.78	23.68	25.00	17.86	17.78	17.68	19.00
EDGE 3 Tx slots		22.12	21.97	22.30	23.20	17.86	17.71	18.04	18.94
EDGE 4 Tx slots		20.85	20.66	20.54	22.00	17.85	17.66	17.54	19.00

ANT10 Full power/DS1 1/3/4/5					
Band		WCDMA V			Tune-up Limit (dBm)
TX Channel		4132	4182	4233	
Rx Channel		4357	4407	4458	
Frequency (MHz)		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	24.48	24.49	24.45	25.00
3GPP Rel 99	RMC 12.2Kbps	24.49	24.50	24.46	25.00
3GPP Rel 6	HSDPA Subtest-1	23.11	23.10	23.04	24.00
3GPP Rel 6	HSDPA Subtest-2	23.12	23.12	23.04	24.00
3GPP Rel 6	HSDPA Subtest-3	22.63	22.65	22.54	23.50
3GPP Rel 6	HSDPA Subtest-4	22.65	22.62	22.55	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	23.02	23.05	23.00	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	23.10	23.01	23.02	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.53	22.61	22.47	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.59	22.55	22.52	23.50
3GPP Rel 6	HSUPA Subtest-1	23.05	23.05	23.01	24.00
3GPP Rel 6	HSUPA Subtest-2	21.10	21.07	20.98	22.00
3GPP Rel 6	HSUPA Subtest-3	22.06	22.06	22.02	23.00
3GPP Rel 6	HSUPA Subtest-4	21.09	21.08	21.00	22.00
3GPP Rel 6	HSUPA Subtest-5	23.10	23.10	23.00	24.00

ANT10_Band 4 Full Power / DSI 1/3/4/5												
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)												
20	QPSK	1	0	23.27	23.46	22.99	24.5	0				
20	QPSK	1	49	23.17	23.13	23.13						
20	QPSK	1	99	22.99	23.10	23.12						
20	QPSK	50	0	22.34	22.39	22.34	23.5	1				
20	QPSK	50	24	22.39	22.36	22.27						
20	QPSK	50	50	22.32	22.27	22.25						
20	QPSK	100	0	22.35	22.36	22.34	23.5	1				
20	16QAM	1	0	22.15	22.57	22.14						
20	16QAM	1	49	22.58	22.46	22.47						
20	16QAM	1	99	22.51	22.40	22.54	22.5	2				
20	16QAM	50	0	21.39	21.36	21.38						
20	16QAM	50	24	21.42	21.39	21.30						
20	16QAM	50	50	21.32	21.28	21.27	22.5	2				
20	16QAM	100	0	21.39	21.35	21.34						
20	64QAM	1	0	21.10	21.58	21.35						
20	64QAM	1	49	21.58	21.55	21.44	22.5	2				
20	64QAM	1	99	21.48	21.29	21.53						
20	64QAM	50	0	20.38	20.37	20.33						
20	64QAM	50	24	20.39	20.37	20.28	21.5	3				
20	64QAM	50	50	20.31	20.27	20.25						
20	64QAM	100	0	20.38	20.37	20.30						
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.91	23.38	22.94	24.5	0				
15	QPSK	1	37	23.16	23.15	23.17						
15	QPSK	1	74	23.20	23.18	23.17						
15	QPSK	36	0	22.34	22.36	22.34	23.5	1				
15	QPSK	36	20	22.37	22.33	22.32						
15	QPSK	36	39	22.30	22.28	22.29						
15	QPSK	75	0	22.38	22.36	22.33	23.5	1				
15	16QAM	1	0	22.11	22.50	22.07						
15	16QAM	1	37	22.55	22.42	22.44						
15	16QAM	1	74	22.50	22.41	22.55	22.5	2				
15	16QAM	36	0	21.36	21.38	21.35						
15	16QAM	36	20	21.36	21.33	21.34						
15	16QAM	36	39	21.31	21.28	21.31	22.5	2				
15	16QAM	75	0	21.39	21.36	21.34						
15	64QAM	1	0	21.12	21.54	21.19						
15	64QAM	1	37	21.48	21.34	21.40	22.5	2				
15	64QAM	1	74	21.49	21.26	21.51						
15	64QAM	36	0	20.36	20.36	20.36						
15	64QAM	36	20	20.35	20.35	20.33	21.5	3				
15	64QAM	36	39	20.32	20.29	20.30						
15	64QAM	75	0	20.39	20.37	20.34						
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.95	23.30	23.30	24.5	0				
10	QPSK	1	25	23.25	23.18	23.20						
10	QPSK	1	49	23.23	23.01	23.21						
10	QPSK	25	0	22.32	22.34	22.29	23.5	1				
10	QPSK	25	12	22.43	22.43	22.40						
10	QPSK	25	25	22.44	22.44	22.41						
10	QPSK	50	0	22.46	22.44	22.42	23.5	1				
10	16QAM	1	0	22.18	22.64	22.61						
10	16QAM	1	25	22.66	22.63	22.59						
10	16QAM	1	49	22.64	22.54	22.65	22.5	2				
10	16QAM	25	0	21.34	21.34	21.32						
10	16QAM	25	12	21.45	21.46	21.44						
10	16QAM	25	25	21.42	21.40	21.40	21.5	3				
10	16QAM	50	0	21.45	21.41	21.41						
10	64QAM	1	0	21.18	21.60	21.63						
10	64QAM	1	25	21.63	21.63	21.60	22.5	2				
10	64QAM	1	49	21.63	21.55	21.65						
10	64QAM	25	0	20.34	20.35	20.34						
10	64QAM	25	12	20.48	20.42	20.44	21.5	3				
10	64QAM	25	25	20.44	20.39	20.37						
10	64QAM	50	0	20.41	20.40	20.41						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.99	23.21	23.13	24.5	0				
5	QPSK	1	12	23.34	23.33	23.32						
5	QPSK	1	24	23.32	23.32	23.30						
5	QPSK	12	0	22.25	22.39	22.34	23.5	1				
5	QPSK	12	7	22.41	22.42	22.38						
5	QPSK	12	13	22.43	22.40	22.39						
5	QPSK	25	0	22.40	22.38	22.32	23.5	1				
5	16QAM	1	0	22.25	22.53	22.51						
5	16QAM	1	12	22.54	22.65	22.65						
5	16QAM	1	24	22.65	22.64	22.64	22.5	2				
5	16QAM	12	0	21.41	21.43	21.43						
5	16QAM	12	7	21.47	21.44	21.45						
5	16QAM	12	13	21.44	21.45	21.48	22.5	2				
5	16QAM	25	0	21.43	21.40	21.35						
5	64QAM	1	0	21.26	21.52	21.47						
5	64QAM	1	12	21.51	21.53	21.46	22.5	2				
5	64QAM	1	24	21.56	21.60	21.59						
5	64QAM	12	0	20.40	20.40	20.32						
5	64QAM	12	7	20.44	20.41	20.36	21.5	3				
5	64QAM	12	13	20.43	20.40	20.41						
5	64QAM	25	0	20.42	20.37	20.34						
Channel												
Frequency (MHz)												
3	QPSK	1	0	23.15	23.18	23.16	24.5	0				
3	QPSK	1	8	23.45	23.34	23.30						
3	QPSK	1	14	23.38	23.30	23.26						
3	QPSK	8	0	22.38	22.44	22.28	23.5	1				
3	QPSK	8	4	22.53	22.42	22.37						
3	QPSK	8	7	22.48	22.37	22.37						
3	QPSK	15	0	22.46	22.39	22.40	23.5	1				
3	16QAM	1	0	22.43	22.50	22.46						
3	16QAM	1	8	22.64	22.67	22.69						
3	16QAM	1	14	22.65	22.58	22.63	22.5	2				
3	16QAM	8	0	21.51	21.44	21.49						
3	16QAM	8	4	21.56	21.44	21.39						
3	16QAM	8	7	21.56	21.43	21.45	21.5	3				
3	16QAM	15	0	21.52	21.41	21.40						
3	64QAM	1	0	21.47	21.47	21.42						
3	64QAM	1	8	21.67	21.57	21.59	22.5	2				
3	64QAM	1	14	21.68	21.50	21.55						
3	64QAM	8	0	20.46	20.38	20.34						
3	64QAM	8	4	20.54	20.42	20.44	21.5	3				
3	64QAM	8	7	20.49	20.38	20.38						
3	64QAM	15	0	20.51	20.36	20.39						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	22.98	23.18	23.10	24.5	0				
1.4	QPSK	1	3	23.14	23.22	23.24						
1.4	QPSK	1	5	23.12	23.19	23.19						
1.4	QPSK	3	0	23.02	23.20	23.21	23.5	1				
1.4	QPSK	3	1	23.15	23.26	23.28						
1.4	QPSK	3	3	23.16	23.19	23.27						
1.4	QPSK	6	0	22.17	22.29	22.33	23.5	1				
1.4	16QAM	1	0	22.22	22.48	22.50						
1.4	16QAM	1	5	22.51	22.54	22.57						
1.4	16QAM	1	5	22.53	22.54	22.50	23.5	1				
1.4	16QAM	3	0	22.23	22.31	22.32						
1.4	16QAM	3	1	22.30	22.37	22.37	22.5	2				
1.4	16QAM	3	3	22.26	22.30	22.33						
1.4	16QAM	6	0	21.36	21.35	21.36						
1.4	16QAM	1	0	21.30	21.53	21.49	22.5	2				
1.4	64QAM	1	3	21.46	21.51	21.55						
1.4	64QAM	1	5	21.39	21.49	21.53						
1.4	64QAM	3	0	21.24	21.36	21.35	21.5	3				
1.4	64QAM	3	1	21.29	21.37	21.40						
1.4	64QAM	3	3	21.28	21.31	21.35						
1.4	64QAM	6	0	20.28	20.32	20.32						
1.4	64QAM	6	1	20.29	20.32	20.32						

ANT10_Band 12 Full Power / DSI 1/3/4/5									
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				23060	23095	23130			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	24.19	24.38	24.11	25.5	0	
10	QPSK	1	25	24.17	24.18	24.16			
10	QPSK	1	49	24.28	24.20	24.23			
10	QPSK	25	0	23.32	23.41	23.30	24.5	1	
10	QPSK	25	12	23.40	23.30	23.31			
10	QPSK	25	25	23.37	23.35	23.38			
10	QPSK	50	0	23.32	23.37	23.31	24.5	1	
10	16QAM	1	0	23.59	23.55	23.54			
10	16QAM	1	25	23.55	23.60	23.55			
10	16QAM	1	49	23.65	23.59	23.57	23.5	2	
10	16QAM	25	0	22.30	22.31	22.35			
10	16QAM	25	12	22.38	22.29	22.34			
10	16QAM	25	25	22.31	22.36	22.38	23.5	2	
10	16QAM	50	0	22.38	22.32	22.32			
10	64QAM	1	0	22.51	22.60	22.61			
10	64QAM	1	25	22.60	22.50	22.61	23.5	2	
10	64QAM	1	49	22.70	22.58	22.64			
10	64QAM	25	0	21.30	21.29	21.36			
10	64QAM	25	12	21.40	21.34	21.38	22.5	3	
10	64QAM	25	25	21.34	21.37	21.38			
10	64QAM	50	0	21.37	21.30	21.30			
Channel				23035	23095	23155			
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	24.18	24.17	24.15	25.5	0	
5	QPSK	1	12	24.23	24.22	24.24			
5	QPSK	1	24	24.19	24.22	24.15			
5	QPSK	12	0	23.28	23.27	23.31	24.5	1	
5	QPSK	12	7	23.36	23.30	23.30			
5	QPSK	12	13	23.31	23.33	23.25			
5	QPSK	25	0	23.28	23.29	23.30	24.5	1	
5	16QAM	1	0	23.55	23.50	23.51			
5	16QAM	1	12	23.48	23.55	23.54			
5	16QAM	1	24	23.55	23.54	23.49	23.5	1	
5	16QAM	12	0	22.32	22.28	22.34			
5	16QAM	12	7	22.35	22.37	22.32			
5	16QAM	12	13	22.34	22.35	22.26	23.5	2	
5	16QAM	25	0	22.29	22.31	22.31			
5	64QAM	1	0	22.55	22.35	22.40			
5	64QAM	1	12	22.38	22.48	22.41	23.5	2	
5	64QAM	1	24	22.38	22.53	22.36			
5	64QAM	12	0	21.30	21.28	21.30			
5	64QAM	12	7	21.37	21.35	21.29	22.5	3	
5	64QAM	12	13	21.32	21.32	21.25			
5	64QAM	25	0	21.30	21.29	21.30			
Channel				23025	23095	23165			
Frequency (MHz)				700.5	707.5	714.5			
3	QPSK	1	0	24.21	24.16	24.25	25.5	0	
3	QPSK	1	8	24.24	24.25	24.25			
3	QPSK	1	14	24.22	24.19	24.14			
3	QPSK	8	0	23.28	23.26	23.33	24.5	1	
3	QPSK	8	4	23.33	23.35	23.32			
3	QPSK	8	7	23.31	23.33	23.28			
3	QPSK	15	0	23.33	23.32	23.28	24.5	1	
3	16QAM	1	0	23.52	23.50	23.59			
3	16QAM	1	8	23.59	23.56	23.61			
3	16QAM	1	14	23.57	23.50	23.49	23.5	2	
3	16QAM	8	0	22.34	22.30	22.36			
3	16QAM	8	4	22.39	22.41	22.37			
3	16QAM	8	7	22.35	22.36	22.34	23.5	2	
3	16QAM	15	0	22.34	22.32	22.31			
3	64QAM	1	0	22.44	22.41	22.51			
3	64QAM	1	8	22.47	22.53	22.48	23.5	2	
3	64QAM	1	14	22.46	22.51	22.45			
3	64QAM	8	0	21.29	21.28	21.36			
3	64QAM	8	4	21.36	21.39	21.31	22.5	3	
3	64QAM	8	7	21.32	21.34	21.31			
3	64QAM	15	0	21.33	21.36	21.35			
Channel				23017	23095	23173			
Frequency (MHz)				699.7	707.5	715.3			
1.4	QPSK	1	0	24.30	24.08	24.14	25.5	0	
1.4	QPSK	1	3	24.34	24.20	24.13			
1.4	QPSK	1	5	24.27	24.13	24.04			
1.4	QPSK	3	0	24.35	24.09	24.10	24.5	1	
1.4	QPSK	3	1	24.32	24.19	24.13			
1.4	QPSK	3	3	24.31	24.16	24.10			
1.4	QPSK	6	0	23.40	23.25	23.18	23.5	2	
1.4	16QAM	1	0	23.61	23.40	23.44			
1.4	16QAM	1	3	23.69	23.50	23.46			
1.4	16QAM	1	5	23.61	23.46	23.38	23.5	2	
1.4	16QAM	3	0	23.43	23.19	23.20			
1.4	16QAM	3	1	23.46	23.30	23.26			
1.4	16QAM	3	3	23.40	23.26	23.15	23.5	2	
1.4	16QAM	6	0	22.48	22.33	22.28			
1.4	64QAM	1	0	22.77	22.57	22.69			
1.4	64QAM	1	3	22.90	22.71	22.64	23.5	2	
1.4	64QAM	1	5	22.88	22.63	22.63			
1.4	64QAM	3	0	22.71	22.62	22.61			
1.4	64QAM	3	1	22.85	22.57	22.51	22.5	3	
1.4	64QAM	3	3	22.74	22.66	22.64			
1.4	64QAM	6	0	21.72	21.60	21.52			

ANT10_Band 17 Full Power / DSI 1/3/4/5									
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				23760	23790	23800			
Frequency (MHz)				709	710	711			
10	QPSK	1	0	24.02	24.24	24.16	25.5	0	
10	QPSK	1	25	24.20	24.16	24.15			
10	QPSK	1	49	24.17	24.23	24.21			
10	QPSK	25	0	23.15	23.38	23.18	24.5	1	
10	QPSK	25	12	23.33	23.33	23.26			
10	QPSK	25	25	23.36	23.36	23.33			
10	QPSK	50	0	23.26	23.32	23.27	24.5	1	
10	16QAM	1	0	23.40	23.26	23.50			
10	16QAM	1	25	23.55	23.56	23.56			
10	16QAM	1	49	23.59	23.60	23.52	23.5	2	
10	16QAM	25	0	22.20	22.17	22.22			
10	16QAM	25	12	22.34	22.32	22.29			
10	16QAM	25	25	22.33	22.31	22.41	23.5	2	
10	16QAM	50	0	22.25	22.31	22.27			
10	64QAM	1	0	22.29	22.20	22.45			
10	64QAM	1	25	22.58	22.50	22.58	23.5	2	
10	64QAM	1	49	22.61	22.64	22.63			
10	64QAM	25	0	21.19	21.18	21.22			
10	64QAM	25	12	21.36	21.34	21.31	22.5	3	
10	64QAM	25	25	21.34	21.28	21.36			
10	64QAM	50	0	21.23	21.28	21.26			
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				706.5	710	713.5			
5	QPSK	1	0	23.76	24.13	24.14	25.5	0	
5	QPSK	1	12	23.93	24.20	24.22			
5	QPSK	1	24	24.23	24.20	24.21			
5	QPSK	12	0	22.90	23.32	23.23	24.5	1	
5	QPSK	12	7	23.17	23.36	23.28			
5	QPSK	12	13	23.32	23.31	23.24			
5	QPSK	25	0	23.17	23.29	23.25	24.5	1	
5	16QAM	1	0	23.16	23.49	23.45			
5	16QAM	1	12	23.29	23.49	23.53			
5	16QAM	1	24	23.45	23.64	23.50	23.5	2	
5	16QAM	12	0	22.04	22.33	22.29			
5	16QAM	12	7	22.29	22.33	22.28			
5	16QAM	12	13	22.32	22.33	22.25	23.5	2	
5	16QAM	25	0	22.30	22.34	22.25			
5	64QAM	1	0	22.03	22.38	22.39			
5	64QAM	1	12	22.21	22.42	22.38	23.5	2	
5	64QAM	1	24	22.44	22.47	22.43			
5	64QAM	12	0	21.02	21.30	21.25			
5	64QAM	12	7	21.23	21.32	21.29	22.5	3	
5	64QAM	12	13	21.31	21.34	21.26			
5	64QAM	25	0	21.29	21.31	21.26			

ANT10_Band 7 DSI 3/5								
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				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	22.08	22.24	22.02	22.5	0
20	QPSK	1	49	22.03	22.10	22.05		
20	QPSK	1	99	22.05	22.05	22.04		
20	QPSK	50	0	22.15	22.20	22.13	22.5	0
20	QPSK	50	24	22.15	22.18	22.04		
20	QPSK	50	50	22.12	22.16	22.14		
20	QPSK	100	0	22.19	22.20	22.05	22.5	0
20	16QAM	1	0	22.16	22.17	22.02		
20	16QAM	1	49	22.14	22.22	22.10		
20	16QAM	1	99	22.14	22.20	22.07	22.5	0
20	16QAM	50	0	21.90	21.90	21.76		
20	16QAM	50	24	21.99	21.93	21.82		
20	16QAM	50	50	21.95	21.92	21.87	22.5	0
20	16QAM	100	0	21.93	21.89	21.77		
20	64QAM	1	0	22.03	22.04	21.90		
20	64QAM	1	49	22.05	22.20	21.94	22.5	0
20	64QAM	1	99	21.95	22.21	21.97		
20	64QAM	50	0	21.17	21.18	21.07		
20	64QAM	50	24	21.27	21.24	21.11	21.5	1
20	64QAM	50	50	21.22	21.17	21.16		
20	64QAM	100	0	21.04	21.16	21.10		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	21.75	21.71	21.72	22.5	0
15	QPSK	1	37	21.74	21.74	21.75		
15	QPSK	1	74	21.73	21.71	21.73		
15	QPSK	36	0	21.81	21.81	21.78	22.5	0
15	QPSK	36	20	21.89	21.83	21.91		
15	QPSK	36	39	21.87	21.81	21.86		
15	QPSK	75	0	21.86	21.79	21.77	22.5	0
15	16QAM	1	0	22.12	22.12	22.10		
15	16QAM	1	37	22.16	22.20	22.14		
15	16QAM	1	74	22.15	22.19	22.10	22.5	0
15	16QAM	36	0	21.83	21.84	21.85		
15	16QAM	36	20	21.93	21.89	21.95		
15	16QAM	36	39	21.92	21.96	21.91	22.5	0
15	16QAM	75	0	21.92	21.87	21.84		
15	64QAM	1	0	22.01	22.07	21.99		
15	64QAM	1	37	21.96	22.21	22.04	22.5	0
15	64QAM	1	74	21.97	22.19	22.04		
15	64QAM	36	0	21.13	21.16	21.14		
15	64QAM	36	20	21.25	21.17	21.25	21.5	1
15	64QAM	36	39	21.19	21.16	21.21		
15	64QAM	75	0	21.22	21.10	21.17		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	21.70	21.73	21.60	22.5	0
10	QPSK	1	25	21.68	21.67	21.55		
10	QPSK	1	49	21.69	21.67	21.61		
10	QPSK	25	0	21.81	21.83	21.71	22.5	0
10	QPSK	25	12	21.93	21.85	21.74		
10	QPSK	25	25	21.89	21.82	21.78		
10	QPSK	50	0	21.88	21.83	21.71	22.5	0
10	16QAM	1	0	22.12	22.13	22.05		
10	16QAM	1	25	22.14	22.14	22.00		
10	16QAM	1	49	22.15	22.16	22.03	22.5	0
10	16QAM	25	0	21.87	21.87	21.81		
10	16QAM	25	12	21.95	21.92	21.80		
10	16QAM	25	25	21.92	21.85	21.87	22.5	0
10	16QAM	50	0	21.94	21.87	21.76		
10	64QAM	1	0	22.18	22.21	22.06		
10	64QAM	1	25	22.10	22.20	22.07	22.5	0
10	64QAM	1	49	22.16	22.21	22.11		
10	64QAM	25	0	21.17	21.16	21.07		
10	64QAM	25	12	21.29	21.20	21.12	21.5	1
10	64QAM	25	25	21.26	21.20	21.15		
10	64QAM	50	0	21.06	21.13	21.06		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	21.63	21.59	21.60	22.5	0
5	QPSK	1	12	21.66	21.68	21.73		
5	QPSK	1	24	21.68	21.66	21.64		
5	QPSK	12	0	21.78	21.77	21.74	22.5	0
5	QPSK	12	7	21.81	21.78	21.70		
5	QPSK	12	13	21.80	21.84	21.68		
5	QPSK	25	0	21.78	21.77	21.75	22.5	0
5	16QAM	1	0	21.96	21.97	21.96		
5	16QAM	1	12	22.08	22.00	22.03		
5	16QAM	1	24	22.08	22.10	22.02	22.5	0
5	16QAM	12	0	21.89	21.85	21.79		
5	16QAM	12	7	21.89	21.84	21.79		
5	16QAM	12	13	21.89	21.91	21.80	22.5	0
5	16QAM	25	0	21.88	21.82	21.81		
5	64QAM	1	0	21.94	22.00	21.95		
5	64QAM	1	12	21.93	21.87	21.89	22.5	0
5	64QAM	1	24	21.98	22.01	21.87		
5	64QAM	12	0	21.12	21.16	21.05		
5	64QAM	12	7	21.15	21.15	21.08	21.5	1
5	64QAM	12	13	21.15	21.20	21.06		
5	64QAM	25	0	21.19	21.14	21.06		

PCC		SOC		Modulation		CA_38C					
						Combination 20MHz/20MHz (100RB+100RB)					
PCC	SOC	Carrier	Modulation	PCC		SOC		Time Slot Size	Target MPR Level (dB)	Estimated Power (dBm)	Turn up Power (dBm)
				RB Size	RB offset	RB Size	RB offset				
170MHz	350MHz	QPSK	50	0	0	0	0	1	8	21.32	22.5
170MHz	350MHz	QPSK	50	0	0	0	0	c	8	21.38	22.5
380MHz	370MHz	QPSK	50	0	0	1	90	2	0	21.29	22.5

Table 4: PoD Power (2013-4)									
CA_39C									
Combination 20MHz+2MHz (150RB+150RB)									
POD Channel	SOC Channel	Modulation	POD		SOC	Total RB Size	Target MFB Level (dB)	Measured Power (dBm)	Time up Power (dBm)
			RB Size and offset	RB Size and offset					
150RB	39C	QPSK	1	0	0	1	0	24.37	25.5
150RB	39C	QPSK	1	0	0	1	0	24.58	25.5
150RB	150RB	QPSK	1	0	1	99	0	24.40	25.5

2019-1										
CA_38C										
Combination 10MHz+10MHz (100MHz+100MHz)										
POC	SCC	Modulation	POC		SCC		Total RG Size	Target MFR Level (dB)	Maximum Power (dBm)	Take up Power (dBm)
			RG Size	RG uplink	RG Size	RG uplink				
100MHz	100MHz	QPSK	1	0	0	0	1	0	20.44	21.5
100MHz	100MHz	QPSK	1	0	0	0	1	0	20.44	21.5
100MHz	100MHz	QPSK	1	0	1	0	2	0	20.33	21.5

CA_30C										
Combination 20MHz+20MHz (150RB+150RB)										
PDC Channel	SCC Channel	Modulation	PDC		SCC		Total RB Size	Target MPE Level(dB)	Measured Power (dBm)	Turn up Power (dBm)
			RB Size	Rate	RB Size	Rate				
23860	23860	QPSK	1	0	0	1	1	0	23.60	25
23860	23860	QPSK	1	0	0	1	1	0	23.75	25
23860	23860	QPSK	1	0	1	80	2	0	23.80	25

D03-1/3		CA_39C										
		Combination 22MHz+20MHz (100RB+100RB)										
DCC Channel	SDC Channel	Modulation	Power						Total Rx Power	Target MPR Level (dB)	Measured Power (dBm)	Take up Power (dBm)
			90-95	95-100	100-105	105-110	110-115	115-120				
126560	126560	QPSK	0	0	0	0	0	0	0	0	21.86	23
126901	126906	QPSK	0	0	0	0	0	1	0	0	22.07	23
126950	126952	QPSK	0	0	1	89	2	0	0	0	21.86	23

Test 9 - Full Power 265.1/3		CA_38C									
Combination 250MHz/200MHz (1000B+1000B)											
POC Channel	SOC Channel	Modulation	POC		SOC		Tx/Rx Size	Target MPE Level (dB)	Measured Power (dBm)	Turn up Power (dBm)	
			RB Size	RB Offset	RB Size	RB Offset					
37820	38048	QPSK	"	0	0	0	1	0	23.52	26.5	
37861	38090	QPSK	"	0	0	0	1	0	23.68	26.5	
37903	37952	QPSK	"	0	1	80	2	0	23.61	26.5	

CA_3BC									
Combination 20MHz/20MHz (100RB+100RB)									
PCI-Base	PCI-Sub	Modulation	PCI		Total RBs	Target MPR Level (dB)	Estimated Power (dBm)	Turn-on Power (dBm)	
			PRB	CRB					
1760	3648	QPSK	0	0	0	0	0	22.81	23.5
1760	3648	QPSK	0	0	0	1	0	22.84	23.5
3616	3760	QPSK	0	0	1	89	2	20.76	23.5

Downlink CA Power
2CA DL

3CA DL



4CA DL

Configure		PCC						SCC1						SCC2						SCC3						Power	
		LTE	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA					
		Band	(MHz)	Freq.	Channel		RB	RB	Band	(MHz)	Freq.	Channel	Band	(MHz)	Freq.	Channel	Band	(MHz)	Freq.	Channel	Tx. Power	Tx. Power					
				(MHz)				Offset														(dBm)	(dBm)				
Inter-Band	CA_2A-4A-7C	Band 2_Ant 1	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.01	24.2					
		Band 2_Ant 4	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.15	24.25					
		Band 4_Ant 1	20M	20175	1732.5	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	24.13	24.27					
		Band 4_Ant 4	20M	20175	1732.5	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	24.15	24.45					
		Band 4_Ant 8	20M	20175	1732.5	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	23.99	23.41					
		Band 4_Ant 10	20M	20175	1732.5	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	23.42	23.46					
		Band 7_Ant 1	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	24.19	24.26					
		Band 7_Ant 4	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	24.58	24.6					
		Band 7_Ant 8	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	23.78	23.81					
		Band 7_Ant 10	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	24.06	24.23					



5CA DL

Configure		PCC					SCC1					SCC2					SCC3					SCC4					Power	
		LTE	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA		
		Band	(MHz)	Freq	Channel		RB	RB	Band	(MHz)	Freq	Channel	Band	(MHz)	Freq	Channel	Band	(MHz)	Freq	Channel	Band	(MHz)	Freq	Channel	Tx Power	Tx Power		
Inter-Band	CA_5A-7C-66A-66A	Band 5_Ant 2	10M	836.5	20325	QPSK	1	0	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.61	24.68		
		Band 5_Ant 10	10M	836.5	20325	QPSK	1	0	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.16	24.44		
		Band 7_Ant 1	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 66	5M	2197.5	67311	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.2	24.26		
		Band 7_Ant 4	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 66	5M	2197.5	67311	Band 5	10M	881.5	2525	24.16	24.6						
		Band 7_Ant 8	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 66	5M	2197.5	67311	Band 5	10M	881.5	2525	23.16	23.31						
		Band 7_Ant 10	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 66	5M	2197.5	67311	Band 5	10M	881.5	2525	24.16	24.23						
		Band 66_Ant 1	20M	1770	132172	QPSK	1	0	Band 66	5M	2112.5	66461	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.35	24.46		
		Band 66_Ant 4	20M	1770	132172	QPSK	1	0	Band 66	5M	2112.5	66461	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.31	24.43		

ANT1

n7 SA Full Power / DSI 1/4									
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	24.83	24.85	24.84	25.5	0.0	
20	PI/2 BPSK	1	53	24.91	24.91	24.90			
20	PI/2 BPSK	1	104	24.74	24.73	24.71			
20	PI/2 BPSK	50	0	24.33	24.32	24.35	25.0	0.5	
20	PI/2 BPSK	50	28	24.86	24.84	24.81	25.5	0.0	
20	PI/2 BPSK	50	56	24.38	24.37	24.39	25.0	0.5	
20	PI/2 BPSK	100	0	24.34	24.36	24.40			
20	QPSK	1	1	25.02	25.11	25.07			
20	QPSK	1	53	24.58	24.36	24.73	25.5	0.0	
20	QPSK	1	104	24.55	24.63	24.16			
20	QPSK	50	0	22.30	22.54	22.40			
20	QPSK	50	28	24.61	24.78	24.75	25.5	0.0	
20	QPSK	50	56	24.02	23.90	23.94	24.5	1.0	
20	QPSK	100	0	23.47	23.54	23.44			
20	16QAM	1	1	23.27	23.39	23.48			
20	64QAM	1	1	22.03	22.09	22.06	23.0	2.5	
20	256QAM	1	1	20.26	20.28	20.16	21.0	4.5	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	24.77	24.83	24.93	25.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	24.81	24.86	24.64	25.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	24.85	24.76	24.66	25.5	0.0	

n41 SA Full Power / DSI 1/4								
BW [MHz]	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	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	21.44	21.42	21.35	22.5	0.0
100	PI/2 BPSK	1	137	21.44	21.27	21.39		
100	PI/2 BPSK	1	271	21.06	21.17	21.36		
100	PI/2 BPSK	135	0	20.70	20.73	20.57	22.5	0.0
100	PI/2 BPSK	135	69	21.07	21.18	21.33		
100	PI/2 BPSK	135	138	20.73	20.66	20.62		
100	PI/2 BPSK	270	0	20.60	20.71	20.55	22.0	0.5
100	QPSK	1	1	22.19	22.20	21.95	22.5	0.0
100	QPSK	1	137	21.27	21.34	21.14		
100	QPSK	1	271	21.01	20.85	21.02		
100	QPSK	135	0	19.80	19.63	19.44	22.5	0.0
100	QPSK	135	69	21.23	21.25	21.19		
100	QPSK	135	138	20.33	20.22	20.11		
100	QPSK	270	0	20.43	20.27	20.24	21.5	1.0
100	16QAM	1	1	20.44	20.42	20.23	21.5	1.0
100	64QAM	1	1	19.15	19.08	19.04	20.0	2.5
100	256QAM	1	1	16.44	16.03	16.64	18.0	4.5
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	21.29	21.50	21.38	22.5	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	21.63	21.23	21.52	22.5	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	21.50	21.50	21.43	22.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	21.53	21.42	21.24	22.5	0.0

n7 SA DSI 3/5								
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	19.92	19.84	19.58	20.5	0.0
20	PI/2 BPSK	1	53	19.75	19.79	19.52		
20	PI/2 BPSK	1	104	19.73	19.70	19.99		
20	PI/2 BPSK	50	0	19.74	19.70	19.81		
20	PI/2 BPSK	50	28	19.58	19.63	19.92	20.5	0.0
20	PI/2 BPSK	50	56	19.79	19.75	20.14	20.5	0.0
20	PI/2 BPSK	100	0	19.66	19.66	19.21		
20	QPSK	1	1	19.91	20.29	20.12	20.5	0.0
20	QPSK	1	53	19.97	20.02	19.80		
20	QPSK	1	104	19.79	19.87	19.78		
20	QPSK	50	0	19.90	19.90	19.52		
20	QPSK	50	28	19.75	20.08	20.00	20.5	0.0
20	QPSK	50	56	19.91	19.89	19.42	20.5	1.0
20	QPSK	100	0	19.73	19.81	19.54		
20	16QAM	1	1	19.90	19.83	19.51	20.5	0.0
20	64QAM	1	1	19.79	19.81	19.93	20.5	0.0
20	256QAM	1	1	19.91	19.84	19.60	20.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	19.88	19.78	19.51	20.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	19.92	19.81	20.21	20.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	19.92	19.86	20.26	20.5	0.0

n41 SA DSI 3/5								
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				509202	518598	528000	19.5	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.35	19.33	19.28	19.5	0.0
100	PI/2 BPSK	1	137	19.19	19.16	19.10		
100	PI/2 BPSK	1	271	18.70	18.74	18.74		
100	PI/2 BPSK	135	0	19.18	19.24	19.21	19.5	0.0
100	PI/2 BPSK	135	69	19.16	19.02	19.00		
100	PI/2 BPSK	135	138	18.87	18.83	18.91		
100	PI/2 BPSK	270	0	18.98	19.02	19.05	19.5	0.0
100	QPSK	1	1	19.31	19.41	19.38	19.5	0.0
100	QPSK	1	137	19.07	19.06	19.06		
100	QPSK	1	271	18.76	18.79	18.74		
100	QPSK	135	0	18.96	19.11	19.11	19.5	0.0
100	QPSK	135	69	19.11	19.23	19.00		
100	QPSK	135	138	18.92	18.94	18.89		
100	QPSK	270	0	18.91	18.97	19.05	19.5	0.0
100	16QAM	1	1	19.18	19.15	19.22	19.5	0.0
100	64QAM	1	1	19.15	19.09	19.06	19.5	0.0
100	256QAM	1	1	17.66	17.52	17.59	18.0	1.5
Channel				507204	518598	529998	19.5	0.0
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	19.40	19.33	19.41	19.5	0.0
Channel				505200	518598	531996	19.5	0.0
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	19.35	19.26	19.30	19.5	0.0
Channel				503202	518598	534000	19.5	0.0
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.32	19.30	19.42	19.5	0.0
Channel				501204	518598	535998	19.5	0.0
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.45	19.37	19.43	19.5	0.0

ANT2

n5 NSA Full Power								
BW [MHz]	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)				834	836.5	839		
20	PI/2 BPSK	1	1	25.27	25.39	25.33	25.5	0.0
20	PI/2 BPSK	1	53	25.37	25.42	25.32		
20	PI/2 BPSK	1	104	25.16	25.23	25.11		
20	PI/2 BPSK	50	0	24.72	24.81	24.67		
20	PI/2 BPSK	50	28	25.30	25.41	25.36	25.5	0.0
20	PI/2 BPSK	50	56	24.69	24.80	24.69	25.0	0.5
20	PI/2 BPSK	100	0	24.78	24.87	24.76		
20	QPSK	1	1	25.45	25.45	25.44		
20	QPSK	1	53	25.41	25.40	25.43		
20	QPSK	1	104	25.34	25.39	25.27	25.5	0.0
20	QPSK	50	0	24.35	24.42	24.29		
20	QPSK	50	28	25.40	25.43	25.42		
20	QPSK	50	56	24.24	24.37	24.23		
20	QPSK	100	0	24.39	24.49	24.40	24.5	1.0
20	16QAM	1	1	24.32	24.39	24.24	24.5	1.0
20	64QAM	1	1	23.27	23.36	23.25	23.0	2.5
20	256QAM	1	1	20.70	20.82	20.74	21.0	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	25.19	25.20	25.15	25.5	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	25.17	25.32	25.25	25.5	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	25.29	25.39	25.23	25.5	0.0

n77 SA Full Power

BW [MHz]	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	24.5	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	22.08	22.17	22.18	24.5	0.0
100	PI/2 BPSK	1	137	22.29	22.32	22.32		
100	PI/2 BPSK	1	271	22.55	22.39	22.40		
100	PI/2 BPSK	135	0	22.19	22.32	22.34	24.5	0.0
100	PI/2 BPSK	135	69	22.55	22.43	22.41		
100	PI/2 BPSK	135	138	22.40	22.47	22.44		
100	PI/2 BPSK	270	0	22.51	22.54	22.56	24.0	0.5
100	QPSK	1	1	22.61	22.63	22.48	24.5	0.0
100	QPSK	1	137	22.52	22.62	22.60		
100	QPSK	1	271	22.56	22.53	22.57		
100	QPSK	135	0	22.04	22.08	22.28	24.5	0.0
100	QPSK	135	69	22.58	22.59	22.52		
100	QPSK	135	138	22.52	22.52	22.51		
100	QPSK	270	0	22.45	22.55	22.59	23.5	1.0
100	16QAM	1	1	22.49	22.36	22.38	23.5	1.0
100	64QAM	1	1	21.78	21.72	21.70	22.0	2.5
100	256QAM	1	1	19.83	19.84	19.87	20.0	4.5

HPUE n77 SA Full Power

BW [MHz]	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	26.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	24.04	24.14	24.08	26.0	0.0
100	PI/2 BPSK	1	137	24.12	24.21	24.14		
100	PI/2 BPSK	1	271	24.23	24.28	24.22		
100	PI/2 BPSK	135	0	23.52	23.62	23.57	25.5	0.0
100	PI/2 BPSK	135	69	23.95	24.11	24.05	26.0	
100	PI/2 BPSK	135	138	23.58	23.71	23.66	25.5	
100	PI/2 BPSK	270	0	23.54	23.66	23.60	25.5	0.5
100	QPSK	1	1	24.16	24.30	24.27	26.0	0.0
100	QPSK	1	137	24.09	24.18	24.13		
100	QPSK	1	271	24.10	24.27	24.19		
100	QPSK	135	0	23.10	23.31	23.22	25.0	0.0
100	QPSK	135	69	24.13	24.21	24.15	26.0	
100	QPSK	135	138	23.18	23.30	23.25	25.0	
100	QPSK	270	0	23.10	23.21	23.15	25.0	1.0
100	16QAM	1	1	23.04	23.15	23.08	25.0	1.0
100	64QAM	1	1	21.36	21.55	21.48	23.5	2.5
100	256QAM	1	1	19.70	19.81	19.74	21.5	4.5

n5 NSA DSI 1/5

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				166800	167300	167800	19.5	0.0
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	19.37	19.32	19.42	19.5	0.0
20	PI/2 BPSK	1	53	19.22	19.11	19.13		
20	PI/2 BPSK	1	104	19.10	19.09	19.18		
20	PI/2 BPSK	50	0	19.21	19.25	19.20	19.5	0.0
20	PI/2 BPSK	50	28	19.11	19.17	19.12	19.5	0.0
20	PI/2 BPSK	50	56	18.99	19.07	19.18	19.5	0.0
20	PI/2 BPSK	100	0	19.12	19.19	19.13		
20	QPSK	1	1	19.36	19.45	19.44		
20	QPSK	1	53	19.20	19.27	19.25	19.5	0.0
20	QPSK	1	104	19.01	19.06	19.07		
20	QPSK	50	0	19.22	19.27	19.20		
20	QPSK	50	28	19.20	19.35	19.22	19.5	0.0
20	QPSK	50	56	19.13	19.18	19.15	19.5	0.0
20	QPSK	100	0	19.17	19.20	19.20		
20	16QAM	1	1	19.40	19.42	19.36		
20	64QAM	1	1	19.38	19.33	19.26	19.5	0.0
20	256QAM	1	1	19.32	19.36	19.34	19.5	0.0
Channel				166300	167300	168300	19.5	0.0
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	19.34	19.43	19.38	19.5	0.0
Channel				165800	167300	168800	19.5	0.0
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	19.29	19.24	19.35	19.5	0.0
Channel				165300	167300	169300	19.5	0.0
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	19.15	19.28	19.40	19.5	0.0

n5 NSA DSI 3/4

BW [MHz]	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	24.5	0.0
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	24.36	24.41	24.47	24.5	0.0
20	PI/2 BPSK	1	53	24.39	24.36	24.38		
20	PI/2 BPSK	1	104	24.18	24.17	24.14		
20	PI/2 BPSK	50	0	24.31	24.35	24.32	24.5	0.0
20	PI/2 BPSK	50	28	24.30	24.27	24.28	24.5	0.0
20	PI/2 BPSK	50	56	24.23	24.22	24.25	24.5	0.0
20	PI/2 BPSK	100	0	24.25	24.27	24.24		
20	QPSK	1	1	24.39	24.48	24.33		
20	QPSK	1	53	24.41	24.45	24.45	24.5	0.0
20	QPSK	1	104	24.22	24.23	24.22		
20	QPSK	50	0	24.38	24.40	24.36		
20	QPSK	50	28	24.36	24.42	24.38	24.5	0.0
20	QPSK	50	56	24.27	24.27	24.23	24.5	0.0
20	QPSK	100	0	24.39	24.37	24.31		
20	16QAM	1	1	24.46	24.47	24.41		
20	64QAM	1	1	22.98	23.03	23.07	23.0	1.5
20	256QAM	1	1	20.76	20.74	20.69	21.0	3.5
Channel				166300	167300	168300	24.5	0.0
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	24.26	24.30	24.43	24.5	0.0
Channel				165800	167300	168800	24.5	0.0
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	24.30	24.37	24.41	24.5	0.0
Channel				165300	167300	169300	24.5	0.0
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	24.41	24.44	24.35	24.5	0.0

PC2/3 n77 SA DSI 1/5

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	18.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	16.62	16.64	16.50	18.0	0.0
100	PI/2 BPSK	1	137	16.17	16.20	16.20		
100	PI/2 BPSK	1	271	16.49	16.62	16.53		
100	PI/2 BPSK	135	0	16.11	16.13	16.22		
100	PI/2 BPSK	135	69	16.28	16.24	16.09	18.0	0.0
100	PI/2 BPSK	135	138	16.26	16.37	16.09	18.0	
100	PI/2 BPSK	270	0	16.32	16.21	16.27	18.0	0.0
100	QPSK	1	1	16.73	16.85	16.68	18.0	0.0
100	QPSK	1	137	16.29	16.24	16.17		
100	QPSK	1	271	16.60	16.84	16.70		
100	QPSK	135	0	15.90	15.85	15.70		
100	QPSK	135	69	16.25	16.35	16.17	18.0	0.0
100	QPSK	135	138	15.94	15.81	15.69	18.0	
100	QPSK	270	0	16.23	16.25	16.30	18.0	0.0
100	16QAM	1	1	16.60	16.56	16.46	18.0	0.0
100	64QAM	1	1	16.69	16.66	16.71	18.0	0.0
100	256QAM	1	1	16.08	16.06	16.22	18.0	0.0
Channel				649668	656000	662334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)
90	QPSK	1	1	16.67	16.67	16.47	18.0	0.0
Channel				649334	656000	662668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)
80	QPSK	1	1	16.61	16.62	16.47	18.0	0.0
Channel				648668	656000	663334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)
60	QPSK	1	1	16.55	16.62	16.47	18.0	0.0
Channel				648334	656000	663668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)
50	QPSK	1	1	16.69	16.61	16.52	18.0	0.0
Channel				648000	656000	664000	Tune-up limit	MPR
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)
40	QPSK	1	1	16.63	16.62	16.50	18.0	0.0
Channel				647334	656000	664668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)
20	QPSK	1	1	16.51	16.73	16.49	18.0	0.0

PC2/3 n77 SA DSI 3/4

BW [MHz]	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	24.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	22.42	22.49	22.47	24.0	0.0
100	PI/2 BPSK	1	137	22.52	22.59	22.48		
100	PI/2 BPSK	1	271	22.60	22.58	22.61		
100	PI/2 BPSK	135	0	21.40	21.41	21.52		
100	PI/2 BPSK	135	69	22.05	22.12	22.19	24.0	0.0
100	PI/2 BPSK	135	138	22.16	22.11	22.18	24.0	
100	PI/2 BPSK	270	0	22.13	22.14	22.22	24.0	0.0
100	QPSK	1	1	22.53	22.65	22.56	24.0	0.0
100	QPSK	1	137	22.39	22.44	22.39		
100	QPSK	1	271	22.56	22.54	22.43		
100	QPSK	135	0	22.55	22.48	22.37	24.0	
100	QPSK	135	69	22.42	22.56	22.40	24.0	0.0
100	QPSK	135	138	22.38	22.40	22.43	24.0	
100	QPSK	270	0	22.53	22.50	22.44	24.0	0.0
100	16QAM	1	1	22.58	22.55	22.56	24.0	0.0
100	64QAM	1	1	22.51	22.46	22.37	24.0	0.5
100	256QAM	1	1	20.15	20.13	20.17	24.0	2.5
Channel				649668	656000	662334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)
90	QPSK	1	1	22.52	22.59	22.38	24.0	0.0
Channel				649334	656000	662668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)
80	QPSK	1	1	22.37	22.42	22.40	24.0	0.0
Channel				648668	656000	663334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)
60	QPSK	1	1	22.51	22.47	22.44	24.0	0.0
Channel				648334	656000	663668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)
50	QPSK	1	1	22.36	22.53	22.44	24.0	0.0
Channel				648000	656000	664000	Tune-up limit	MPR
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)
40	QPSK	1	1	22.40	22.46	22.48	24.0	0.0
Channel				647334	656000	664668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)
20	QPSK	1	1	22.44	22.42	22.50	24.0	0.0

ANT3

n77 SA Full Power								
BW [MHz]	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	PI/2 BPSK	1	1	24.37	24.25	24.22	25.7	0.0
100	PI/2 BPSK	1	137	24.16	24.39	24.35		
100	PI/2 BPSK	1	271	24.68	24.64	24.58		
100	PI/2 BPSK	135	0	24.77	24.56	24.68	25.7	0.0
100	PI/2 BPSK	135	69	24.46	24.61	24.65		
100	PI/2 BPSK	135	138	24.64	24.73	24.71		
100	PI/2 BPSK	270	0	24.54	24.78	24.88	25.2	0.5
100	QPSK	1	1	24.88	25.07	24.82	25.7	0.0
100	QPSK	1	137	24.72	24.45	24.30		
100	QPSK	1	271	24.95	24.88	24.83		
100	QPSK	135	0	24.58	24.45	24.55	25.7	0.0
100	QPSK	135	69	25.02	25.04	24.96		
100	QPSK	135	138	24.97	24.84	24.78		
100	QPSK	270	0	23.90	23.89	23.87	24.7	1.0
100	16QAM	1	1	23.80	23.58	23.66	24.7	1.0
100	64QAM	1	1	22.80	22.52	22.52	23.2	2.5
100	256QAM	1	1	20.44	20.34	20.35	21.2	4.5

HPUE n77 SA Full Power								
BW [MHz]	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	PI/2 BPSK	1	1	26.41	26.48	26.43	27.5	0.0
100	PI/2 BPSK	1	137	26.38	26.51	26.41		
100	PI/2 BPSK	1	271	26.42	26.48	26.40		
100	PI/2 BPSK	135	0	25.79	25.95	25.83	27.0	0.0
100	PI/2 BPSK	135	69	26.34	26.43	26.31	27.5	
100	PI/2 BPSK	135	138	25.90	25.97	25.88	27.0	
100	PI/2 BPSK	270	0	25.83	25.94	25.86	27.0	0.5
100	QPSK	1	1	26.35	26.53	26.40	27.5	0.0
100	QPSK	1	137	26.44	26.52	26.45		
100	QPSK	1	271	26.41	26.50	26.44		
100	QPSK	135	0	25.38	25.49	25.35	26.5	0.0
100	QPSK	135	69	26.34	26.41	26.30	27.5	
100	QPSK	135	138	25.41	25.53	25.44	26.5	
100	QPSK	270	0	25.31	25.44	25.36	26.5	1.0
100	16QAM	1	1	25.32	25.45	25.35	26.5	1.0
100	64QAM	1	1	24.11	24.25	24.18	25.0	2.5
100	256QAM	1	1	21.82	21.91	21.82	23.0	4.5



PC2/3 n77 SA DSI 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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	18.61	18.51	18.80	19.5	0.0	
100	PI2 BPSK	1	137	18.43	18.44	18.40			
100	PI2 BPSK	1	271	18.49	18.46	18.48			
100	PI2 BPSK	135	0	18.39	18.53	18.50	19.5	0.0	
100	PI2 BPSK	135	69	18.26	18.46	18.47			
100	PI2 BPSK	135	138	18.43	18.40	18.31			
100	PI2 BPSK	270	0	18.58	18.46	18.47	19.5	0.0	
100	QPSK	1	1	18.55	18.71	18.63			
100	QPSK	1	137	18.52	18.44	18.51			
100	QPSK	1	271	18.67	18.50	18.48	19.5	0.0	
100	QPSK	135	0	18.52	18.49	18.54			
100	QPSK	135	69	18.60	18.62	18.43			
100	QPSK	135	138	18.49	18.42	18.51	19.5	0.0	
100	QPSK	270	0	18.37	18.48	18.39			
100	16QAM	1	1	18.39	18.59	18.84			
100	64QAM	1	1	18.59	18.48	18.59	19.5	0.0	
100	256QAM	1	1	18.65	18.49	18.84			
Channel				648668	656000	662334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	18.62	18.54	18.65	19.5	0.0	
Channel				645334	656000	662000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	18.79	18.42	18.58	19.5	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	18.75	18.53	18.56	19.5	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3725.01	3840	3965.02			
50	QPSK	1	1	18.80	18.47	18.52	19.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	18.73	18.44	18.63	19.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	18.90	18.44	18.61	19.5	0.0	

PC2/3 n77 SA DSI 3/5									
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				660000	660000	662000			
Frequency (MHz)				3750	3840	3830			
100	PI2 BPSK	1	1	17.21	17.23	17.04	18.5	0.0	
100	PI2 BPSK	1	137	16.82	16.97	17.08			
100	PI2 BPSK	1	271	16.97	17.04	17.17			
100	PI2 BPSK	135	0	17.17	16.99	16.79	18.5	0.0	
100	PI2 BPSK	135	69	16.69	16.92	16.96	18.5		
100	PI2 BPSK	135	138	16.99	16.93	16.76	18.5		
100	PI2 BPSK	270	0	16.95	16.96	17.17	18.5	0.0	
100	QPSK	1	1	17.09	17.32	17.12			
100	QPSK	1	137	16.95	16.93	16.93	18.5		
100	QPSK	1	271	17.00	16.98	16.84	18.5	0.0	
100	QPSK	135	0	17.15	17.03	17.12	18.5		
100	QPSK	135	69	16.96	17.21	16.99	18.5		
100	QPSK	135	138	16.76	16.84	16.67	18.5	0.0	
100	QPSK	270	0	16.99	16.95	16.99	18.5		
100	16QAM	1	1	16.83	16.97	16.82	18.5		
100	64QAM	1	1	17.06	17.29	17.14	18.5	0.0	
100	256QAM	1	1	17.25	17.13	16.84	18.5		
Channel				648668	656000	662334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	17.02	17.36	17.16	18.5	0.0	
Channel				645334	656000	662000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	17.27	17.24	17.13	18.5	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	17.10	17.24	16.90	18.5	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3725.01	3840	3965.02			
50	QPSK	1	1	17.24	17.35	16.96	18.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	17.02	17.05	17.23	18.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	17.19	17.31	17.10	18.5	0.0	

PC2/3 n77 SA DSI 4									
BW [MHz]	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	PI2 BPSK	1	1	25.37	25.40	25.18	26.5	0.0	
100	PI2 BPSK	1	137	25.07	25.25	25.19			
100	PI2 BPSK	1	271	25.10	25.26	25.19			
100	PI2 BPSK	135	0	25.15	25.33	25.23	26.5	0.0	
100	PI2 BPSK	135	69	25.40	25.24	25.46	26.5		
100	PI2 BPSK	135	138	25.17	25.27	25.53	26.5		
100	PI2 BPSK	270	0	25.03	25.26	25.49	26.5	0.0	
100	QPSK	1	1	25.65	25.78	25.71			
100	QPSK	1	137	25.61	25.37	25.30	26.5		
100	QPSK	1	271	25.60	25.46	25.62	26.5	0.0	
100	QPSK	135	0	25.41	25.37	25.24	26.5		
100	QPSK	135	69	25.35	25.42	25.37	26.5		
100	QPSK	135	138	25.36	25.33	25.20	26.5	0.0	
100	QPSK	270	0	25.15	25.31	25.28	26.5		
100	16QAM	1	1	25.44	25.62	25.80	26.5		
100	64QAM	1	1	24.35	24.22	24.10	26.5	1.5	
100	256QAM	1	1	22.06	21.98	22.05	26.5		
Channel				648668	656000	662334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	25.57	25.23	25.43	26.5	0.0	
Channel				645334	656000	662000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	25.17	25.64	24.98	26.5	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	25.10	25.63	25.22	26.5	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3725.01	3840	3965.02			
50	QPSK	1	1	25.12	25.13	25.43	26.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	25.25	25.35	25.40	26.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR	(dB)
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	25.58	25.26	24.91	26.5	0.0	

ANT4

n7 SA Full Power									
BW [MHz]	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	25.5	0.0	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	25.38	25.15	25.33	25.5	0.0	
20	PI/2 BPSK	1	53	25.40	25.28	25.48			
20	PI/2 BPSK	1	104	25.20	25.27	25.31	25.0	0.5	
20	PI/2 BPSK	50	0	24.55	24.88	25.07			
20	PI/2 BPSK	50	28	25.47	25.38	25.29	25.5	0.0	
20	PI/2 BPSK	50	56	24.67	24.99	24.79			
20	PI/2 BPSK	100	0	25.03	24.93	25.11	25.0	0.5	
20	QPSK	1	1	25.38	25.48	25.32			
20	QPSK	1	53	25.37	25.24	25.16	25.5	0.0	
20	QPSK	1	104	25.33	25.41	25.40			
20	QPSK	50	0	23.69	24.03	24.08	24.5	1.0	
20	QPSK	50	28	25.33	25.39	25.31			
20	QPSK	50	56	24.27	24.46	24.50	24.5	1.0	
20	QPSK	100	0	24.24	24.29	24.17			
20	16QAM	1	1	24.05	23.74	23.72	24.5	1.0	
20	64QAM	1	1	22.59	22.55	22.52			
20	256QAM	1	1	20.82	20.95	20.84	21.0	4.5	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	24.49	24.87	24.74	25.5	0.0	
Channel				501000	507000	513000			
Frequency (MHz)				2505	2535	2565	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	24.53	24.57	24.72			
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	24.37	24.75	24.47	25.5	0.0	

n41 SA Full Power / DSI 4								
BW [MHz]	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	528000	23.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	22.07	21.95	21.92		
100	PI/2 BPSK	1	137	21.80	21.78	21.83	23.0	0.0
100	PI/2 BPSK	1	271	21.64	21.58	21.60		
100	PI/2 BPSK	135	0	21.45	21.35	21.32		
100	PI/2 BPSK	135	69	21.70	21.78	21.81	22.5	0.5
100	PI/2 BPSK	135	138	21.24	21.24	21.22		
100	PI/2 BPSK	270	0	21.20	21.33	21.34		
100	QPSK	1	1	22.25	22.28	22.05	23.0	0.0
100	QPSK	1	137	21.76	21.77	21.71		
100	QPSK	1	271	21.41	21.42	21.46		
100	QPSK	135	0	21.25	20.99	20.87	22.0	1.0
100	QPSK	135	69	21.75	21.62	21.81		
100	QPSK	135	138	20.75	20.77	20.77		
100	QPSK	270	0	20.73	20.85	20.90	22.0	1.0
100	16QAM	1	1	20.63	20.58	20.61		
100	64QAM	1	1	19.00	19.02	19.01		
100	256QAM	1	1	17.39	17.34	17.37	18.5	4.5
Channel				507204	518598	529998	23.0	0.0
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	22.27	21.76	21.82		
Channel				505200	518598	531996	23.0	0.0
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	22.01	21.99	21.77		
Channel				503202	518598	534000	23.0	0.0
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.09	22.15	22.10		
Channel				501204	518598	535998	23.0	0.0
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.20	22.12	22.02		

n7 SA DSI 1/5

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				302000	307000	312000	16.5	0.0
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	16.30	16.32	16.25	16.5	0.0
20	PI/2 BPSK	1	53	16.05	16.23	16.25		
20	PI/2 BPSK	1	104	16.05	16.22	16.07		
20	PI/2 BPSK	50	0	16.14	16.28	16.10	16.5	0.0
20	PI/2 BPSK	50	28	16.06	16.23	16.16	16.5	0.0
20	PI/2 BPSK	50	56	16.13	16.22	16.13	16.5	0.0
20	PI/2 BPSK	100	0	16.09	16.21	16.13		
20	QPSK	1	1	16.23	16.40	16.33		
20	QPSK	1	53	16.27	16.38	16.34	16.5	0.0
20	QPSK	1	104	16.34	16.23	16.21		
20	QPSK	50	0	16.21	16.27	16.25	15.5	1.0
20	QPSK	50	28	16.11	16.31	15.99	16.5	0.0
20	QPSK	50	56	16.06	16.23	16.08	15.5	1.0
20	QPSK	100	0	16.23	16.24	16.22	16.5	0.0
20	16QAM	1	1	16.36	16.37	16.17		
20	16QAM	1	1	16.04	16.05	16.01		
20	256QAM	1	1	16.21	16.28	16.32	16.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	16.07	16.36	16.12	16.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	16.14	16.32	16.13	16.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	16.01	16.22	16.10	16.5	0.0

n7 SA DSI 3

BW [MHz]	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	18.5	0.0
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	16.12	16.20	16.20	18.5	0.0
20	PI/2 BPSK	1	53	16.24	16.22	16.14		
20	PI/2 BPSK	1	104	16.14	16.18	16.18		
20	PI/2 BPSK	50	0	16.13	16.22	16.13	18.5	0.0
20	PI/2 BPSK	50	28	16.06	16.23	16.16	18.5	0.0
20	PI/2 BPSK	50	56	16.08	16.14	16.04	18.5	0.0
20	PI/2 BPSK	100	0	16.16	16.17	16.15		
20	QPSK	1	1	16.18	16.25	16.17		
20	QPSK	1	53	16.19	16.15	16.11	18.5	0.0
20	QPSK	1	104	17.95	16.17	16.15		
20	QPSK	50	0	16.04	16.23	16.16	17.5	1.0
20	QPSK	50	28	16.10	16.23	16.12	18.5	0.0
20	QPSK	50	56	16.10	16.20	16.12	17.5	1.0
20	QPSK	100	0	16.02	16.22	16.20	18.5	0.0
20	16QAM	1	1	17.76	17.94	17.92		
20	64QAM	1	1	16.11	16.18	16.16		
20	256QAM	1	1	17.98	16.17	16.11	18.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	16.04	16.16	16.10	18.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	16.17	16.02	16.07	18.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	16.11	16.18	16.16	18.5	0.0

n7 SA DSI 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				302000	307000	312000	24.5	0.0
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	24.16	24.23	24.13	24.5	0.0
20	PI/2 BPSK	1	53	24.21	24.27	24.25		
20	PI/2 BPSK	1	104	24.14	24.20	24.25		
20	PI/2 BPSK	50	0	24.16	24.24	24.34	24.5	0.0
20	PI/2 BPSK	50	28	24.16	24.27	24.32	24.5	0.0
20	PI/2 BPSK	50	56	24.21	24.21	24.07	24.5	0.0
20	PI/2 BPSK	100	0	24.21	24.26	24.20		
20	QPSK	1	1	24.25	24.40	24.27		
20	QPSK	1	53	24.28	24.31	24.33	24.5	0.0
20	QPSK	1	104	24.16	24.27	24.23		
20	QPSK	50	0	24.28	24.29	24.17	23.5	1.0
20	QPSK	50	28	24.30	24.30	24.26	24.5	0.0
20	QPSK	50	56	24.21	24.29	24.15	23.5	1.0
20	QPSK	100	0	24.26	24.31	24.22	24.5	0.0
20	16QAM	1	1	23.57	23.64	23.47		
20	64QAM	1	1	22.49	22.50	22.36		
20	256QAM	1	1	20.79	20.84	20.73	21.0	3.5
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	23.96	24.23	24.08	24.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	24.19	24.16	24.07	24.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	24.22	24.22	24.16	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				509202	518598	528000	20.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.18	19.19	18.94	20.0	0.0
100	PI/2 BPSK	1	137	18.96	19.09	19.05		
100	PI/2 BPSK	1	271	18.83	18.92	18.93		
100	PI/2 BPSK	135	0	19.01	19.06	19.16		
100	PI/2 BPSK	135	69	18.91	19.03	18.88	20.0	0.0
100	PI/2 BPSK	135	138	18.78	18.87	18.96		
100	PI/2 BPSK	270	0	18.90	19.01	18.96	20.0	0.0
100	QPSK	1	1	19.20	19.28	19.05	20.0	0.0
100	QPSK	1	137	19.06	19.07	19.05		
100	QPSK	1	271	18.98	18.94	18.91		
100	QPSK	135	0	19.11	19.11	19.10		
100	QPSK	135	69	19.04	19.12	18.82	20.0	0.0
100	QPSK	135	138	18.88	18.93	19.04		
100	QPSK	270	0	19.03	18.99	18.92	20.0	0.0
100	16QAM	1	1	18.80	18.92	18.95	20.0	0.0
100	64QAM	1	1	18.67	18.80	18.56	20.0	0.0
100	256QAM	1	1	18.04	18.05	18.13	18.5	1.5
Channel				507204	518598	529998	20.0	0.0
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	19.22	19.27	19.15	20.0	0.0
Channel				505200	518598	531996	20.0	0.0
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	19.13	19.14	18.89	20.0	0.0
Channel				503202	518598	534000	20.0	0.0
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.05	19.22	18.83	20.0	0.0
Channel				501204	518598	535998	20.0	0.0
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.13	19.12	18.84	20.0	0.0

n41 SA DSI 3

BW [MHz]	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	528000	21.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	20.25	20.26	20.15	21.0	0.0
100	PI/2 BPSK	1	137	20.02	20.07	19.98		
100	PI/2 BPSK	1	271	19.92	19.92	19.94		
100	PI/2 BPSK	135	0	19.95	19.99	19.99		
100	PI/2 BPSK	135	69	19.88	20.02	19.88	21.0	0.0
100	PI/2 BPSK	135	138	19.88	19.94	20.01		
100	PI/2 BPSK	270	0	19.98	20.04	19.97	21.0	0.0
100	QPSK	1	1	20.23	20.32	20.30	21.0	0.0
100	QPSK	1	137	20.10	20.08	20.00		
100	QPSK	1	271	19.78	19.89	19.77		
100	QPSK	135	0	20.06	20.04	20.08		
100	QPSK	135	69	19.97	20.15	20.00	21.0	0.0
100	QPSK	135	138	19.85	19.99	19.89		
100	QPSK	270	0	19.94	20.04	19.91	21.0	0.0
100	16QAM	1	1	19.99	20.00	19.95	21.0	0.0
100	64QAM	1	1	19.43	19.56	19.50	21.0	0.0
100	256QAM	1	1	17.25	17.37	17.23	19.5	3.5
Channel				507204	518598	529998	21.0	0.0
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	20.26	20.30	20.06	21.0	0.0
Channel				505200	518598	531996	21.0	0.0
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	20.19	20.29	20.14	21.0	0.0
Channel				503202	518598	534000	21.0	0.0
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.99	20.23	20.15	21.0	0.0
Channel				501204	518598	535998	21.0	0.0
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	20.20	20.17	20.05	21.0	0.0

ANT5

n77 SA Full Power								
BW [MHz]	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	25.7	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	23.36	23.36	23.35	25.7	0.0
100	PI/2 BPSK	1	137	23.52	23.57	23.56		
100	PI/2 BPSK	1	271	23.77	23.76	23.75		
100	PI/2 BPSK	135	0	23.64	23.66	23.69	25.7	0.0
100	PI/2 BPSK	135	69	23.79	23.83	23.81		
100	PI/2 BPSK	135	138	23.81	23.85	23.83		
100	PI/2 BPSK	270	0	23.84	23.88	23.89	25.2	0.5
100	QPSK	1	1	24.35	24.47	24.26	25.7	0.0
100	QPSK	1	137	23.38	23.32	23.31		
100	QPSK	1	271	24.26	24.22	24.20		
100	QPSK	135	0	23.75	23.72	23.97	25.7	0.0
100	QPSK	135	69	23.85	23.98	23.88		
100	QPSK	135	138	23.92	23.89	23.89		
100	QPSK	270	0	23.97	23.93	23.95	24.7	1.0
100	16QAM	1	1	24.43	24.38	24.40	24.7	1.0
100	64QAM	1	1	22.83	22.85	22.86	23.2	2.5
100	256QAM	1	1	20.84	20.88	20.87	21.2	4.5

HPUE n77 SA Full Power								
BW [MHz]	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	27.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	25.41	25.45	25.37	27.0	0.0
100	PI/2 BPSK	1	137	25.50	25.49	25.43		
100	PI/2 BPSK	1	271	25.50	25.52	25.45		
100	PI/2 BPSK	135	0	24.90	24.91	24.82	26.5	0.0
100	PI/2 BPSK	135	69	25.36	25.41	25.34	27.0	
100	PI/2 BPSK	135	138	24.94	24.95	24.88	26.5	
100	PI/2 BPSK	270	0	24.88	24.92	24.83	26.5	0.5
100	QPSK	1	1	25.52	25.63	25.58	27.0	0.0
100	QPSK	1	137	25.48	25.60	25.48		
100	QPSK	1	271	25.56	25.57	25.49		
100	QPSK	135	0	24.22	24.45	24.41	26.0	0.0
100	QPSK	135	69	25.42	25.47	25.39	27.0	
100	QPSK	135	138	24.54	24.54	24.45	26.0	
100	QPSK	270	0	24.41	24.44	24.37	26.0	1.0
100	16QAM	1	1	24.59	24.61	24.53	26.0	1.0
100	64QAM	1	1	23.15	23.15	23.08	24.5	2.5
100	256QAM	1	1	20.94	20.94	20.87	22.5	4.5

PC2/3 n77 SA DSI 1/5

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	19.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	17.69	17.76	17.62	19.0	0.0
100	PI/2 BPSK	1	137	17.63	17.66	17.54		
100	PI/2 BPSK	1	271	17.65	17.67	17.60		
100	PI/2 BPSK	135	0	17.56	17.59	17.51	19.0	0.0
100	PI/2 BPSK	135	69	17.50	17.59	17.40	19.0	
100	PI/2 BPSK	135	138	17.60	17.67	17.54	19.0	
100	PI/2 BPSK	270	0	17.54	17.64	17.52	19.0	0.0
100	QPSK	1	1	17.82	17.95	17.85	19.0	0.0
100	QPSK	1	137	17.44	17.50	17.37		
100	QPSK	1	271	17.61	17.62	17.57		
100	QPSK	135	0	17.74	17.60	17.38	19.0	0.0
100	QPSK	135	69	17.61	17.75	17.64	19.0	
100	QPSK	135	138	17.43	17.52	17.39	19.0	
100	QPSK	270	0	17.61	17.62	17.55	19.0	0.0
100	16QAM	1	1	17.60	17.60	17.57	19.0	0.0
100	64QAM	1	1	17.62	17.69	17.58	19.0	0.0
100	256QAM	1	1	17.83	17.88	17.78	19.0	0.0
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	19.0	0.0
90	QPSK	1	1	17.13	17.15	17.11	19.0	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	19.0	0.0
80	QPSK	1	1	17.16	17.19	17.10	19.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	19.0	0.0
60	QPSK	1	1	17.11	17.19	17.05	19.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	19.0	0.0
50	QPSK	1	1	17.15	17.20	17.13	19.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	19.0	0.0
40	QPSK	1	1	17.18	17.16	17.05	19.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	19.0	0.0
20	QPSK	1	1	17.15	17.18	17.06	19.0	0.0

PC2/3 n77 SA DSI 3/4

BW [MHz]	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	21.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	19.40	19.47	19.36	21.0	0.0
100	PI/2 BPSK	1	137	19.33	19.36	19.30		
100	PI/2 BPSK	1	271	19.36	19.39	19.27		
100	PI/2 BPSK	135	0	19.29	19.35	19.28	21.0	0.0
100	PI/2 BPSK	135	69	19.28	19.34	19.20	21.0	
100	PI/2 BPSK	135	138	19.22	19.27	19.13	21.0	
100	PI/2 BPSK	270	0	19.32	19.38	19.26	21.0	0.0
100	QPSK	1	1	19.61	19.65	19.57	21.0	0.0
100	QPSK	1	137	19.31	19.37	19.25		
100	QPSK	1	271	19.43	19.45	19.39		
100	QPSK	135	0	19.38	19.33	19.43	21.0	0.0
100	QPSK	135	69	19.38	19.48	19.28	21.0	
100	QPSK	135	138	19.24	19.31	19.14	21.0	
100	QPSK	270	0	19.42	19.33	19.37	21.0	0.0
100	16QAM	1	1	19.28	19.29	19.21	21.0	0.0
100	64QAM	1	1	19.44	19.43	19.43	21.0	0.0
100	256QAM	1	1	19.55	19.44	19.48	21.0	0.0
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	21.0	0.0
90	QPSK	1	1	19.14	19.25	19.12	21.0	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	21.0	0.0
80	QPSK	1	1	19.14	19.23	19.17	21.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	21.0	0.0
60	QPSK	1	1	19.19	19.19	19.15	21.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	21.0	0.0
50	QPSK	1	1	19.10	19.22	19.07	21.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	21.0	0.0
40	QPSK	1	1	19.18	19.25	19.16	21.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	21.0	0.0
20	QPSK	1	1	19.19	19.21	19.13	21.0	0.0

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n7 SA Full Power									
BW [MHz]	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	25.0	0.0	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	23.50	24.40	24.32	25.0	0.0	
20	PI/2 BPSK	1	53	23.37	24.45	24.36			
20	PI/2 BPSK	1	104	23.51	24.40	24.27			
20	PI/2 BPSK	50	0	23.49	23.91	23.79	24.5	0.5	
20	PI/2 BPSK	50	28	23.80	24.46	24.40	25.0	0.0	
20	PI/2 BPSK	50	56	23.23	24.01	23.87	24.5	0.5	
20	PI/2 BPSK	100	0	23.12	23.85	23.75			
20	QPSK	1	1	24.40	24.51	24.41	25.0	0.0	
20	QPSK	1	53	23.32	23.52	23.38			
20	QPSK	1	104	23.48	23.70	23.60			
20	QPSK	50	0	22.81	22.94	22.99	24.0	1.0	
20	QPSK	50	28	23.74	23.98	23.89	25.0	0.0	
20	QPSK	50	56	22.40	23.25	23.11	24.0	1.0	
20	QPSK	100	0	22.53	23.15	23.07			
20	16QAM	1	1	21.94	22.97	22.86	24.0	1.0	
20	64QAM	1	1	21.79	21.94	21.86	22.5	2.5	
20	256QAM	1	1	19.43	19.89	19.77	20.5	4.5	
Channel				501500	507000	512500	25.0	0.0	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	23.44	24.28	24.14	25.0	0.0	
Channel				501000	507000	513000	25.0	0.0	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	23.48	24.37	24.30	25.0	0.0	
Channel				500500	507000	513500	25.0	0.0	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	23.52	24.43	24.33	25.0	0.0	

n7 NSA Full Power									
BW [MHz]	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	25.0	0.0	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	24.34	24.42	24.34	25.0	0.0	
20	PI/2 BPSK	1	53	24.35	24.45	24.42			
20	PI/2 BPSK	1	104	24.33	24.43	24.36			
20	PI/2 BPSK	50	0	23.82	23.91	23.83	24.5	0.5	
20	PI/2 BPSK	50	28	24.41	24.42	24.37	25.0	0.0	
20	PI/2 BPSK	50	56	23.93	23.94	23.92	24.5	0.5	
20	PI/2 BPSK	100	0	23.78	23.88	23.80			
20	QPSK	1	1	24.46	24.61	24.42	25.0	0.0	
20	QPSK	1	53	24.59	24.60	24.58			
20	QPSK	1	104	24.48	24.52	24.49			
20	QPSK	50	0	23.40	23.44	23.43	24.0	1.0	
20	QPSK	50	28	24.40	24.48	24.42	25.0	0.0	
20	QPSK	50	56	23.35	23.43	23.37	24.0	1.0	
20	QPSK	100	0	23.39	23.39	23.32			
20	16QAM	1	1	23.43	23.48	23.45	24.0	1.0	
20	64QAM	1	1	22.29	22.36	22.30	22.5	2.5	
20	256QAM	1	1	19.67	19.76	19.71	20.5	4.5	
Channel				501500	507000	512500	25.0	0.0	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	24.23	24.54	24.05	25.0	0.0	
Channel				501000	507000	513000	25.0	0.0	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	24.22	24.58	24.08	25.0	0.0	
Channel				500500	507000	513500	25.0	0.0	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	24.22	24.55	24.12	25.0	0.0	

n41_FCC SA Full Power								
BW [MHz]	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	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	24.66	24.72	24.59	25.5	0.0
100	PI/2 BPSK	1	137	24.33	24.62	24.74		
100	PI/2 BPSK	1	271	24.61	24.90	24.71		
100	PI/2 BPSK	135	0	24.16	24.31	24.06	25.5	0.0
100	PI/2 BPSK	135	69	24.65	24.81	24.65		
100	PI/2 BPSK	135	138	23.98	24.40	24.07		
100	PI/2 BPSK	270	0	24.13	24.39	24.31	25.0	0.5
100	QPSK	1	1	24.71	24.96	24.76	25.5	0.0
100	QPSK	1	137	24.01	24.16	24.04		
100	QPSK	1	271	23.55	23.67	23.54		
100	QPSK	135	0	23.95	23.89	23.81	25.5	0.0
100	QPSK	135	69	24.03	24.10	23.98		
100	QPSK	135	138	23.22	23.52	23.14		
100	QPSK	270	0	23.85	23.91	23.80	24.5	1.0
100	16QAM	1	1	24.17	24.24	23.93	24.5	1.0
100	64QAM	1	1	22.69	23.01	22.86	23.0	2.5
100	256QAM	1	1	20.22	20.33	20.05	21.0	4.5
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	24.21	24.71	24.56	25.5	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	24.15	24.70	24.64	25.5	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	24.22	24.68	24.57	25.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	24.17	24.65	24.62	25.5	0.0

n7 SA DSI 1									
Set (MHz)	Modulation	RB Size	RB Offset	Power Ch. 1 (Freq.)	Power Ch. 2 (Freq.)	Power Range Ch. 1 (Freq.)	Power Range Ch. 2 (Freq.)	Transp. Bw (MHz)	MTSI (dB)
Channel									
Frequency (MHz)									
20	PR4-QPSK	1	1	20.68	19.74	20.78	19.78	21.0	0.0
20	PR4-QPSK	1	53	20.63	20.88	20.80	20.80	21.0	0.0
20	PR4-QPSK	1	104	20.77	20.79	20.71	20.71	21.0	0.0
20	PR4-QPSK	56	5	20.77	20.83	20.80	20.80	21.0	0.0
20	PR4-QPSK	56	28	20.83	20.85	20.80	20.80	21.0	0.0
20	PR4-QPSK	56	56	20.75	20.75	20.75	20.75	21.0	0.0
20	PR4-QPSK	100	6	20.74	20.82	20.75	20.75	21.0	0.0
20	QPSK	1	24	20.88	20.88	20.80	20.80	21.0	0.0
20	QPSK	1	104	20.80	20.80	20.80	20.80	21.0	0.0
20	QPSK	56	3	20.80	20.80	20.75	20.75	20.0	1.0
20	QPSK	56	28	20.74	20.82	20.75	20.75	21.0	0.0
20	QPSK	56	56	20.72	20.82	20.70	20.80	20.0	1.0
20	QPSK	100	2	20.81	20.81	20.75	20.75	20.0	0.0
20	16QAM	1	1	20.71	20.71	20.62	20.62	21.0	0.0
20	16QAM	1	1	20.64	20.70	20.70	20.70	21.0	0.0
20	256QAM	1	1	20.17	20.10	20.12	20.10	20.0	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.42	20.42	20.42	20.42	21.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.06	20.70	20.69	20.69	21.0	0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	20.00	20.12	20.07	20.10	21.0	0.0

n7 SA DSI 3/4/5									
Set (MHz)	Modulation	RB Size	RB Offset	Power Ch. 1 (Freq.)	Power Ch. 2 (Freq.)	Power Range Ch. 1 (Freq.)	Power Range Ch. 2 (Freq.)	Transp. Bw (MHz)	MTSI (dB)
Channel									
Frequency (MHz)									
20	PR4-QPSK	1	1	19.48	19.71	19.78	19.78	20.0	0.0
20	PR4-QPSK	1	53	19.54	19.87	19.80	19.80	20.0	0.0
20	PR4-QPSK	1	104	19.70	19.77	19.71	19.71	20.0	0.0
20	PR4-QPSK	56	5	19.75	19.84	19.74	19.74	20.0	0.0
20	PR4-QPSK	56	28	19.73	19.76	19.70	19.70	20.0	0.0
20	PR4-QPSK	56	56	19.67	19.74	19.68	19.68	20.0	0.0
20	PR4-QPSK	100	6	19.67	19.73	19.71	19.71	20.0	0.0
20	QPSK	1	1	19.74	19.82	19.70	19.70	20.0	0.0
20	QPSK	1	104	19.68	19.77	19.71	19.71	20.0	0.0
20	QPSK	56	3	19.72	19.80	19.74	19.74	20.0	1.0
20	QPSK	56	28	19.61	19.87	19.70	19.70	20.0	0.0
20	QPSK	56	56	19.69	19.77	19.70	19.80	19.0	1.0
20	QPSK	100	2	19.75	19.82	19.70	19.70	20.0	0.0
20	16QAM	1	1	19.66	19.70	19.71	19.70	21.0	0.0
20	16QAM	1	1	19.73	19.70	19.72	19.70	20.0	0.0
20	256QAM	1	1	19.05	19.73	19.60	19.60	20.0	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.45	19.60	19.50	19.50	20.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.06	19.87	19.80	19.80	20.0	0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	19.00	19.08	19.02	19.10	20.0	0.0

n7 NSA DSI 1									
Set (MHz)	Modulation	RB Size	RB Offset	Power Ch. 1 (Freq.)	Power Ch. 2 (Freq.)	Power Range Ch. 1 (Freq.)	Power Range Ch. 2 (Freq.)	Transp. Bw (MHz)	MTSI (dB)
Channel									
Frequency (MHz)									
20	PR4-QPSK	1	1	20.19	19.74	20.78	19.78	21.0	0.0
20	PR4-QPSK	1	53	20.30	20.87	20.54	20.54	21.0	0.0
20	PR4-QPSK	1	104	20.48	20.81	20.47	20.47	21.0	0.0
20	PR4-QPSK	56	5	20.37	20.40	20.40	20.40	21.0	0.0
20	PR4-QPSK	56	28	20.43	20.47	20.39	20.39	21.0	0.0
20	PR4-QPSK	56	56	20.47	20.48	20.38	20.38	21.0	0.0
20	PR4-QPSK	100	6	20.40	20.40	20.40	20.40	21.0	0.0
20	QPSK	1	1	20.53	20.68	20.60	20.60	21.0	0.0
20	QPSK	1	104	20.48	20.54	20.47	20.47	21.0	0.0
20	QPSK	56	3	20.44	20.54	20.47	20.47	20.0	1.0
20	QPSK	56	28	20.45	20.50	20.49	20.49	21.0	0.0
20	QPSK	56	56	20.49	20.52	20.49	20.49	20.0	1.0
20	QPSK	100	2	20.44	20.47	20.40	20.40	20.0	0.0
20	16QAM	1	1	20.30	20.85	20.54	20.54	21.0	0.0
20	16QAM	1	1	20.46	20.46	20.46	20.46	21.0	0.0
20	256QAM	1	1	19.05	19.80	19.60	19.60	20.0	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.14	20.48	20.40	20.40	21.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.32	20.05	20.48	20.48	21.0	0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	20.31	20.05	20.40	20.40	21.0	0.0

n7 NSA DSI 3/4/5									
Set (MHz)	Modulation	RB Size	RB Offset	Power Ch. 1 (Freq.)	Power Ch. 2 (Freq.)	Power Range Ch. 1 (Freq.)	Power Range Ch. 2 (Freq.)	Transp. Bw (MHz)	MTSI (dB)
Channel									
Frequency (MHz)									
20	PR4-QPSK	1	1	19.14	19.12	19.40	19.40	20.0	0.0
20	PR4-QPSK	1	53	19.30	19.87	19.47	19.47	20.0	0.0
20	PR4-QPSK	1	104	19.49	19.81	19.48	19.48	20.0	0.0
20	PR4-QPSK	56	5	19.23	19.30	19.29	19.29	20.0	0.0
20	PR4-QPSK	56	28	19.39	19.47	19.39	19.39	20.0	0.0
20	PR4-QPSK	56	56	19.41	19.42	19.38	19.38	20.0	0.0
20	PR4-QPSK	100	6	19.35	19.40	19.35	19.35	20.0	0.0
20	QPSK	1	1	19.52	19.72	19.60	19.60	20.0	0.0
20	QPSK	1	104	19.47	19.48	19.44	19.44	20.0	0.0
20	QPSK	56	3	19.38	19.48	19.46	19.46	20.0	1.0
20	QPSK	56	28	19.40	19.50	19.40	19.40	20.0	0.0
20	QPSK	56	56	19.39	19.46	19.40	19.40	19.0	1.0
20	QPSK	100	2	19.44	19.47	19.40	19.40	20.0	0.0
20	16QAM	1	1	19.30	19.85	19.54	19.54	21.0	0.0
20	16QAM	1	1	19.43	19.80	19.60	19.60	20.0	0.0
20	256QAM	1	1	19.05	19.40	19.40	19.40	20.0	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.46	19.44	19.40	19.40	20.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.30	19.46	19.40	19.40	20.0	0.0
Channel									
Frequency (MHz)									
5	QPSK	1	1	19.40	19.44	19.37	19.37	20.0	0.0

n41_FCC SA DSI 1/5									
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				50902	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	20.95	20.95	20.88			
100	PI2 BPSK	1	137	20.97	20.98	20.96	21.5	0.0	
100	PI2 BPSK	1	271	20.91	20.96	20.91			
100	PI2 BPSK	135	0	20.88	20.91	20.83			
100	PI2 BPSK	135	69	20.86	20.93	20.84	21.5	0.0	
100	PI2 BPSK	135	138	20.87	20.87	20.84			
100	PI2 BPSK	270	0	20.88	20.94	20.85	21.5	0.0	
100	QPSK	1	1	20.96	21.12	20.95			
100	QPSK	1	137	21.01	21.05	21.00	21.5	0.0	
100	QPSK	1	271	20.95	21.01	20.94			
100	QPSK	135	0	20.90	20.97	20.88			
100	QPSK	135	69	20.89	20.90	20.86	21.5	0.0	
100	QPSK	135	138	20.89	20.89	20.84			
100	QPSK	270	0	21.01	21.03	20.99	21.5	0.0	
100	16QAM	1	1	20.76	20.86	21.01	21.5	0.0	
100	64QAM	1	1	21.03	21.01	21.08	21.5	0.0	
100	256QAM	1	1	20.38	20.45	20.38	21.0	0.5	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	20.82	20.93	20.81	21.5	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	20.87	20.93	20.79	21.5	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	20.92	20.93	20.81	21.5	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	20.91	20.85	20.79	21.5	0.0	

n41_FCC SA DSI 3/4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50902	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	21.71	21.80	21.77			
100	PI2 BPSK	1	137	21.79	21.83	21.78	22.5	0.0	
100	PI2 BPSK	1	271	21.80	21.81	21.74			
100	PI2 BPSK	135	0	21.66	21.76	21.69			
100	PI2 BPSK	135	69	21.76	21.78	21.72	22.5	0.0	
100	PI2 BPSK	135	138	21.64	21.72	21.65			
100	PI2 BPSK	270	0	21.77	21.79	21.71	22.5	0.0	
100	QPSK	1	1	21.89	22.11	21.91			
100	QPSK	1	137	21.90	21.95	21.89	22.5	0.0	
100	QPSK	1	271	21.77	21.86	21.76			
100	QPSK	135	0	21.78	21.82	21.80			
100	QPSK	135	69	21.76	21.92	21.75	22.5	0.0	
100	QPSK	135	138	21.67	21.74	21.71			
100	QPSK	270	0	21.85	21.88	21.80	22.5	0.0	
100	16QAM	1	1	22.04	22.03	22.01	22.5	0.0	
100	64QAM	1	1	22.02	22.03	21.95	22.5	0.0	
100	256QAM	1	1	21.25	21.30	21.28	22.0	1.5	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	21.64	21.75	21.73	22.5	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	21.64	21.72	21.71	22.5	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	21.62	21.72	21.75	22.5	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.66	21.76	21.72	22.5	0.0	

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n41 SA Full Power / DSI 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	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	24.23	24.27	24.17	25.0	0.0
100	PI/2 BPSK	1	137	24.14	24.21	24.06		
100	PI/2 BPSK	1	271	24.18	24.22	24.20		
100	PI/2 BPSK	135	0	23.71	23.74	23.63	25.0	0.0
100	PI/2 BPSK	135	69	24.15	24.14	24.10		
100	PI/2 BPSK	135	138	23.54	23.65	23.62		
100	PI/2 BPSK	270	0	23.73	23.70	23.64	24.5	0.5
100	QPSK	1	1	24.21	24.46	24.29	25.0	0.0
100	QPSK	1	137	24.26	24.24	24.09		
100	QPSK	1	271	24.42	24.45	24.40		
100	QPSK	135	0	23.29	23.25	23.19	25.0	0.0
100	QPSK	135	69	24.08	24.22	24.15		
100	QPSK	135	138	23.20	23.22	23.17		
100	QPSK	270	0	23.08	23.21	23.07	24.0	1.0
100	16QAM	1	1	23.38	23.53	23.57	24.0	1.0
100	64QAM	1	1	22.01	22.11	21.99	22.5	2.5
100	256QAM	1	1	19.69	19.85	19.88	20.5	4.5
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	24.12	24.25	24.11	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	24.26	24.13	24.12	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	24.02	24.20	23.93	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	24.11	24.23	24.04	25.0	0.0

n41 SA DSI 3/4/5								
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				509202	518598	528000	21.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	20.39	20.41	20.31	21.0	0.0
100	PI/2 BPSK	1	137	20.33	20.36	20.35		
100	PI/2 BPSK	1	271	20.27	20.35	20.33		
100	PI/2 BPSK	135	0	20.22	20.27	20.18	21.0	0.0
100	PI/2 BPSK	135	69	20.23	20.30	20.28		
100	PI/2 BPSK	135	138	20.35	20.42	20.41		
100	PI/2 BPSK	270	0	20.28	20.37	20.32	21.0	0.0
100	QPSK	1	1	20.43	20.56	20.52	21.0	0.0
100	QPSK	1	137	20.40	20.44	20.34		
100	QPSK	1	271	20.38	20.39	20.35		
100	QPSK	135	0	20.34	20.29	20.43	21.0	0.0
100	QPSK	135	69	20.37	20.45	20.33		
100	QPSK	135	138	20.23	20.30	20.30		
100	QPSK	270	0	20.34	20.35	20.30	21.0	0.0
100	16QAM	1	1	20.41	20.47	20.38	21.0	0.0
100	64QAM	1	1	20.23	20.26	20.26	21.0	0.0
100	256QAM	1	1	19.59	19.63	19.53	20.5	0.5
Channel				507204	518598	529998	21.0	0.0
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	20.32	20.40	20.22	21.0	0.0
Channel				505200	518598	531996	21.0	0.0
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	20.35	20.37	20.28	21.0	0.0
Channel				503202	518598	534000	21.0	0.0
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	20.33	20.38	20.28	21.0	0.0
Channel				501204	518598	535998	21.0	0.0
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	20.37	20.33	20.26	21.0	0.0



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n5 NSA Full Power / DSI 1/3/4/5								
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				165600	167300	169000	25.5	0.0
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	24.80	24.97	24.82		
20	PI2 BPSK	1	53	24.81	24.90	24.74		
20	PI2 BPSK	1	104	24.59	24.75	24.54	25.0	0.5
20	PI2 BPSK	50	0	24.39	24.47	24.39		
20	PI2 BPSK	50	28	24.68	24.84	24.42		
20	PI2 BPSK	50	56	24.27	24.38	23.95		
20	PI2 BPSK	100	0	20.77	21.09	20.75	25.0	0.5
20	QPSK	1	1	24.73	24.99	24.85		
20	QPSK	1	53	24.73	24.93	24.83		
20	QPSK	1	104	24.35	24.44	24.15		
20	QPSK	50	0	23.35	24.16	23.86	24.5	1.0
20	QPSK	50	28	24.60	24.92	24.73		
20	QPSK	50	56	23.70	24.01	23.79		
20	QPSK	100	0	24.05	24.42	24.03		
20	16QAM	1	1	24.12	24.24	23.83	24.5	1.0
20	64QAM	1	1	22.49	22.72	22.42		
20	256QAM	1	1	21.04	21.15	20.76		
Channel				165300	167300	169300		
Frequency (MHz)				831.5	836.5	841.5	25.5	0.0
15	QPSK	1	1	24.78	24.84	24.88		
Channel				165900	167300	168900		
Frequency (MHz)				839	836.5	844		
10	QPSK	1	1	24.73	24.90	24.75	25.5	0.0
Channel				165300	167300	169300		
Frequency (MHz)				834.5	836.5	846.5		
5	QPSK	1	1	24.53	24.70	24.49		

n7 SA Full Power / DSI 1/4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				50000	50700	51000	24.0	0.0
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	23.59	23.71	23.64		
20	PI2 BPSK	1	53	23.67	23.77	23.67		
20	PI2 BPSK	1	104	23.60	23.68	23.60	23.5	0.5
20	PI2 BPSK	50	0	23.09	23.16	23.05		
20	PI2 BPSK	50	28	23.85	23.76	23.69		
20	PI2 BPSK	50	56	23.09	23.15	23.09		
20	PI2 BPSK	100	0	23.11	23.22	23.10	24.0	0.0
20	QPSK	1	1	23.71	23.78	23.75		
20	QPSK	1	53	23.55	23.66	23.56		
20	QPSK	1	104	23.65	23.70	23.62		
20	QPSK	50	0	21.50	21.90	21.65	23.0	1.0
20	QPSK	50	28	23.32	23.42	23.31		
20	QPSK	50	56	22.92	22.97	22.45		
20	QPSK	100	0	22.31	22.37	22.30		
20	16QAM	1	1	22.29	22.38	22.34	23.0	1.0
20	64QAM	1	1	21.25	21.30	21.21		
20	256QAM	1	1	19.43	19.54	19.48		
Channel				501500	507000	512500		
Frequency (MHz)				2507.5	2535	2562.5	24.0	0.0
15	QPSK	1	1	23.50	23.65	23.52		
Channel				507000	507000	513000		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.57	23.67	23.58	24.0	0.0
Channel				500500	507000	513500		
Frequency (MHz)				2492.5	2535	2577.5		
5	QPSK	1	1	23.54	23.63	23.50		

n7 NSA Full Power / DSI 1/4								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				50000	50700	51200	24.0	0.0
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	23.29	23.37	23.28		
20	PI2 BPSK	1	53	23.47	23.56	23.49		
20	PI2 BPSK	1	104	23.43	23.51	23.43	23.5	0.5
20	PI2 BPSK	50	0	22.97	23.06	23.04		
20	PI2 BPSK	50	28	23.53	23.55	23.47		
20	PI2 BPSK	50	56	22.90	23.96	22.88		
20	PI2 BPSK	100	0	22.91	22.99	22.93	24.0	0.0
20	QPSK	1	1	23.63	23.68	23.65		
20	QPSK	1	53	23.57	23.66	23.56		
20	QPSK	1	104	23.55	23.65	23.61		
20	QPSK	50	0	22.48	22.51	22.50	23.0	1.0
20	QPSK	50	28	23.49	23.50	23.43		
20	QPSK	50	56	22.47	22.48	22.47		
20	QPSK	100	0	22.43	22.46	22.43		
20	16QAM	1	1	22.85	22.74	22.73	23.0	1.0
20	64QAM	1	1	21.53	21.57	21.54		
20	256QAM	1	1	19.42	19.31	19.22		
Channel				501500	507000	512500		
Frequency (MHz)				2507.5	2535	2562.5	24.0	0.0
15	QPSK	1	1	23.57	23.59	23.65		
Channel				507000	507000	513000		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.53	23.65	23.60	24.0	0.0
Channel				500500	507000	513500		
Frequency (MHz)				2492.5	2535	2577.5		
5	QPSK	1	1	23.59	23.67	23.57		

n7 SA DSI 3/5								
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	21.0	0.0
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	20.68	20.72	20.70	21.0	0.0
20	PI/2 BPSK	1	53	20.68	20.72	20.67		
20	PI/2 BPSK	1	104	20.66	20.71	20.66		
20	PI/2 BPSK	50	0	20.70	20.72	20.68	21.0	0.0
20	PI/2 BPSK	50	28	20.58	20.60	20.60	21.0	0.0
20	PI/2 BPSK	50	56	20.66	20.73	20.67	21.0	0.0
20	PI/2 BPSK	100	0	20.71	20.75	20.69		
20	QPSK	1	1	20.90	20.96	20.85	21.0	0.0
20	QPSK	1	53	20.82	20.88	20.81		
20	QPSK	1	104	20.83	20.89	20.80		
20	QPSK	50	0	20.92	20.94	20.89	20.0	1.0
20	QPSK	50	28	20.75	20.93	20.76	21.0	0.0
20	QPSK	50	56	20.69	20.74	20.70	20.0	1.0
20	QPSK	100	0	20.71	20.77	20.69		
20	16QAM	1	1	20.40	20.46	20.37	21.0	0.0
20	64QAM	1	1	20.73	20.81	20.76	21.0	0.0
20	256QAM	1	1	19.68	19.69	19.68	19.5	1.5
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5	21.0	0.0
15	QPSK	1	1	20.68	20.67	20.62		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565	21.0	0.0
10	QPSK	1	1	20.63	20.64	20.62		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5	21.0	0.0
5	QPSK	1	1	20.65	20.70	20.63		

n7 NSA DSI 3/5								
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	21.0	0.0
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	20.71	20.75	20.74	21.0	0.0
20	PI/2 BPSK	1	53	20.75	20.76	20.66		
20	PI/2 BPSK	1	104	20.74	20.75	20.75		
20	PI/2 BPSK	50	0	20.56	20.62	20.59	21.0	0.0
20	PI/2 BPSK	50	28	20.57	20.65	20.60	21.0	0.0
20	PI/2 BPSK	50	56	20.60	20.63	20.54	21.0	0.0
20	PI/2 BPSK	100	0	20.58	20.66	20.64		
20	QPSK	1	1	20.73	20.81	20.62	21.0	0.0
20	QPSK	1	53	20.55	20.63	20.58		
20	QPSK	1	104	20.64	20.68	20.67		
20	QPSK	50	0	20.68	20.73	20.46	20.0	1.0
20	QPSK	50	28	20.71	20.74	20.68	21.0	0.0
20	QPSK	50	56	20.56	20.61	20.55	20.0	1.0
20	QPSK	100	0	20.65	20.69	20.61		
20	16QAM	1	1	20.56	20.64	20.63	21.0	0.0
20	64QAM	1	1	20.72	20.75	20.80	21.0	0.0
20	256QAM	1	1	18.98	19.05	18.99	19.5	1.5
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5	21.0	0.0
15	QPSK	1	1	20.67	20.67	20.73		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565	21.0	0.0
10	QPSK	1	1	20.66	20.74	20.73		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5	21.0	0.0
5	QPSK	1	1	20.63	20.73	20.70		

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n77 SA Full Power / DSI 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				650000	656000	662000	25.7	0.0	
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	24.05	24.11	24.04	25.7	0.0	
100	PI/2 BPSK	1	137	23.99	24.13	24.01			
100	PI/2 BPSK	1	271	23.94	24.10	24.02			
100	PI/2 BPSK	135	0	24.01	24.11	23.84	25.7	0.0	
100	PI/2 BPSK	135	69	23.99	24.05	23.78			
100	PI/2 BPSK	135	138	23.96	24.14	24.07			
100	PI/2 BPSK	270	0	23.90	24.04	23.76	25.2	0.5	
100	QPSK	1	1	24.13	24.30	24.07	25.7	0.0	
100	QPSK	1	137	24.09	24.29	24.14			
100	QPSK	1	271	24.00	24.13	23.86			
100	QPSK	135	0	24.04	23.91	23.95	25.7	0.0	
100	QPSK	135	69	23.93	24.21	23.81			
100	QPSK	135	138	24.11	24.19	23.97			
100	QPSK	270	0	24.09	24.29	24.04	24.7	1.0	
100	16QAM	1	1	23.97	24.04	23.82	24.7	1.0	
100	64QAM	1	1	23.04	23.11	22.85	23.2	2.5	
100	256QAM	1	1	20.77	20.91	20.81	21.2	4.5	

HPUE n77 SA Full Power / DSI 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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	25.53	25.59	25.33	27.0		0.0
100	PI/2 BPSK	1	137	25.45	25.57	25.38			
100	PI/2 BPSK	1	271	25.49	25.62	25.37			
100	PI/2 BPSK	135	0	24.98	25.03	24.98	26.5		0.0
100	PI/2 BPSK	135	69	25.47	25.55	25.40	27.0		
100	PI/2 BPSK	135	138	24.94	25.02	24.86	26.5		
100	PI/2 BPSK	270	0	25.01	25.11	24.91	26.5		0.5
100	QPSK	1	1	25.63	25.76	25.54	27.0		0.0
100	QPSK	1	137	25.65	25.74	25.62			
100	QPSK	1	271	25.53	25.71	25.58			
100	QPSK	135	0	24.61	24.47	24.49	26.0		0.0
100	QPSK	135	69	25.53	25.59	25.39	27.0		
100	QPSK	135	138	24.61	24.78	24.72	26.0		
100	QPSK	270	0	24.70	24.83	24.72	26.0		1.0
100	16QAM	1	1	24.89	25.05	24.85	26.0		1.0
100	64QAM	1	1	22.82	22.98	22.85	24.5		2.5
100	256QAM	1	1	21.18	21.32	21.12	22.5		4.5

PC2/3 n77 SA DSI 3/4/5								
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)				3750	3840	3930		
100	PI/2 BPSK	1	1	18.64	18.74	18.64	20.0	0.0
100	PI/2 BPSK	1	137	18.54	18.58	18.48		
100	PI/2 BPSK	1	271	18.52	18.62	18.60		
100	PI/2 BPSK	135	0	18.51	18.54	18.48	20.0	0.0
100	PI/2 BPSK	135	69	18.48	18.48	18.40	20.0	
100	PI/2 BPSK	135	138	18.40	18.46	18.45	20.0	
100	PI/2 BPSK	270	0	18.49	18.55	18.52	20.0	0.0
100	QPSK	1	1	18.68	18.90	18.62	20.0	0.0
100	QPSK	1	137	18.60	18.64	18.60		
100	QPSK	1	271	18.62	18.65	18.61		
100	QPSK	135	0	18.39	18.57	18.73	20.0	0.0
100	QPSK	135	69	18.61	18.76	18.63	20.0	
100	QPSK	135	138	18.37	18.47	18.43	20.0	
100	QPSK	270	0	18.54	18.58	18.48	20.0	0.0
100	16QAM	1	1	18.73	18.73	18.64	20.0	0.0
100	64QAM	1	1	18.53	18.62	18.62	20.0	0.0
100	256QAM	1	1	18.74	18.75	18.71	20.0	0.0
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	18.25	18.36	18.27	20.0	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	18.28	18.44	18.28	20.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	18.26	18.38	18.33	20.0	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	18.28	18.41	18.29	20.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	18.26	18.38	18.27	20.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	18.34	18.43	18.30	20.0	0.0



Full Power/Body Worn/Handheld						
Art 7-11						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Duty Cycle %	
2.4GHz WLAN	802.11b-1Mbps	1	2412	23.01	23.30	100.00
		6	2437	21.91	23.30	
		11	2462	21.86	23.30	
	802.11g-6Mbps	1	2412	21.91	22.50	99.29
		6	2437	20.91	22.50	
		11	2462	20.91	22.50	
	802.11n-HT20 MCS0	1	2412	20.86	22.50	99.20
		6	2437	20.76	22.50	
		11	2462	20.71	22.50	
	802.11n-HT40 MCS0	3	2422	20.96	20.50	99.20
		6	2437	19.91	20.50	
		9	2452	20.06	20.50	
802.11ax-HE20 MCS0	1	2412	20.96	22.50	100.00	
		6	2437	20.86		
		11	2462	20.81		
		1	2412	20.16	21.50	
802.11ax-HE40 MCS0	6	2437	20.31	21.50	100.00	
		11	2462	20.16	21.50	

Art 6-11						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Duty Cycle %	
2.4GHz WLAN	802.11a-6Mbps	36	5180	21.17	22.50	99.05
		40	5200	21.87	22.50	
		44	5220	21.97	23.30	
	802.11n-HT20 MCS0	48	5240	21.06	23.50	100.00
		36	5180	20.47	22.50	
		40	5200	20.87	22.50	
	802.11n-HT40 MCS0	44	5220	20.97	22.50	99.20
		48	5240	20.96	22.50	
		38	5190	19.72	21.00	
	802.11ac-VHT20 MCS0	46	5230	20.81	21.50	99.20
		36	5180	20.47	22.50	
		40	5200	20.83	22.50	
5.2GHz WLAN	802.11ac-VHT20 MCS0	44	5220	20.97	22.50	99.20
		48	5240	20.96	22.50	
		38	5190	19.72	21.00	
	802.11ac-VHT40 MCS0	46	5230	20.81	21.50	99.20
		36	5180	20.47	22.50	
		40	5200	20.83	22.50	
	802.11ax-HE20 MCS0	44	5220	20.97	22.50	100.00
		48	5240	20.96	22.50	
		38	5190	19.72	21.00	
	802.11ax-HE40 MCS0	42	5210	19.31	20.50	100.00
		36	5180	20.47	22.00	
		40	5200	20.86	22.00	
802.11ax-HE80 MCS0	44	5220	21.07	22.50	100.00	
		48	5240	21.06		
		38	5190	19.82		
		44	5220	20.41	21.50	
	46	5230	20.81	21.50	100.00	
		36	5180	20.47		
		40	5200	20.83		
		44	5220	20.97		
	42	5210	19.31	20.50	100.00	
		36	5180	20.47		
		40	5200	20.86		
		44	5220	21.07		

Art 6-11						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Duty Cycle %	
5.2GHz WLAN	802.11a-6Mbps	52	5260	21.91	23.30	99.05
		56	5280	21.78	23.30	
		60	5300	21.81	23.50	
	802.11n-HT20 MCS0	54	5250	20.81	22.50	100.00
		58	5280	20.73	22.50	
		60	5300	20.71	22.50	
	802.11n-HT40 MCS0	64	5320	20.81	22.50	99.20
		54	5270	20.11	21.50	
		62	5310	19.71	21.00	
	802.11ac-VHT20 MCS0	52	5260	20.81	22.50	99.20
		56	5280	20.70	22.50	
		60	5300	20.71	22.50	
5.8GHz WLAN	802.11ac-VHT40 MCS0	54	5320	20.81	22.50	99.20
		58	5350	20.81	22.50	
		64	5380	20.81	22.50	
	802.11ax-HE20 MCS0	54	5320	20.81	22.50	100.00
		58	5350	20.81	22.50	
		64	5380	20.81	22.50	
	802.11ax-HE40 MCS0	54	5320	20.31	21.50	100.00
		58	5350	19.81	21.00	
		62	5370	19.81	21.00	
	802.11ax-HE80 MCS0	56	5360	19.16	20.50	100.00
		52	5290	19.16	20.50	
		58	5300	19.16	20.50	

Art 6-11						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Duty Cycle %	
5.8GHz WLAN	802.11a-6Mbps	100	5500	21.71	23.30	99.05
		116	5580	21.86	23.50	
		124	5620	21.84	23.50	
	802.11n-HT20 MCS0	132	5660	21.06	23.00	100.00
		140	5700	21.86	23.00	
		100	5500	21.06	22.50	
	802.11n-HT40 MCS0	116	5580	20.96	22.50	99.20
		124	5620	20.86	22.50	
		132	5660	20.86	22.50	
	802.11ac-VHT20 MCS0	140	5700	21.01	22.50	99.20
		102	5510	20.41	21.50	
802.11ax-HE20 MCS0	110	5550	20.51	21.50	100.00	
		126	5630	20.34	21.50	
		134	5670	20.42	21.50	
		100	5500	21.06	22.50	
	116	5580	20.96	22.50	99.20	
		124	5620	20.82	22.50	
		132	5660	20.86	22.50	
		140	5700	21.01	22.50	
	102	5510	20.41	21.50	99.20	
		110	5550	20.51	21.50	
		126	5630	20.34	21.50	
		134	5670	20.42	21.50	
802.11ax-HE40 MCS0	100	5500	21.06	22.50	100.00	
		116	5580	20.96	22.50	
		124	5620	20.82	22.50	
		132	5660	20.86	22.50	
	140	5700	21.01	22.50	99.20	
		102	5510	20.41	21.50	
		110	5550	20.51	21.50	
		126	5630	20.34	21.50	
	102	5510	20.41	21.50	99.20	
		110	5550	20.51	21.50	
		126	5630	20.34	21.50	
		134	5670	20.42	21.50	
802.11ax-HE80 MCS0	100	5500	21.06	22.50	100.00	
		116	5580	21.06	22.50	
		124	5620	20.99	22.50	
		132	5660	21.03	22.50	
	140	5700	21.11	22.50	100.00	
		102	5510	20.51	21.50	
		110	5550	20.61	21.50	
		126	5630	20.48	21.50	
	106	5530	19.46	20.50	100.00	
		122	5610	19.46	20.50	
		100	5500	21.16	22.50	
		116	5580	21.06	22.50	

Art 6-11						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Duty Cycle %	
5.8GHz WLAN	802.11a-6Mbps	140	5745	22.41	23.50	99.05
		157	5785	22.47	23.50	
		165	5825	22.46	23.50	
	802.11n-HT20 MCS0	140	5745	22.21	23.50	100.00
		157	5785	22.21	23.50	
		165	5825	22.26	23.50	
	802.11n-HT40 MCS0	151	5765	20.56	21.50	99.20
		159	5785	20.76	21.50	
		149	5745	21.36	22.50	
	802.11ac-VHT40 MCS0	157	5785	21.41	22.50	99.20
		165	5825	21.48	22.50	
		151	5765	20.56	21.50	
802.11ax-HE20 MCS0	159	5795	20.76	21.50	99.20	
		149	5745	21.46	22.50	
		157	5785	21.51	22.50	
		165	5825	21.56	22.50	
	151	5765	20.66	21.50	100.00	
		159	5785	20.86	21.50	
		149	5745	21.46	22.50	
		157	5785	21.51	22.50	
	155	5775	19.61	20.50	100.00	
		165	5825	19.61	20.50	
		151	5765	20.56	21.50	
		159	5785	20.76	21.50	

Art 6-11						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Duty Cycle %	
5.8GHz WLAN	802.11a-6Mbps	149	5745	20.35	21.50	99.05
		157	5785	2		



BR/EDR		Ant 11	Full Power/HeadBody Worst/Handheld			
Mode	Channel	Frequency (MHz)	Average power (dBm)			
			1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	18.63	18.80	18.61	
	CH 39	2441	18.79	18.77	18.84	
	CH 78	2480	18.83	17.03	17.12	
	Tune-up Limit		19.80	17.90	17.90	

BR/EDR		Ant 11	Receiver On Simultaneous transmission			
Mode	Channel	Frequency (MHz)	Average power (dBm)			
			1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	10.17	Not Required		
	CH 39	2441	10.40			
	CH 78	2480	10.97			
	Tune-up Limit		12.00	12.00	12.00	

BR/EDR		Ant 11	Hotspot On			
Mode	Channel	Frequency (MHz)	Average power (dBm)			
			1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	12.72	Not Required		
	CH 39	2441	12.82			
	CH 78	2480	13.12			
	Tune-up Limit		13.50	13.50	13.50	

BLE		Ant 11	Average power (dBm)	
Mode	Channel	Frequency (MHz)	GFSK	
			1Mbps	2Mbps
LE	CH 00	2402	7.80	
	CH 19	2440	8.08	
	CH 39	2480	8.70	
	Tune-up Limit		10	

BLE5.0		Ant 11	Average power (dBm)	
Mode	Channel	Frequency (MHz)	1Mbps	
			8.00	
LE	CH 19	2440	8.30	
	CH 39	2480	9.00	
	Tune-up Limit		10	

BR/EDR		Ant 7	Full Power/HeadBody Worst/Handheld			
Mode	Channel	Frequency (MHz)	Average power (dBm)			
			1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	16.93	14.40	14.38	
	CH 39	2441	17.76	15.18	15.22	
	CH 78	2480	18.31	15.94	15.98	
	Tune-up Limit		18.5	16.5	16.5	

BR/EDR		Ant 7	Receiver On Simultaneous transmission			
Mode	Channel	Frequency (MHz)	Average power (dBm)			
			1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	10.08	Not Required		
	CH 39	2441	10.21			
	CH 78	2480	10.92			
	Tune-up Limit		12	12	12	

BR/EDR		Ant 7	Hotspot On			
Mode	Channel	Frequency (MHz)	Average power (dBm)			
			1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	16.93	14.40	14.38	
	CH 39	2441	17.76	15.18	15.22	
	CH 78	2480	18.31	15.94	15.98	
	Tune-up Limit		18.5	16.5	16.5	

BLE		Ant 7	Average power (dBm)	
Mode	Channel	Frequency (MHz)	GFSK	
			1Mbps	2Mbps
LE	CH 00	2402	6.3	
	CH 19	2440	7	
	CH 39	2480	8.1	
	Tune-up Limit		10	

BLE5.0		Ant 7	Average power (dBm)	
Mode	Channel	Frequency (MHz)	1Mbps	
			6.40	
LE	CH 19	2440	7.30	
	CH 39	2480	8.40	
	Tune-up Limit		10	