

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3293

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth (mm) ^G	Unc (k=2)
750	41.9	0.89	6.51	6.51	6.51	0.80	1.18	± 12.0 %
835	41.5	0.90	6.43	6.43	6.43	0.78	1.16	± 12.0 %
900	41.5	0.97	6.24	6.24	6.24	0.80	1.18	± 12.0 %
1750	40.1	1.37	5.37	5.37	5.37	0.63	1.28	± 12.0 %
1900	40.0	1.40	5.14	5.14	5.14	0.50	1.44	± 12.0 %
2000	40.0	1.40	5.11	5.11	5.11	0.72	1.25	± 12.0 %
2300	39.5	1.67	4.81	4.81	4.81	0.65	1.34	± 12.0 %
2450	39.2	1.80	4.51	4.51	4.51	0.57	1.50	± 12.0 %
2600	39.0	1.96	4.38	4.38	4.38	0.80	1.23	± 12.0 %

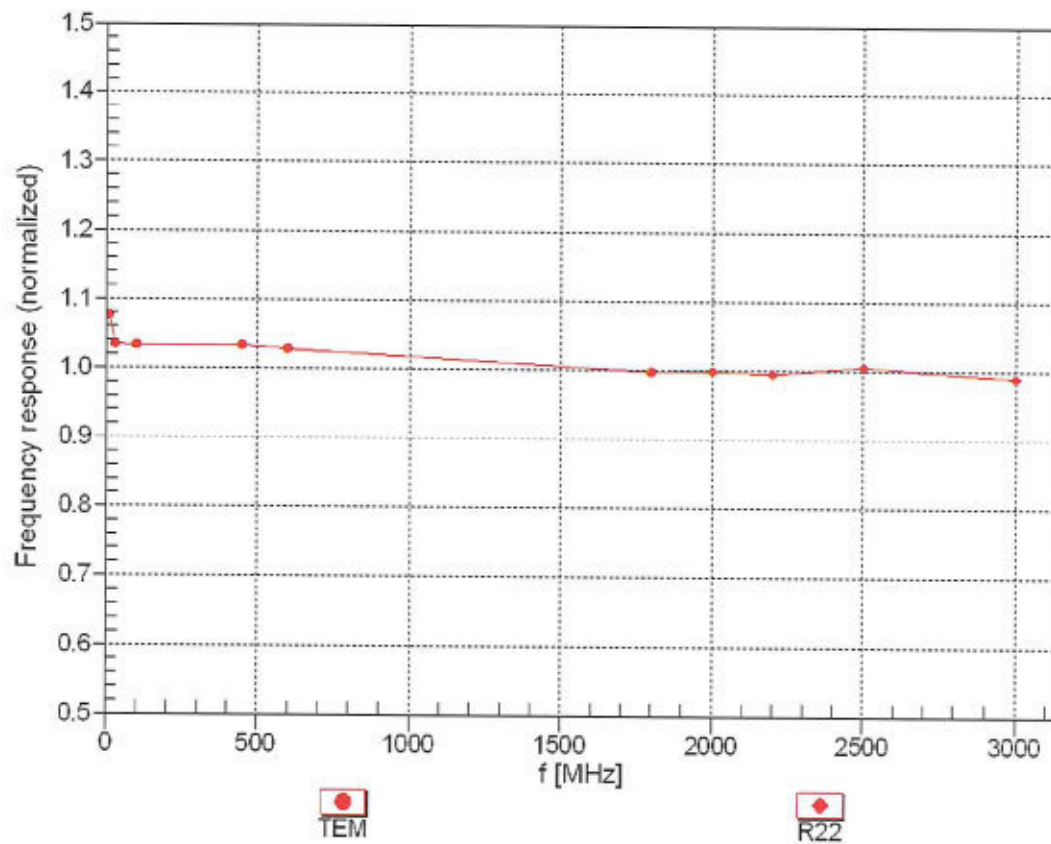
^C Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

Frequency Response of E-Field

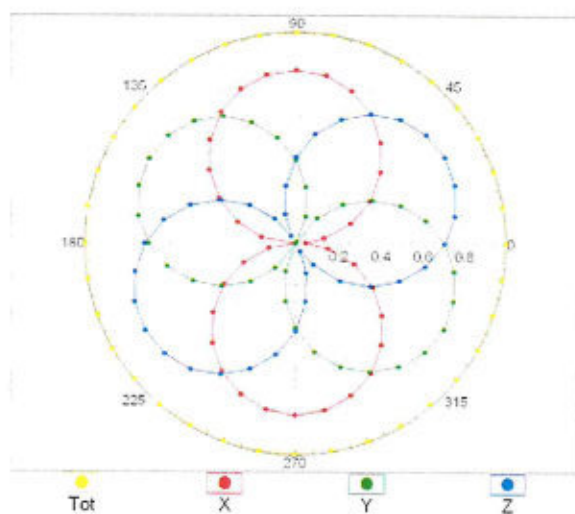
(TEM-Cell:ifi110 EXX, Waveguide: R22)



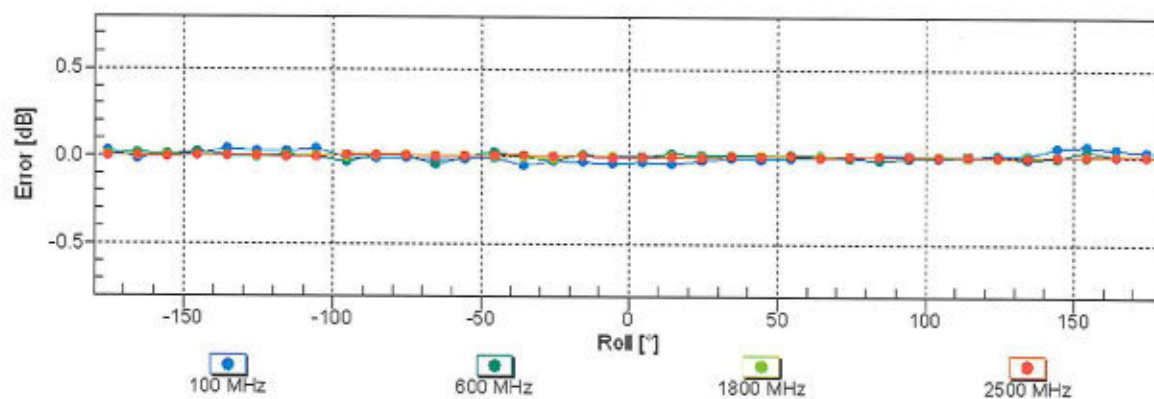
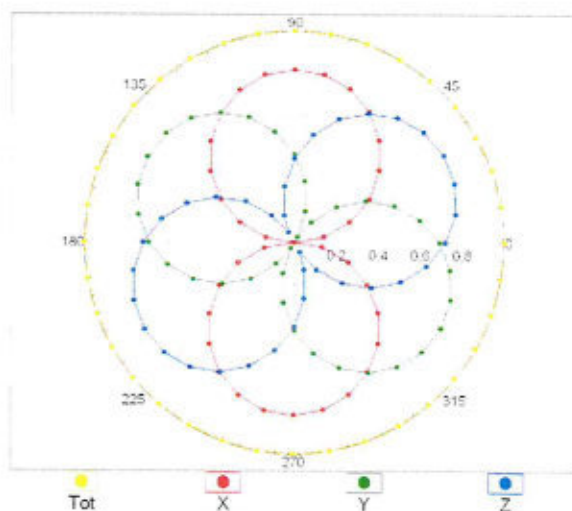
Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

Receiving Pattern (ϕ), $\vartheta = 0^\circ$

f=600 MHz,TEM

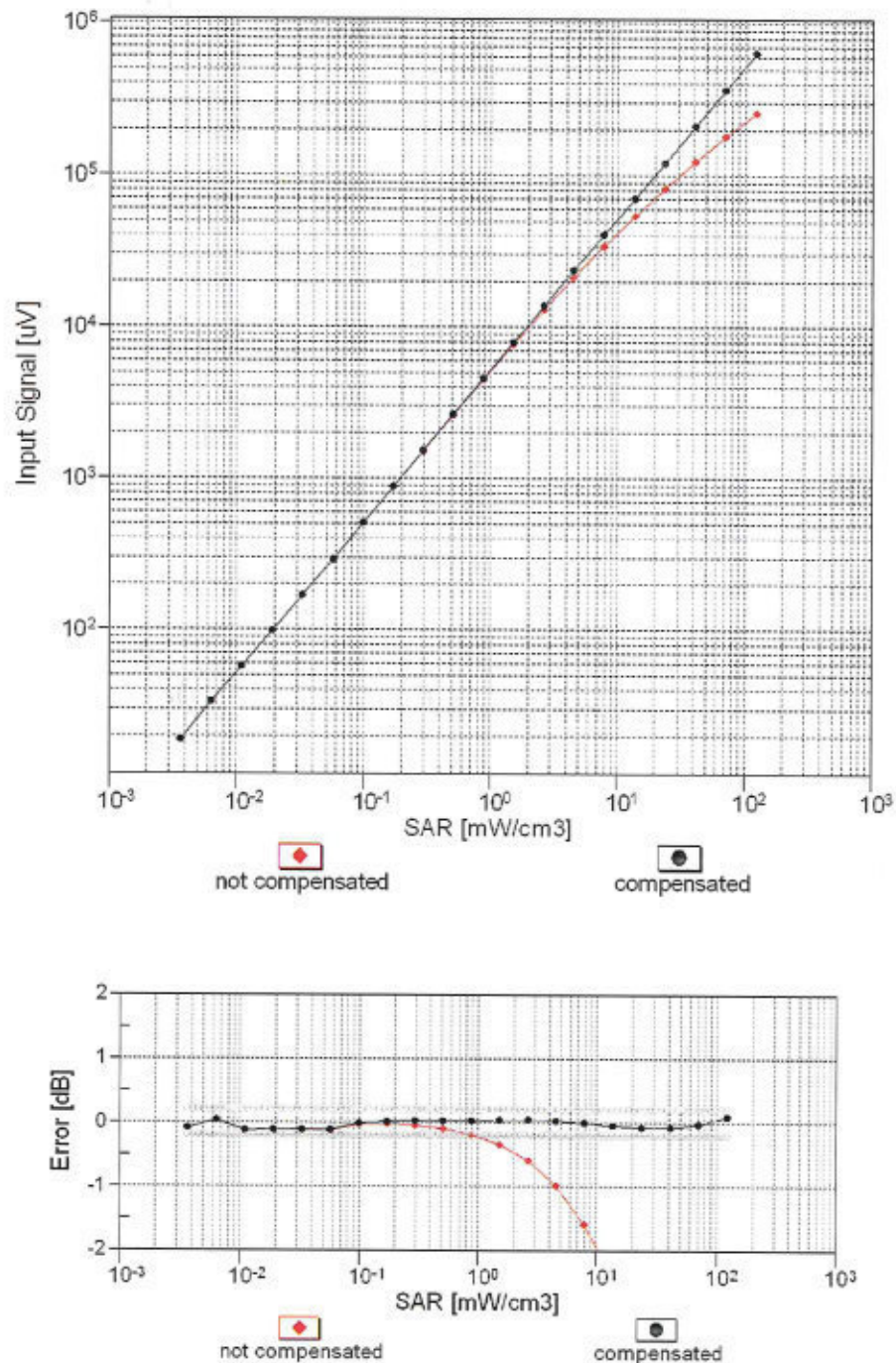


f=1800 MHz,R22



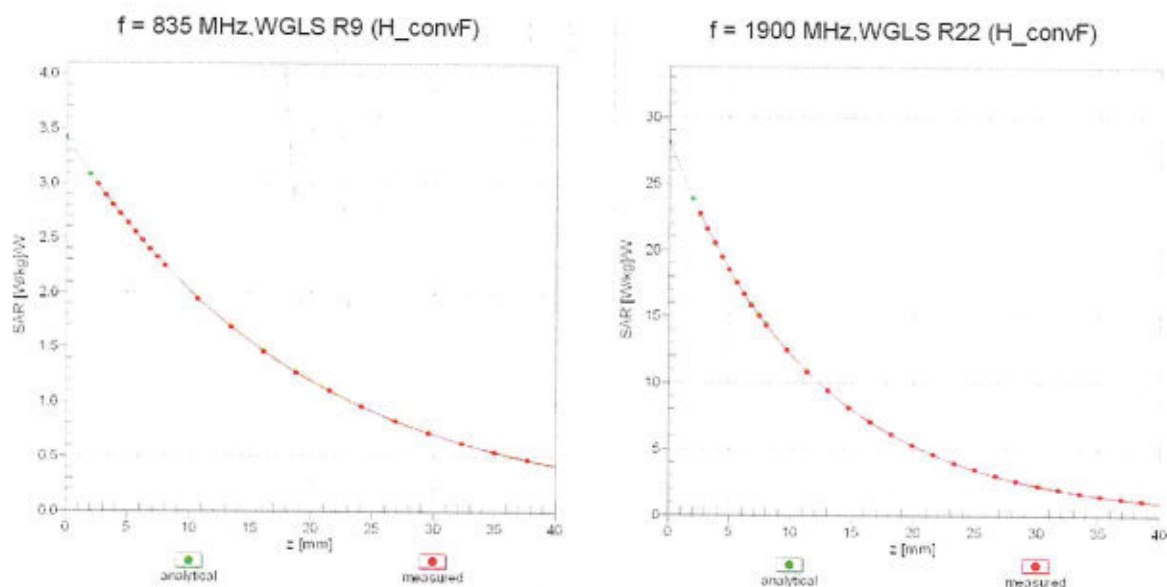
Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ (k=2)

Dynamic Range $f(\text{SAR}_{\text{head}})$ (TEM cell, $f_{\text{eval}} = 1900 \text{ MHz}$)



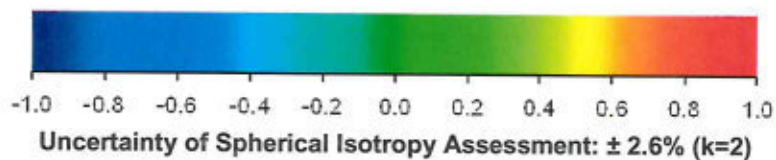
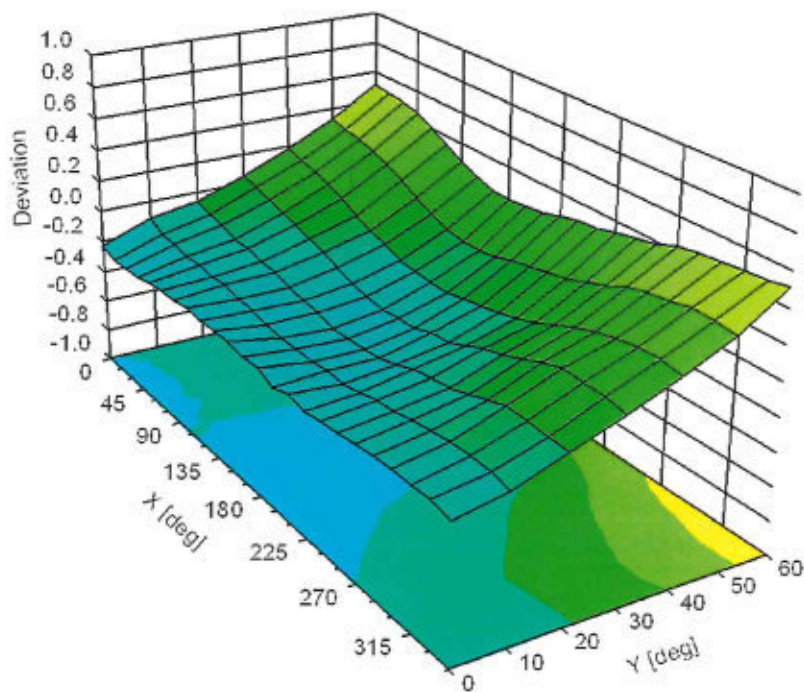
Uncertainty of Linearity Assessment: $\pm 0.6\%$ ($k=2$)

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ, θ), $f = 900 \text{ MHz}$





Appendix E. Conducted RF Output Power Table

The detailed power table are shown as follows.

Full Power for ANT1

GSM850	Burst Average Power (dBm)			Frame-Average Power (dBm)			Tune-up Limit (dBm)
	124	149	251	124	149	251	
Frequency (MHz)	854.2	836.4	848.8	854.2	836.4	848.8	
GSM 1 Tx slot	32.32	32.13	32.19	33.50	23.32	23.13	23.19
GPRS 1 Tx slot	32.34	32.12	32.17	33.50	23.34	23.12	23.17
GPRS 2 Tx slots	29.05	29.05	29.61	30.00	23.05	23.05	22.91
GPRS 3 Tx slots	27.15	27.28	27.03	28.00	22.89	23.02	22.77
GPRS 4 Tx slots	25.83	25.87	25.61	26.50	22.83	22.87	22.61
EDGE 1 Tx slot	25.99	26.21	26.00	27.50	16.99	17.21	17.00
EDGE 2 Tx slots	23.02	23.05	22.81	24.00	17.02	17.05	16.81
EDGE 3 Tx slots	21.14	21.35	21.64	22.50	16.88	17.09	17.38
EDGE 4 Tx slots	19.87	19.77	20.15	21.00	16.97	16.77	17.15

Band		WCDMA V			Tune-up Limit (dBm)
TX Channel		4182	4182	4233	
Rx Channel		4357	4407	4458	
Frequency (MHz)		824.4	832.4	848.8	
3GPP Rel 99	AMR 12.2Kbps	23.91	23.99	23.94	25.00
3GPP Rel 99	RMC 12.2Kbps	23.90	24.00	23.97	25.00
3GPP Rel 6	HSOPA Subtest-1	23.09	23.12	23.05	24.00
3GPP Rel 6	HSOPA Subtest-2	23.10	23.15	23.07	24.00
3GPP Rel 6	HSOPA Subtest-3	22.81	22.64	22.58	23.50
3GPP Rel 6	HSOPA Subtest-4	22.63	22.61	22.54	23.50
3GPP Rel 8	DC-HSOPA Subtest-1	23.16	23.12	23.01	24.00
3GPP Rel 8	DC-HSOPA Subtest-2	23.10	23.09	23.01	24.00
3GPP Rel 8	DC-HSOPA Subtest-3	22.59	22.63	22.56	23.50
3GPP Rel 8	DC-HSOPA Subtest-4	22.64	22.61	22.55	23.50
3GPP Rel 6	HSUPA Subtest-1	23.06	23.10	23.01	24.00
3GPP Rel 6	HSUPA Subtest-2	21.07	21.11	21.04	22.00
3GPP Rel 6	HSUPA Subtest-3	22.02	22.08	22.01	23.00
3GPP Rel 6	HSUPA Subtest-4	21.08	21.11	21.03	22.00
3GPP Rel 6	HSUPA Subtest-5	23.13	23.13	23.03	24.00

Band 5 (Cellular Band) Part 22B(only on channel required)										
BW (MHz)	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)							825.5	836.5	846.5	
10	QPSK	1	0	25.23	25.34	25.25				
10	QPSK	1	25	25.29	25.23	25.14	25.5	0		
10	QPSK	1	49	25.27	25.19	25.14				
10	QPSK	25	0	24.39	24.47	24.29				
10	QPSK	25	12	24.46	24.33	24.34	24.5	1		
10	QPSK	25	25	24.41	24.38	24.30				
10	QPSK	50	0	24.40	24.42	24.34				
10	16QAM	1	0	24.23	24.24	24.17				
10	16QAM	1	25	24.19	24.16	24.15	24.5	1		
10	16QAM	1	49	24.21	24.08	24.05				
10	16QAM	25	0	22.95	22.87	22.83				
10	16QAM	25	12	23.02	22.87	22.89	23.5	2		
10	16QAM	25	25	22.95	22.88	22.83				
10	16QAM	50	0	23.00	22.85	22.80				
10	64QAM	1	0	22.79	22.78	22.73				
10	64QAM	1	25	22.72	22.65	22.59	23.5	2		
10	64QAM	1	49	22.69	22.62	22.56				
10	64QAM	25	0	21.44	21.39	21.31				
10	64QAM	25	12	21.51	21.39	21.41	22.5	3		
10	64QAM	25	25	21.45	21.40	21.33				
10	64QAM	50	0	21.48	21.33	21.38				
10	256QAM	1	0	20.23	20.32	20.54				
10	256QAM	1	25	20.14	20.19	20.12	20.5	5		
10	256QAM	1	49	20.10	20.54	20.84				
10	256QAM	25	0	20.53	20.46	20.14				
10	256QAM	25	12	20.54	20.98	20.32	20.5	5		
10	256QAM	25	25	20.56	20.12	20.45				
10	256QAM	50	0	19.88	20.44	20.46				
Channel							Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)							826.5	836.5	846.5	
5	QPSK	1	0	25.27	25.22	25.17				
5	QPSK	1	12	25.24	25.20	25.09	25.5	0		
5	QPSK	1	24	25.21	25.13	25.07				
5	QPSK	12	0	24.32	24.26	24.18	24.5	1		
5	QPSK	12	12	24.34	24.26	24.23				
5	QPSK	12	13	24.29	24.23	24.14				
5	QPSK	25	0	24.33	24.21	24.13				
5	16QAM	1	0	24.18	24.11	24.03	24.5	1		
5	16QAM	1	12	24.12	24.09	24.01				
5	16QAM	1	24	24.06	24.06	23.95				
5	16QAM	12	0	22.82	22.82	22.77	23.5	2		
5	16QAM	12	13	22.86	22.79	22.69				
5	16QAM	25	0	22.88	22.78	22.71				
5	64QAM	1	0	22.57	22.53	22.43	23.5	2		
5	64QAM	1	12	22.51	22.48	22.38				
5	64QAM	1	24	22.52	22.40	22.36				
5	64QAM	12	0	21.38	21.28	21.23	22.5	3		
5	64QAM	12	7	21.38	21.33	21.26				
5	64QAM	12	13	21.33	21.27	21.21				

Band 12 (700MHz Low Band) Part 27F(only on channel required)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 25000	Power Middle Ch./Freq. 23095	Power High Ch./Freq. 23130	Tune-up limit (dBm)	MFR (dB)	
Channel									
		Frequency (MHz)		701.5	707.5	713.5			
10	QPSK	1	0	22.45	22.66	22.52			
10	QPSK	1	25	22.52	22.52	22.52	24	0	
10	QPSK	1	49	22.57	22.60	22.60			
10	QPSK	25	0	21.57	21.73	21.67			
10	QPSK	25	12	21.67	21.85	21.67	23	1	
10	QPSK	25	25	21.68	21.85	21.68			
10	QPSK	50	0	21.68	21.85	21.68			
10	16QAM	1	0	21.78	21.89	21.89			
10	16QAM	1	25	21.91	21.88	21.82	23	1	
10	16QAM	1	49	21.93	21.97	21.56			
10	16QAM	25	0	20.68	20.66	20.67			
10	16QAM	25	12	20.70	20.64	20.65	22	2	
10	16QAM	25	25	20.66	20.64	20.76			
10	16QAM	50	0	20.69	20.66	20.67			
10	64QAM	1	0	20.68	20.69	20.61			
10	64QAM	1	25	20.58	20.72	20.75	22	2	
10	64QAM	1	49	20.61	20.68	20.68			
10	64QAM	25	0	19.85	19.68	19.71			
10	64QAM	25	12	19.71	19.69	19.72	21	3	
10	64QAM	25	25	19.70	19.69	19.73			
10	64QAM	50	0	19.67	19.65	19.65			
10	256QAM	1	0	17.45	17.45	18.01			
10	256QAM	1	25	17.52	17.52	18.32	19	5	
10	256QAM	1	49	17.63	17.24	17.52			
10	256QAM	25	0	17.54	17.46	17.45			
10	256QAM	25	12	18.01	17.88	17.23	19	5	
10	256QAM	25	25	17.98	17.92	18.06			
10	256QAM	50	0	17.66	17.94	17.54			
Channel									
		Frequency (MHz)		701.5	707.5	713.5	Tune-up limit (dBm)	MFR (dB)	
5	QPSK	1	0	22.48	22.52	22.56			
5	QPSK	1	12	22.50	22.55	22.56	24	0	
5	QPSK	1	24	22.52	22.59	22.85			
5	QPSK	12	0	21.59	21.65	21.69			
5	QPSK	12	12	21.54	21.72	21.73	23	1	
5	QPSK	12	13	21.62	21.67	21.68			
5	QPSK	25	0	21.62	21.63	21.73			
5	16QAM	1	0	21.82	21.91	21.90			
5	16QAM	1	12	21.83	21.85	21.90	23	1	
5	16QAM	1	24	21.83	21.85	21.94			
5	16QAM	12	0	20.63	20.63	20.68			
5	16QAM	12	13	20.61	20.68	20.76	22	2	
5	16QAM	25	0	20.64	20.66	20.75			
5	64QAM	1	0	20.74	20.82	20.81			
5	64QAM	1	12	20.76	20.79	20.80	22	2	
5	64QAM	1	24	20.84	20.82	20.90			
5	64QAM	12	0	19.57	19.64	19.68			
5	64QAM	12	7	19.63	19.74	19.78			
5	64QAM	12	13	19.61	19.69	19.74	21	3	
5	64QAM	25	0	19.68	19.67	19.74			
5	256QAM	1	0	17.46	17.52	17.46			
5	256QAM	1	12	17.42	17.35	17.58	19	5	
5	256QAM	1	24	17.52	17.46	17.85			
5	256QAM	12	0	17.43	17.26	17.65			
5	256QAM	12	13	17.41	17.46	17.49	19	5	
5	256QAM	12	7	17.46	17.89	17.91			
5	256QAM	25	0	17.52	17.52	17.26			
Channel									
		Frequency (MHz)		701.5	707.5	713.5	Tune-up limit (dBm)	MFR (dB)	
3	QPSK	1	0	22.49	22.55	22.57			
3	QPSK	1	8	22.52	22.54	22.43	24	0	
3	QPSK	1	14	22.46	22.59	22.61			
3	QPSK	8	0	21.60	21.62	21.64			
3	QPSK	8	4	21.63	21.63	21.71	23	1	
3	QPSK	8	7	21.61	21.64	21.70			
3	QPSK	15	0	21.57	21.69	21.70			
3	16QAM	1	0	21.66	21.84	21.95			
3	16QAM	1	8	21.85	21.94	21.96	23	1	
3	16QAM	1	14	21.92	21.91	21.94			
3	16QAM	8	0	20.62	20.68	20.74			
3	16QAM	8	4	20.66	20.76	20.80	22	2	
3	16QAM	8	7	20.62	20.70	20.73			
3	16QAM	15	0	20.65	20.72	20.70			
3	64QAM	1	0	20.79	20.77	20.89			
3	64QAM	1	8	20.84	20.84	20.95	22	2	
3	64QAM	1	14	20.84	20.81	20.92			
3	64QAM	8	0	19.63	19.68	19.68			
3	64QAM	8	4	19.68	19.71	19.79	21	3	
3	64QAM	8	7	19.60	19.65	19.69			
3	64QAM	15	0	19.60	19.71	19.74			
3	256QAM	1	0	17.46	17.46	17.34			
3	256QAM	1	8	17.51	17.35	17.24	19	5	
3	256QAM	1	14	17.26	17.25	17.26			
3	256QAM	8	0	17.25	17.55	17.46			
3	256QAM	8	4	17.75	17.46	17.25	19	5	
3	256QAM	8	7	17.46	17.48	17.45			
3	256QAM	15	0	17.63	17.63	17.35			
Channel									
		Frequency (MHz)		699.7	707.5	713.3	Tune-up limit (dBm)	MFR (dB)	
1.4	QPSK	1	0	22.25	22.43	22.45			
1.4	QPSK	1	5	22.47	22.56	22.61	24	0	
1.4	QPSK	1	3	22.41	22.49	22.29			
1.4	QPSK	3	3	22.51	22.52	22.51			
1.4	QPSK	3	1	22.51	22.56	22.80			
1.4	QPSK	6	0	21.51	21.58	21.60	23	1	
1.4	16QAM	1	0	21.67	21.77	21.82			
1.4	16QAM	1	3	21.81	21.83	21.95			
1.4	16QAM	1	5	21.71	21.84	21.81	23	1	
1.4	16QAM	3	0	21.55	21.56	21.57			
1.4	16QAM	3	1	21.59	21.63	21.67			
1.4	16QAM	3	3	21.67	21.58	21.61			
1.4	16QAM	6	0	20.62	20.69	20.71	22	2	
1.4	16QAM	1	0	20.63	20.71	20.76			
1.4	16QAM	1	3	20.75	20.79	20.64			
1.4	64QAM	1	0	20.75	20.70	20.81			
1.4	64QAM	3	0	20.63	20.60	20.62	22	2	
1.4	64QAM	3	1	20.64	20.60	20.65			
1.4	64QAM	6	0	19.54	19.59	19.64	21	3	
1.4	256QAM	1	0	17.46	17.00	17.46			
1.4	256QAM	1	3	17.56	17.24	17.46			
1.4	256QAM	1	5	17.15	17.25	17.21			
1.4	256QAM	3	0	17.46	17.06	17.42	19	5	
1.4	256QAM	3	1	17.95	17.25	17.46			
1.4	256QAM	3	3	17.25	17.25	17.25			
1.4	256QAM	6	0	17.49	17.32	17.14	19	5	

Band 17 (700MHz Band) Part 27(only on channel required)									
BW	Modulation	RB Size	RB Offset	Power Low Ch./F.Freq	Power Med Ch./F.Freq	Power High Ch./F.Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				23780	23790	23800			
Frequency (MHz)				709	710	711			
10	QPSK	1	0	22.44	22.47	22.56			
10	QPSK	1	25	22.51	22.50	22.50	24	0	
10	QPSK	1	49	22.58	22.59	22.50			
10	QPSK	25	0	21.53	21.70	21.53			
10	QPSK	25	12	21.66	21.67	21.68	23	1	
10	QPSK	25	25	21.68	21.69	21.67			
10	QPSK	50	0	21.66	21.67	21.64			
10	16QAM	1	0	21.61	21.61	21.81			
10	16QAM	1	25	21.88	21.86	21.85	23	1	
10	16QAM	1	49	21.94	21.98	21.91			
10	16QAM	25	0	20.55	20.55	20.55			
10	16QAM	25	12	20.67	20.69	20.70	22	2	
10	16QAM	25	25	20.68	20.65	20.70			
10	16QAM	50	0	20.65	20.66	20.67			
10	64QAM	1	0	20.80	20.80	20.72			
10	64QAM	1	25	20.78	20.79	20.78	22	2	
10	64QAM	1	49	20.87	20.88	20.82			
10	64QAM	25	0	19.36	19.39	19.38			
10	64QAM	25	12	19.53	19.52	19.53	21	3	
10	64QAM	25	25	19.52	19.48	19.47			
10	64QAM	50	0	19.47	19.47	19.47			
10	256QAM	1	0	17.44	17.02	17.65			
10	256QAM	1	25	17.01	17.65	17.46	19	5	
10	256QAM	1	49	17.45	18.03	17.69			
10	256QAM	25	0	17.65	18.24	17.46			
10	256QAM	25	12	18.01	17.32	18.02	19	5	
10	256QAM	25	25	17.55	18.46	17.32			
10	256QAM	50	0	17.54	17.54	17.54			
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				706.5	710	713.5			
5	QPSK	1	0	22.44	22.47	22.48			
5	QPSK	1	12	22.53	22.55	22.57	24	0	
5	QPSK	1	24	22.58	22.62	22.58			
5	QPSK	12	0	21.54	21.56	21.61			
5	QPSK	12	7	21.64	21.70	21.68	23	1	
5	QPSK	12	13	21.61	21.51	21.64			
5	QPSK	25	0	21.60	21.65	21.58			
5	16QAM	1	0	21.74	21.77	21.80			
5	16QAM	1	12	21.74	21.79	21.80	23	1	
5	16QAM	1	24	21.91	21.95	21.91			
5	16QAM	12	0	20.55	20.61	20.60			
5	16QAM	12	20	20.64	20.64	20.69	22	2	
5	16QAM	12	13	20.63	20.66	20.59			
5	16QAM	25	0	20.62	20.66	20.54			
5	64QAM	1	0	20.51	20.55	20.56			
5	64QAM	1	12	20.54	20.60	20.58	22	2	
5	64QAM	1	24	20.61	20.66	20.62			
5	64QAM	12	0	19.37	19.41	19.41			
5	64QAM	12	7	19.45	19.50	19.47	21	3	
5	64QAM	12	13	19.46	19.49	19.50			
5	64QAM	25	0	19.44	19.48	19.44			</

Full Power for ANT2									
GSM1900	Burst-Average Power (dBm)			Turn-up Limit (dBm)	Frame-Average Power (dBm)			Turn-up Limit (dBm)	
	512	661	810		512	661	810		
TX Channel	1850.2	1860	1869.8		1850.2	1860	1869.8		
Frequency (MHz)	1850.2	1860	1869.8		1850.2	1860	1869.8		
GSM 1 Tx slot	29.68	29.44	29.72	30.50	20.68	20.44	20.72	21.50	
GPRS 1 Tx slot	29.67	29.43	29.70	30.50	20.67	20.43	20.70	21.50	
GPRS 2 Tx slots	26.53	26.54	26.28	27.50	20.53	20.54	20.28	21.50	
GPRS 3 Tx slots	24.60	24.51	24.41	25.50	20.34	20.25	20.15	21.24	
GPRS 4 Tx slots	23.09	22.78	22.69	24.00	20.09	19.78	19.69	21.00	
EDGE 1 Tx slot	25.43	25.49	25.51	27.00	16.43	16.49	16.51	18.00	
EDGE 2 Tx slots	22.81	22.41	22.23	23.50	16.61	16.41	16.23	17.50	
EDGE 3 Tx slots	20.55	20.31	20.25	21.50	16.29	16.05	15.99	17.24	
EDGE 4 Tx slots	19.12	18.92	18.88	20.00	16.12	15.92	15.88	17.00	

Band	WCDMA II			Turn-up Limit (dBm)	WCDMA IV			Turn-up Limit (dBm)	
	5262	9400	9538		1312	1413	1513		
RX Channel	1662	9500	9538		1537	1528	1728		
Frequency (MHz)	1662.4	1880	1907.6		1712.4	1732.6	1752.6		
3GPP Rel 99	AMR 12.2Kbps	24.05	24.19	24.07	25.00	23.90	24.03	23.99	25.00
3GPP Rel 99	RMC 12.2Kbps	24.03	24.20	24.17	25.00	23.93	24.05	24.03	25.00
3GPP Rel 6	HS-PA Subtest-1	23.29	23.35	23.35	24.00	23.21	23.20	23.29	24.00
3GPP Rel 6	HS-PA Subtest-2	23.27	23.36	23.30	24.00	23.20	23.22	23.25	24.00
3GPP Rel 6	HS-PA Subtest-3	22.77	22.85	22.81	23.50	22.71	22.72	22.77	23.50
3GPP Rel 6	HS-PA Subtest-4	22.82	22.85	22.82	23.50	22.72	22.71	22.77	23.50
3GPP Rel 8	DC-HS-PA Subtest-1	23.27	23.32	23.31	24.00	23.18	23.16	23.27	24.00
3GPP Rel 8	DC-HS-PA Subtest-2	23.25	23.33	23.26	24.00	23.17	23.18	23.23	24.00
3GPP Rel 8	DC-HS-PA Subtest-3	22.75	22.82	22.77	23.50	22.68	22.68	22.75	23.50
3GPP Rel 8	DC-HS-PA Subtest-4	22.80	22.82	22.78	23.50	22.69	22.67	22.75	23.50
3GPP Rel 6	HS-PA Subtest-1	23.25	23.32	23.29	24.00	23.25	23.27	23.34	24.00
3GPP Rel 6	HS-PA Subtest-2	21.29	21.40	21.28	22.00	21.29	21.31	21.36	22.00
3GPP Rel 6	HS-PA Subtest-3	22.29	22.31	22.28	23.00	22.30	22.28	22.39	23.00
3GPP Rel 6	HS-PA Subtest-4	21.31	21.35	21.27	22.00	21.29	21.27	21.38	22.00
3GPP Rel 6	HS-PA Subtest-5	23.30	23.30	23.30	24.00	23.32	23.32	23.32	24.00

Band 2 (1900MHz Band)												
Part 24E												
BW (MHz)	Modulation	RB Size	RB Offset	Low Ch. Freq. 1890.0	Low Ch. Freq. 1895.0	Power Mldts Ch. Freq. 1890.0	Power Mldts Ch. Freq. 1895.0	Tune-up (int. MHz)	MPE (dB)			
Channel												
Frequency (MHz)												
20	QPSK	1	0	24.00	23.97	23.97	23.97	25.5	0			
20	QPSK	1	49	23.92	23.91	23.97	23.97	25.5	0			
20	QPSK	1	99	24.20	24.21	23.91	23.91	25.5	0			
20	QPSK	1	149	24.12	24.13	23.97	23.97	25.5	0			
20	QPSK	50	24	23.20	23.13	23.17	23.17	24.5	1			
20	QPSK	50	50	23.16	23.08	23.16	23.16	24.5	1			
20	QPSK	100	0	23.17	23.09	23.16	23.16	24.5	1			
20	16QAM	1	0	23.06	23.05	23.09	23.09	24.5	1			
20	16QAM	1	49	23.06	23.00	22.96	22.96	24.5	1			
20	16QAM	1	99	22.96	22.93	22.98	22.98	24.5	1			
20	16QAM	50	0	22.15	22.05	22.09	22.09	23.5	2			
20	16QAM	50	24	22.21	22.13	22.18	22.18	23.5	2			
20	16QAM	50	50	22.12	22.02	22.08	22.08	23.5	2			
20	16QAM	100	0	22.18	22.05	22.17	22.17	23.5	2			
20	64QAM	1	0	22.84	22.85	22.89	22.89	23.5	2			
20	64QAM	1	49	22.86	22.80	22.84	22.84	23.5	2			
20	64QAM	1	99	22.99	22.99	22.90	22.90	23.5	2			
20	64QAM	50	0	21.20	21.11	21.12	21.12	22.5	3			
20	64QAM	50	24	21.27	21.18	21.22	21.22	22.5	3			
20	64QAM	50	50	21.22	21.16	21.23	21.23	22.5	3			
20	64QAM	100	0	21.24	21.17	21.22	21.22	22.5	3			
20	256QAM	1	0	19.16	19.24	19.42	19.42	20.5	5			
20	256QAM	1	49	19.13	19.14	19.18	19.18	20.5	5			
20	256QAM	1	99	19.21	19.32	19.34	19.34	20.5	5			
20	256QAM	50	0	19.21	19.24	19.25	19.25	20.5	5			
20	256QAM	50	24	19.42	18.99	19.45	19.45	20.5	5			
20	256QAM	50	50	19.22	19.07	19.42	19.42	20.5	5			
20	256QAM	100	0	19.08	19.02	19.11	19.11	20.5	5			
Channel												
Frequency (MHz)												
15	QPSK	1	0	23.02	23.03	23.03	23.03	25.5	0			
15	QPSK	1	37	24.02	23.94	24.00	24.00	25.5	0			
15	QPSK	1	74	24.02	23.89	24.01	24.01	25.5	0			
15	QPSK	36	0	23.11	23.03	23.09	23.09	24.5	1			
15	QPSK	36	20	23.19	23.11	23.19	23.19	24.5	1			
15	QPSK	36	39	23.14	23.09	23.18	23.18	24.5	1			
15	QPSK	75	0	23.18	23.04	23.19	23.19	24.5	1			
15	16QAM	1	0	23.22	23.32	23.04	23.04	24.5	1			
15	16QAM	1	37	23.04	22.95	23.05	23.05	24.5	1			
15	16QAM	1	74	23.28	23.23	23.29	23.29	24.5	1			
15	16QAM	36	0	22.13	22.12	22.07	22.07	23.5	2			
15	16QAM	36	20	22.20	22.12	22.19	22.19	23.5	2			
15	16QAM	36	39	22.19	22.11	22.28	22.28	23.5	2			
15	16QAM	75	0	22.19	22.11	22.29	22.29	23.5	2			
15	64QAM	1	0	22.29	22.32	22.40	22.40	23.5	2			
15	64QAM	1	37	22.38	22.25	22.40	22.40	23.5	2			
15	64QAM	1	74	22.37	22.27	22.36	22.36	23.5	2			
15	64QAM	36	0	21.20	21.18	21.13	21.13	22.5	3			
15	64QAM	36	20	21.25	21.19	21.28	21.28	22.5	3			
15	64QAM	36	39	21.25	21.18	21.25	21.25	22.5	3			
15	64QAM	75	0	21.26	21.17	21.16	21.16	22.5	3			
15	256QAM	1	0	19.02	18.95	19.09	19.09	20.5	5			
15	256QAM	1	37	19.10	19.12	19.15	19.15	20.5	5			
15	256QAM	1	74	19.08	18.97	19.04	19.04	20.5	5			
15	256QAM	36	0	19.09	19.06	19.04	19.04	20.5	5			
15	256QAM	36	20	19.05	18.94	19.07	19.07	20.5	5			
15	256QAM	36	39	19.01	19.13	19.14	19.14	20.5	5			
15	256QAM	75	0	19.12	19.16	19.15	19.15	20.5	5			
Channel												
Frequency (MHz)												
10	QPSK	1	0	24.10	24.26	24.36	24.36	25.5	0			
10	QPSK	1	26	24.32	24.20	24.31	24.31	25.5	0			
10	QPSK	1	49	24.14	24.26	24.37	24.37	25.5	0			
10	QPSK	1	74	24.38	24.41	24.40	24.40	25.5	0			
10	QPSK	26	12	23.49	23.44	23.43	23.43	24.5	1			
10	QPSK	26	25	23.62	23.43	23.62	23.62	24.5	1			
10	QPSK	50	0	23.42	23.42	23.46	23.46	24.5	1			
10	16QAM	1	0	23.29	23.66	23.38	23.38	24.5	1			
10	16QAM	1	26	23.28	23.62	23.29	23.29	24.5	1			
10	16QAM	1	49	23.64	23.64	23.37	23.37	24.5	1			
10	16QAM	26	0	22.49	22.42	22.40	22.40	23.5	2			
10	16QAM	26	12	22.54	22.43	22.43	22.43	23.5	2			
10	16QAM	26	25	22.50	22.42	22.52	22.52	23.5	2			
10	16QAM	50	0	22.50	22.42	22.47	22.47	23.5	2			
10	64QAM	1	0	22.34	22.76	22.72	22.72	23.5	2			
10	64QAM	1	26	22.84	22.75	22.83	22.83	23.5	2			
10	64QAM	1	49	22.68	22.77	22.59	22.59	23.5	2			
10	64QAM	1	74	22.61	22.68	22.68	22.68	23.5	2			
10	64QAM	26	12	21.62	21.53	21.52	21.52	22.5	3			
10	64QAM	26	25	21.64	21.51	21.59	21.59	22.5	3			
10	64QAM	50	0	21.64	21.52	21.59	21.59	22.5	3			
10	256QAM	1	0	19.10	19.12	19.02	19.02	20.5	5			
10	256QAM	1	26	19.11	19.15	19.14	19.14	20.5	5			
10	256QAM	1	49	19.06	19.16	19.15	19.15	20.5	5			
10	256QAM	26	0	19.16	19.17	19.15	19.15	20.5	5			
10	256QAM	26	12	19.14	19.16	19.12	19.12	20.5	5			
10	256QAM	26	25	19.10	19.01	19.14	19.14	20.5	5			
10	256QAM	50	0	19.09	19.15	19.06	19.06	20.5	5			
Channel												
Frequency (MHz)												
5	QPSK	1	0	24.10	24.26	24.36	24.36	25.5	0			
5	QPSK	1	12	24.32	24.20	24.31	24.31	25.5	0			
5	QPSK	1	24	24.14	24.26	24.37	24.37	25.5	0			
5	QPSK	12	0	23.38	23.41	23.40	23.40	24.5	1			
5	QPSK	12	7	23.49	23.44	23.43	23.43	24.5	1			
5	QPSK	12	19	23.62	23.43	23.62	23.62	24.5	1			
5	QPSK	26	0	23.42	23.42	23.46	23.46	24.5	1			
5	16QAM	1	0	23.29	23.66	23.38	23.38	24.5	1			
5	16QAM	1	12	23.28	23.62	23.29	23.29	24.5	1			
5	16QAM	1	24	23.64	23.64	23.37	23.37	24.5	1			
5	16QAM	12	0	22.49	22.42	22.40	22.40	23.5	2			
5	16QAM	12	7	22.54	22.43	22.43	22.43	23.5	2			
5	16QAM	12	19	22.50	22.42	22.52	22.52	23.5	2			
5	16QAM	26	0	22.50	22.42	22.47	22.47	23.5	2			
5	64QAM	1	0	22.34	22.76	22.72	22.72	23.5	2			
5	64QAM	1	12	22.84	22.75	22.83	22.83	23.5	2			
5	64QAM	1	24	22.68	22.77	22.59	22.59	23.5	2			
5	64QAM	12	0	21.62	21.53	21.52	21.52	22.5	3			
5	64QAM	12	13	21.64	21.51	21.59	21.59	22.5	3			
5	64QAM	26	0	21.62	21.48	21.57	21.57	22.5	3			
5	256QAM	1	0	19.14	19.15	19.12	19.12	20.5	5			
5	256QAM	1										

Band 66											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 133972	Power High Ch. Freq. 133992	Power Modula Ch. Freq. 133992	Power High Ch. Freq. 133972	Tune-up limit (dBm)	MPR (dB)		
Channel				133972	133992	133992	133972				
Frequency (MHz)				1720	1726	1726	1720				
20	QPSK	1	0	24.11	24.05	24.05	24.05	24.5	0		
20	QPSK	1	49	24.05	23.75	23.95	23.95				
20	QPSK	1	99	24.03	23.90	23.82	23.82				
20	QPSK	50	0	23.17	23.04	23.04	23.04				
20	QPSK	50	24	23.23	23.11	23.11	23.11				
20	QPSK	50	50	23.14	23.12	23.03	23.03	24.5	1		
20	16QAM	1	0	23.48	23.51	23.42	23.42				
20	16QAM	1	49	23.41	23.40	23.34	23.34				
20	16QAM	1	99	22.26	22.26	22.26	22.26				
20	16QAM	50	0	22.19	22.16	22.07	22.07				
20	16QAM	50	24	22.24	22.12	22.13	22.13	23.5	2		
20	16QAM	50	50	22.16	22.12	22.03	22.03				
20	64QAM	1	0	22.45	22.44	22.33	22.33				
20	64QAM	1	49	22.44	22.37	22.31	22.31				
20	64QAM	1	99	22.28	22.26	22.25	22.25				
20	64QAM	50	0	21.24	21.21	21.16	21.16	23.5	2		
20	64QAM	50	24	21.25	21.18	21.20	21.20				
20	64QAM	50	50	21.23	21.16	21.11	21.11				
20	256QAM	1	0	19.11	19.15	19.16	19.16				
20	256QAM	1	49	19.21	19.24	19.23	19.23				
20	256QAM	1	99	19.15	19.17	19.16	19.16	20.5	5		
20	256QAM	50	0	19.32	19.31	19.28	19.28				
20	256QAM	50	24	19.14	19.18	19.12	19.12				
20	256QAM	50	50	19.22	19.20	19.14	19.14				
20	256QAM	100	0	19.24	19.28	19.25	19.25				
Channel				132047	132022	132022	132047	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1717.3	1746	1772.5	1772.5				
15	QPSK	1	0	24.11	24.05	24.05	24.05	24.5	0		
15	QPSK	1	37	24.04	24.05	23.94	23.94				
15	QPSK	1	74	23.98	23.94	23.87	23.87				
15	QPSK	36	0	23.14	23.09	23.03	23.03				
15	QPSK	36	20	23.17	23.11	23.02	23.02				
15	QPSK	36	39	23.11	23.11	23.02	23.02	24.5	1		
15	QPSK	75	0	23.16	23.06	22.99	22.99				
15	16QAM	1	0	23.39	23.39	23.36	23.36				
15	16QAM	1	37	23.41	23.32	23.29	23.29				
15	16QAM	1	74	23.35	23.11	23.26	23.26				
15	16QAM	36	0	22.14	22.14	22.04	22.04	23.5	2		
15	16QAM	36	20	22.19	22.06	22.06	22.06				
15	16QAM	36	39	22.14	22.02	22.03	22.03				
15	16QAM	75	0	22.17	22.08	21.98	21.98				
15	64QAM	1	0	22.37	22.34	22.26	22.26				
15	64QAM	1	37	22.36	22.25	22.23	22.23	23.5	2		
15	64QAM	1	74	22.27	22.18	22.03	22.03				
15	64QAM	36	0	21.20	21.19	21.11	21.11				
15	64QAM	36	20	21.25	21.20	21.04	21.04				
15	64QAM	36	39	21.23	21.17	20.95	20.95				
15	64QAM	75	0	21.23	21.15	21.06	21.06	20.5	5		
15	256QAM	1	0	19.11	19.15	19.15	19.15				
15	256QAM	1	37	19.21	19.24	19.22	19.22				
15	256QAM	1	74	19.10	19.12	19.16	19.16				
15	256QAM	36	0	19.21	19.24	19.20	19.20				
15	256QAM	36	20	19.13	19.19	19.14	19.14	20.5	5		
15	256QAM	36	39	19.17	19.19	19.16	19.16				
15	256QAM	75	0	19.24	19.19	19.22	19.22				
Channel				132022	132022	132022	132022	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1717.3	1746	1772.5	1772.5				
10	QPSK	1	0	24.10	24.05	24.05	24.05	24.5	0		
10	QPSK	1	26	24.06	24.03	23.96	23.96				
10	QPSK	1	49	23.97	23.96	23.86	23.86				
10	QPSK	25	0	23.18	23.12	22.99	22.99				
10	QPSK	25	12	23.19	23.08	23.08	23.08				
10	QPSK	25	25	22.78	23.12	23.02	23.02	24.5	1		
10	QPSK	50	0	22.67	22.66	22.56	22.56				
10	16QAM	1	0	23.47	23.58	23.37	23.37				
10	16QAM	1	25	23.45	23.40	23.34	23.34				
10	16QAM	1	49	22.48	22.43	22.31	22.31				
10	16QAM	25	0	22.20	22.11	22.02	22.02	23.5	2		
10	16QAM	25	12	22.21	22.12	22.06	22.06				
10	16QAM	25	25	22.11	22.06	21.97	21.97				
10	16QAM	50	0	22.20	22.08	21.96	21.96				
10	64QAM	1	0	22.69	22.69	22.58	22.58				
10	64QAM	1	25	22.51	22.54	22.40	22.40	23.5	2		
10	64QAM	1	49	22.48	22.43	22.31	22.31				
10	64QAM	25	0	21.29	21.16	21.06	21.06				
10	64QAM	25	12	21.28	21.25	21.14	21.14				
10	64QAM	25	25	21.23	21.19	21.06	21.06				
10	256QAM	1	0	19.12	19.15	19.15	19.15	20.5	5		
10	256QAM	1	25	19.10	19.11	19.14	19.14				
10	256QAM	1	49	19.09	19.07	19.10	19.10				
10	256QAM	25	0	19.17	19.16	19.17	19.17				
10	256QAM	25	12	19.12	19.10	19.14	19.14				
10	256QAM	25	25	19.06	19.04	19.10	19.10	20.5	5		
10	256QAM	50	0	19.11	19.12	19.05	19.05				
Channel				131997	132022	132047	132047	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1712.5	1746	1772.5	1772.5				
5	QPSK	1	0	24.11	23.97	23.95	23.95	24.5	0		
5	QPSK	1	12	24.12	24.07	23.96	23.96				
5	QPSK	1	24	24.05	24.00	23.86	23.86				
5	QPSK	12	0	23.19	23.10	23.05	23.05				
5	QPSK	12	7	23.22	23.12	23.07	23.07				
5	QPSK	12	19	23.12	23.14	23.03	23.03	24.5	1		
5	QPSK	25	0	23.15	23.10	23.01	23.01				
5	16QAM	1	0	23.45	23.33	23.29	23.29				
5	16QAM	1	12	23.43	23.43	23.33	23.33				
5	16QAM	1	24	23.41	23.45	23.36	23.36				
5	16QAM	12	0	22.20	22.17	22.05	22.05	23.5	2		
5	16QAM	12	7	22.19	22.12	22.08	22.08				
5	16QAM	12	19	22.18	22.15	22.03	22.03				
5	16QAM	25	0	22.18	22.13	22.02	22.02				
5	64QAM	1	0	22.46	22.36	22.29	22.29				
5	64QAM	1	12	22.42	22.36	22.25	22.25	23.5	2		
5	64QAM	1	24	22.33	22.31	22.20	22.20				
5	64QAM	12	0	21.30	21.18	21.09	21.09				
5	64QAM	12	7	21.26	21.22	21.12	21.12				
5	64QAM	12	19	21.25	21.20	21.12	21.12				
5	64QAM	25	0	21.35	21.18	21.13	21.13	20.5	5		
5	256QAM	1	0	19.11	19.18	19.13	19.13				
5	256QAM	1	12	19.15	19.16	19.14	19.14				
5	256QAM	1	24	19.14	19.10	19.17	19.17				
5	256QAM	12	0	19.20	19.21	19.19	19.19				
5	256QAM	12	7	19.14	19.15	19.13	19.13	20.			

Band 38(only on channel required)									
BW [MHz]	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	24.27	24.37	24.27	25.5	0	
20	QPSK	1	49	24.32	24.30	24.28			
20	QPSK	1	99	24.34	24.32	24.31			
20	QPSK	50	0	23.39	23.36	23.35	24.5	1	
20	QPSK	50	24	23.41	23.40	23.36			
20	QPSK	50	50	23.47	23.46	23.43			
20	QPSK	100	0	23.39	23.37	23.35	24.5	1	
20	16QAM	1	0	23.46	23.43	23.40			
20	16QAM	1	49	23.38	23.41	23.36			
20	16QAM	1	99	23.45	23.43	23.49	23.5	2	
20	16QAM	50	0	22.41	22.43	22.38			
20	16QAM	50	24	22.41	22.44	22.38			
20	16QAM	50	50	22.48	22.49	22.46	23.5	2	
20	16QAM	100	0	22.41	22.40	22.36			
20	64QAM	1	0	22.32	22.24	22.24	23.5	2	
20	64QAM	1	49	22.23	22.21	22.25			
20	64QAM	1	99	22.28	22.30	22.32			
20	64QAM	50	0	21.42	21.40	21.39	22.5	3	
20	64QAM	50	24	21.42	21.43	21.39			
20	64QAM	50	50	21.51	21.48	21.46			
20	64QAM	100	0	21.53	21.50	21.44	20.5	5	
20	256QAM	1	0	19.27	19.46	19.46			
20	256QAM	1	49	19.18	19.62	19.22			
20	256QAM	1	99	19.46	19.27	19.34	20.5	5	
20	256QAM	50	0	19.51	19.46	19.25			
20	256QAM	50	24	19.02	19.24	19.16			
20	256QAM	50	50	19.35	19.63	19.43	20.5	5	
20	256QAM	100	0	19.42	19.46	19.75			
Channel				37825	38000	38175	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	24.32	24.25	24.21	25.5	0	
15	QPSK	1	37	24.26	24.29	24.24			
15	QPSK	1	74	24.33	24.29	24.31			
15	QPSK	36	0	23.38	23.37	23.36	24.5	1	
15	QPSK	36	20	23.43	23.44	23.35			
15	QPSK	36	39	23.43	23.45	23.43			
15	QPSK	75	0	23.46	23.37	23.34	24.5	1	
15	16QAM	1	0	23.48	23.39	23.37			
15	16QAM	1	37	23.34	23.37	23.38			
15	16QAM	1	74	23.42	23.44	23.46	23.5	2	
15	16QAM	36	0	22.32	22.33	22.32			
15	16QAM	36	20	22.38	22.40	22.31			
15	16QAM	36	39	22.41	22.42	22.39	23.5	2	
15	16QAM	75	0	22.45	22.36	22.37			
15	64QAM	1	0	22.30	22.26	22.25	23.5	2	
15	64QAM	1	37	22.22	22.32	22.31			
15	64QAM	1	74	22.26	22.28	22.33			
15	64QAM	36	0	21.43	21.45	21.43	22.5	3	
15	64QAM	36	20	21.51	21.52	21.43			
15	64QAM	36	39	21.50	21.54	21.52			
15	64QAM	75	0	21.52	21.46	21.46	20.5	5	
15	256QAM	1	0	19.32	19.15	19.24			
15	256QAM	1	37	19.46	19.24	19.24			
15	256QAM	1	74	19.54	19.52	19.13	20.5	5	
15	256QAM	36	0	19.76	19.46	19.25			
15	256QAM	36	20	19.35	19.35	19.13			
15	256QAM	36	39	19.46	19.46	19.42	20.5	5	
15	256QAM	75	0	19.32	19.35	19.22			
Channel				37800	38000	38200	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				25750	2595	2615			
10	QPSK	1	0	24.08	24.27	24.29	25.5	0	
10	QPSK	1	25	24.31	24.35	24.32			
10	QPSK	1	49	24.14	24.14	24.32			
10	QPSK	25	0	23.47	23.40	23.37	24.5	1	
10	QPSK	25	12	23.46	23.50	23.46			
10	QPSK	25	25	23.48	23.50	23.44			
10	QPSK	50	0	23.48	23.42	23.45	24.5	1	
10	16QAM	1	0	23.52	23.44	23.42			
10	16QAM	1	25	23.44	23.49	23.44			
10	16QAM	1	49	23.50	23.47	23.48	23.5	2	
10	16QAM	25	0	22.48	22.40	22.37			
10	16QAM	25	12	22.47	22.52	22.48			
10	16QAM	25	25	22.45	22.50	22.46	23.5	2	
10	16QAM	50	0	22.49	22.44	22.49			
10	64QAM	1	0	22.48	22.47	22.43	23.5	2	
10	64QAM	1	25	22.40	22.42	22.38			
10	64QAM	1	49	22.44	22.38	22.49			
10	64QAM	25	0	21.50	21.42	21.42	22.5	3	
10	64QAM	25	12	21.52	21.56	21.51			
10	64QAM	25	25	21.48	21.56	21.51			
10	64QAM	50	0	21.52	21.49	21.50	20.5	5	
10	256QAM	1	0	19.07	19.25	19.34			
10	256QAM	1	25	19.12	19.62	19.64			
10	256QAM	1	49	19.25	19.35	19.52	20.5	5	
10	256QAM	25	0	19.35	19.25	19.25			
10	256QAM	25	12	19.25	19.34	19.34			
10	256QAM	25	25	19.36	19.45	19.24	20.5	5	
10	256QAM	50	0	19.75	19.63	19.65			
Channel				37775	38000	38225	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	24.15	24.31	24.22	25.5	0	
5	QPSK	1	12	24.36	24.34	24.27			
5	QPSK	1	24	24.25	24.13	24.30			
5	QPSK	12	0	23.50	23.44	23.36	24.5	1	
5	QPSK	12	7	23.47	23.53	23.50			
5	QPSK	12	13	23.43	23.51	23.43			
5	QPSK	25	0	23.47	23.48	23.44	24.5	1	
5	16QAM	1	0	23.51	23.42	23.39			
5	16QAM	1	12	23.55	23.53	23.51			
5	16QAM	1	24	23.47	23.54	23.53	23.5	1	
5	16QAM	12	0	22.49	22.41	22.36			
5	16QAM	12	7	22.50	22.50	22.47			
5	16QAM	12	13	22.38	22.48	22.44	23.5	2	
5	16QAM	25	0	22.52	22.50	22.45			
5	64QAM	1	0	22.40	22.28	22.23	23.5	2	
5	64QAM	1	12	22.33	22.35	22.31			
5	64QAM	1	24	22.25	22.37	22.36			
5	64QAM	12	0	21.56	21.47	21.44	22.5	3	
5	64QAM	12	7	21.58	21.57	21.51			
5	64QAM	12	13	21.44	21.54	21.48			
5	64QAM	25	0	21.54	21.51	21.51	20.5	5	
5	256QAM	1	0	19.25	19.23	19.27			
5	256QAM	1	12	19.15	19.16	19.20			
5	256QAM	1	24	19.24	19.27	19.26	20.5	5	
5	256QAM	12	0	19.32	19.34	19.33			
5	256QAM	12	7	19.12	19.18	19.10			
5	256QAM	12	13	19.24	19.25	19.24	20.5	5	
5	256QAM	25	0	19.18	19.22	19.25			

Band 41 (2.6G Band)										
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.		
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	24.34	24.13	24.11	24.30	24.20	25.5	0
20	QPSK	1	49	24.28	24.23	24.27	24.21	24.10		
20	QPSK	1	99	24.30	24.19	24.35	24.29	24.11		
20	QPSK	50	24	23.44	23.28	23.40	23.24	23.25		
20	QPSK	50	24	23.42	23.39	23.45	23.31	23.23	24.5	1
20	QPSK	50	50	23.47	23.38	23.42	23.39	23.20		
20	QPSK	100	0	23.45	23.35	23.46	23.38	23.23		
20	16QAM	1	0	23.48	23.28	23.46	23.47	23.35		
20	16QAM	1	49	23.38	23.28	23.38	23.34	23.20	24.5	1
20	16QAM	1	99	23.42	23.35	23.44	23.42	23.21		
20	16QAM	50	0	22.47	22.32	22.37	22.33	22.20		
20	16QAM	50	24	22.47	22.38	22.44	22.34	22.26		
20	16QAM	50	24	22.46	22.37	22.46	22.41	22.24	23.5	2
20	16QAM	100	0	22.44	22.38	22.45	22.33	22.25		
20	64QAM	1	0	22.38	22.07	22.24	22.22	21.13		
20	64QAM	1	49	22.15	22.09	22.15	22.13	21.99		
20	64QAM	1	99	22.19	22.13	22.23	22.19	21.99	23.5	2
20	64QAM	50	0	21.44	21.27	21.33	21.27	21.23		
20	64QAM	50	24	21.43	21.35	21.41	21.28	21.23		
20	64QAM	50	50	21.43	21.34	21.41	21.35	21.18		
20	256QAM	100	0	21.51	21.44	21.52	21.39	21.32	22.5	3
20	256QAM	1	0	19.32	19.46	19.34	19.63	19.34		
20	256QAM	1	49	19.47	19.32	19.08	19.74	19.75		
20	256QAM	1	99	19.52	19.15	19.42	19.34	19.24		
20	256QAM	50	0	19.34	19.42	19.34	19.52	19.64	20.5	5
20	256QAM	50	24	19.76	19.21	19.73	19.36	19.41		
20	256QAM	50	50	19.28	19.65	19.34	19.76	19.83		
20	256QAM	100	0	19.24	19.12	19.25	19.32	19.45		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2505.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	24.31	24.14	24.25	24.19	24.12	25.5	0
15	QPSK	1	37	24.25	24.15	24.24	24.16	24.03		
15	QPSK	1	74	24.25	24.31	24.36	24.25	24.14		
15	QPSK	36	0	23.42	23.24	23.34	23.30	23.22		
15	QPSK	36	20	23.39	23.23	23.43	23.37	23.24	24.5	1
15	QPSK	36	39	23.42	23.32	23.41	23.35	23.18		
15	QPSK	75	0	23.41	23.36	23.41	23.37	23.20		
15	64QAM	1	0	23.47	23.34	23.42	23.39	23.27		
15	16QAM	1	37	23.29	23.19	23.30	23.24	23.03	24.5	1
15	16QAM	1	74	23.40	23.42	23.51	23.50	23.28		
15	16QAM	36	0	22.40	22.22	22.29	22.28	22.24		
15	16QAM	36	20	22.39	22.28	22.38	22.35	22.19		
15	16QAM	36	39	22.37	22.31	22.37	22.34	22.15	23.5	2
15	16QAM	75	0	22.46	22.36	22.44	22.39	22.25		
15	64QAM	1	0	22.25	22.08	22.20	22.19	22.07		
15	64QAM	1	37	22.18	22.09	22.23	22.13	22.02		
15	64QAM	1	74	22.17	22.18	22.27	22.20	22.03	23.5	2
15	64QAM	36	0	21.46	21.29	21.36	21.33	21.27		
15	64QAM	36	20	21.44	21.33	21.44	21.41	21.24		
15	64QAM	36	39	21.45	21.34	21.45	21.39	21.24		
15	64QAM	75	0	21.48	21.36	21.44	21.41	21.25	22.5	3
15	256QAM	1	0	19.75	19.35	19.16	19.75	19.54		
15	256QAM	1	37	19.52	19.65	19.46	19.35	19.36		
15	256QAM	1	74	19.35	19.78	19.75	19.74	19.16		
15	256QAM	36	0	19.75	19.62	19.76	19.26	19.66	20.5	5
15	256QAM	36	20	19.42	19.63	19.72	19.45	19.52		
15	256QAM	36	39	19.35	19.12	19.24	19.75	19.22		
15	256QAM	75	0	19.58	19.45	19.52	19.34	19.12		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2499.5	2545.5	2593	2637.8	2683.5		
10	QPSK	1	0	24.36	24.30	24.30	24.25	24.13	25.5	0
10	QPSK	1	25	24.37	24.26	24.34	24.27	24.11		
10	QPSK	1	49	24.40	24.31	24.38	24.28	24.08		
10	QPSK	25	0	23.45	23.26	23.36	23.35	23.23		
10	QPSK	25	12	23.47	23.39	23.46	23.34	23.24	24.5	1
10	QPSK	25	12	23.48	23.39	23.50	23.32	23.22		
10	QPSK	50	0	23.49	23.39	23.46	23.35	23.24		
10	16QAM	1	0	23.50	23.37	23.43	23.41	23.25		
10	16QAM	1	25	23.48	23.40	23.47	23.43	23.22	24.5	1
10	16QAM	1	49	23.49	23.42	23.45	23.36	23.20		
10	16QAM	25	0	22.50	22.28	22.40	22.34	22.27		
10	16QAM	25	12	22.50	22.42	22.45	22.36	22.28		
10	16QAM	25	25	22.48	22.39	22.43	22.44	22.22	23.5	2
10	16QAM	50	0	22.53	22.42	22.52	22.35	22.27		
10	64QAM	1	0	22.45	22.24	22.34	22.32	22.10		
10	64QAM	1	25	22.37	22.24	22.34	22.31	22.10		
10	64QAM	1	49	22.43	22.31	22.37	22.30	22.13	23.5	2
10	64QAM	25	0	21.49	21.28	21.37	21.34	21.22		
10	64QAM	25	12	21.50	21.41	21.50	21.36	21.24		
10	64QAM	25	25	21.49	21.35	21.45	21.41	21.22		
10	64QAM	50	0	21.46	21.34	21.45	21.31	21.23	22.5	3
10	256QAM	1	0	19.46	19.44	19.52	19.46	19.39		
10	256QAM	25	0	19.45	19.42	19.35	19.52	19.47		
10	256QAM	1	49	19.35	19.34	19.64	19.68	19.54		
10	256QAM	25	0	19.58	19.49	19.53	19.34	19.52	20.5	5
10	256QAM	25	12	19.25	19.35	19.65	19.77	19.65		
10	256QAM	25	19	19.46	19.56	19.46	19.24	19.54		
10	256QAM	50	0	19.54	19.62	19.52	19.37	19.58		
Channel				39675	40148	40620	41093	41555		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	24.15	24.14	24.30	24.19	24.12	25.5	0
5	QPSK	1	12	24.35	24.20	24.31	24.23	24.04		
5	QPSK	1	24	24.35	24.19	24.32	24.28	24.03		
5	QPSK	1	49	23.49	23.32	23.44	23.39	23.20		
5	QPSK	12	7	23.52	23.35	23.50	23.39	23.20	24.5	1
5	QPSK	12	13	23.49	23.35	23.48	23.39	23.23		
5	QPSK	25	0	23.48	23.34	23.44	23.36	23.19		
5	16QAM	1	0	23.55	23.32	23.43	23.36	23.18		
5	16QAM	1	12	23.56	23.47	23.50	23.51	23.30	24.5	1
5	16QAM	12	24	23.58	23.42	23.53	23.41	23.23		
5	16QAM	12	0	22.49	22.25	22.47	22.30	22.17		
5	16QAM	12	7	22.53	22.35	22.43	22.40	22.18		
5	16QAM	12	13	22.47	22.31	22.41	22.39	22.13	23.5	2
5	16QAM	25	0	22.52	22.47	22.45	22.41	22.25		
5	16QAM	1	0	22.30	22.16	22.25	22.14	22.00		
5	16QAM	1	12	22.33	22.16	22.26	22.23	22.01		
5	64QAM	1	24	22.34	22.16	22.25	22.20	22.01	22.5	3
5	64QAM	12	0	21.49	21.26	21.46	21.32	21.17		
5	64QAM	12	7	21.51	21.37	21.44	21.43	21.22		
5	64QAM	12	13	21.45	21.34	21.43	21.41	21.16		
5	256QAM	249	0	21.49	21.33	21.46	21.37	21.20	20.5	5
5	256QAM	1	0	19.85	19.21	19.03	19.46	19.45		
5	256QAM	1	12	18.98	18.97	19.12	19.24	19.24		
5	256QAM	1	24	18.99	18.65	19.24	19.42	19.24		
5	256QAM	12	0	19.21	19.24	19.34	19.42	19.21	20.5	5
5	256QAM	12	7	19.12	19.21	19.14	19.32	19.82		
5	18.95QAM	19.32	13	19.32	19.86	19.85	19.45	19.11		
5	256QAM	25	0	19.14	19.10	19.01	19.05	19.10		

Full Power for ANT3

GSM50	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	126	180	251		126	180	251	
TX Channel	824.2	836.4	848.8	824.2	836.4	848.8	824.2	836.4
Frequency (MHz)	824.2	836.4	848.8		836.4	848.8		
GSM 1 Tx slot	31.29	31.53	31.43	32.50	22.29	22.53	22.43	23.50
GPRS 1 Tx slot	31.26	31.52	31.42	32.50	22.28	22.52	22.42	23.50
GPRS 3 Tx slots	26.04	26.53	26.37	26.50	22.04	22.53	22.37	23.50
GPRS 3 Tx slots	26.57	26.70	26.61	27.50	22.31	22.44	22.35	23.24
GPRS 4 Tx slots	25.12	25.36	25.10	26.50	22.12	22.36	22.10	23.50
EDGE 1 Tx slot	25.21	25.51	25.28	26.50	16.21	16.51	16.28	17.50
EDGE 3 Tx slots	22.35	22.51	22.31	23.50	16.35	16.51	16.31	17.50
EDGE 3 Tx slots	20.71	20.61	20.65	21.50	16.45	16.35	16.39	17.24
EDGE 4 Tx slots	19.21	19.45	19.21	20.00	16.21	16.45	16.21	17.00

Band	WCDMA V			Tune-up Limit (dBm)
	4132	4182	4233	
TX Channel	4357	4407	4458	824.2
Frequency (MHz)	824.2	836.4	848.8	
3GPP Rel 99 AMR 12.2Kbps	23.34	23.39	23.34	24.00
3GPP Rel 99 RMC 12.2Kbps	23.36	23.41	23.37	24.00
3GPP Rel 6 HSDPA Subtest-1	22.11	22.12	22.08	23.00
3GPP Rel 6 HSDPA Subtest-2	22.12	22.15	22.10	23.00
3GPP Rel 6 HSDPA Subtest-3	21.83	21.64	21.61	22.50
3GPP Rel 6 HSDPA Subtest-4	21.65	21.61	21.57	22.50
3GPP Rel 8 DC-HSDPA Subtest-1	22.18	22.12	22.04	23.00
3GPP Rel 8 DC-HSDPA Subtest-2	22.12	22.06	22.04	23.00
3GPP Rel 8 DC-HSDPA Subtest-3	21.61	21.63	21.59	22.50
3GPP Rel 8 DC-HSDPA Subtest-4	21.66	21.61	21.58	22.50
3GPP Rel 6 HSUPA Subtest-1	22.06	22.10	22.04	23.00
3GPP Rel 6 HSUPA Subtest-2	20.09	20.11	20.07	21.00
3GPP Rel 6 HSUPA Subtest-3	21.04	21.08	21.04	22.00
3GPP Rel 6 HSUPA Subtest-4	20.10	20.11	20.06	21.00
3GPP Rel 6 HSUPA Subtest-5	22.15	22.13	22.06	23.00

Band 4 (AWS Band)																		
Part 27L (only on channel required)																		
BW (MHz)	Modulation	RB Size	RB Offset	Low Ch. Freq. (MHz)	High Ch. Freq. (MHz)	Power (dBm)	Time-up (min)	MPR (dB)										
Channel																		
Frequency (MHz)																		
20	QPSK	1	0	22.17	22.17	22.15	24	0										
20	QPSK	1	48	22.07	22.15	22.05												
20	QPSK	1	96	22.03	22.11	22.14												
20	QPSK	50	0	21.23	21.23	21.21												
20	QPSK	24	24	21.21	21.13	21.16	23	1										
20	QPSK	50	50	21.12	21.16	21.23												
20	QPSK	100	0	21.16	21.15	21.16												
20	HQAM	1	0	21.59	21.64	21.42												
20	HQAM	48	48	21.56	21.35	21.57	23	1										
20	HQAM	1	99	21.17	21.31	21.36												
20	HQAM	50	0	20.37	20.19	20.19												
20	HQAM	50	24	20.20	20.11	20.20												
20	HQAM	50	50	20.12	20.18	20.21	22	2										
20	HQAM	100	0	20.17	20.04	20.16												
20	HQAM	1	49	20.07	20.09	20.31												
20	HQAM	1	49	20.28	20.28	20.35												
20	HQAM	1	49	20.24	20.36	20.38	22	2										
20	HQAM	50	0	19.45	19.17	19.20												
20	HQAM	50	24	19.22	19.11	19.08												
20	HQAM	20	50	19.16	19.16	19.24												
20	HQAM	100	0	19.25	19.15	19.15	21	3										
20	DSSS	1	0	17.21	17.15	17.15												
20	DSSS	48	48	17.18	17.18	17.13												
20	DSSS	1	99	17.21	17.22	17.18												
20	DSSS	50	0	17.05	17.23	17.23	19	5										
20	DSSS	50	24	17.06	17.23	17.23												
20	DSSS	50	50	17.16	17.23	17.23												
20	DSSS	50	50	17.11	17.23	17.09												
20	DSSS	100	0	17.23	17.18	17.12												
Channel																		
Frequency (MHz)																		
15	QPSK	1	0	22.15	22.22	22.17	24	0										
15	QPSK	1	97	22.09	22.09	22.01												
15	QPSK	1	74	22.01	22.09	22.06												
15	QPSK	50	0	21.16	21.16	21.14												
15	QPSK	36	0	21.08	21.08	21.08	23	1										
15	QPSK	36	36	21.08	21.10	21.16												
15	QPSK	75	0	20.95	20.95	21.15												
15	HQAM	1	0	21.51	21.57	21.35												
15	HQAM	1	37	21.30	21.28	21.28	23	1										
15	HQAM	75	0	21.42	21.31	21.27												
15	HQAM	36	0	20.28	20.06	20.13												
15	HQAM	36	20	20.12	20.02	20.15												
15	HQAM	36	36	20.07	20.09	20.06	22	2										
15	HQAM	75	0	20.07	20.06	20.11												
15	HQAM	1	0	20.92	20.36	20.26												
15	HQAM	1	37	20.91	20.92	21.08												
15	HQAM	1	74	20.17	20.27	20.31	22	2										
15	HQAM	36	0	20.07	20.06	20.06												
15	HQAM	36	20	19.15	19.02	19.01												
15	HQAM	36	36	19.12	19.12	19.14												
15	HQAM	75	0	19.05	19.05	19.15	19	5										
15	DSSS	1	0	17.15	17.06	17.05												
15	DSSS	1	37	17.01	17.09	17.05												
15	DSSS	1	74	17.15	17.05	17.05												
15	DSSS	36	0	16.96	17.14	17.15	19	5										
15	DSSS	36	20	16.88	17.15	17.02												
15	DSSS	36	36	17.02	17.14	17.02												
15	DSSS	75	0	17.17	17.09	17.02												
Channel																		
Frequency (MHz)																		
10	QPSK	1	0	22.09	22.16	22.12	24	0										
10	QPSK	1	26	22.03	22.05	22.06												
10	QPSK	1	49	22.06	22.07	22.01												
10	QPSK	26	0	21.07	21.05	21.04												
10	QPSK	26	12	21.08	21.08	21.08	23	1										
10	QPSK	26	26	21.06	21.10	21.16												
10	QPSK	50	0	21.03	21.01	21.02												
10	HQAM	1	0	21.43	21.62	21.38												
10	HQAM	1	25	21.23	21.22	21.21	23	1										
10	HQAM	1	49	21.05	21.11	21.29												
10	HQAM	1	9	20.43	20.31	20.37												
10	HQAM	25	12	20.04	20.03	20.10												
10	HQAM	25	12	20.01	20.02	20.03	22	2										
10	HQAM	50	0	20.05	20.02	20.01												
10	HQAM	1	0	20.54	20.29	20.20												
10	HQAM	1	49	20.08	20.18	20.25												
10	HQAM	25	0	19.22	19.11	19.03	21	3										
10	HQAM	25	12	19.16	19.04	19.04												
10	HQAM	25	25	19.01	19.05	19.06												
10	HQAM	50	0	19.10	19.03	19.05												
10	DSSS	1	0	17.07	16.95	17.04	19	5										
10	DSSS	1	25	16.94	16.99	16.96												
10	DSSS	1	49	17.01	17.06	17.01												
10	DSSS	25	0	16.90	17.07	17.06												
10	DSSS	25	12	16.96	17.09	16.92	19	5										
10	DSSS	25	25	16.97	17.06	16.93												
10	DSSS	50	0	17.15	17.03	17.05												
10	DSSS	50	0	17.15	17.02	17.06												
Channel																		
Frequency (MHz)																		
5	QPSK	1	0	22.13	22.24	22.17	24	0										
5	QPSK	1	12	22.00	22.08	22.11												
5	QPSK	1	24	22.07	22.05	22.08												
5	QPSK	1	4	21.17	21.15	21.14												
5	QPSK	12	7	21.16	21.06	21.11	23	1										
5	QPSK	13	13	21.16	21.06	21.15												
5	QPSK	25	0	21.10	21.07	21.10			</									

Band 12 (700MHz Low Band)											
Part 27F(only on channel required)											
RF [MHz]	Modulation	RB Size	RB Offset	Channel	Power Low Ch. Freq. [MHz]	Power Mid Ch. Freq. [MHz]	Power High Ch. Freq. [MHz]	Tune-Up [dBm]	MPR [dB]		
Channel											
Frequency [MHz]											
10	QPSK	1	0	21.55	21.52	21.51					
10	QPSK	1	25	21.42	21.48	21.51		23	0		
10	QPSK	1	49	21.51	21.57	21.58					
10	QPSK	25	0	20.52	20.87	20.82					
10	QPSK	25	12	20.83	20.58	20.59		22	1		
10	QPSK	25	25	20.80	20.65	20.69					
10	QPSK	50	0	20.55	20.81	20.59					
10	16QAM	1	0	20.58	20.87	20.59					
10	16QAM	1	25	20.21	20.46	20.49		22	1		
10	16QAM	1	49	20.70	20.76	20.65					
10	16QAM	25	0	19.58	19.59	19.63		21	2		
10	16QAM	25	12	19.67	19.62	19.62					
10	16QAM	25	25	19.62	19.66	19.59					
10	16QAM	50	0	19.66	19.69	19.62					
10	16QAM	1	0	19.44	19.44	19.41		21	2		
10	16QAM	1	25	19.35	19.43	19.47					
10	16QAM	1	49	19.46	19.57	19.58		21	2		
10	16QAM	25	0	18.16	18.16	18.16					
10	16QAM	25	12	18.22	18.16	18.17		20	3		
10	16QAM	25	25	18.17	18.16	18.16					
10	16QAM	50	0	18.16	18.14	18.16					
10	25QAM	1	0	18.56	18.51	18.57		18	5		
10	25QAM	1	25	18.45	18.48	18.48					
10	25QAM	1	49	18.51	18.53	18.52					
10	25QAM	25	0	18.48	18.48	18.47					
10	25QAM	25	12	18.53	18.53	18.53		18	5		
10	25QAM	25	25	18.49	18.50	18.54					
10	25QAM	50	0	18.44	18.42	18.47					
Channel											
Frequency [MHz]											
5	QPSK	1	0	21.60	21.60	21.51		23	0		
5	QPSK	1	12	21.48	21.53	21.55					
5	QPSK	1	24	21.59	21.55	21.59					
5	QPSK	12	0	20.59	20.63	20.69					
5	QPSK	12	7	20.60	20.48	20.67		22	1		
5	QPSK	12	13	20.61	20.62	20.60					
5	QPSK	25	0	20.58	20.59	20.59					
5	16QAM	1	0	20.54	20.58	20.55					
5	16QAM	1	12	20.55	20.59	20.60		22	1		
5	16QAM	1	24	20.58	20.63	20.63					
5	16QAM	12	0	19.60	19.64	19.63					
5	16QAM	12	7	19.67	19.70	19.68		21	2		
5	16QAM	12	13	19.65	19.64	19.63					
5	16QAM	25	0	19.59	19.63	19.65					
5	16QAM	1	0	19.26	19.28	19.27		21	2		
5	16QAM	1	12	19.32	19.27	19.35					
5	16QAM	1	24	19.29	19.28	19.35					
5	16QAM	12	0	18.15	18.15	18.15		20	3		
5	16QAM	12	7	18.15	18.15	18.15					
5	16QAM	12	13	18.15	18.17	18.18					
5	16QAM	25	0	18.16	18.14	18.16					
5	25QAM	1	0	18.50	18.48	18.47		18	5		
5	25QAM	1	12	18.45	18.42	18.41					
5	25QAM	1	24	18.45	18.43	18.42					
5	25QAM	12	0	18.52	18.51	18.50					
5	25QAM	12	7	18.51	18.56	18.52		18	5		
5	25QAM	12	13	18.42	18.48	18.47					
5	25QAM	25	0	18.52	18.47	18.54					
Channel											
Frequency [MHz]											
1.4	QPSK	1	0	21.47	21.50	21.58		23	0		
1.4	QPSK	1	8	21.60	21.61	21.60					
1.4	QPSK	1	14	21.46	21.53	21.54					
1.4	QPSK	8	0	20.54	20.62	20.60					
1.4	QPSK	8	4	20.62	20.63	20.60		22	1		
1.4	QPSK	8	7	20.55	20.57	20.64					
1.4	QPSK	15	0	20.58	20.65	20.68					
1.4	16QAM	1	0	20.59	20.58	20.68					
1.4	16QAM	1	8	20.62	20.70	20.67		22	1		
1.4	16QAM	1	14	20.58	20.69	20.67					
1.4	16QAM	8	0	19.61	19.66	19.65					
1.4	16QAM	8	4	19.63	19.69	19.68		21	2		
1.4	16QAM	8	7	19.62	19.66	19.67					
1.4	16QAM	15	0	19.63	19.69	19.67					
1.4	16QAM	1	0	19.53	19.53	19.59					
1.4	16QAM	1	8	19.57	19.61	19.59		21	2		
1.4	16QAM	1	14	19.58	19.54	19.62					
1.4	16QAM	8	0	18.36	18.36	18.39					
1.4	16QAM	8	4	18.41	18.47	18.44		20	3		
1.4	16QAM	8	7	18.37	18.42	18.42					
1.4	16QAM	15	0	18.37	18.43	18.45					
1.4	25QAM	1	0	18.57	18.54	18.61					
1.4	25QAM	1	8	18.58	18.70	18.54		18	5		
1.4	25QAM	1	14	18.54	18.52	18.58					
1.4	25QAM	8	0	18.53	18.59	18.55					
1.4	25QAM	8	4	18.60	18.70	18.69		18	5		
1.4	25QAM	8	7	18.55	18.46	18.53					
1.4	25QAM	15	0	18.58	18.74	18.72					
Channel											
Frequency [MHz]											
1.4	QPSK	1	0	21.53	21.59	21.58		23	0		
1.4	QPSK	1	3	21.46	21.51	21.54					
1.4	QPSK	1	5	21.51	21.41	21.45					
1.4	QPSK	3	1	21.46	21.48	21.42					
1.4	QPSK	3	1	21.47	21.53	21.47					
1.4	QPSK	3	3	21.39	21.46	21.48					
1.4	QPSK	6	0	20.50	20.58	20.55		23	1		
1.4	16QAM	1	0	20.44	20.45	20.48					
1.4	16QAM	1	3	20.35	20.38	20.37					
1.4	16QAM	1	5	20.43	20.32	20.49		22	1		
1.4	16QAM	3	0	20.30	20.28	20.27					
1.4	16QAM	3	1	20.31	20.36	20.37					
1.4	16QAM	3	3	20.21	20.31	20.27					
1.4	16QAM	6	0	19.67	19.61	19.61		21	2		
1.4	16QAM	1	0	19.44	19.38	19.39					
1.4	16QAM	1	3	19.53	19.51	19.59					
1.4	16QAM	1	6	19.48	19.47	19.52		21	2		
1.4	16QAM	3	0	19.31	19.34	19.33					
1.4	16QAM	3	1	19.35	19.45	19.42					
1.4	16QAM	3	3	19.32	19.37	19.36					
1.4	16QAM	6	0	18.32	18.32	18.34		20	3		
1.4	25QAM	1	0	18.59	18.50	18.47					
1.4	25QAM	1	3	18.59	18.54	18.49					
1.4	25QAM	1	5	18.34	18.40	18.43		18	5		
1.4	25QAM	3	0	18.48	18.49	18.44					
1.4	25QAM	3	1	18.40	18.59	18.44					
1.4	25QAM	3	3	18.46	18.54	18.48					
1.4	25QAM	6	0	18.47	18.51	18.59		18	5		

Band 17 (700MHz Band)											
Part 27(only on channel required)											
RF [MHz]	Modulation	RB Size	RB Offset	Channel	Power Low Ch. Freq. [MHz]	Power Mid Ch. Freq. [MHz]	Power High Ch. Freq. [MHz]	Tune-Up [dBm]	MPR [dB]		
Channel											
Frequency [MHz]											
10	QPSK	1	0	21.55	21.55	21.43					
10	QPSK	1	25	21.46	21.45	21.49		23	0		
10	QPSK	1	49	21.58	21.50	21.49					
10	QPSK	25	0	20.51	20.87	20.51					
10	QPSK	25	12	20.84	20.84	20.89		22	1		
10	QPSK	25	25	20.85	20.85	20.85					
10	QPSK	50	0	20.82	20.86	20.83					
10	16QAM	1	0	20.54	20.57	20.57					
10	16QAM	1	25	20.53	20.56	20.53		22	1		
10	16QAM	1	49	20.59	20.75	20.65					
10	16QAM	25	0	19.63	19.62	19.65					
10	16QAM	25	12	19.62	19.70	19.70		21	2		
10	16QAM	25	25	19.63	19.68	19.68					
10	16QAM	50	0	19.70	19.73	19.73					
10	16QAM	50	0	19.62	19.62	19.64					
10	16QAM	1	0	19.93	19.99	19.99					
10	16QAM	1	25	19.92	19.97	19.97		21	2		
10	16QAM	1	49	19.84	19.85	19.74					
10	16QAM	25	0	18.53	18.54	18.55					
10	16QAM	25	12	18.57	18.60	18.61					
10	16QAM	25	25	18.63	18.65	18.66					
10	16QAM	50	0	18.66	18.66	18.66					
10	16QAM	1	0	18.95	18.91	18.94					
10	16QAM	1	25	18.91	18.48	18.58		18	5		
10	16QAM	1	49	18.53	18.53	18.55					
10	16QAM	25	0	16.43	16.43	16.43					
10	16QAM	25	12	16.44	16.53	16.52		18	5		
10	16QAM	25	25	16.48	16.52	16.51					
Channel					21.65						
Frequency [MHz]					719.5	719.5	719.5	Tune-Up [dBm]	MPR [dB]		
5	QPSK	1	0	21.45	21.45	21.45					
5	QPSK	1	12	21.47	21.52	21.54		23	0		
5	QPSK	1	25	21.49	21.53	21.47					
5	QPSK	12	0	20.52	20.54	20.57					
5	QPSK	12	12	20.83	20.83	20.85					
5	QPSK	12	25	20.88	20.85	20.85					
5	QPSK	25	0	20.87	20.81	20.81					
5	16QAM	1	0	20.54	20.54	20.54					
5	16QAM	1	12	20.51	20.52	20.58					
5	16QAM	1	24	20.51	20.70	20.64					
5	16QAM	12	0	19.53	19.57	19.57					
5	16QAM	12	7	19.55	19.65	19.64		21	2		
5	16QAM	17	13	19.61	19.82	19.84					
5	16QAM	1	0	19.81	19.84	19.85					
5	16QAM	1	0	19.65	19.70	19.72					
5	16QAM	1	12	19.62	19.70	19.68					
5	16QAM	1	25	19.74	19.65	19.73					
5	16QAM	12	0	18.54	18.56	18.61					
5	16QAM	12	12	18.57	18.63	18.63					
5	16QAM	12	13	18.59	18.66	18.65					
5	16QAM	25	0	18.90	18.95	18.90					
5	16QAM	25	12	18.95	19.08	19.04					
5	16QAM	1	12	18.45	18.43	18.45		18	5		
5	16QAM	1	24	18.42	18.41	18.46					
5	16QAM	1	25	18.58	18.58	18.58					
5	16QAM	12	7	18.42	18.45	18.42					
5	16QAM	1	0	18.65	18.67	18.67					
5	16QAM	25	0	18.43	18.42	18.41					

Band 38(only on channel required)									
BW [MHz]	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	22.53	22.77	22.52	23.5	0	
20	QPSK	1	49	22.66	22.69	22.67			
20	QPSK	1	99	22.65	22.63	22.65			
20	QPSK	50	0	21.77	21.89	21.71	22.5	1	
20	QPSK	50	24	21.75	21.75	21.68			
20	QPSK	50	50	21.79	21.84	21.88			
20	QPSK	100	0	21.67	21.80	21.65	22.5	1	
20	16QAM	1	0	21.69	21.72	21.89			
20	16QAM	1	49	21.82	21.73	21.86			
20	16QAM	1	99	21.70	21.86	21.78	21.5	2	
20	16QAM	50	0	20.71	20.80	20.71			
20	16QAM	50	24	20.80	20.67	20.75			
20	16QAM	50	50	20.82	20.84	20.91	21.5	2	
20	16QAM	100	0	20.71	20.81	20.67			
20	64QAM	1	0	20.85	20.75	20.82			
20	64QAM	1	49	20.67	20.75	20.85	21.5	2	
20	64QAM	1	99	20.76	20.90	20.83			
20	64QAM	50	0	19.86	19.84	19.94			
20	64QAM	50	24	19.85	20.05	19.94	20.5	3	
20	64QAM	50	50	19.99	19.99	19.98			
20	64QAM	100	0	20.10	20.03	19.93			
20	256QAM	1	0	17.54	17.79	17.59	18.5	5	
20	256QAM	1	49	17.73	17.65	17.74			
20	256QAM	1	99	17.67	17.69	17.70			
20	256QAM	50	0	16.71	16.96	16.67	18.5	5	
20	256QAM	50	24	16.85	16.77	16.61			
20	256QAM	50	50	16.69	16.74	16.90			
20	256QAM	100	0	16.60	16.72	16.69	Tune-up limit (dBm)	MPR (dB)	
Channel				37825	38000	38175			
Frequency (MHz)				2571.5	2595	2612.5			
15	QPSK	1	0	22.67	22.66	22.59	23.5	0	
15	QPSK	1	37	22.58	22.80	22.54			
15	QPSK	1	74	22.59	22.65	22.72			
15	QPSK	36	0	21.62	21.74	21.74	22.5	1	
15	QPSK	36	20	21.79	21.79	21.71			
15	QPSK	36	39	21.76	21.78	21.69			
15	QPSK	75	0	21.82	21.67	21.67	22.5	1	
15	16QAM	1	0	21.86	21.69	21.65			
15	16QAM	1	37	21.44	21.80	21.65			
15	16QAM	1	74	21.63	21.80	21.88	21.5	2	
15	16QAM	36	0	20.73	20.68	20.70			
15	16QAM	36	20	20.73	20.84	20.63			
15	16QAM	36	39	20.80	20.80	20.71	21.5	2	
15	16QAM	75	0	20.81	20.65	20.73			
15	64QAM	1	0	20.82	20.80	20.62			
15	64QAM	1	37	20.80	20.73	20.90	21.5	2	
15	64QAM	1	74	20.82	20.75	20.74			
15	64QAM	36	0	19.92	19.98	19.99			
15	64QAM	36	20	20.01	20.02	19.95	20.5	3	
15	64QAM	36	39	20.04	20.08	20.03			
15	64QAM	75	0	20.11	20.05	20.02			
15	256QAM	1	0	17.79	17.66	17.70	18.5	5	
15	256QAM	1	37	17.61	17.67	17.55			
15	256QAM	1	74	17.53	17.58	17.66			
15	256QAM	36	0	16.63	16.79	16.83	18.5	5	
15	256QAM	36	20	16.76	16.89	16.83			
15	256QAM	36	39	16.83	16.76	16.75			
15	256QAM	75	0	16.91	16.83	16.58	Tune-up limit (dBm)	MPR (dB)	
Channel				37800	38000	38200			
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	22.65	22.71	22.61	23.5	0	
10	QPSK	1	25	22.59	22.66	22.65			
10	QPSK	1	49	22.67	22.72	22.67			
10	QPSK	25	0	21.70	21.76	21.75	22.5	1	
10	QPSK	25	12	21.76	21.82	21.78			
10	QPSK	25	25	21.84	21.80	21.80			
10	QPSK	50	0	21.79	21.77	21.78	22.5	1	
10	16QAM	1	0	21.87	21.76	21.83			
10	16QAM	1	25	21.78	21.74	21.82			
10	16QAM	1	49	21.85	21.86	21.80	21.5	2	
10	16QAM	25	0	20.69	20.77	20.68			
10	16QAM	25	12	20.82	20.81	20.86			
10	16QAM	25	25	20.79	20.80	20.80	21.5	2	
10	16QAM	50	0	20.84	20.82	20.94			
10	64QAM	1	0	20.76	21.11	20.86		21.5	2
10	64QAM	1	25	20.76	20.96	20.86			
10	64QAM	1	49	20.75	20.87	20.76	20.5	3	
10	64QAM	25	0	19.99	19.92	19.88			
10	64QAM	25	12	19.98	20.07	20.04			
10	64QAM	25	25	19.99	20.05	20.07	18.5	5	
10	64QAM	50	0	20.03	20.01	20.02			
10	256QAM	1	0	17.83	17.50	17.58			
10	256QAM	1	25	17.19	18.02	17.44	18.5	5	
10	256QAM	1	49	17.50	17.57	17.30			
10	256QAM	25	0	16.36	16.52	16.36			
10	256QAM	25	12	16.55	16.72	16.79	18.5	5	
10	256QAM	25	25	17.17	17.09	17.08			
10	256QAM	50	0	17.27	16.75	16.54			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	22.76	22.66	22.59	23.5	0	
5	QPSK	1	12	22.63	22.63	22.61			
5	QPSK	1	24	22.53	22.68	22.72			
5	QPSK	12	0	21.78	21.77	21.76	22.5	1	
5	QPSK	12	7	21.77	21.86	21.88			
5	QPSK	12	13	21.76	21.84	21.76			
5	QPSK	25	0	21.74	21.83	21.83	22.5	1	
5	16QAM	1	0	21.82	21.83	21.84			
5	16QAM	1	12	21.81	21.84	21.74			
5	16QAM	1	24	21.81	21.88	21.85	21.5	2	
5	16QAM	12	0	20.75	20.71	20.75			
5	16QAM	12	7	20.76	20.81	20.82			
5	16QAM	12	13	20.65	20.79	20.81	21.5	2	
5	16QAM	25	0	20.80	20.83	20.93			
5	64QAM	1	0	20.85	20.77	20.78		21.5	2
5	64QAM	1	12	20.80	20.90	20.91			
5	64QAM	1	24	20.74	20.90	20.86			
5	64QAM	12	0	20.03	19.97	19.99	20.5	3	
5	64QAM	12	7	19.96	20.08	20.07			
5	64QAM	12	13	19.93	20.04	20.06			
5	256QAM	25	0	20.05	20.02	20.03	18.5	5	
5	256QAM	1	0	17.95	17.19	17.88			
5	256QAM	1	12	17.97	17.61	17.95			
5	256QAM	1	24	17.28	17.80	17.23	18.5	5	
5	256QAM	12	0	16.76	16.89	17.17			
5	256QAM	12	7	16.85	16.76	17.07			
5	256QAM	12	13	16.43	17.07	16.63	Tune-up limit (dBm)	MPR (dB)	
5	256QAM	25	0	17.17	16.56	17.28			

Band 41 (2.6G Band)												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low-Mid 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	22.76	22.64	22.87	22.72	22.72	23.5	0		
20	QPSK	1	0	22.69	22.63	22.63	22.69	22.67				
20	QPSK	1	99	22.67	22.64	22.50	22.81	22.76				
20	QPSK	50	0	21.81	21.76	21.76	21.81	21.85				
20	QPSK	50	24	21.87	21.77	21.75	21.83	21.80				
20	QPSK	50	50	21.77	21.85	21.67	21.85	21.87	22.5	1		
20	QPSK	100	0	21.86	21.81	21.87	21.76	21.80				
20	16QAM	1	0	21.74	21.87	21.72	21.91	21.78			22.5	1
20	16QAM	1	49	21.73	21.72	21.74	21.84	21.83				
20	16QAM	1	99	21.84	21.79	21.81	21.86	21.94				
20	16QAM	50	0	20.86	20.79	20.71	20.85	20.77				
20	16QAM	50	24	20.85	20.76	20.70	20.88	20.92				
20	16QAM	50	50	20.87	20.82	20.67	20.91	20.88	21.5	2		
20	16QAM	100	0	20.86	20.81	20.74	20.90	20.75				
20	16QAM	1	49	20.74	20.79	20.77	20.87	20.87				
20	16QAM	1	99	20.76	20.74	20.57	20.81	20.77				
20	16QAM	1	99	20.83	20.85	20.65	20.80	20.94				
20	64QAM	50	0	19.92	19.99	19.78	19.98	19.95	20.5	3		
20	64QAM	50	24	19.92	19.86	19.99	20.06	19.98				
20	64QAM	50	50	19.96	20.00	19.93	20.07	19.87				
20	64QAM	100	0	20.11	20.00	20.00	20.07	19.98				
20	256QAM	1	0	17.87	17.75	17.98	17.82	17.65				
20	256QAM	1	49	17.64	17.58	17.62	17.70	17.58	18.5	5		
20	256QAM	1	99	17.71	17.74	17.48	17.79	17.69				
20	256QAM	50	0	16.74	16.88	16.89	16.87	16.88				
20	256QAM	50	24	16.85	16.89	16.85	16.87	16.81				
20	256QAM	50	50	16.87	16.76	16.87	16.87	16.87				
20	256QAM	100	0	16.78	16.77	16.82	16.74	16.81	Tune-up limit (dBm)	MPR (dB)		
Channel				39725	40173	40620	41068	41515				
Frequency (MHz)				2503.5	2546.3	2593.7	2637.6	2682.5				
15	QPSK	1	0	22.56	22.65	22.65	22.76	22.64	23.5	0		
15	QPSK	1	37	22.63	22.63	22.67	22.67	22.64				
15	QPSK	1	74	22.67	22.75	22.84	22.75	22.64				
15	QPSK	36	0	21.85	21.88	21.75	21.88	21.88				
15	QPSK	36	20	21.76	21.76	21.81	21.89	21.75				
15	QPSK	36	39	21.79	21.79	21.82	21.90	21.79	22.5	1		
15	QPSK	75	0	21.86	21.79	21.88	21.90	21.87				
15	16QAM	1	0	21.70	21.87	21.77	21.87	21.91				
15	16QAM	1	37	21.76	21.88	21.60	21.85	21.82				
15	16QAM	1	74	21.91	21.75	21.98	22.00	21.89				
15	16QAM	36	0	20.82	20.79	20.72	20.72	20.75	21.5	2		
15	16QAM	36	20	20.78	20.73	20.74	20.83	20.79				
15	16QAM	36	39	20.76	20.83	20.85	20.87	20.73				
15	16QAM	75	0	20.86	20.72	20.85	20.88	20.83				
15	16QAM	1	0	20.70	20.75	20.70	20.75	20.84				
15	64QAM	1	37	20.90	20.88	20.82	20.88	20.73	21.5	2		
15	64QAM	1	74	20.83	20.93	20.90	20.93	20.78				
15	64QAM	36	0	20.00	20.00	20.04	20.03	20.06				
15	64QAM	36	20	20.03	20.08	20.08	20.08	20.05				
15	64QAM	36	39	19.99	20.04	20.12	20.09	20.04				
15	64QAM	75	0	19.96	19.96	20.08	20.11	20.10	18.5	5		
15	64QAM	1	0	17.77	17.43	17.22	18.01	17.61				
15	64QAM	1	37	17.64	17.78	17.86	18.08	17.67				
15	64QAM	1	74	17.64	17.58	17.47	17.83	18.02				
15	64QAM	36	0	17.02	16.40	16.87	16.80	17.34				
15	64QAM	36	20	16.89	17.01	16.42	17.27	16.33	18.5	5		
15	64QAM	36	39	16.69	16.40	16.78	16.90	16.99				
15	64QAM	75	0	16.86	17.11	17.30	16.78	17.03				
Channel				39700	40100	40620	41080	41540				
Frequency (MHz)				2497.5	2545.7	2593.7	2640.3	2687.5				
10	QPSK	1	0	22.75	22.55	22.68	22.77	22.81	23.5	0		
10	QPSK	1	25	22.72	22.59	22.76	22.86	22.87				
10	QPSK	1	49	22.77	22.68	22.79	22.84	22.69				
10	QPSK	25	0	21.83	21.56	21.73	21.84	21.89				
10	QPSK	25	12	21.80	21.70	21.89	21.87	21.91				
10	QPSK	25	25	21.78	21.70	21.87	21.87	21.83	22.5	1		
10	QPSK	50	0	21.85	21.75	21.93	21.84	21.92				
10	16QAM	1	0	21.86	21.65	21.84	21.87	21.90				
10	16QAM	1	25	21.83	21.68	21.93	21.90	21.85				
10	16QAM	1	49	21.84	21.63	21.90	21.86	21.80				
10	16QAM	25	0	20.80	20.56	20.72	20.80	20.83	21.5	2		
10	16QAM	25	12	20.89	20.72	20.89	20.91	20.84				
10	16QAM	25	25	20.85	20.60	20.87	20.90	20.83				
10	16QAM	50	0	20.88	20.73	20.91	20.97	20.84				
10	64QAM	1	0	20.88	20.87	20.97	20.77	20.89				
10	64QAM	1	25	20.73	20.11	20.85	20.10	20.78	21.5	2		
10	64QAM	1	49	21.11	20.71	20.87	20.10	20.75				
10	64QAM	25	0	20.04	19.79	20.14	20.13	20.11				
10	64QAM	25	12	20.07	19.96	19.87	19.84	20.09				
10	64QAM	25	25	20.05	19.87	20.06	20.13	20.09				
10	64QAM	50	0	20.07	19.93	20.11	20.11	20.09	18.5	5		
10	256QAM	1	0	16.86	17.47	18.04	16.82	17.91				
10	256QAM	1	25	17.46	18.00	18.05	18.10	17.30				
10	256QAM	1	49	17.72	17.63	17.64	17.90	17.31				
10	256QAM	25	0	16.34	16.58	16.96	16.88	16.74				
10	256QAM	25	12	17.22	16.22	16.86	17.28	17.17	18.5	5		
10	256QAM	25	25	16.81	17.02	16.68	17.35	16.57				
10	256QAM	50	0	16.57	16.47	16.86	16.66	16.45				
Channel				39675	40148	40620	41053	41565				
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5				
5	QPSK	1	0	22.72	22.53	22.65	22.71	22.73	23.5	0		
5	QPSK	1	12	22.75	22.54	22.84	22.81	22.65				
5	QPSK	1	24	22.73	22.58	22.75	22.76	22.66				
5	QPSK	12	0	21.88	21.67	21.86	21.84	21.84				
5	QPSK	12	13	21.86	21.72	21.86	21.97	21.83				
5	QPSK	12	13	21.80	21.68	21.90	21.86	21.81	22.5	1		
5	QPSK	25	0	21.89	21.72	21.86	21.93	21.78				
5	16QAM	1	0	21.87	21.62	21.77	21.90	21.85				
5	16QAM	1	24	21.82	21.66	21.87	21.97	21.88				
5	16QAM	1	24	21.85	21.74	22.00	21.95	21.83				
5	16QAM	12	0	20.79	20.61	20.91	20.85	20.82	21.5	2		
5	16QAM	12	7	20.86	20.76	20.85	20.91	20.82				
5	16QAM	12	13	20.80	20.67	20.84	20.91	20.83				
5	16QAM	25	0	20.62	20.69	20.86	21.00	20.85				
5	16QAM	25	0	20.88	20.66	20.86	20.92	20.88				
5	64QAM	1	12	20.82	20.66	20.94	21.00	20.87	20.5	3		
5	64QAM	1	24	20.87	20.73	20.88	20.89	20.83				
5	64QAM	12	0	20.03	19.85	20.13	20.08	20.05				
5	64QAM	12	7	20.07	19.91	20.08	20.14	20.05				
5	64QAM	12	13	20.05	19.90	20.06	20.14	20.01				
5	256QAM	28	0	20.04	19.47	19.96	20.06	19.97	18.5	5		
5	256QAM	1	0	17.80	17.47	17.62	17.77	17.31				
5	256QAM	1	12	18.10	17.12	17.33	17.48	18.14				
5	256QAM	1	24	17.96	17.65	18.07	18.15	17.29				
5	256QAM	12	0	17.34	16.44	16.71	16.78	17.29				
5	256QAM	12	7	16.47	16.27	17.05	16.86	16.77	18.5	5		
5	256QAM	12	13	17.25	16.45	16.54	17.05	17.21				
5	256QAM	25	0	16.65	16.29	17.10	17.10	16.98				

Full Power for ANT4									
GSM1900		Band Average Power (dBm)			Frame Average Power (dBm)			Tune-up Limit (dBm)	
TX Channel		512	661	810	Tune-up Limit			Tune-up Limit	
Frequency (MHz)		1850.2	1880	1909.8	1850.2			1850.8	
GSM 1 Tx slot		29.36	29.60	29.50	30.50	20.36	20.60	20.50	21.50
GPRS 1 Tx slot		29.35	29.59	29.49	30.50	20.35	20.59	20.49	21.50
GPRS 2 Tx slots		26.11	26.60	26.44	27.00	20.11	20.60	20.44	21.00
GPRS 3 Tx slots		24.64	24.77	24.68	25.50	20.38	20.51	20.42	21.24
GPRS 4 Tx slots		23.19	23.43	23.17	24.50	20.19	20.43	20.17	21.50
EDGE 1 Tx slot		25.66	25.67	25.54	27.00	18.66	18.67	18.54	19.00
EDGE 2 Tx slots		22.34	22.12	22.21	23.00	16.34	16.12	16.21	17.00
EDGE 3 Tx slots		20.21	20.25	20.20	21.00	15.95	15.99	15.94	16.74
EDGE 4 Tx slots		18.28	18.52	18.28	19.00	15.28	15.52	15.28	16.00

Band		WCDMA II			WCDMA IV			Tune-up Limit (dBm)	
TX Channel		9262	9400	9538	Tune-up Limit			Tune-up Limit	
RX Channel		9682	9800	9838	1312			1413	
Frequency (MHz)		1852.4	1880	1907.8	1712.4			1732.6	
3GPP Rel 99 AMR 12.2Kbps		24.17	24.19	24.12	25.00	24.10	24.09	24.09	25.00
3GPP Rel 99 RMC 12.2Kbps		24.20	24.21	24.13	25.00	24.13	24.14	24.12	25.00
3GPP Rel 6 HSDPA Subtest-1		23.01	23.16	23.12	24.00	23.09	23.08	23.13	24.00
3GPP Rel 6 HSDPA Subtest-2		23.04	23.16	23.12	24.00	23.09	23.11	23.12	24.00
3GPP Rel 6 HSDPA Subtest-3		22.56	22.65	22.63	23.50	22.59	22.57	22.64	23.50
3GPP Rel 6 HSDPA Subtest-4		22.56	22.63	22.64	23.50	22.60	22.61	22.64	23.50
3GPP Rel 8 DC-HSDPA Subtest-1		22.36	23.13	23.08	24.00	23.05	23.04	23.11	24.00
3GPP Rel 8 DC-HSDPA Subtest-2		23.02	23.13	23.08	24.00	23.06	23.07	23.10	24.00
3GPP Rel 8 DC-HSDPA Subtest-3		22.54	22.62	22.59	23.50	22.56	22.53	22.62	23.50
3GPP Rel 8 DC-HSDPA Subtest-4		22.54	22.60	22.60	23.50	22.57	22.57	22.62	23.50
3GPP Rel 6 HSUPA Subtest-1		23.05	23.13	23.08	24.00	23.06	23.09	23.08	24.00
3GPP Rel 6 HSUPA Subtest-2		21.04	21.12	21.09	22.00	21.06	21.12	21.08	22.00
3GPP Rel 6 HSUPA Subtest-3		22.03	22.13	22.09	23.00	22.07	22.08	22.09	23.00
3GPP Rel 6 HSUPA Subtest-4		21.05	21.11	21.08	22.00	21.12	21.07	21.09	22.00
3GPP Rel 6 HSUPA Subtest-5		23.05	23.15	23.15	24.00	23.05	23.05	23.05	24.00

Band 2 (1900MHz Band)										
Part 24E										
BW (kHz)	Modulation	RB Size	RB Offset	Channel	Power Low Ch. Offset	Power High Ch. Offset	Power Low Ch. Offset	Power High Ch. Offset	Time-up (min)	MPE (dB)
Frequency (MHz)										
20	QPSK	1	0	24.38	24.40	24.33			25.5	0
20	QPSK	1	48	24.31	24.24	24.28				
20	QPSK	1	96	24.22	24.18	24.26				
20	QPSK	50	0	23.38	23.33	23.38				
20	QPSK	50	24	23.30	23.43	23.48			24.5	1
20	QPSK	50	50	23.17	23.48	23.43				
20	QPSK	100	0	22.47	22.46	22.48				
20	QPSK	1	48	22.37	22.35	22.32			24.5	1
20	QPSK	1	96	22.35	22.35	22.35				
20	QPSK	1	50	22.53	22.51	22.54				
20	QPSK	50	0	22.43	22.37	22.40				
20	QPSK	50	24	22.31	22.45	22.47			23.5	2
20	QPSK	50	50	22.47	22.41	22.47				
20	QPSK	1	0	22.69	22.66	22.64			23.5	2
20	QPSK	1	48	22.55	22.46	22.52				
20	QPSK	1	96	22.53	22.47	22.55				
20	QPSK	50	0	21.49	21.37	21.38			22.5	3
20	QPSK	50	24	21.51	21.45	21.50				
20	QPSK	50	50	21.46	21.45	21.47				
20	QPSK	100	0	21.30	21.41	21.38				
20	QPSK	1	48	19.38	19.29	19.29			20.5	5
20	QPSK	1	96	19.35	19.30	19.33				
20	QPSK	50	0	19.30	19.31	19.32				
20	QPSK	50	24	18.44	18.48	18.53			20.5	5
20	QPSK	50	50	18.48	18.48	18.50				
20	QPSK	100	0	18.47	18.53	18.49				
Channel										
Frequency (MHz)	Channel	Power Low Ch. Offset	Power High Ch. Offset	Power Low Ch. Offset	Power High Ch. Offset	Power Low Ch. Offset	Power High Ch. Offset	Power Low Ch. Offset	Power High Ch. Offset	Power Low Ch. Offset
16	QPSK	1	0	24.14	24.34	24.33			25.5	0
16	QPSK	1	37	24.18	24.27	24.30				
16	QPSK	1	74	24.31	24.24	24.30				
16	QPSK	38	0	23.32	23.48	23.38				
16	QPSK	38	24	23.38	23.43	23.37			24.5	1
16	QPSK	38	38	23.48	23.43	23.47				
16	QPSK	75	0	23.43	23.43	23.37				
16	QPSK	1	0	23.44	23.45	23.42			24.5	1
16	QPSK	1	37	23.49	23.41	23.43				
16	QPSK	1	74	23.48	23.54	23.60				
16	QPSK	38	0	22.47	22.44	22.38			23.5	2
16	QPSK	38	20	22.49	22.47	22.48				
16	QPSK	38	38	22.47	22.42	22.48				
16	QPSK	75	0	22.30	22.45	22.41			23.5	2
16	QPSK	1	0	22.45	22.51	22.57				
16	QPSK	1	37	22.47	22.54	22.54			23.5	2
16	QPSK	1	74	22.51	22.51	22.53				
16	QPSK	38	0	21.49	21.45	21.48			22.5	3
16	QPSK	38	20	21.50	21.43	21.48				
16	QPSK	38	37	21.49	21.48	21.49				
16	QPSK	75	0	19.11	19.30	19.29			20.5	5
16	QPSK	1	0	19.11	19.30	19.29				
16	QPSK	1	74	19.30	19.22	19.31				
16	QPSK	38	0	18.29	18.48	18.42			20.5	5
16	QPSK	38	20	18.26	18.41	18.46				
16	QPSK	38	38	18.43	18.43	18.42				
16	QPSK	75	0	18.45	18.42	18.38				
Channel										
Frequency (MHz)	Channel	Power Low Ch. Offset	Power High Ch. Offset	Power Low Ch. Offset	Power High Ch. Offset	Power Low Ch. Offset	Power High Ch. Offset	Power Low Ch. Offset	Power High Ch. Offset	Power Low Ch. Offset
5	QPSK	1	0	24.34	24.35	24.35			25.5	0
5	QPSK	1	37	24.35	24.30	24.30				
5	QPSK	1	74	24.37	24.31	24.32				
5	QPSK	38	0	23.72	23.75	23.74			24.5	1
5	QPSK	38	24	23.75	23.77	23.67				
5	QPSK	38	38	23.69	23.67	23.67				
5	QPSK	75	0	23.73	23.75	23.68			24.5	1
5	QPSK	1	0	23.74	23.74	23.71				
5	QPSK	1	37	23.80	23.83	23.82			24.5	1
5	QPSK	1	74	23.74	23.74	23.77				
5	QPSK	38	0	22.76	22.74	22.68			23.5	2
5	QPSK	38	20	22.76	22.74	22.68				
5	QPSK	38	38	22.76	22.68	22.68				
5	QPSK	75	0	22.76	22.75	22.78			23.5	2
5	QPSK	1	0	22.84	22.86	22.89				
5	QPSK	1	37	22.79	22.81	22.81			23.5	2
5	QPSK	1	74	22.79	22.79	22.78				
5	QPSK	38	0	21.76	21.77	21.68			22.5	3
5	QPSK	38	20	21.71	21.68	21.68				
5	QPSK	38	38	21.76	21.75	21.68				
5	QPSK	75	0	19.58	19.65	19.55			20.5	5
5	QPSK	1	0	19.58	19.65	19.55				
5	QPSK	1	74	19.40	19.10	19.42				
5	QPSK	38	0	18.66	18.62	18.79			20.5	5
5	QPSK	38	20	18.65	18.64	18.79				
5	QPSK	38	38	18.74	18.66	18.67				
5	QPSK	75	0	18.71	18.67	18.74				
Channel										
Frequency (MHz)	Channel	Power Low Ch. Offset	Power High Ch. Offset	Power Low Ch. Offset	Power High Ch. Offset	Power Low Ch. Offset	Power High Ch. Offset	Power Low Ch. Offset	Power High Ch. Offset	Power Low Ch. Offset
1.4	QPSK	1	0	24.02	24.17	24.20			24.5	0
1.4	QPSK	1	6	24.07	24.28	24.26				
1.4	QPSK	1	9	24.02	24.20	24.26				
1.4	QPSK	3	0	23.97	24.17	24.20			24.5	0
1.4	QPSK	3	15	24.18	24.28	24.26				
1.4	QPSK	6	0	23.21	24.14	24.20			24.5	1
1.4	QPSK	6	9	23.25	24.26	24.24				
1.4	QPSK	1	0	23.25	24.26	24.24				
1.4	QPSK	1	9	23.25	24.26	24.24			24.5	1
1.4	QPSK	3	0	23.21	24.23	24.24				
1.4	QPSK	3	9	23.21	24.23	24.24				
1.4	QPSK	6	0	23.23	24.23	24.26			24.5	1
1.4	QPSK	6	9	23.23	24.23	24.26				
1.4	QPSK	1	0	22.40	24.21	24.21			24.5	2
1.4	QPSK	1	9	22.51	24.24	24.21				
1.4	QPSK	3	0	22.47	24.23	24.21			23.5	2
1.4	QPSK	3	9	22.47	24.23	24.21				
1.4	QPSK	6	0	21.85	24.32	24.38			22.5	3
1.4	QPSK	6	9	21.85	24.32	24.38				
1.4	QPSK	1	0	19.03	19.30	19.34				
1.4	QPSK	1	9	19.04	19.21	19.25			20.5	5
1.4	QPSK	3	0	19.03	19.30	19.34				
1.4	QPSK	3	9	19.21	19.30	19.31				
1.4	QPSK	6	0	18.11	18.16	18.24			20.5	5
1.4	QPSK	6	9	18.11	18.16	18.24				

Band 66										
Ref ID	Modulation	Ref ID	Ref ID	Power Low Ch. (W)	Power Mean Ch. (W)	Power High Ch. (W)	Power High Ch. (W)	Power High Ch. (W)	Power High Ch. (W)	Power High Ch. (W)
Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
20	QPSK	1	0	24.43	24.46	24.51				
20	QPSK	1	40	24.52	24.54	24.58	25.5	0		
20	QPSK	1	80	24.55	24.58	24.58				
20	QPSK	50	0	23.72	23.76	23.80				
20	QPSK	50	24	23.78	23.81	23.85	24.5	1		
20	QPSK	50	50	23.71	23.78	23.82				
20	QPSK	100	0	23.77	23.78	23.82				
20	QPSK	1	0	23.75	23.75	23.81				
20	QPSK	1	40	23.58	23.54	23.74	24.5	1		
20	QPSK	1	50	23.88	23.89	23.81				
20	QPSK	50	0	22.75	22.80	22.82				
20	QPSK	50	24	22.80	22.83	22.85	23.5	2		
20	QPSK	50	50	22.72	22.80	22.88				
20	QPSK	100	0	22.75	22.80	22.81				
20	QPSK	1	0	22.88	22.88	22.87				
20	QPSK	1	40	22.85	22.85	22.87	23.5	2		
20	QPSK	1	50	22.89	22.87	22.84				
20	QPSK	50	0	21.64	21.38	21.43				
20	QPSK	50	24	21.58	21.48	21.44				
20	QPSK	50	50	21.63	21.41	21.38	23.5	3		
20	QPSK	100	0	21.58	21.44	21.43				
20	QPSK	1	0	19.54	19.50	19.58				
20	QPSK	1	40	19.70	19.68	19.24	20.5	5		
20	QPSK	1	80	19.84	19.57	19.38				
20	QPSK	50	0	19.32	19.04	18.97				
20	QPSK	50	24	19.07	18.81	18.74				
20	QPSK	50	50	18.99	18.77	18.31	20.5	5		
20	QPSK	100	0	18.81	18.53	18.72				
Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
15	QPSK	1	0	24.59	24.58	24.48				
15	QPSK	1	30	24.55	24.54	24.53	25.5	0		
15	QPSK	1	50	24.52	24.45	24.22				
15	QPSK	30	0	23.88	23.80	23.44				
15	QPSK	30	30	23.71	23.63	23.38	24.5	1		
15	QPSK	30	50	23.67	23.62	23.38				
15	QPSK	75	0	23.69	23.58	23.38				
15	QPSK	1	0	23.32	23.88	23.75				
15	QPSK	1	30	23.33	23.89	23.65	24.5	1		
15	QPSK	1	50	23.85	23.78	23.58				
15	QPSK	30	0	22.83	22.82	22.42				
15	QPSK	30	20	22.73	22.81	22.42	23.5	2		
15	QPSK	30	50	22.85	22.88	22.38				
15	QPSK	75	0	22.71	22.58	22.38				
15	QPSK	1	0	22.70	22.68	22.35				
15	QPSK	1	30	22.75	22.88	22.50	23.5	2		
15	QPSK	30	0	21.86	21.85	21.38				
15	QPSK	30	20	21.82	21.51	21.37	22.5	3		
15	QPSK	30	50	21.87	21.51	21.28				
15	QPSK	75	0	21.81	21.48	21.30				
15	QPSK	1	0	19.85	19.48	19.38				
15	QPSK	1	30	19.82	19.48	19.23	20.5	5		
15	QPSK	1	50	19.82	19.48	19.23				
15	QPSK	30	0	18.84	18.59	18.51				
15	QPSK	30	20	18.85	18.84	18.37	20.5	5		
15	QPSK	30	50	18.84	18.54	18.42				
15	QPSK	75	0	18.78	18.43	18.22				
Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
10	QPSK	1	0	24.65	24.58	24.34				
10	QPSK	1	20	24.60	24.50	24.27	25.5	0		
10	QPSK	1	40	24.52	24.43	24.21				
10	QPSK	20	0	23.72	23.59	23.38				
10	QPSK	20	12	23.71	23.60	23.44	24.5	1		
10	QPSK	20	20	23.67	23.62	23.38				
10	QPSK	50	0	23.71	23.69	23.33				
10	QPSK	1	0	23.84	23.85	23.74				
10	QPSK	1	20	23.56	23.88	23.87	24.5	1		
10	QPSK	1	40	23.81	23.81	23.88				
10	QPSK	20	0	22.72	22.80	22.38				
10	QPSK	20	12	22.75	22.93	22.48	23.5	2		
10	QPSK	20	20	22.88	22.88	22.38				
10	QPSK	50	0	22.74	22.89	22.35				
10	QPSK	1	0	22.97	22.89	22.84				
10	QPSK	1	20	22.99	22.91	22.84	23.5	2		
10	QPSK	20	0	22.88	22.79	22.57				
10	QPSK	20	0	21.82	21.73	21.30				
10	QPSK	20	12	21.87	21.52	21.38	22.5	3		
10	QPSK	20	20	21.88	21.48	21.27				
10	QPSK	50	0	21.84	21.49	21.25				
10	QPSK	1	0	19.54	19.58	19.25				
10	QPSK	1	20	19.59	19.58	19.38	20.5	5		
10	QPSK	1	40	19.58	19.37	19.28				
10	QPSK	20	0	18.85	18.83	18.31				
10	QPSK	20	12	18.81	18.87	18.37	20.5	5		
10	QPSK	20	20	18.89	18.88	18.32				
Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
5	QPSK	1	0	24.24	24.51	24.53				
5	QPSK	1	12	24.22	24.57	24.57	25.5	0		
5	QPSK	1	24	24.18	24.47	24.25				
5	QPSK	12	0	23.28	23.80	23.41				
5	QPSK	12	7	23.18	23.81	23.41	24.5	1		
5	QPSK	12	15	23.18	23.63	23.38				
5	QPSK	20	0	23.24	23.58	23.38				
5	QPSK	1	0	23.57	23.83	23.83				
5	QPSK	1	12	23.58	23.92	23.80	24.5	1		
5	QPSK	1	24	23.54	23.85	23.58				
5	QPSK	12	7	22.86	22.83	22.45				
5	QPSK	12	7	22.89	22.82	22.42	23.5	2		
5	QPSK	12	15	22.87	22.81	22.41				
5	QPSK	20	0	22.23	22.82	22.38				
5	QPSK	1	0	22.83	22.85	22.48				
5	QPSK	1	12	22.82	22.71	22.42	23.5	2		
5	QPSK	1	24	22.83	22.84	22.37				
5	QPSK	12	0	21.75	21.49	21.34				
5	QPSK	12	7	21.85	21.51	21.37				
5	QPSK	12	15	21.49	21.52	21.38	22.5	3		
5	QPSK	20	0	21.12	21.50	21.31				
5	QPSK	1	0	19.28	19.27	19.31				
5	QPSK	1	12	19.12	19.50	19.45	20.5	5		
5	QPSK	1	24	19.35	19.48	19.24				
5	QPSK	12	0	18.38	18.62	18.41				
5	QPSK	12	7	18.12	18.54	18.32	20.5	5		
5	QPSK	12	15	18.52	18.53	18.48				
5	QPSK	20	0	18.22	18.68	18.39				
Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
3	QPSK	1	0	24.57	24.47	24.25				
3	QPSK	1	9	24.57	24.54	24.28	25.5	0		
3	QPSK	1	18	24.52	24.48	24.18				
3	QPSK	9	0	25.89	25.90	25.32				
3	QPSK	9	0	25.86	25.85	25.32	24.5	1		
3	QPSK	9	7	25.82	25.57	25.28				
3	QPSK	15	0	25.82	25.49	25.35				
3	QPSK	1	0	23.84	23.82	23.85				
3	QPSK	1	8	23.96	23.92	23.88	24.5	1		
3	QPSK	1	18	23.89	23.81	23.57				
3	QPSK	8	0	22.72	22.82	22.38				
3	QPSK	8	4	22.73	22.87	22.38	23.5	2		
3	QPSK	8	7	22.81	22.83	22.38				
3	QPSK	18	0	22.71	22.89	22.37				
3	QPSK	1	0	22.73	22.83	22.39				
3	QPSK	1	8	22.78	22.74	22.47	23.5	2		
3	QPSK	1	18	22.69	22.83	22.38				
3	QPSK	8	0	21.87	21.48	21.25				
3	QPSK	8	4	21.58	21.33	21.20	22.5	3		
3	QPSK	18	0	21.54	21.30	21.21				
3	QPSK	1	0	22.73	22.83	22.38				
3	QPSK	1	9	22.78	22.74	22.47	20.5	5		
3	QPSK	1	18	22.69	22.83	22.38				
3	QPSK	8	0	21.87	21.48	21.25				
3	QPSK	8	4	21.58	21.33	21.28	20.5	5		
3	QPSK	8	7	21.54	21.38	21.21				
3	QPSK	15	0	21.54	21.47	21.23				
Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
1.4	QPSK	1	0	24.45	24.44	24.12				
1.4	QPSK	1	3	24.50	24.48	24.17	25.5	0		
1.4	QPSK	1	5	24.43	24.42					

Band 38(only on channel required)									
BW [MHz]	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	24.16	24.27	24.10	25.5	0	
20	QPSK	1	49	24.13	24.15	24.15			
20	QPSK	1	99	24.15	24.14	24.13			
20	QPSK	50	0	23.20	23.30	23.17	24.5	1	
20	QPSK	50	24	23.20	23.21	23.19			
20	QPSK	50	50	23.26	23.30	23.26			
20	QPSK	100	0	23.19	23.21	23.17	24.5	1	
20	16QAM	1	0	23.27	23.22	23.24			
20	16QAM	1	49	23.13	23.20	23.22			
20	16QAM	1	99	23.23	23.30	23.32	23.5	2	
20	16QAM	50	0	22.23	22.25	22.22			
20	16QAM	50	24	22.23	22.21	22.20			
20	64QAM	1	0	21.98	21.94	21.88	23.5	2	
20	64QAM	1	49	21.92	21.86	21.91			
20	64QAM	1	99	21.91	21.93	22.03			
20	64QAM	50	0	21.05	21.08	21.07	22.5	3	
20	64QAM	50	24	21.08	21.08	21.05			
20	64QAM	50	50	21.15	21.18	21.15			
20	256QAM	1	0	19.11	19.18	19.18	20.5	5	
20	256QAM	1	49	19.03	19.06	19.20			
20	256QAM	1	99	19.11	19.05	19.23			
20	256QAM	50	0	18.13	18.25	18.14	20.5	5	
20	256QAM	50	24	18.29	18.18	18.09			
20	256QAM	50	50	18.17	18.22	18.30			
20	256QAM	100	0	18.17	18.23	18.21			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	24.13	24.08	24.04	25.5	0	
15	QPSK	1	37	24.07	24.09	24.08			
15	QPSK	1	74	24.12	24.08	24.11			
15	QPSK	36	0	23.22	23.21	23.20	24.5	1	
15	QPSK	36	20	23.27	23.27	23.20			
15	QPSK	36	39	23.24	23.30	23.29			
15	QPSK	75	0	23.27	23.22	23.20	24.5	1	
15	16QAM	1	0	23.31	23.24	23.20			
15	16QAM	1	37	23.15	23.22	23.24			
15	16QAM	1	74	23.25	23.30	23.25	23.5	2	
15	16QAM	36	0	22.16	22.17	22.17			
15	16QAM	36	20	22.20	22.26	22.16			
15	16QAM	36	39	22.24	22.27	22.25	23.5	2	
15	16QAM	75	0	22.28	22.23	22.21			
15	64QAM	1	0	21.99	21.93	21.90	23.5	2	
15	64QAM	1	37	21.88	21.98	21.99			
15	64QAM	1	74	21.92	21.95	21.93			
15	64QAM	36	0	21.13	21.14	21.10	22.5	3	
15	64QAM	36	20	21.18	21.21	21.13			
15	64QAM	36	39	21.17	21.22	21.16			
15	64QAM	75	0	21.20	21.17	21.13	20.5	5	
15	256QAM	1	0	19.16	19.01	18.95			
15	256QAM	1	37	19.01	19.06	19.16			
15	256QAM	1	74	19.11	19.08	19.19	20.5	5	
15	256QAM	36	0	18.23	18.15	18.27			
15	256QAM	36	20	18.20	18.28	18.11			
15	256QAM	36	39	18.19	18.37	18.36	20.5	5	
15	256QAM	75	0	18.21	18.20	18.13			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	24.26	24.10	24.19	25.5	0	
10	QPSK	1	25	24.17	24.20	24.16			
10	QPSK	1	49	24.20	24.23	24.19			
10	QPSK	25	0	23.30	23.26	23.24	24.5	1	
10	QPSK	25	12	23.33	23.37	23.33			
10	QPSK	25	25	23.31	23.36	23.31			
10	QPSK	50	0	23.30	23.28	23.31	24.5	1	
10	16QAM	1	0	23.34	23.31	23.31			
10	16QAM	1	25	23.26	23.36	23.32			
10	16QAM	1	49	23.33	23.29	23.26	23.5	2	
10	16QAM	25	0	22.30	22.25	22.25			
10	16QAM	25	12	22.32	22.40	22.35			
10	16QAM	25	25	22.31	22.37	22.31	23.5	2	
10	16QAM	50	0	22.34	22.30	22.34			
10	16QAM	50	0	22.16	22.12	22.14			
10	64QAM	1	25	22.04	22.12	22.10	23.5	2	
10	64QAM	1	49	22.17	22.16	22.15			
10	64QAM	25	0	21.19	21.10	21.12			
10	64QAM	25	12	21.19	21.24	21.25	22.5	3	
10	64QAM	25	25	21.16	21.23	21.17			
10	64QAM	50	0	21.18	21.11	21.18			
10	256QAM	1	0	19.21	19.16	19.11	20.5	5	
10	256QAM	1	25	19.16	19.17	19.08			
10	256QAM	1	49	19.15	19.15	19.16			
10	256QAM	25	0	18.28	18.19	18.27	20.5	5	
10	256QAM	25	12	18.35	18.45	18.28			
10	256QAM	25	25	18.29	18.43	18.31			
10	256QAM	50	0	18.35	18.21	18.25			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	24.13	24.14	24.19	25.5	0	
5	QPSK	1	12	24.25	24.25	24.22			
5	QPSK	1	24	24.16	24.26	24.23			
5	QPSK	12	0	23.43	23.31	23.23	24.5	1	
5	QPSK	12	7	23.40	23.41	23.35			
5	QPSK	12	13	23.29	23.39	23.35			
5	QPSK	25	0	23.38	23.37	23.29	24.5	1	
5	16QAM	1	0	23.42	23.27	23.28			
5	16QAM	1	12	23.44	23.36	23.42			
5	16QAM	1	24	23.34	23.43	23.43	23.5	2	
5	16QAM	12	0	22.38	22.25	22.22			
5	16QAM	12	7	22.36	22.34	22.31			
5	16QAM	12	13	22.23	22.32	22.28	23.5	2	
5	16QAM	25	0	22.38	22.36	22.33			
5	64QAM	1	0	22.10	22.00	21.95			
5	64QAM	1	12	22.10	22.07	22.02	23.5	2	
5	64QAM	1	24	21.98	22.09	22.07			
5	64QAM	12	0	21.27	21.19	21.17			
5	64QAM	12	7	21.23	21.28	21.26	22.5	3	
5	64QAM	12	13	21.21	21.26	21.25			
5	64QAM	25	0	21.21	21.21	21.18			
5	256QAM	1	0	19.03	19.13	19.15	20.5	5	
5	256QAM	1	12	19.27	19.16	19.18			
5	256QAM	1	24	19.12	19.21	19.18			
5	256QAM	12	0	18.51	18.32	18.26	20.5	5	
5	256QAM	12	7	18.40	18.45	18.33			
5	256QAM	12	13	18.24	18.38	18.44			
5	256QAM	25	0	18.29	18.31	18.30			

Band 41 (2.6G Band)											
BW [MHz]	Modulation	RB Size	RB Offset	for IC Power Low Ch / Freq.	Power Low Ch / Freq.	Power Low Middle Ch / Freq.	Power Middle Ch / Freq.	Power High Middle Ch / Freq.	Power High Ch / Freq.		
Channel				39790	39750	40185	40620	41055	41490		
Frequency (MHz)				2510	2505	2549.5	2593	2636.5	2680		
20	QPSK	1	0	24.16	24.11	24.05	24.29	24.13	24.12	25.5	0
20	QPSK	1	49	24.16	24.16	24.03	24.05	24.09	24.02		
20	QPSK	1	99	24.19	24.14	24.02	24.17	24.16	24.06		
20	QPSK	50	0	23.31	23.30	23.11	23.13	23.11	23.18		
20	QPSK	50	24	23.29	23.31	23.21	23.22	23.18	23.19	24.5	1
20	QPSK	50	50	23.32	23.29	23.20	23.23	23.22	23.14		
20	QPSK	100	0	23.21	23.23	23.20	23.24	23.15	23.18		
20	16QAM	1	0	23.29	23.30	23.12	23.26	23.28	23.23		
20	16QAM	1	49	23.24	23.24	23.14	23.20	23.23	23.11	24.5	1
20	16QAM	1	99	23.29	23.24	23.24	23.24	23.28	23.17		
20	16QAM	50	0	22.32	22.31	22.14	22.18	22.18	22.21		
20	16QAM	50	24	22.32	22.31	22.21	22.25	22.19	22.18		
20	16QAM	50	50	22.34	22.34	22.25	22.26	22.26	22.15	23.5	2
20	16QAM	100	0	22.34	22.32	22.20	22.23	22.17	22.18		
20	64QAM	1	0	22.11	22.08	21.94	22.03	22.03	21.96		
20	64QAM	1	49	21.99	21.98	21.92	21.95	21.95	21.91		
20	64QAM	1	99	22.06	22.07	21.95	22.03	22.02	21.93	23.5	2
20	64QAM	50	0	21.25	21.26	21.07	21.11	21.14	21.15		
20	64QAM	50	24	21.28	21.29	21.20	21.21	21.15	21.14		
20	64QAM	50	50	21.30	21.27	21.15	21.19	21.20	21.11		
20	256QAM	100	0	21.37	21.36	21.22	21.28	21.22	21.23	22.5	3
20	256QAM	0	0	19.19	19.14	19.09	19.37	19.16	19.05		
20	256QAM	1	49	19.13	19.10	18.95	19.08	19.13	19.09		
20	256QAM	1	99	19.19	19.12	19.03	19.24	19.07	19.03		
20	256QAM	50	0	18.38	18.38	18.15	18.33	18.15	18.16	20.5	5
20	256QAM	50	24	18.34	18.28	18.15	18.17	18.15	18.13		
20	256QAM	50	50	18.37	18.35	18.29	18.24	18.23	18.14		
20	256QAM	100	0	18.23	18.16	18.16	18.32	18.11	18.08		
Channel				39765	39725	40173	40620	41068	41515		
Frequency (MHz)				2507.5	2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	24.13	24.10	24.01	24.05	24.03	24.00	25.5	0
15	QPSK	1	37	24.13	24.12	24.04	24.02	24.03	23.96		
15	QPSK	1	74	24.15	24.11	24.05	24.17	24.10	23.98		
15	QPSK	36	0	23.25	23.24	23.08	23.10	23.10	23.13		
15	QPSK	36	20	23.26	23.25	23.18	23.17	23.19	23.12	24.5	1
15	QPSK	36	39	23.27	23.26	23.14	23.18	23.21	23.07		
15	QPSK	75	0	23.28	23.28	23.18	23.19	23.21	23.09		
15	16QAM	1	0	23.24	23.30	23.15	23.21	23.21	23.14		
15	16QAM	1	37	23.18	23.21	23.06	23.05	23.02	22.95	24.5	1
15	16QAM	1	74	23.26	23.29	23.25	23.32	23.29	23.18		
15	16QAM	36	0	22.22	22.22	22.04	22.08	22.07	22.09		
15	16QAM	36	20	22.24	22.21	22.11	22.16	22.16	22.04		
15	16QAM	36	39	22.28	22.23	22.12	22.17	22.17	22.06	23.5	2
15	16QAM	75	0	22.30	22.27	22.18	22.23	22.20	22.11		
15	64QAM	1	0	22.09	22.05	21.90	21.98	21.97	21.91		
15	64QAM	1	37	22.04	22.04	21.92	21.94	21.95	21.87		
15	64QAM	1	74	22.00	22.03	22.01	22.04	22.04	21.92	23.5	2
15	64QAM	36	0	21.27	21.29	21.09	21.17	21.12	21.13		
15	64QAM	36	20	21.28	21.27	21.15	21.20	21.20	21.13		
15	64QAM	36	39	21.30	21.31	21.15	21.20	21.20	21.10		
15	256QAM	75	0	21.30	21.31	21.19	21.23	21.22	21.13	20.5	5
15	256QAM	1	0	19.11	19.12	18.93	19.01	19.08	19.08		
15	256QAM	1	37	19.04	19.08	19.02	19.01	19.09	19.03		
15	256QAM	1	74	19.21	19.14	19.21	19.17	19.22	18.93		
15	256QAM	36	0	18.21	18.23	17.99	18.13	18.18	18.06	20.5	5
15	256QAM	36	20	18.32	18.34	18.17	18.14	18.19	18.14		
15	256QAM	36	39	18.25	18.17	18.17	18.15	18.17	18.02		
15	256QAM	75	0	18.35	18.27	18.27	18.11	18.14	18.07		
Channel				39740	39700	40160	40620	41040	41540		
Frequency (MHz)				2492.5	2488.5	2542.7	2593	2637.0	2686.5		
10	QPSK	1	0	24.24	24.23	24.10	24.12	24.12	24.07	25.5	0
10	QPSK	1	25	24.24	24.22	24.12	24.17	24.17	24.03		
10	QPSK	1	49	24.28	24.27	24.08	24.16	24.15	24.05		
10	QPSK	25	0	23.30	23.31	23.12	23.20	23.19	23.17		
10	QPSK	25	12	23.34	23.35	23.26	23.30	23.21	23.21	24.5	1
10	QPSK	25	25	23.34	23.35	23.23	23.29	23.23	23.18		
10	QPSK	50	0	23.33	23.32	23.23	23.28	23.19	23.18		
10	16QAM	1	0	23.39	23.36	23.22	23.27	23.28	23.25		
10	16QAM	1	25	23.37	23.34	23.24	23.29	23.31	23.20	24.5	1
10	16QAM	1	49	23.41	23.36	23.26	23.30	23.29	23.19		
10	16QAM	25	0	22.35	22.37	22.20	22.18	22.21	22.21		
10	16QAM	25	12	22.37	22.39	22.25	22.33	22.25	22.21		
10	16QAM	25	25	22.35	22.37	22.22	22.30	22.26	22.16	23.5	2
10	64QAM	1	0	22.32	22.25	22.07	22.17	22.17	22.13		
10	64QAM	1	25	22.23	22.22	22.14	22.15	22.16	22.04		
10	64QAM	1	49	22.25	22.26	22.17	22.22	22.21	22.06		
10	64QAM	25	0	21.32	21.33	21.13	21.17	21.18	21.17	22.5	3
10	64QAM	25	12	21.37	21.33	21.26	21.29	21.22	21.21		
10	64QAM	25	25	21.32	21.35	21.21	21.26	21.26	21.16		
10	64QAM	50	0	21.32	21.28	21.22	21.28	21.19	21.16		
10	256QAM	1	0	19.15	19.17	19.08	19.17	19.10	19.01	20.5	5
10	256QAM	1	25	19.32	19.29	19.19	19.22	19.09	19.00		
10	256QAM	1	49	19.35	19.21	19.10	19.06	19.07	18.98		
10	256QAM	25	0	18.29	18.24	18.05	18.20	18.17	18.15		
10	256QAM	25	12	18.34	18.27	18.24	18.26	18.31	18.29	20.5	5
10	256QAM	25	25	18.37	18.35	18.29	18.29	18.31	18.09		
10	256QAM	50	0	18.25	18.34	18.20	18.20	18.20	18.15		
10	256QAM	50	25	18.31	18.33	18.18	18.20	18.23	18.05		
Channel				39715	39675	40148	40620	41093	41565		
Frequency (MHz)				2505.5	2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	24.23	24.20	24.01	24.07	24.08	24.02	25.5	0
5	QPSK	1	12	24.21	24.16	24.09	24.16	24.11	24.00		
5	QPSK	1	24	24.20	24.20	24.08	24.08	24.12	23.94		
5	QPSK	12	0	23.33	23.31	23.13	23.19	23.25	23.13		
5	QPSK	12	7	23.32	23.35	23.22	23.24	23.27	23.14	24.5	1
5	QPSK	25	0	23.28	23.32	23.17	23.24	23.23	23.12		
5	16QAM	1	0	23.41	23.38	23.15	23.17	23.20	23.13		
5	16QAM	1	12	23.45	23.42	23.29	23.36	23.34	23.23		
5	16QAM	12	24	23.38	23.38	23.25	23.32	23.31	23.17	24.5	1
5	16QAM	12	0	22.33	22.30	22.11	22.25	22.15	22.13		
5	16QAM	12	7	22.32	22.31	22.22	22.29	22.28	22.12		
5	16QAM	12	13	22.30	22.27	22.18	22.23	22.20	22.13		
5	16QAM	25	0	22.33	22.31	22.22	22.28	22.29	22.19	23.5	2
5	16QAM	25	12	22.31	22.14	21.93	22.01	22.17	21.81		
5	64QAM	1	12	21.24	21.11	22.03	22.05	22.07	21.94		
5	64QAM	1	24	22.15	22.16	22.02	22.06	22.06	21.91		
5	64QAM	12	0	21.28	21.27	21.10	21.21	21.15	21.08	22.5	3
5	64QAM	12	7	21.31	21.30	21.23	21.26	21.29	21.17		
5	64QAM	12	13	21.30	21.28	21.20	21.24	21.23	21.13		
5	64QAM	25	0	21.30	21.29	21.21	21.21	21.24	21.11		
5	256QAM	1	0	19.24	19.11	18.95	19.13	18.99	18.98	20.5	5
5	256QAM	1	12	19.30	19.26	19.11	19.06	19.01	19.08		
5	256QAM	1	24	19.33	19.19	19.06	19.13	19.22	18.98		
5	256QAM	12	0	18.25	18.29	18.18	18.27	18.22	18.09		
5	256QAM	12	7	18.37	18.32	18.16	18.19	18.34	18.05	20.5	5
5	256QAM	12	13	18.31	18.37	18.31	18.30	18.36	18.16		
5	256QAM	25	0	18.29	18.42	18.09	18.25	18.27	18.18		
5	256QAM	25	0	18.29	18.42	18.09	18.25	18.27	18.18		

Band 4 (AWS Band)										
Part 27L (only on channel required)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Max. 20650	Power High 20715	Power Low 20650	Power High 20715	Tune-up and offset (MHz)	MFR (dB)	
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.25	20.32	20.32		20.5	0	
20	QPSK	1	49	20.15	20.22	20.22				
20	QPSK	1	99	20.01	20.11	20.12				
20	QPSK	50	0	19.01	19.05	19.05				
20	QPSK	50	24	18.99	19.19	19.31		19.5	1	
20	QPSK	50	50	18.94	19.17	19.12				
20	QPSK	100	0	18.12	18.22	18.22				
20	16QAM	1	5	18.58	18.78	18.23		19.5	1	
20	16QAM	1	49	18.22	18.36	18.42				
20	16QAM	1	99	18.10	18.42	18.48				
20	16QAM	50	0	18.22	18.37	18.53		19.5	2	
20	16QAM	50	24	18.12	18.28	18.32				
20	16QAM	50	50	18.15	18.27	18.38				
20	16QAM	100	0	18.11	18.11	18.22				
20	84QAM	1	0	18.20	18.48	18.49		19.5	2	
20	84QAM	1	49	18.01	18.15	18.15				
20	84QAM	1	99	18.14	18.26	18.37				
20	84QAM	50	0	17.09	17.24	17.38		17.5	3	
20	84QAM	50	24	17.10	17.01	17.18				
20	84QAM	50	50	17.09	17.15	17.12				
20	84QAM	100	0	17.08	17.17	17.20				
20	256QAM	1	5	15.25	15.35	15.11		15.5	5	
20	256QAM	1	49	15.07	15.28	15.13				
20	256QAM	1	99	15.02	15.14	15.25				
20	256QAM	50	0	15.11	15.22	15.15				
20	256QAM	50	24	15.03	15.16	15.12		15.5	5	
20	256QAM	50	50	15.09	15.08	15.22				
20	256QAM	100	0	15.00	15.15	15.26				
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.19	20.26	20.26		20.5	0	
15	QPSK	1	37	20.04	20.08	20.14				
15	QPSK	1	74	20.01	20.09	20.27				
15	QPSK	36	0	19.14	19.28	19.32				
15	QPSK	36	20	19.13	19.13	19.25		19.5	1	
15	QPSK	36	50	19.09	19.11	19.08				
15	QPSK	72	0	19.08	19.17	19.27				
15	16QAM	1	5	18.53	19.10	19.18		19.5	1	
15	16QAM	1	37	19.20	19.32	19.42				
15	16QAM	1	74	19.04	19.15	19.42				
15	16QAM	36	0	18.18	18.31	18.48		19.5	2	
15	16QAM	36	20	18.06	18.14	18.32				
15	16QAM	36	50	18.00	18.21	18.32				
15	16QAM	72	0	18.01	18.06	18.15				
15	84QAM	1	0	18.14	18.42	18.44		19.5	2	
15	84QAM	1	37	18.05	18.08	18.08				
15	84QAM	1	74	18.09	18.19	18.32				
15	84QAM	36	0	17.11	17.01	17.11		17.5	3	
15	84QAM	36	50	17.02	17.06	17.28				
15	84QAM	72	0	17.02	17.15	17.25				
15	256QAM	1	5	15.19	15.26	15.04		15.5	5	
15	256QAM	1	37	15.01	15.22	15.08				
15	256QAM	1	74	15.00	15.08	15.19				
15	256QAM	36	0	15.08	15.16	15.09		15.5	5	
15	256QAM	36	20	15.18	15.10	15.28				
15	256QAM	36	50	15.03	15.02	15.15				
15	256QAM	72	0	15.00	15.01	15.19				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.17	20.28	20.28		20.5	0	
10	QPSK	1	26	20.02	20.08	20.14				
10	QPSK	1	49	20.00	20.04	20.25				
10	QPSK	20	0	19.14	19.28	19.31		19.5	1	
10	QPSK	20	12	19.12	19.13	19.26				
10	QPSK	20	25	19.06	19.11	19.06				
10	QPSK	50	0	19.05	19.15	19.27				
10	16QAM	1	0	19.08	19.08	19.18		19.5	1	
10	16QAM	1	12	19.15	19.31	19.42				
10	16QAM	1	25	19.01	19.33	19.39				
10	16QAM	12	0	18.17	18.30	18.43		19.5	2	
10	16QAM	12	7	18.04	18.11	18.12				
10	16QAM	12	13	18.09	18.29	18.31				
10	16QAM	25	0	18.08	18.15	18.28				
10	84QAM	1	0	18.15	18.42	18.41		19.5	2	
10	84QAM	1	12	18.01	18.08	18.09				
10	84QAM	1	24	18.07	18.18	18.30				
10	84QAM	12	0	17.03	17.17	17.30		17.5	3	
10	84QAM	12	7	17.08	17.13	17.11				
10	84QAM	12	13	17.04	17.06	17.25				
10	84QAM	25	0	17.01	17.09	17.23				
10	256QAM	1	0	15.19	15.27	15.04		15.5	5	
10	256QAM	1	12	15.01	15.22	15.06				
10	256QAM	1	49	15.06	15.06	15.18				
10	256QAM	20	0	15.04	15.15	15.07		15.5	5	
10	256QAM	20	12	15.15	15.10	15.25				
10	256QAM	20	26	15.03	15.01	15.18				
10	256QAM	50	0	14.53	15.01	15.18				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.19	20.26	20.26		20.5	0	
5	QPSK	1	12	20.03	20.07	20.16				
5	QPSK	1	24	20.03	20.05	20.27				
5	QPSK	5	0	19.12	19.29	19.31		19.5	1	
5	QPSK	12	7	19.10	19.13	19.25				
5	QPSK	12	13	19.08	19.08	19.03				
5	QPSK	25	0	19.03	19.15	19.28				
5	16QAM	1	0	19.01	19.08	19.18		19.5	1	
5	16QAM	1	12	19.15	19.31	19.42				
5	16QAM	1	24	19.01	19.33	19.39				
5	16QAM	12	0	18.17	18.30	18.43		19.5	2	
5	16QAM	12	7	18.04	18.11	18.12				
5	16QAM	12	13	18.09	18.29	18.31				
5	16QAM	25	0	18.08	18.15	18.28				
5	84QAM	1	0	18.15	18.42	18.41		19.5	2	
5	84QAM	1	12	18.01	18.08	18.09				
5	84QAM	1	24	18.07	18.18	18.30				
5	84QAM	12	0	17.03	17.17	17.30		17.5	3	
5	84QAM	12	7	17.08	17.13	17.11				
5	84QAM	12	13	17.04	17.06	17.25				
5	84QAM	25	0	17.01	17.09	17.23				
5	256QAM	1	0	15.19	15.27	15.04		15.5	5	
5	256QAM	1	12	15.01	15.22	15.06				
5	256QAM	1	24	15.08	15.05	15.18				
5	256QAM	12	0	15.05	15.15	15.09		15.5	5	
5	256QAM	12	7	15.18	15.10	15.23				
5	256QAM	12	13	15.03	15.06	15.16				
5	256QAM	25	0	15.02	15.10	15.15				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.16	20.07	20.29		20.5	0	
3	QPSK	1	9	20.04	20.09	20.09				
3	QPSK	1	14	20.01	20.08	20.25				
3	QPSK	8	0	19.11	19.27	19.31		19.5	1	
3	QPSK	8	4	19.03	19.13	19.25				
3	QPSK	8	7	19.02	19.10	19.07				
3	QPSK	16	0	19.05	19.13	19.24				
3	16QAM	1	0	19.11	19.06	19.17		19.5	1	
3	16QAM	1	8	19.20	19.33	19.42				
3	16QAM	1	14	19.05	19.32	19.42				
3	16QAM	8	0	18.17	18.31	18.48		19.5	2	
3	16QAM	8	4	18.05	18.12	18.29				
3	16QAM	8	7	18.07	18.21	18.29				
3	16QAM	16	0	18.01	18.04	18.13				
3	84QAM	1	0	18.14	18.41	18.39		19.5	2	
3	84QAM	1	8	18.03	18.07	18.06				
3	84QAM	1	14	18.07	18.18	18.32				
3	84QAM	8	0	17.03	17.10	17.32		17.5	3	
3	84QAM	8	4	17.08	17.34	17.12				
3	84QAM	8	7	17.01	17.06	17.28				
3	84QAM	16	0	17.05	17.08	17.23				
3	256QAM	1	0	15.19	15.27	15.05		15.5	5	
3	256QAM	1	8	15.11	15.19	15.09				
3	256QAM	1	14	15.03	15.09	15.18				
3	256QAM	8	0	15.05	15.16	15.08		1		

Band 38(only on channel required)									
BW [MHz]	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)									
				37850	38000	38150			
				2580	2595	2610			
20	QPSK	1	0	19.90	19.94	19.70	20.5	0	
20	QPSK	1	49	19.87	19.81	19.68			
20	QPSK	1	99	19.83	19.68	19.63			
20	QPSK	50	0	18.84	18.90	18.75	19.5	1	
20	QPSK	50	24	18.83	18.88	18.74			
20	QPSK	50	50	18.82	18.91	18.75			
20	QPSK	100	0	18.88	18.88	18.89	18.5	2	
20	16QAM	1	0	18.73	18.88	18.80			
20	16QAM	1	49	18.97	18.89	18.79			
20	16QAM	1	99	18.95	18.81	18.73	17.5	3	
20	16QAM	50	0	17.73	17.91	17.77			
20	16QAM	50	24	17.72	17.93	17.76			
20	16QAM	50	50	17.73	17.94	17.80	16.5	2	
20	16QAM	100	0	17.78	17.78	17.73			
20	64QAM	1	0	17.89	17.69	17.59			
20	64QAM	1	49	17.77	17.68	17.58	15.5	5	
20	64QAM	1	99	17.72	17.67	17.61			
20	64QAM	50	0	17.22	17.12	16.98			
20	64QAM	50	24	17.19	17.15	16.98	14.5	5	
20	64QAM	50	50	17.21	17.21	17.01			
20	64QAM	100	0	17.05	17.05	17.04			
20	256QAM	1	0	14.95	14.92	14.68	13.5	5	
20	256QAM	1	49	14.90	14.85	14.73			
20	256QAM	1	99	14.80	14.66	14.59			
20	256QAM	50	0	13.84	13.86	13.72	12.5	5	
20	256QAM	50	24	13.84	13.92	13.76			
20	256QAM	50	50	13.78	13.97	13.83			
20	256QAM	100	0	13.80	13.94	13.73			
Channel									
Frequency (MHz)									
				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
				2577.5	2595	2612.5			
15	QPSK	1	0	19.93	19.73	19.60	20.5	0	
15	QPSK	1	37	19.85	19.76	19.60			
15	QPSK	1	74	19.79	19.72	19.51			
15	QPSK	36	0	19.00	18.89	18.72	19.5	1	
15	QPSK	36	20	18.82	18.95	18.68			
15	QPSK	36	39	18.98	18.92	18.73			
15	QPSK	75	0	18.83	18.86	18.69	18.5	2	
15	16QAM	1	0	18.84	18.91	18.72			
15	16QAM	1	37	18.87	18.79	18.65			
15	16QAM	1	74	18.89	18.90	18.77	17.5	3	
15	16QAM	36	0	17.99	17.84	17.71			
15	16QAM	36	20	18.00	17.93	17.68			
15	16QAM	36	39	17.97	17.91	17.72	16.5	2	
15	16QAM	75	0	17.73	17.88	17.71			
15	64QAM	1	0	17.95	17.73	17.47			
15	64QAM	1	37	17.82	17.73	17.58	15.5	5	
15	64QAM	1	74	17.73	17.71	17.60			
15	64QAM	36	0	16.96	17.16	17.02			
15	64QAM	36	20	17.05	16.96	16.96	14.5	5	
15	64QAM	36	39	16.95	17.20	17.01			
15	64QAM	75	0	16.94	17.16	16.96			
15	256QAM	1	0	14.93	14.71	14.64	13.5	5	
15	256QAM	1	37	14.91	14.75	14.56			
15	256QAM	1	74	14.82	14.66	14.59			
15	256QAM	36	0	13.94	13.85	13.72	12.5	5	
15	256QAM	36	20	13.85	13.97	13.69			
15	256QAM	36	39	13.95	13.91	13.73			
15	256QAM	75	0	13.83	13.85	13.69			
Channel									
Frequency (MHz)									
				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
				2575	2595	2615			
10	QPSK	1	0	19.84	19.76	19.69	20.5	0	
10	QPSK	1	25	19.83	19.86	19.61			
10	QPSK	1	49	19.82	19.79	19.60			
10	QPSK	25	0	18.83	18.88	18.69	19.5	1	
10	QPSK	25	12	18.73	18.99	18.73			
10	QPSK	25	25	18.82	19.00	18.72			
10	QPSK	50	0	18.73	18.92	18.78	18.5	2	
10	16QAM	1	0	18.82	18.95	18.78			
10	16QAM	1	25	18.71	18.95	18.75			
10	16QAM	1	49	18.82	18.91	18.72	17.5	3	
10	16QAM	25	0	17.72	17.92	17.74			
10	16QAM	25	12	17.74	17.73	17.80			
10	16QAM	25	25	17.71	17.98	17.74	16.5	2	
10	16QAM	50	0	17.74	17.94	17.77			
10	64QAM	1	0	17.71	17.91	17.73			
10	64QAM	1	25	17.72	17.88	17.68	15.5	2	
10	64QAM	1	49	17.73	17.85	17.74			
10	64QAM	25	0	16.96	17.12	16.93			
10	64QAM	25	12	16.95	17.04	17.03	14.5	5	
10	64QAM	25	25	16.97	16.97	16.99			
10	64QAM	50	0	16.98	17.11	17.00			
10	256QAM	1	0	14.92	14.72	14.66	13.5	5	
10	256QAM	1	25	14.76	14.83	14.58			
10	256QAM	1	49	14.84	14.83	14.58			
10	256QAM	25	0	13.78	13.81	13.67	12.5	5	
10	256QAM	25	12	13.77	14.00	13.66			
10	256QAM	25	25	13.81	14.00	13.66			
10	256QAM	50	0	13.67	13.94	13.70			
Channel									
Frequency (MHz)									
				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
				2572.5	2595	2617.5			
5	QPSK	1	0	19.84	19.74	19.53	20.5	0	
5	QPSK	1	12	19.82	19.79	19.56			
5	QPSK	1	24	19.86	19.84	19.58			
5	QPSK	12	0	18.73	18.87	18.64	19.5	1	
5	QPSK	12	7	18.71	18.95	18.70			
5	QPSK	12	13	18.73	18.95	18.70			
5	QPSK	25	0	18.72	18.91	18.67	18.5	2	
5	16QAM	1	0	18.82	18.88	18.69			
5	16QAM	1	12	18.72	18.97	18.72			
5	16QAM	1	24	18.73	18.99	18.74	17.5	3	
5	16QAM	12	0	17.73	17.83	17.60			
5	16QAM	12	7	17.72	17.92	17.67			
5	16QAM	12	13	17.71	17.91	17.68	16.5	2	
5	16QAM	25	0	17.73	17.97	17.75			
5	64QAM	1	0	17.96	17.70	17.49			
5	64QAM	1	12	17.91	17.76	17.55	15.5	5	
5	64QAM	1	24	17.94	17.91	17.57			
5	64QAM	12	0	17.05	17.09	16.86			
5	64QAM	12	7	16.94	17.20	16.94	14.5	5	
5	64QAM	12	13	16.97	17.18	16.94			
5	64QAM	25	0	16.95	17.16	16.94			
5	256QAM	1	0	14.79	14.78	14.48	13.5	5	
5	256QAM	1	12	14.74	14.72	14.55			
5	256QAM	1	24	14.91	14.93	14.65			
5	256QAM	12	0	13.81	13.93	13.56	12.5	5	
5	256QAM	12	7	13.71	13.90	13.75			
5	256QAM	12	13	13.70	13.93	13.78			
5	256QAM	25	0	13.69	13.88	13.70			

Band 41 (2.6G Band)									
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.	
Channel									
Frequency (MHz)				39750	40185	40620	41055	41490	
20	QPSK	1	0	2506	2549.5	2593	2636.5	2680	
20	QPSK	1	49	19.55	19.32	19.18	18.78	18.59	20.5
20	QPSK	1	99	19.23	19.32	19.18	18.77	18.35	
20	QPSK	50	0	18.35	18.38	18.38	17.88	17.39	
20	QPSK	50	24	18.46	18.46	18.36	17.88	17.56	
20	QPSK	50	50	18.50	18.51	18.29	17.89	17.48	19.5
20	QPSK	100	0	18.42	18.51	18.52	17.85	17.54	
20	16QAM	1	0	17.94	18.48	18.36	18.03	17.69	
20	16QAM	1	49	18.48	18.40	18.25	17.91	17.66	19.5
20	16QAM	1	99	18.23	18.40	18.33	17.93	17.40	
20	16QAM	50	0	17.36	17.40	17.27	16.91	16.60	
20	16QAM	50	24	17.47	17.51	17.36	16.92	16.55	
20	16QAM	50	50	17.50	17.52	17.36	16.91	16.52	18.5
20	16QAM	100	0	17.43	17.49	17.37	16.89	16.54	
20	16QAM	1	0	17.66	18.24	18.07	17.67	17.49	
20	16QAM	1	49	18.22	18.15	18.05	17.65	17.30	18.5
20	64QAM	1	99	18.47	18.24	18.08	17.68	17.17	
20	64QAM	50	0	17.31	17.35	17.21	16.84	16.54	
20	64QAM	50	24	17.42	17.43	17.30	16.84	16.51	
20	64QAM	50	50	17.44	17.46	17.35	16.86	16.44	17.5
20	64QAM	100	0	17.46	17.53	17.43	16.87	16.59	
20	256QAM	1	0	13.75	14.28	14.48	13.94	13.49	
20	256QAM	1	49	14.42	14.30	14.16	13.82	13.36	15.5
20	256QAM	1	99	14.22	14.37	14.26	13.84	13.42	
20	256QAM	50	0	13.31	13.45	13.61	12.95	12.52	
20	256QAM	50	24	13.38	13.41	13.41	12.93	12.47	15.5
20	256QAM	50	50	13.59	13.54	13.27	12.95	12.47	
20	256QAM	100	0	13.43	13.55	13.47	12.90	12.42	
Channel									
Frequency (MHz)				39725 <th>40173<th>40620<th>41068<th>41515<th></th></th></th></th></th>	40173 <th>40620<th>41068<th>41515<th></th></th></th></th>	40620 <th>41068<th>41515<th></th></th></th>	41068 <th>41515<th></th></th>	41515 <th></th>	
15	QPSK	1	0	18.63	19.35	19.13	18.82	18.40	
15	QPSK	1	37	19.29	19.25	19.25	18.75	18.28	20.5
15	QPSK	1	74	19.32	19.47	19.22	18.79	18.34	
15	QPSK	36	0	18.26	18.37	18.27	17.88	17.57	
15	QPSK	36	20	18.44	18.42	18.31	17.94	17.51	19.5
15	QPSK	36	39	18.45	18.51	18.30	17.88	17.42	
15	QPSK	75	0	18.37	18.48	18.35	17.94	17.48	
15	16QAM	1	0	17.91	18.51	18.33	17.97	17.60	
15	16QAM	1	37	18.47	18.42	18.18	17.83	17.35	19.5
15	16QAM	1	74	18.47	18.60	18.43	17.96	17.48	
15	16QAM	36	0	17.28	17.36	17.21	16.84	16.52	
15	16QAM	36	20	17.43	17.42	17.26	16.89	16.45	18.5
15	16QAM	36	39	17.40	17.46	17.25	16.84	16.40	
15	16QAM	75	0	17.38	17.51	17.32	16.93	16.53	
15	64QAM	1	0	17.69	18.26	18.04	17.70	17.40	
15	64QAM	1	37	18.25	18.22	18.11	17.66	17.27	18.5
15	64QAM	1	74	18.25	18.35	18.16	17.73	17.21	
15	64QAM	36	0	17.27	17.39	17.30	16.88	16.56	
15	64QAM	36	20	17.46	17.45	17.31	16.93	16.50	17.5
15	64QAM	36	39	17.45	17.51	17.33	16.88	16.45	
15	64QAM	75	0	17.39	17.49	17.35	16.95	16.51	
15	256QAM	1	0	13.75	14.36	14.21	13.89	13.38	
15	256QAM	1	37	14.33	14.19	14.07	13.81	13.34	15.5
15	256QAM	1	74	14.28	14.47	14.26	13.76	13.37	
15	256QAM	36	0	13.26	13.38	13.28	12.82	12.29	
15	256QAM	36	20	13.41	13.35	13.39	12.89	12.43	
15	256QAM	36	39	13.42	13.54	13.21	12.82	12.42	15.5
15	256QAM	75	0	13.36	13.40	13.33	12.86	12.42	
Channel									
Frequency (MHz)				39700 <th>40160<th>40620<th>41080<th>41540<th></th></th></th></th></th>	40160 <th>40620<th>41080<th>41540<th></th></th></th></th>	40620 <th>41080<th>41540<th></th></th></th>	41080 <th>41540<th></th></th>	41540 <th></th>	
10	QPSK	1	0	18.89	19.41	19.32	18.91	18.47	
10	QPSK	1	25	19.32	19.37	19.30	18.88	18.38	20.5
10	QPSK	1	49	19.46	19.43	19.32	18.82	18.34	
10	QPSK	25	0	18.21	18.42	18.33	17.93	17.55	
10	QPSK	25	12	18.42	18.50	18.42	17.95	17.53	19.5
10	QPSK	25	49	18.52	18.49	18.41	17.92	17.53	
10	QPSK	50	0	18.39	18.50	18.40	17.92	17.52	
10	16QAM	1	0	18.08	18.55	18.41	18.03	17.65	
10	16QAM	1	25	18.44	18.48	18.42	18.01	17.56	19.5
10	16QAM	1	49	18.61	18.59	18.45	17.95	17.49	
10	16QAM	25	0	17.24	17.46	17.34	16.92	16.57	
10	16QAM	25	12	17.42	17.53	17.42	16.97	16.58	18.5
10	16QAM	25	25	17.51	17.51	17.44	16.93	16.48	
10	16QAM	50	0	17.40	17.55	17.42	16.93	16.56	
10	64QAM	1	0	17.95	18.43	18.27	17.88	17.54	
10	64QAM	1	25	18.33	18.31	18.29	17.84	17.38	18.5
10	64QAM	1	49	18.51	18.46	18.35	17.80	17.40	
10	64QAM	25	0	17.22	17.38	17.29	16.87	16.51	
10	64QAM	25	12	17.42	17.49	17.42	16.94	16.54	17.5
10	64QAM	25	25	17.48	17.47	17.40	16.90	16.47	
10	64QAM	50	0	17.35	17.48	17.38	16.90	16.50	
10	256QAM	1	0	13.81	14.46	14.39	13.82	13.48	
10	256QAM	1	25	14.24	14.43	14.25	13.94	13.48	15.5
10	256QAM	1	49	14.44	14.41	14.40	13.82	13.34	
10	256QAM	25	0	13.23	13.48	13.31	12.92	12.52	
10	256QAM	25	12	13.45	13.49	13.47	12.94	12.53	15.5
10	256QAM	25	25	13.56	13.50	13.44	12.98	12.54	
10	256QAM	50	0	13.48	13.55	13.33	12.95	12.55	
Channel									
Frequency (MHz)				39672 <th>40148<th>40620<th>41093<th>41564<th></th></th></th></th></th>	40148 <th>40620<th>41093<th>41564<th></th></th></th></th>	40620 <th>41093<th>41564<th></th></th></th>	41093 <th>41564<th></th></th>	41564 <th></th>	
5	QPSK	1	0	18.92	19.38	19.26	18.86	18.44	
5	QPSK	1	12	19.13	19.39	19.30	18.81	18.42	20.5
5	QPSK	1	24	19.31	19.35	19.29	18.81	18.36	
5	QPSK	1	36	18.10	18.51	18.41	17.93	17.53	
5	QPSK	12	7	18.29	18.52	18.46	18.03	17.54	19.5
5	QPSK	12	13	18.38	18.47	18.44	17.94	17.50	
5	QPSK	25	0	18.20	18.52	18.40	17.98	17.52	
5	16QAM	1	0	18.06	18.51	18.40	17.97	17.58	
5	16QAM	1	12	18.34	18.54	18.46	18.06	17.66	19.5
5	16QAM	1	24	18.49	18.55	18.44	18.02	17.53	
5	16QAM	12	0	17.10	17.47	17.40	16.93	16.50	
5	16QAM	12	7	17.25	17.53	17.42	16.98	16.52	18.5
5	16QAM	12	13	17.32	17.51	17.40	16.96	16.49	
5	16QAM	25	0	17.25	17.54	17.42	16.99	16.55	
5	16QAM	25	12	17.64	18.29	18.17	17.75	17.30	18.5
5	16QAM	1	12	18.02	18.33	18.22	17.78	17.33	
5	64QAM	1	24	18.23	18.34	18.21	17.77	17.29	
5	64QAM	12	0	17.06	17.41	17.37	16.91	16.50	
5	64QAM	12	7	17.21	17.50	17.42	16.98	16.54	17.5
5	64QAM	12	13	17.29	17.44	17.39	16.95	16.47	
5	256QAM	1	0	17.20	17.46	17.31	16.94	16.51	
5	256QAM	1	0	13.91	14.30	14.23	13.90	13.51	
5	256QAM	1	12	14.16	14.36	14.36	13.78	13.38	15.5
5	256QAM	1	24	14.31	14.40	14.27	13.85	13.43	
5	256QAM	12	0	13.10	13.55	13.47	12.85	12.45	
5	256QAM	12	7	13.24	13.51	13.41	12.93	12.54	15.5
5	256QAM	12	13	13.40	13.43	13.42	12.95	12.59	
5	256QAM	25	0	13.14	13.53	13.45	12.97	12.56	



Reduced Power DSI 1 for Head/DSI 5 for Hotspot
ANT 2

		DSI 5				DSI 5			
Band		WCDMA II				WCDMA IV			
TX Channel		9662	9690	9638	Tune-up Limit (dBm)	1312	1413	1513	Tune-up Limit (dBm)
Rx Channel		9662	9690	9638		1537	1638	1738	
Frequency (MHz)		1952.4	1950	1947.6		1712.4	1721.5	1752.5	
3GPP Rel 99	AMR 12.2Kbps	21.22	21.30	21.27	22.00	20.21	20.22	20.23	21.00
3GPP Rel 99	RM4 12.2Kbps	21.28	21.32	21.30	22.00	20.23	20.28	20.25	21.00
3GPP Rel 6	HSDPA Subtest-1	20.26	20.32	20.32	21.00	19.18	19.32	19.31	20.00
3GPP Rel 6	HSDPA Subtest-2	20.25	20.32	20.34	21.00	19.21	19.33	19.29	20.00
3GPP Rel 6	HSDPA Subtest-3	19.70	19.84	19.86	20.50	18.74	18.76	18.72	19.50
3GPP Rel 6	HSDPA Subtest-4	19.78	19.79	19.86	20.50	18.71	18.76	18.80	19.50
3GPP Rel 6	DC-HSDPA Subtest-1	20.24	20.28	20.29	21.00	19.14	19.29	19.29	20.00
3GPP Rel 6	DC-HSDPA Subtest-2	20.23	20.28	20.31	21.00	19.17	19.30	19.27	20.00
3GPP Rel 6	DC-HSDPA Subtest-3	19.68	19.80	19.83	20.50	18.70	18.73	18.70	19.50
3GPP Rel 6	DC-HSDPA Subtest-4	19.76	19.75	19.83	20.50	18.67	18.73	18.78	19.50
3GPP Rel 6	HSUPA Subtest-1	20.23	20.31	20.31	21.00	19.22	19.26	19.22	20.00
3GPP Rel 6	HSUPA Subtest-2	18.22	18.35	18.31	19.00	17.23	17.25	17.26	18.00
3GPP Rel 6	HSUPA Subtest-3	19.28	19.29	19.32	20.00	18.25	18.28	18.24	19.00
3GPP Rel 6	HSUPA Subtest-4	18.24	18.31	18.33	19.00	17.23	17.26	17.23	18.00
3GPP Rel 6	HSUPA Subtest-5	20.20	20.30	20.40	21.00	19.20	19.20	19.20	20.00

Band 2 DSI 5														
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. 1 [Frac. 18000]	Power Media Ch. 1 [Frac. 18000]	Power High Ch. 1 [Frac. 18000]	Turn-up time (sec)	MFR (dB)						
Channel														
20	QPSK	1	0	20.50	20.70	20.93	21.5	0						
20	QPSK	1	40	20.26	20.32	20.43								
20	QPSK	1	80	20.20	20.20	20.43								
20	QPSK	1	120	20.50	20.50	20.50								
20	QPSK	50	24	20.47	20.47	20.54	21.5	0						
20	QPSK	50	50	20.46	20.51	20.61								
20	QPSK	50	0	20.47	20.50	20.51								
20	QPSK	50	0	20.53	20.48	20.51								
20	HQAM	1	40	20.46	20.50	20.51	21.5	0						
20	HQAM	1	80	20.51	20.47	20.51								
20	HQAM	50	0	20.28	20.24	20.26								
20	HQAM	50	24	20.24	20.27	20.26								
20	HQAM	50	50	20.25	20.30	20.35	21.5	0						
20	HQAM	100	0	20.34	20.21	20.26								
20	HQAM	1	40	20.48	20.48	20.48								
20	HQAM	1	40	20.28	20.42	20.31								
20	HQAM	1	80	20.16	20.36	20.38	21.5	0						
20	HQAM	50	0	20.46	20.46	20.46								
20	HQAM	50	24	20.47	20.47	20.49								
20	HQAM	50	50	20.49	20.51	20.54								
20	HQAM	100	0	20.47	20.43	20.53	20.5	1						
20	ZSSBQAM	1	0	19.52	19.72	19.85								
20	ZSSBQAM	1	40	19.25	19.24	19.44								
20	ZSSBQAM	1	80	19.31	19.32	19.40								
20	ZSSBQAM	50	0	19.51	19.44	19.52	20.5	1						
20	ZSSBQAM	50	24	19.46	19.46	19.53								
20	ZSSBQAM	50	50	19.46	19.38	19.45								
20	ZSSBQAM	100	0	19.43	19.34	19.48								
Channel														
Frequency [MHz]			Turn-up time (sec)	MFR (dB)										
15	QPSK	1	0	20.41	20.38	20.50	21.5	0						
15	QPSK	1	37	20.32	20.34	20.44								
15	QPSK	1	74	20.26	20.34	20.47								
15	QPSK	50	0	20.46	20.45	20.50								
15	QPSK	50	20	20.46	20.49	20.59	21.5	0						
15	QPSK	50	39	20.45	20.52	20.60								
15	QPSK	50	58	20.46	20.52	20.59								
15	QPSK	50	77	20.46	20.52	20.59								
15	HQAM	1	0	20.53	20.44	20.57	21.5	0						
15	HQAM	1	37	20.37	20.50	20.49								
15	HQAM	1	74	20.43	20.49	20.52								
15	HQAM	50	0	20.25	20.22	20.24								
15	HQAM	50	20	20.24	20.25	20.26	21.5	0						
15	HQAM	50	39	20.23	20.31	20.34								
15	HQAM	50	58	20.25	20.29	20.29								
15	HQAM	75	0	20.45	20.36	20.45								
15	HQAM	1	0	20.43	20.36	20.45	21.5	0						
15	HQAM	1	37	20.31	20.42	20.42								
15	HQAM	1	74	20.22	20.42	20.44								
15	HQAM	50	0	20.47	20.46	20.50								
15	HQAM	50	20	20.47	20.46	20.50	21.5	0						
15	HQAM	50	39	20.45	20.52	20.58								
15	HQAM	50	58	20.45	20.52	20.58								
15	HQAM	50	77	20.45	20.52	20.58								
15	ZSSBQAM	1	0	19.25	19.47	19.58	20.5	1						
15	ZSSBQAM	1	37	19.36	19.36	19.36								
15	ZSSBQAM	1	74	19.35	19.35	19.48								
15	ZSSBQAM	50	0	19.51	19.38	19.53								
15	ZSSBQAM	50	20	19.36	19.54	19.64	20.5	1						
15	ZSSBQAM	50	39	19.37	19.46	19.65								
15	ZSSBQAM	50	58	19.34	19.53	19.48								
15	ZSSBQAM	75	0	19.34	19.53	19.48								
Channel														
Frequency [MHz]			Turn-up time (sec)	MFR (dB)										
16	QPSK	1	0	20.37	20.41	20.46	21.5	0						
16	QPSK	1	25	20.28	20.38	20.41								
16	QPSK	1	49	20.31	20.37	20.49								
16	QPSK	25	0	20.48	20.44	20.49								
16	QPSK	25	12	20.48	20.48	20.51	21.5	0						
16	QPSK	25	25	20.48	20.48	20.51								
16	QPSK	50	0	20.52	20.48	20.52								
16	QPSK	50	0	20.48	20.51	20.54								
16	HQAM	1	25	20.02	20.01	20.54	21.5	0						
16	HQAM	1	49	20.40	20.47	20.58								
16	HQAM	50	0	20.25	20.27	20.24								
16	HQAM	25	12	20.27	20.24	20.38								
16	HQAM	25	25	20.21	20.30	20.30	21.5	0						
16	HQAM	50	0	20.24	20.02	20.35								
16	HQAM	1	0	20.05	20.03	20.04								
16	HQAM	25	0	20.05	20.03	20.09								
16	HQAM	1	49	20.42	20.53	20.69	21.5	0						
16	HQAM	25	0	20.48	20.42	20.50								
16	HQAM	25	13	20.48	20.46	20.58								
16	HQAM	25	25	20.45	20.52	20.58								
16	ZSSBQAM	1	0	19.33	19.47	19.46	20.5	1						
16	ZSSBQAM	1	25	19.18	19.42	19.53								
16	ZSSBQAM	1	49	19.24	19.40	19.45								
16	ZSSBQAM	25	0	19.50	19.46	19.55								
16	ZSSBQAM	25	12	19.52	19.36	19.54	20.5	1						
16	ZSSBQAM	25	25	19.52	19.36	19.54								
16	ZSSBQAM	25	25	19.52	19.36	19.54								
16	ZSSBQAM	25	25	19.52	19.36	19.54								
Channel														
Frequency [MHz]			Turn-up time (sec)	MFR (dB)										
5	QPSK	1	0	20.43	20.36	20.39	21.5	0						
5	QPSK	1	12	20.39	20.49	20.49								
5	QPSK	1	24	20.40	20.44	20.54								
5	QPSK	12	0	20.53	20.46	20.47								
5	QPSK	12	7	20.54	20.50	20.58	21.5	0						
5	QPSK	12	13	20.54	20.50	20.58								
5	QPSK	25	0	20.53	20.48	20.58								
5	QPSK	25	0	20.52	20.47	20.49								
5	HQAM	1	12	20.50	20.52	20.52	21.5	0						
5	HQAM	1	24	20.48	20.53	20.59								
5	HQAM	12	0	20.30	20.23	20.25								
5	HQAM	12	7	20.30	20.27	20.38								
5	HQAM	12	13	20.28	20.30	20.38	21.5	0						
5	HQAM	25	0	20.28	20.24	20.31								
5	HQAM	25	0	20.38	20.38	20.35								
5	HQAM	1	12	20.41	20.39	20.43								
5	HQAM	12	24	20.41	20.47	20.48	21.5	0						
5	HQAM	12	0	20.45	20.47	20.48								
5														

Band 66 DSI 5											
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch. 1 (MHz)	Power Low 132072	Power Main Ch. 1 (MHz)	Power Main 132052	Power High Ch. 1 (MHz)	Power High 132072	Tune-up freq. offset	MPR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	20.40	20.50	20.30	20.30				
20	QPSK	1	40	20.28	20.22	20.21	20.21	21.5	0		
20	QPSK	1	50	20.23	20.15	20.08	20.08				
20	QPSK	50	0	20.43	20.48	20.35	20.35				
20	QPSK	50	24	20.43	20.40	20.30	20.30	21.5	0		
20	QPSK	50	50	20.38	20.30	20.20	20.20				
20	QPSK	100	0	20.34	20.38	20.27	20.27				
20	16QAM	1	0	19.94	19.85	19.31	19.31	21.5	0		
20	16QAM	1	40	19.86	19.71	19.14	19.14				
20	16QAM	1	50	20.00	20.18	20.05	20.05				
20	16QAM	50	0	20.41	20.36	20.31	20.31				
20	16QAM	50	24	20.47	20.41	20.26	20.26	21.5	0		
20	16QAM	50	50	20.38	20.32	20.20	20.20				
20	16QAM	100	0	20.42	20.37	20.26	20.26				
20	16QAM	1	0	19.85	19.12	19.10	19.10				
20	16QAM	1	40	20.31	20.31	20.13	20.13	21.5	0		
20	16QAM	1	50	19.87	20.18	20.04	20.04				
20	16QAM	50	0	20.41	20.36	20.31	20.31				
20	16QAM	50	24	20.46	20.39	20.31	20.31	21.5	0		
20	16QAM	50	50	20.36	20.31	20.27	20.27				
20	16QAM	100	0	20.43	20.37	20.24	20.24				
20	25QAM	1	0	19.92	19.40	19.46	19.46				
20	25QAM	1	40	19.27	19.10	19.17	19.17	20.5	1		
20	25QAM	1	50	19.30	19.07	19.00	19.00				
20	25QAM	50	0	19.33	19.49	19.47	19.47				
20	25QAM	50	24	19.34	19.39	19.25	19.25	20.5	1		
20	25QAM	50	50	19.25	19.21	19.17	19.17				
20	25QAM	100	0	19.29	19.32	19.24	19.24				
Channel											
Frequency (MHz)											
15	QPSK	1	0	20.22	20.23	20.23	20.23				
15	QPSK	1	37	20.09	20.16	20.16	20.16	21.5	0		
15	QPSK	1	74	20.09	20.13	20.04	20.04				
15	QPSK	36	0	20.32	20.30	20.10	20.10				
15	QPSK	36	20	20.29	20.37	20.22	20.22	21.5	0		
15	QPSK	36	36	20.21	20.25	20.14	20.14				
15	QPSK	75	0	20.24	20.31	20.11	20.11				
15	16QAM	1	0	20.47	20.47	20.43	20.43				
15	16QAM	1	37	20.49	20.49	20.28	20.28	21.5	0		
15	16QAM	1	74	20.11	20.40	20.24	20.24				
15	16QAM	36	0	20.32	20.28	20.12	20.12				
15	16QAM	36	20	20.34	20.34	20.22	20.22	21.5	0		
15	16QAM	36	36	20.27	20.26	20.14	20.14				
15	16QAM	75	0	20.28	20.32	20.10	20.10				
15	16QAM	1	0	19.99	20.02	20.00	20.00				
15	16QAM	1	37	20.00	20.16	20.00	20.00	21.5	0		
15	16QAM	1	74	19.94	20.07	19.87	19.87				
15	16QAM	36	0	20.25	20.25	20.11	20.11				
15	16QAM	36	20	20.25	20.31	20.23	20.23	21.5	0		
15	16QAM	36	36	20.26	20.23	20.13	20.13				
15	16QAM	75	0	20.26	20.31	20.10	20.10				
15	25QAM	1	0	19.20	19.21	19.32	19.32				
15	25QAM	1	37	19.08	19.22	19.03	19.03	20.5	1		
15	25QAM	1	74	19.15	19.16	19.04	19.04				
15	25QAM	36	0	19.43	19.26	19.10	19.10				
15	25QAM	36	20	19.20	19.32	19.12	19.12	20.5	1		
15	25QAM	36	36	19.15	19.27	19.26	19.26				
15	25QAM	75	0	19.33	19.35	19.09	19.09				
Channel											
Frequency (MHz)											
10	QPSK	1	0	20.19	20.32	20.31	20.31				
10	QPSK	1	20	20.17	20.28	20.15	20.15	21.5	0		
10	QPSK	1	40	20.14	20.18	20.11	20.11				
10	QPSK	25	0	20.33	20.33	20.27	20.27				
10	QPSK	25	10	20.31	20.41	20.28	20.28	21.5	0		
10	QPSK	25	20	20.28	20.33	20.20	20.20				
10	QPSK	50	0	20.33	20.37	20.24	20.24				
10	16QAM	1	0	20.23	20.27	20.20	20.20				
10	16QAM	1	20	20.13	20.19	20.20	20.20	21.5	0		
10	16QAM	1	40	20.10	20.10	20.09	20.09				
10	16QAM	25	0	20.35	20.31	20.20	20.20				
10	16QAM	25	12	20.31	20.36	20.27	20.27	21.5	0		
10	16QAM	25	25	20.21	20.32	20.20	20.20				
10	16QAM	50	0	20.31	20.37	20.27	20.27				
10	16QAM	1	0	20.30	20.26	20.24	20.24				
10	16QAM	1	20	20.25	20.24	20.26	20.26	21.5	0		
10	16QAM	1	40	20.28	20.26	20.28	20.28				
10	16QAM	25	0	20.32	20.34	20.29	20.29				
10	16QAM	25	12	20.26	20.40	20.20	20.20	21.5	0		
10	16QAM	25	25	20.25	20.27	20.28	20.28				
10	25QAM	50	0	20.29	20.32	20.24	20.24				
10	25QAM	1	0	19.06	19.25	19.21	19.21				
10	25QAM	1	20	19.16	19.23	19.06	19.06	20.5	1		
10	25QAM	1	40	19.02	19.21	19.10	19.10				
10	25QAM	25	0	19.28	19.40	19.20	19.20				
10	25QAM	25	12	19.27	19.36	19.16	19.16	20.5	1		
10	25QAM	25	25	19.34	19.43	19.26	19.26				
10	25QAM	50	0	19.42	19.24	19.13	19.13				
Channel											
Frequency (MHz)											
5	QPSK	1	0	20.17	20.13	20.00	20.00				
5	QPSK	1	12	20.18	20.13	20.06	20.06	21.5	0		
5	QPSK	1	24	20.07	20.11	19.94	19.94				
5	QPSK	12	0	20.30	20.16	20.15	20.15				
5	QPSK	12	7	20.30	20.28	20.16	20.16	21.5	0		
5	QPSK	12	14	20.23	20.18	20.11	20.11				
5	QPSK	24	0	20.23	20.18	20.11	20.11				
5	16QAM	1	0	20.48	20.34	20.34	20.34				
5	16QAM	1	12	20.39	20.33	20.31	20.31	21.5	0		
5	16QAM	1	24	20.39	20.32	20.27	20.27				
5	16QAM	12	0	20.29	20.21	20.20	20.20				
5	16QAM	12	7	20.32	20.27	20.20	20.20	21.5	0		
5	16QAM	12	14	20.27	20.19	20.14	20.14				
5	16QAM	24	0	20.24	20.19	20.16	20.16				
5	16QAM	1	0	20.40	20.30	20.28	20.28				
5	16QAM	1	12	20.38	20.32	20.22	20.22	21.5	0		
5	16QAM	1	24	20.31	20.29	20.20	20.20				
5	16QAM	12	0	20.28	20.18	20.16	20.16				
5	16QAM	12	7	20.30	20.28	20.22	20.22	21.5	0		
5	16QAM	12	14	20.24	20.19	20.13	20.13				
5	16QAM	24	0	20.29	20.23	20.17	20.17				
5	25QAM	1	0	19.17	19.11	19.02	19.02				
5	25QAM	1	12	19.14	19.18	19.05	19.05	20.5	1		
5	25QAM	1	24	19.17	19.20	19.01	19.01				
5	25QAM	12	0	19.37	19.20	19.04	19.04				
5	25QAM	12	7	19.23	19.20	19.04	19.04	20.5	1		
5	25QAM	12	14	19.35	19.30	19.07	19.07				
5	25QAM	24	0	19.25	19.08	19.03	19.03				
Channel											
Frequency (MHz)											
3	QPSK	1	0	20.15	20.09	20.02	20.02				
3	QPSK	1	8	20.15	20.12	20.02	20.02	21.5	0		
3	QPSK	1	14	20.12	20.07	19.94	19.94				
3	QPSK	8	0	20.20	20.12	20.11	20.11				
3	QPSK	8	4	20.25	20.19	20.11	20.11	21.5	0		
3	QPSK	8	7	20.20	20.17	20.08	20.08				
3	QPSK	15	0	20.19	20.15	20.06	20.06				
3	16QAM	1	0	20.04	20.00	20.00	20.00				
3	16QAM	1	8	20.14	20.02	19.96	19.96	21.5	0		
3	16QAM	1	14	20.07	20.03	19.95	19.95				
3	16QAM	8	0	20.21	20.12	20.11	20.11				
3	16QAM	8	4	20.26	20.20	20.12	20.12	21.5	0		
3	16QAM	8	7	20.23	20.19	20.10	20.10				
3	16QAM	15	0	20.34	20.32	20.20	20.20				
3	16QAM	1	0	20.37	20.32	20.21	20.21	21.5	0		
3	16QAM	1	8	20.25	20.14	20.13	20.13				
3	16QAM	1	14	20.28	20.17	20.17	20.17				
3	16QAM	8	0	20.29	20.20	20.20	20.20	21.5	0		
3	16QAM	8	4	20.28	20.19	20.17	20.17				
3	16QAM	8	7	20.21	20.16	20.11	20.11				
3	16QAM	15	0	20.32	20.20	20.19	20.19				
3	16QAM	1	0	19.12	19.07	19.11					

Band 38 DSI 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	21	0	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	20.03	20.21	20.04	21	0	
20	QPSK	1	49	20.10	20.06	20.05			
20	QPSK	1	99	20.13	20.05	20.07			
20	QPSK	50	0	20.17	20.16	20.13			
20	QPSK	50	24	20.06	19.99	19.92	21	0	
20	QPSK	50	50	20.06	19.97	19.87			
20	QPSK	100	0	19.98	19.99	19.93			
20	16QAM	1	0	19.93	20.05	20.00			
20	16QAM	1	49	19.98	19.91	19.94	21	0	
20	16QAM	1	99	20.04	19.95	19.98			
20	16QAM	50	0	20.02	19.97	19.95			
20	16QAM	50	24	20.11	20.04	19.96			
20	16QAM	50	50	20.10	20.02	19.94	21	0	
20	16QAM	100	0	20.01	20.04	19.93			
20	64QAM	1	0	20.17	20.21	20.13			
20	64QAM	1	49	20.16	20.16	20.16		21	0
20	64QAM	1	99	20.13	20.06	20.07			
20	64QAM	50	0	20.06	20.03	20.03			
20	64QAM	50	24	20.13	20.10	20.06			
20	64QAM	50	50	20.17	20.10	20.01	21	0	
20	64QAM	100	0	20.15	20.20	20.11			
20	256QAM	1	0	19.80	19.87	19.80			
20	256QAM	1	49	19.82	19.74	19.73		20.5	0.5
20	256QAM	1	99	19.74	19.83	19.82			
20	256QAM	50	0	19.69	19.78	19.68			
20	256QAM	50	24	19.76	19.84	19.79	20.5	0.5	
20	256QAM	50	50	19.91	19.93	19.88			
20	256QAM	100	0	19.99	19.94	19.92			
Channel				37925	38000	38175	21	0	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	20.03	20.00	19.98	21	0	
15	QPSK	1	37	20.08	20.00	19.95			
15	QPSK	1	74	20.05	20.02	20.00			
15	QPSK	36	0	19.85	19.82	19.86		21	0
15	QPSK	36	20	20.01	19.95	19.94			
15	QPSK	36	39	20.00	19.95	19.92			
15	QPSK	75	0	19.95	19.97	19.95			
15	16QAM	1	0	20.00	19.96	19.90	21	0	
15	16QAM	1	37	19.81	19.84	19.74			
15	16QAM	1	74	20.05	19.97	19.89			
15	16QAM	36	0	20.15	20.13	20.17		21	0
15	16QAM	36	20	20.18	20.16	20.14			
15	16QAM	36	39	20.22	20.13	20.11			
15	16QAM	75	0	20.18	20.24	20.17		21	0
15	64QAM	1	0	20.21	20.16	20.11			
15	64QAM	1	37	20.18	20.11				
15	64QAM	1	74	20.10	20.07	20.03		21	0
15	64QAM	36	0	20.12	20.07	20.10			
15	64QAM	36	20	20.17	20.13	20.09			
15	64QAM	36	39	20.15	20.11	20.09		20.5	0.5
15	64QAM	75	0	20.11	20.13	20.10			
15	256QAM	1	0	19.92	19.95	19.96			
15	256QAM	1	37	20.03	19.97	19.97	20.5	0.5	
15	256QAM	1	74	20.01	20.04	19.99			
15	256QAM	36	0	19.83	19.76	19.91			
15	256QAM	36	20	19.87	19.76	19.87			
15	256QAM	36	39	19.87	19.84	20.00	20.5	0.5	
15	256QAM	75	0	20.00	19.98	19.97			
Channel				37900	38000	38200	21	0	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	20.14	20.12	20.12	21	0	
10	QPSK	1	25	20.14	20.10	20.06			
10	QPSK	1	49	20.20	20.14	20.14			
10	QPSK	25	0	19.88	19.83	19.79		21	0
10	QPSK	25	12	20.06	20.01	19.99			
10	QPSK	25	25	20.02	20.01	19.99			
10	QPSK	50	0	20.04	20.02	19.97		21	0
10	16QAM	1	0	20.04	19.97	20.01			
10	16QAM	1	25	20.01	19.96	19.93			
10	16QAM	1	49	20.09	20.00	19.97		21	0
10	16QAM	25	0	20.18	20.15	20.16			
10	16QAM	25	12	20.10	20.04	20.04			
10	16QAM	25	25	20.08	20.03	20.02		21	0
10	16QAM	50	0	20.09	20.06	20.03			
10	64QAM	1	0	20.02	20.02	20.01			
10	64QAM	1	25	20.03	20.16	20.06		21	0
10	64QAM	1	49	20.17	20.12	20.08			
10	64QAM	25	0	20.10	20.04	20.03			
10	64QAM	25	12	20.19	20.16			21	0
10	64QAM	25	25	20.17	20.15	20.11			
10	64QAM	50	0	20.19	20.10	20.09			
10	256QAM	1	0	19.85	19.75	19.81	20.5	0.5	
10	256QAM	1	25	19.80	19.86	19.88			
10	256QAM	1	49	19.89	19.84	19.89			
10	256QAM	25	0	19.85	19.86	19.90		20.5	0.5
10	256QAM	25	12	19.75	19.71	19.81			
10	256QAM	25	25	19.75	19.75	19.83			
10	256QAM	50	0	19.73	19.76	19.85			
Channel				37775	38000	38225	21	0	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	20.11	20.03	20.06	21	0	
5	QPSK	1	12	20.11	20.06	20.13			
5	QPSK	1	24	20.09	20.05	20.09			
5	QPSK	12	0	19.93	19.81	19.78		21	0
5	QPSK	12	7	20.05	20.00	20.02			
5	QPSK	12	13	20.01	19.97	20.00			
5	QPSK	25	0	20.01	20.00	19.97		21	0
5	16QAM	1	0	19.99	19.94	19.84			
5	16QAM	1	12	20.17	20.02	19.91			
5	16QAM	1	24	20.08	20.06	19.94		21	0
5	16QAM	12	0	20.19	20.13	20.14			
5	16QAM	12	7	20.03	20.04	20.01			
5	16QAM	12	13	20.03	20.01	19.94		21	0
5	16QAM	25	0	20.08	20.05	19.98			
5	64QAM	1	0	20.05	19.96	20.15		21	0
5	64QAM	1	12	20.11	20.07	20.15			
5	64QAM	1	24	19.97	19.97	20.15			
5	64QAM	12	0	20.11	20.01	20.11		21	0
5	64QAM	12	7	20.20	20.17	20.10			
5	64QAM	12	13	20.15	20.14	20.12			
5	64QAM	25	0	20.15	20.14	20.10		20.5	0.5
5	256QAM	1	0	19.85	19.82	19.80			
5	256QAM	1	12	19.80	19.77	19.84			
5	256QAM	1	24	19.86	19.87	19.85		20.5	0.5
5	256QAM	12	0	19.82	19.80	19.81			
5	256QAM	12	7	19.83	19.91	19.92			
5	256QAM	12	13	19.86	19.86	19.89			
5	256QAM	25	0	20.07	19.97	19.98	20.5	0.5	

Band 41 DSI 5									
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.	
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	19.88	20.04	20.12	19.93	19.99	21
20	QPSK	1	49	19.91	19.86	19.91	19.82	19.91	
20	QPSK	1	99	19.85	19.85	19.97	19.91	19.94	
20	QPSK	50	0	19.93	19.95	20.1	19.94	19.99	21
20	QPSK	50	24	20.02	20.01	20.98	19.94	19.98	
20	QPSK	50	50	20.03	20.00	20.06	20.00	20.06	
20	QPSK	100	0	20.02	20.05	20.07	19.93	20.03	21
20	QPSK	1	0	19.81	19.77	19.92	19.82	19.94	
20	16QAM	1	49	19.74	19.72	19.76	19.88	19.91	
20	16QAM	1	99	19.78	19.73	19.84	19.82	19.85	21
20	16QAM	50	0	19.74	19.74	19.77	19.74	19.79	
20	16QAM	50	24	19.83	19.84	19.78	19.75	19.79	
20	16QAM	50	50	19.82	19.80	19.87	19.80	19.86	21
20	16QAM	100	0	19.83	19.82	19.74	19.73	19.85	
20	64QAM	1	0	19.93	19.74	19.83	19.82	19.98	
20	64QAM	1	49	19.76	19.69	19.78	19.68	19.82	21
20	64QAM	1	99	19.83	19.76	19.84	19.79	19.98	
20	64QAM	50	0	19.93	19.91	19.93	19.88	19.95	
20	64QAM	50	24	19.99	19.99	19.94	19.92	19.94	21
20	64QAM	50	50	19.98	19.99	20.04	19.98	20.02	
20	64QAM	100	0	20.08	20.07	20.09	19.99	20.11	
20	256QAM	1	0	20.04	20.03	20.01	20.04	19.99	20.5
20	256QAM	1	49	19.92	19.79	19.83	19.76	19.91	
20	256QAM	1	99	19.84	19.70	19.87	19.76	19.87	
20	256QAM	50	0	19.78	19.85	19.87	19.84	20.00	20.5
20	256QAM	50	24	19.96	19.93	19.97	19.96	19.97	
20	256QAM	50	50	19.99	20.00	19.95	19.98	19.96	
20	256QAM	100	0	20.03	20.05	19.98	20.02	19.97	
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2505.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	19.82	19.87	19.85	19.86	19.92	21
15	QPSK	1	37	19.80	19.85	19.85	19.81	19.83	
15	QPSK	1	74	19.88	19.98	19.97	19.93	19.95	
15	QPSK	36	0	19.93	19.96	19.99	19.92	19.95	21
15	QPSK	36	20	20.00	20.01	19.96	20.01	19.94	
15	QPSK	36	39	20.01	20.00	20.02	19.97	20.04	
15	QPSK	75	0	20.03	20.05	19.98	20.02	19.97	21
15	64QAM	1	0	20.02	20.02	20.04	20.03	20.08	
15	16QAM	1	37	19.84	19.88	19.84	19.89	20.00	
15	16QAM	1	74	20.06	20.08	20.11	20.08	20.08	21
15	16QAM	36	0	19.95	19.92	19.95	19.92	19.94	
15	16QAM	36	20	20.00	19.99	19.92	19.95	19.96	
15	16QAM	36	39	20.01	19.97	19.98	19.97	19.98	21
15	16QAM	75	0	20.04	20.03	20.01	20.04	19.95	
15	64QAM	1	0	19.92	19.79	19.83	19.76	19.91	
15	64QAM	1	37	19.84	19.85	19.87	19.76	19.87	21
15	64QAM	1	74	19.78	19.80	19.87	19.84	20.00	
15	64QAM	36	0	19.96	19.93	20.00	19.98	19.97	
15	64QAM	36	20	19.99	20.00	19.95	19.98	19.98	21
15	64QAM	36	39	20.02	20.01	20.07	20.01	20.03	
15	64QAM	75	0	20.02	20.05	20.00	19.99	19.97	
15	64QAM	1	0	19.80	19.81	19.89	19.84	19.89	20.5
15	64QAM	1	37	19.84	19.82	19.85	19.86	19.90	
15	64QAM	1	74	19.84	19.77	19.75	19.71	19.81	
15	64QAM	36	0	19.71	19.77	19.85	19.75	19.81	20.5
15	64QAM	36	0	19.71	19.72	19.75	19.75	19.83	
15	64QAM	36	20	19.81	19.73	19.73	19.76	19.85	
15	64QAM	36	39	19.92	19.79	19.83	19.76	19.91	20.5
15	64QAM	75	0	19.84	19.70	19.87	19.76	19.87	
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2500	2541	2593	2639	2685	
10	QPSK	1	0	19.95	19.90	19.90	19.97	20.05	21
10	QPSK	1	25	19.89	19.93	19.98	19.97	19.95	
10	QPSK	1	49	19.94	19.98	19.97	19.96	19.96	
10	QPSK	25	0	19.96	19.97	20.03	19.96	20.01	21
10	QPSK	25	12	20.06	20.05	20.05	20.05	19.99	
10	QPSK	50	0	20.03	20.02	20.03	20.06	20.08	
10	QPSK	50	0	20.05	20.05	20.01	20.04	19.98	21
10	16QAM	1	0	20.06	20.07	20.08	20.05	20.06	
10	16QAM	1	25	20.06	20.04	19.78	20.08	20.10	
10	16QAM	1	49	20.05	20.07	19.89	20.05	20.08	21
10	16QAM	25	0	19.73	19.74	19.85	19.75	19.81	
10	16QAM	25	12	19.88	19.83	19.98	19.98	19.85	
10	16QAM	25	25	19.80	19.81	19.89	19.84	19.89	21
10	16QAM	50	0	19.84	19.82	19.85	19.86	19.90	
10	64QAM	1	0	19.84	19.77	19.75	19.71	19.81	
10	64QAM	1	25	19.71	19.72	19.75	19.75	19.83	21
10	64QAM	1	49	19.81	19.73	19.75	19.76	19.81	
10	64QAM	25	0	19.98	19.96	19.98	19.94	20.00	
10	64QAM	25	12	20.07	20.08	20.03	20.07	20.10	21
10	64QAM	25	0	20.01	20.02	20.07	20.00	20.07	
10	64QAM	50	0	20.01	20.01	20.01	20.02	20.08	
10	256QAM	1	0	19.80	19.77	19.84	19.81	19.82	20.5
10	256QAM	1	0	19.86	19.85	19.87	19.91	19.91	
10	256QAM	1	49	19.82	19.80	19.81	19.80	19.84	
10	256QAM	25	0	19.95	19.90	19.94	19.85	19.91	20.5
10	256QAM	25	12	19.81	19.75	19.76	19.76	19.82	
10	256QAM	25	25	19.85	19.82	19.80	19.82	19.88	
10	256QAM	50	0	19.80	19.77	19.84	19.80	19.87	
Channel				39675	40148	40620	41093	41565	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	19.97	19.89	19.94	19.87	19.90	21
5	QPSK	1	12	19.98	19.94	19.99	19.90	19.97	
5	QPSK	1	24	19.83	19.89	19.99	19.93	19.92	
5	QPSK	12	0	20.07	19.99	20.05	20.05	20.08	21
5	QPSK	12	7	19.98	20.07	20.05	20.09	20.10	
5	QPSK	12	13	20.07	20.05	19.98	20.02	20.10	
5	QPSK	25	0	20.05	20.05	20.00	20.01	20.06	21
5	16QAM	1	0	19.88	19.79	19.83	19.80	19.86	
5	16QAM	1	12	19.89	19.82	19.86	19.89	19.91	
5	16QAM	1	24	19.95	19.90	19.94	19.85	19.91	21
5	16QAM	12	0	19.81	19.75	19.76	19.76	19.82	
5	16QAM	12	7	19.85	19.82	19.80	19.82	19.88	
5	16QAM	12	13	19.80	19.77	19.84	19.81	19.82	21
5	16QAM	25	0	19.86	19.87	19.85	19.87	19.91	
5	16QAM	1	0	19.82	19.80	19.81	19.80	19.84	
5	64QAM	1	12	19.83	19.91	19.92	19.85	19.90	21
5	64QAM	1	24	19.86	19.86	19.89	19.84	19.90	
5	64QAM	12	0	20.07	19.97	19.98	19.98	20.00	
5	64QAM	12	7	20.08	20.03	20.02	20.09	20.06	21
5	64QAM	12	13	20.02	20.01	20.07	19.99	20.08	
5	64QAM	204	0	20.04	20.05	20.04	20.04	20.02	
5	256QAM	1	0	20.03	20.04	20.01	19.81	19.75	20.5
5	256QAM	1	12	20.03	20.01	19.85	19.82	19.82	
5	256QAM	1	24	20.08	20.05	19.98	19.80	19.77	
5	256QAM	12	0	20.05	19.96	20.15	19.86	19.87	20.5
5	256QAM	12	7	20.08	20.06	19.94	19.82	19.85	
5	256QAM	13	0	20.14	20.13	20.14	19.81	19.82	
5	256QAM	25	0	20.03	20.04	20.01	19.87	19.91	



ANT3

		DS1 1		
Band		WCDMA V		
Tx Channel		4192	4192	4233
Rx Channel		4357	4407	4458
Frequency (MHz)		826.4	838.4	846.6
3GPP Rel 99	AMR 12.2Kbps	22.45	22.50	22.43
3GPP Rel 99	AMR 12.2Kbps	22.47	22.51	22.45
3GPP Rel 6	HSDPA Subtest-1	21.44	21.50	21.41
3GPP Rel 6	HSDPA Subtest-2	21.46	21.47	21.44
3GPP Rel 6	HSDPA Subtest-3	20.98	21.03	20.92
3GPP Rel 6	HSDPA Subtest-4	20.97	21.04	20.89
3GPP Rel 8	DC-HSDPA Subtest-1	21.41	21.48	21.37
3GPP Rel 8	DC-HSDPA Subtest-2	21.43	21.45	21.40
3GPP Rel 8	DC-HSDPA Subtest-3	20.95	21.01	20.88
3GPP Rel 8	DC-HSDPA Subtest-4	20.94	21.02	20.85
3GPP Rel 6	HSUPA Subtest-1	21.45	21.53	21.46
3GPP Rel 6	HSUPA Subtest-2	19.43	19.49	19.40
3GPP Rel 6	HSUPA Subtest-3	20.42	20.49	20.44
3GPP Rel 6	HSUPA Subtest-4	19.46	19.47	19.47
3GPP Rel 6	HSUPA Subtest-5	21.50	21.50	21.40

Band 5 DSI 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low (mW)	Power High (mW)	Power Low (mW)	Power High (mW)	Turn-on time (ms)	MPR (dB)
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.43	22.53	22.45	22.55	21.5	0
10	QPSK	1	26	22.26	22.33	22.34	22.41	21.5	0
10	QPSK	1	49	22.11	22.18	22.19	22.26	21.5	0
10	QPSK	25	0	22.34	22.41	22.36	22.43	21.5	0
10	QPSK	25	12	22.41	22.45	22.37	22.41	21.5	0
10	QPSK	25	26	22.36	22.41	22.37	22.41	21.5	0
10	QPSK	50	0	22.36	22.41	22.36	22.41	21.5	0
10	16QAM	1	0	22.34	22.45	22.37	22.48	21.5	0
10	16QAM	1	26	22.34	22.37	22.33	22.36	21.5	0
10	16QAM	1	49	22.12	22.12	22.17	22.17	21.5	0
10	16QAM	25	0	21.35	21.38	21.34	21.37	21.5	0
10	16QAM	25	12	21.33	21.34	21.35	21.36	21.5	0
10	16QAM	25	26	21.32	21.34	21.33	21.35	21.5	0
10	16QAM	50	0	21.39	21.33	21.38	21.38	21.5	0
10	16QAM	50	1	21.47	21.45	21.35	21.35	21.5	0
10	16QAM	1	26	21.45	21.47	21.29	21.29	21.5	1
10	16QAM	1	49	21.60	21.22	21.25	21.25	21.5	1
10	16QAM	25	0	21.49	21.28	21.33	21.33	21.5	1
10	16QAM	25	12	21.50	21.48	21.34	21.34	21.5	1
10	16QAM	25	26	21.35	21.38	21.35	21.35	21.5	1
10	16QAM	50	0	21.34	21.40	21.40	21.40	21.5	1
10	256QAM	1	0	17.30	17.48	17.32	17.50	19.5	4
10	256QAM	1	26	17.34	17.38	17.38	17.38	19.5	4
10	256QAM	1	49	17.10	17.26	16.98	16.98	19.5	4
10	256QAM	25	0	17.36	17.33	17.14	17.14	19.5	4
10	256QAM	25	12	17.49	17.38	17.26	17.26	19.5	4
10	256QAM	25	26	17.34	17.24	17.28	17.28	19.5	4
10	256QAM	50	0	17.38	17.14	17.18	17.18	19.5	4
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.51	22.53	22.52	22.54	21.5	0
5	QPSK	1	26	22.15	22.18	22.17	22.20	21.5	0
5	QPSK	1	49	22.11	22.11	22.20	22.20	21.5	0
5	QPSK	12	0	22.29	22.40	22.30	22.30	21.5	0
5	QPSK	12	13	22.41	22.22	22.28	22.28	21.5	0
5	QPSK	12	26	22.15	22.15	22.23	22.23	21.5	0
5	16QAM	1	0	22.44	22.45	22.54	22.54	21.5	0
5	16QAM	1	12	22.48	22.45	22.44	22.44	21.5	0
5	16QAM	1	26	22.31	22.31	22.35	22.35	21.5	0
5	16QAM	12	0	21.32	21.36	21.39	21.39	21.5	0
5	16QAM	12	7	21.41	21.34	21.27	21.27	21.5	1
5	16QAM	12	13	21.35	21.31	21.25	21.25	21.5	1
5	16QAM	25	0	21.25	21.23	21.31	21.31	21.5	1
5	16QAM	1	12	21.62	21.59	21.57	21.57	21.5	1
5	16QAM	1	26	21.63	21.44	21.45	21.45	21.5	1
5	16QAM	1	24	21.24	21.45	21.62	21.62	21.5	1
5	16QAM	1	2	21.28	21.28	21.27	21.27	21.5	2
5	16QAM	12	7	21.38	21.33	21.27	21.27	21.5	2
5	16QAM	12	13	21.51	21.59	21.50	21.50	21.5	2
5	16QAM	25	0	17.07	17.10	17.19	17.19	19.5	4
5	256QAM	1	12	17.23	17.39	17.24	17.24	19.5	4
5	256QAM	1	26	17.14	17.15	17.17	17.17	19.5	4
5	256QAM	12	0	17.03	17.32	17.21	17.21	19.5	4
5	256QAM	12	7	17.37	17.43	17.35	17.35	19.5	4
5	256QAM	12	13	17.11	17.27	17.18	17.18	19.5	4
5	256QAM	25	0	17.27	17.13	17.18	17.18	19.5	4
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.27	22.15	22.24	22.24	21.5	0
3	QPSK	1	1	22.33	22.36	22.26	22.26	21.5	0
3	QPSK	1	21	22.24	22.21	22.21	22.21	21.5	0
3	QPSK	8	0	22.12	22.27	22.28	22.28	21.5	0
3	QPSK	8	4	22.20	22.30	22.29	22.29	21.5	0
3	QPSK	8	12	22.38	22.33	22.37	22.37	21.5	0
3	QPSK	16	0	22.18	22.31	22.25	22.25	21.5	0
3	16QAM	1	0	22.45	22.45	22.44	22.44	21.5	0
3	16QAM	1	8	22.46	22.43	22.44	22.44	21.5	0
3	16QAM	1	14	22.25	22.53	22.25	22.25	21.5	0
3	16QAM	8	0	21.24	21.32	21.28	21.28	21.5	0
3	16QAM	8	4	21.35	21.38	21.29	21.29	21.5	1
3	16QAM	8	7	21.28	21.37	21.29	21.29	21.5	1
3	16QAM	16	0	21.20	21.31	21.25	21.25	21.5	1
3	16QAM	1	0	21.49	21.72	21.69	21.69	21.5	1
3	16QAM	1	2	21.76	21.58	21.62	21.62	21.5	1
3	16QAM	1	14	21.68	21.84	21.58	21.58	21.5	1
3	16QAM	8	0	20.49	20.53	20.58	20.58	21.5	2
3	16QAM	8	4	20.65	20.63	20.61	20.61	21.5	2
3	16QAM	8	7	20.52	20.83	20.54	20.54	21.5	2
3	16QAM	15	0	20.51	20.62	20.54	20.54	21.5	2
3	256QAM	1	0	17.14	17.05	17.11	17.11	19.5	4
3	256QAM	1	8	17.41	17.38	17.31	17.31	19.5	4
3	256QAM	1	14	17.31	17.11	17.10	17.10	19.5	4
3	256QAM	8	0	17.44	17.38	17.35	17.35	19.5	4
3	256QAM	8	4	17.38	17.38	17.41	17.41	19.5	4
3	256QAM	8	7	17.18	17.27	17.08	17.08	19.5	4
3	256QAM	15	0	17.45	17.50	17.35	17.35	19.5	4
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	22.22	22.11	22.16	22.16	21.5	0
1.4	QPSK	1	3	22.27	22.10	22.15	22.15	21.5	0
1.4	QPSK	1	5	22.14	22.14	22.05	22.05	21.5	0
1.4	QPSK	3	0	22.20	22.17	22.15	22.15	21.5	0
1.4	QPSK	3	1	22.28	22.25	22.21	22.21	21.5	0
1.4	QPSK	3	11	22.30	22.34	22.14	22.14	21.5	0
1.4	QPSK	8	0	21.88	22.25	22.24	22.24	21.5	0
1.4	16QAM	1	0	22.29	22.22	22.28	22.28	21.5	0
1.4	16QAM	1	3	22.05	22.41	22.35	22.35	21.5	0
1.4	16QAM	1	5	22.09	22.32	22.18	22.18	21.5	0
1.4	16QAM	3	0	22.05	22.10	22.07	22.07	21.5	0
1.4	16QAM	3	3	22.04	22.14	22.08	22.08	21.5	0
1.4	16QAM	8	0	21.80	21.29	21.27	21.27	21.5	1
1.4	16QAM	8	1	21.85	21.61	21.63	21.63	21.5	1
1.4	16QAM	1	3	21.77	21.68	21.62	21.62	21.5	1
1.4	16QAM	3	0	21.74	21.54	21.58	21.58	21.5	1
1.4	16QAM	3	3	21.58	21.54	21.49	21.49	21.5	1
1.4	16QAM	3	1	21.19	21.66	21.65	21.65	21.5	1
1.4	16QAM	3	11	21.24	21.53	21.55	21.55	21.5	1
1.4	16QAM	8	0	20.24	20.48	20.42	20.42	21.5	2
1.4	256QAM	1	0	17.09	17.01	17.03	17.03	19.5	4
1.4	256QAM	1	3	17.25	17.23	17.26	17.26	19.5	4
1.4	256QAM	1	5	17.13	17.01	16.94	16.94	19.5	4
1.4	256QAM	3	0	17.22	17.08	17.05	17.05	19.5	4
1.4	256QAM	3	1	17.36	17.28	17.26	17.26	19.5	4
1.4	256QAM	3	3	17.13	17.10	16.97	16.97	19.5	4
1.4	256QAM	8	0	17.59	16.99	17.14	17.14	19.5	4

Band 4 DSI 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low / High (mW)	Power Low / High (mW)	Power Low / High (mW)	Power Low / High (mW)	Turn-on time (ms)	MPR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	20.13	20.17	20.15	20.19	21.5	0
20	QPSK	1	49	20.07	20.13	20.08	20.14	21.5	0
20	QPSK	1	99	20.16	20.23	20.17	20.24	21.5	0
20	QPSK	50	0	20.16	20.22	20.13	20.19	21.5	0
20	QPSK	50	24	20.13	20.18	20.08	20.13	21.5	0
20	QPSK	50	50	20.09	20.15	20.09	20.15	21.5	0
20	QPSK	100	0	20.10	20.16	20.05	20.11	21.5	0
20	16QAM	1	0	20.30	20.35	20.28	20.33	21.5	0
20	16QAM	1	49	20.12	20.15	20.10	20.13	21.5	0
20	16QAM	1	99	20.30	20.35	20.30	20.35	21.5	0
20	16QAM	50	0	20.16	20.21	20.16	20.21	21.5	0
20	16QAM	50	24	20.13	20.18	20.13	20.18	21.5	0
20	16QAM	50	50	20.21	20.27	20.21	20.27	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.23	21.5	0
20	16QAM	100	0						

Band 38 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													
Frequency (MHz)				2580	2595	2610							
20	QPSK	1	0	17.89	17.92	17.88	18.5	0					
20	QPSK	1	49	17.67	17.56	17.75							
20	QPSK	1	99	17.70	17.69	17.67							
20	QPSK	50	0	17.76	17.84	17.78	18.5	0					
20	QPSK	50	24	17.83	17.80	17.81							
20	QPSK	50	50	17.81	17.74	17.71							
20	QPSK	100	0	17.70	17.79	17.71	18.5	0					
20	16QAM	1	0	17.72	17.69	17.71							
20	16QAM	1	49	17.77	17.77	17.74							
20	16QAM	1	99	17.68	17.66	17.89	18.5	0					
20	16QAM	50	0	17.76	17.73	17.75							
20	16QAM	50	24	17.89	17.85	17.72							
20	16QAM	50	50	17.80	17.81	17.77	18.5	0					
20	16QAM	100	0	17.71	17.76	17.72							
20	64QAM	1	0	17.43	17.54	17.47							
20	64QAM	1	49	17.57	17.63	17.44	18.5	0					
20	64QAM	1	99	17.59	17.81	17.79							
20	64QAM	50	0	17.75	17.70	17.63							
20	64QAM	50	24	17.80	17.75	17.69	18.5	0					
20	64QAM	50	50	17.78	17.84	17.67							
20	64QAM	100	0	17.82	17.78	17.73							
20	256QAM	1	0	12.76	12.82	12.75	18.5	0					
20	256QAM	1	49	12.75	12.59	12.80							
20	256QAM	1	99	12.69	12.68	12.56							
20	256QAM	50	0	12.78	12.75	12.64	18.5	0					
20	256QAM	50	24	12.91	12.83	12.86							
20	256QAM	50	50	12.80	12.47	12.69							
20	256QAM	100	0	12.79	12.56	12.74							
Channel													
Frequency (MHz)				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)					
15	QPSK	1	0	17.60	17.50	17.80	18.5	0					
15	QPSK	1	37	17.63	17.61	17.59							
15	QPSK	1	74	17.74	17.73	17.68							
15	QPSK	36	0	17.72	17.76	17.81	18.5	0					
15	QPSK	36	20	17.80	17.81	17.78							
15	QPSK	36	39	17.75	17.69	17.80							
15	QPSK	75	0	17.79	17.74	17.79	18.5	0					
15	16QAM	1	0	17.63	17.57	17.87							
15	16QAM	1	37	17.49	17.54	17.58							
15	16QAM	1	74	17.75	17.67	17.86	18.5	0					
15	16QAM	36	0	17.69	17.69	17.69							
15	16QAM	36	20	17.74	17.72	17.77							
15	16QAM	36	39	17.80	17.80	17.74	18.5	0					
15	16QAM	75	0	17.75	17.71	17.82							
15	64QAM	1	0	17.54	17.71	17.39							
15	64QAM	1	37	17.59	17.42	17.50	18.5	0					
15	64QAM	1	74	17.59	17.61	17.52							
15	64QAM	36	0	17.72	17.75	17.80							
15	64QAM	36	20	17.74	17.85	17.78	18.5	0					
15	64QAM	36	39	17.75	17.76	17.77							
15	64QAM	75	0	17.77	17.83	17.83							
15	256QAM	1	0	17.84	17.71	17.83	18.5	0					
15	256QAM	1	37	17.75	17.73	17.69							
15	256QAM	1	74	17.85	17.75	17.81							
15	256QAM	36	0	17.72	17.72	17.81	18.5	0					
15	256QAM	36	20	17.82	17.66	17.84							
15	256QAM	36	39	17.77	17.67	17.88							
15	256QAM	75	0	17.69	17.69	17.69							
Channel													
Frequency (MHz)				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)					
10	QPSK	1	0	17.67	17.75	17.73	18.5	0					
10	QPSK	1	25	17.66	17.67	17.64							
10	QPSK	1	49	17.80	17.81	17.89							
10	QPSK	25	0	17.66	17.72	17.60	18.5	0					
10	QPSK	25	12	17.83	17.89	17.89							
10	QPSK	25	25	17.87	17.86	17.78							
10	QPSK	50	0	17.87	17.80	17.86	18.5	0					
10	16QAM	1	0	17.77	17.69	17.81							
10	16QAM	1	25	17.75	17.72	17.81							
10	16QAM	1	49	17.84	17.71	17.83	18.5	0					
10	16QAM	25	0	17.75	17.73	17.78							
10	16QAM	25	12	17.85	17.75	17.81							
10	16QAM	25	25	17.72	17.72	17.81	18.5	0					
10	16QAM	50	0	17.82	17.86	17.84							
10	64QAM	1	0	17.77	17.67	17.68							
10	64QAM	1	25	17.88	17.47	17.70	18.5	0					
10	64QAM	1	49	17.69	17.60	17.76							
10	64QAM	25	0	17.57	17.69	17.79							
10	64QAM	25	12	17.79	17.77	17.77	18.5	0					
10	64QAM	25	25	17.64	17.71	17.66							
10	64QAM	50	0	17.76	17.80	17.78							
10	256QAM	1	0	17.84	17.71	17.83	18.5	0					
10	256QAM	1	25	17.75	17.73	17.69							
10	256QAM	1	49	17.85	17.75	17.81							
10	256QAM	25	0	17.72	17.72	17.81	18.5	0					
10	256QAM	25	12	17.85	17.75	17.81							
10	256QAM	25	25	17.72	17.72	17.81							
10	256QAM	50	0	17.82	17.86	17.84							
Channel													
Frequency (MHz)				2572.5	2595	2617.5	Tune-up limit (dBm)	MPR (dB)					
5	QPSK	1	0	17.62	17.61	17.66	18.5	0					
5	QPSK	1	12	17.63	17.73	17.63							
5	QPSK	1	24	17.70	17.70	17.76							
5	QPSK	12	0	17.80	17.73	17.84	18.5	0					
5	QPSK	12	7	17.83	17.88	17.83							
5	QPSK	12	13	17.86	17.85	17.82							
5	QPSK	25	0	17.76	17.80	17.83	18.5	0					
5	16QAM	1	0	17.75	17.73	17.81							
5	16QAM	1	12	17.70	17.77	17.75							
5	16QAM	1	24	17.78	17.84	17.83	18.5	0					
5	16QAM	12	0	17.72	17.78	17.72							
5	16QAM	12	7	17.79	17.80	17.81							
5	16QAM	12	13	17.74	17.77	17.75	18.5	0					
5	16QAM	25	0	17.81	17.82	17.85							
5	64QAM	1	0	17.44	17.45	17.59							
5	64QAM	1	12	17.54	17.49	17.61	18.5	0					
5	64QAM	1	24	17.55	17.64	17.70							
5	64QAM	12	0	17.79	17.73	17.69							
5	64QAM	12	7	17.80	17.81	17.83	18.5	0					
5	64QAM	12	13	17.74	17.73	17.82							
5	64QAM	25	0	17.76	17.79	17.77							



ANT4

DSI 1							
GSM1900							
Burst Average Power (dBm)				Frame Average Power (dBm)			
TX Channel		Tune-up		Tune-up		Tune-up	
Frequency (MHz)		Limit (dBm)		Limit (dBm)		Limit (dBm)	
1850.2		1860		1850.2		1860	
1850.2		1860		1850.2		1860	
GSM 1 Tx slot		29.02		29.17		28.96	
GPRS 1 Tx slot		29.01		29.15		28.94	
GPRS 2 Tx slot		25.88		25.93		25.69	
GPRS 3 Tx slot		23.63		23.98		23.86	
GPRS 4 Tx slot		22.61		22.75		22.62	
EDGE 1 Tx slot		25.17		25.01		24.89	
EDGE 2 Tx slot		21.64		21.66		21.24	
EDGE 3 Tx slot		19.40		19.43		19.15	
EDGE 4 Tx slot		17.44		17.43		17.21	

DSI 1/5							
Band							
WCDMA 8				WCDMA 11			
TX Channel		Tune-up		Tune-up		Tune-up	
Rx Channel		Limit (dBm)		Limit (dBm)		Limit (dBm)	
Frequency (MHz)		1852.4		1850		1850.75	
3GPP Rel 99		20.11		20.20		20.19	
3GPP Rel 99		20.12		20.23		20.21	
3GPP Rel 6		19.22		19.35		19.21	
3GPP Rel 6		19.27		19.36		19.27	
3GPP Rel 6		18.36		18.45		18.75	
3GPP Rel 6		18.64		18.80		18.72	
3GPP Rel 6		19.19		19.33		19.17	
3GPP Rel 6		19.24		19.34		19.23	
3GPP Rel 6		18.33		18.43		18.71	
3GPP Rel 6		18.61		18.78		18.68	
3GPP Rel 6		19.19		19.31		19.22	
3GPP Rel 6		17.21		17.31		17.22	
3GPP Rel 6		18.23		18.32		18.21	
3GPP Rel 6		17.19		17.34		17.20	
3GPP Rel 6		19.10		19.30		19.20	

DSI 5							
GSM1900							
Burst Average Power (dBm)				Frame Average Power (dBm)			
TX Channel		Tune-up		Tune-up		Tune-up	
Frequency (MHz)		Limit (dBm)		Limit (dBm)		Limit (dBm)	
1850.2		1860		1850.2		1860	
1850.2		1860		1850.2		1860	
GSM 1 Tx slot		27.07		27.18		27.37	
GPRS 1 Tx slot		27.07		27.15		27.37	
GPRS 2 Tx slot		24.23		24.65		24.63	
GPRS 3 Tx slot		20.68		20.83		20.83	
GPRS 4 Tx slot		20.20		20.11		20.30	
EDGE 1 Tx slot		22.98		22.78		22.64	
EDGE 2 Tx slot		19.61		19.75		19.57	
EDGE 3 Tx slot		18.08		18.04		17.99	
EDGE 4 Tx slot		16.61		16.84		16.62	



Band 2 DSI 1/5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 18000	Power Mids Ch./Freq. 18500	Power High Ch./Freq. 19000	Tune-up (mHz)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	18.02	18.04	18.06			
20	QPSK	1	49	18.06	18.07	18.08	20.5	0	
20	QPSK	1	99	18.11	18.05	18.05			
20	QPSK	50	0	18.10	18.05	18.05			
20	QPSK	50	24	18.19	18.15	18.15			
20	QPSK	50	50	18.13	18.22	18.20	20.5	0	
20	QPSK	100	0	18.06	18.06	18.10			
20	16QAM	1	0	18.04	18.05	18.05			
20	16QAM	1	49	18.04	18.05	18.04	20.5	0	
20	16QAM	1	99	18.02	18.04	18.05			
20	16QAM	50	0	18.10	18.20	18.20			
20	16QAM	50	24	18.31	18.30	18.28	20.5	0	
20	16QAM	50	50	18.26	18.26	18.26			
20	16QAM	100	0	18.26	18.24	18.22			
20	64QAM	1	0	18.04	18.04	18.02	20.5	0	
20	64QAM	1	99	18.24	18.28	18.46			
20	64QAM	50	0	18.29	18.27	18.24			
20	64QAM	50	24	18.30	18.30	18.28	20.5	0	
20	64QAM	50	50	18.24	18.28	18.32			
20	64QAM	100	0	18.26	18.23	18.22			
20	256QAM	1	0	18.20	18.27	18.24			
20	256QAM	1	49	18.30	18.30	18.24	20.5	0	
20	256QAM	1	99	18.34	18.30	18.44			
20	256QAM	50	0	18.23	18.34	18.44			
20	256QAM	50	24	18.30	18.28	18.26	20.5	0	
20	256QAM	50	50	18.31	18.30	18.28			
20	256QAM	100	0	18.24	18.29	18.29			
Channel									
Frequency (MHz)									
15	QPSK	1	0	18.05	18.06	18.06	20.5	0	
15	QPSK	1	37	18.01	18.07	18.02			
15	QPSK	1	74	18.08	18.03	18.02			
15	QPSK	36	0	18.03	18.04	18.03			
15	QPSK	36	20	18.05	18.07	18.01	21.5	0	
15	QPSK	36	39	18.01	18.03	18.09			
15	QPSK	75	0	18.04	18.06	18.02			
15	16QAM	1	0	18.39	18.40	18.46			
15	16QAM	1	37	18.34	18.43	18.41	21.5	0	
15	16QAM	1	74	18.31	18.41	18.41			
15	16QAM	36	0	18.45	18.42	18.46			
15	16QAM	36	20	18.47	18.45	18.51	21.5	0	
15	16QAM	36	39	18.43	18.50	18.48			
15	16QAM	75	0	18.45	18.44	18.46			
15	64QAM	1	0	18.68	18.56	18.57	21.5	0	
15	64QAM	1	37	18.51	18.63	18.61			
15	64QAM	1	74	18.46	18.53	18.65			
15	64QAM	36	0	18.48	18.42	18.40	21.5	0	
15	64QAM	36	20	18.44	18.44	18.50			
15	64QAM	36	39	18.45	18.51	18.48			
15	64QAM	75	0	18.48	18.45	18.44			
15	256QAM	1	0	18.68	18.56	18.57	20.5	0	
15	256QAM	1	37	18.51	18.63	18.62			
15	256QAM	1	74	18.48	18.53	18.65			
15	256QAM	36	0	18.51	18.37	18.39	21.5	0	
15	256QAM	36	20	18.45	18.42	18.40			
15	256QAM	36	39	18.47	18.45	18.51			
15	256QAM	75	0	18.43	18.40	18.46			
Channel									
Frequency (MHz)									
10	QPSK	1	0	18.07	18.05	18.06	20.5	0	
10	QPSK	1	26	18.02	18.08	18.04			
10	QPSK	1	49	18.04	18.06	18.02			
10	QPSK	1	99	18.06	18.06	18.01	21.5	0	
10	QPSK	26	12	18.09	18.07	18.03			
10	QPSK	26	25	18.06	18.03	18.03			
10	QPSK	50	0	18.07	18.05	18.01			
10	16QAM	1	0	18.45	18.47	18.45			
10	16QAM	1	25	18.42	18.48	18.45	21.5	0	
10	16QAM	1	49	18.44	18.45	18.42			
10	16QAM	25	0	18.47	18.42	18.37			
10	16QAM	25	12	18.47	18.44	18.51	21.5	0	
10	16QAM	25	25	18.46	18.51	18.46			
10	16QAM	50	0	18.50	18.42	18.50			
10	64QAM	1	0	18.61	18.56	18.57	21.5	0	
10	64QAM	1	25	18.51	18.57	18.51			
10	64QAM	1	49	18.42	18.53	18.55			
10	64QAM	25	12	18.58	18.53	18.58	21.5	0	
10	64QAM	25	25	18.45	18.56	18.59			
10	64QAM	50	0	18.51	18.57	18.51			
10	256QAM	1	0	18.44	18.48	18.42	20.5	0	
10	256QAM	1	25	18.47	18.42	18.37			
10	256QAM	1	49	18.47	18.46	18.46			
10	256QAM	25	12	18.50	18.42	18.50	21.5	0	
10	256QAM	25	25	18.45	18.56	18.59			
10	256QAM	50	0	18.51	18.57	18.51			
10	256QAM	50	25	18.42	18.53	18.55	20.5	1	
10	256QAM	50	50	18.43	18.51	18.51			
10	256QAM	50	0	18.58	18.53	18.58			
Channel									
Frequency (MHz)									
5	QPSK	1	0	18.08	18.04	18.02	20.5	0	
5	QPSK	1	12	18.03	18.05	18.03			
5	QPSK	1	24	18.04	18.05	18.03			
5	QPSK	12	0	18.05	18.05	18.01	21.5	0	
5	QPSK	12	7	18.04	18.09	18.02			
5	QPSK	12	15	18.09	18.09	18.02			
5	QPSK	25	0	18.08	18.04	18.00			
5	16QAM	1	0	18.40	18.36	18.34	20.5	0	
5	16QAM	1	12	18.37	18.41	18.41			
5	16QAM	1	24	18.37	18.41	18.41			
5	16QAM	12	0	18.02	18.49	18.41	21.5	0	
5	16QAM	12	7	18.16	18.47	18.40			
5	16QAM	12	15	18.48	18.55	18.49			
5	16QAM	25	0	18.47	18.48	18.47			
5	64QAM	1	0	18.20	18.38	18.34	21.5	0	
5	64QAM	1	12	18.42	18.35	18.44			
5	64QAM	1	24	18.37	18.44	18.42			
5	64QAM	12	0	18.02	18.44	18.42	21.5	0	
5	64QAM	12	7	18.03	18.45	18.44			
5	64QAM	12	15	18.50	18.59	18.53			
5	64QAM	25	0	18.04	18.54	18.50	20.5	0	
5	256QAM	1	0	18.09	18.05	18.02			
5	256QAM	1	12	18.08	18.54	18.50			
5	256QAM	1	24	18.40	18.40	18.40	21.5	0	
5	256QAM	12	0	18.40	18.36	18.34			
5	256QAM	12	7	18.37	18.41	18.37			
5	256QAM	12	15	18.37	18.44	18.41	20.5	0	
5	256QAM	25	0	18.52	18.48	18.41			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	18.02	18.01	18.00	20.5	0	
1.4	QPSK	1	3	18.32	18.39	18.39			
1.4	QPSK	1	6	18.31	18.31	18.30			
1.4	QPSK	3	0	18.45	18.46	18.51			
1.4	QPSK	3	1	18.51	18.60	18.62	21.5	0	
1.4	QPSK	3	3	18.40	18.45	18.54			
1.4	QPSK	6	0	18.53	18.59	18.61	21.5	0	
1.4	16QAM	1	0	18.27	18.34	18.35			
1.4	16QAM	1	3	18.37	18.45	18.46			
1.4	16QAM	1	5	18.29	18.38	18.36	20.5	0	
1.4	16QAM	3	0	18.46	18.48	18.51			
1.4	16QAM	3	1	18.52	18.60	18.64			
1.4	16QAM	3	3	18.45	18.56	18.62	21.5	0	
1.4	16QAM	6	0	18.51	18.54	18.58			
1.4	16QAM	6	3	18.37	18.45	18.46			
1.4	64QAM	1	0	18.31	18.38	18.36	20.5	0	
1.4	64QAM	1	3	18.24	18.32	18.38			
1.4	64QAM	1	5	18.53	18.48	18.58			
1.4	64QAM	3	1	18.57	18.65	18.62	21.5	0	
1.4	64QAM	3	3	18.27	18.34	18.35			
1.4	64QAM	6	0	18.37	18.45	18.46			
1.4	256QAM	1	0	18.29	18.38	18.36	21.5	0	
1.4	256QAM	1	3	18.48	18.48	18.51			
1.4	256QAM	1	5	18.52	18.60	18.64			
1.4	256QAM	3	0	18.45	18.56	18.62	20.5	1	
1.4	256QAM	3	1	18.29	18.38	18.36			
1.4	256QAM	3	3	18.46	18.48	18.51			
1.4	256QAM	6	0	18.33	18.29	18.38	21.5	0	

Band 4 DSI 1/5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 20500	Power Mids Ch./Freq. 20500	Power High Ch./Freq. 20500	Tune-up (mHz)	MPR (dB)	
Channel									
Frequency (MHz)									

Band 66 DSI 1/5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq. 1330192	Power High Ch. 1 Freq. 1330202	Power Low Ch. 2 Freq. 1330192	Power High Ch. 2 Freq. 1330202	Tune-up limit (dBm)	APR3 (dB)
Channel				Frequency (MHz)		Frequency (MHz)		Tune-up limit (dBm)	APR3 (dB)
				1720		1725			
20	QPSK	1	0	20.70	20.77	20.68	20.68	21.5	0
20	QPSK	1	49	20.68	20.62	20.61	20.61		
20	QPSK	1	99	20.63	20.45	20.38	20.38		
20	QPSK	50	0	20.63	20.60	20.59	20.59		
20	QPSK	50	24	20.63	20.60	20.50	20.50		
20	QPSK	50	50	20.58	20.50	20.49	20.49	21.5	0
20	QPSK	100	0	20.53	20.50	20.47	20.47		
20	16QAM	1	0	20.76	20.71	20.69	20.69		
20	16QAM	1	49	20.68	20.58	20.51	20.51		
20	16QAM	1	99	20.43	20.35	20.33	20.33	21.5	0
20	16QAM	50	0	20.41	20.38	20.36	20.36		
20	16QAM	50	24	20.47	20.41	20.39	20.39		
20	16QAM	50	50	20.38	20.32	20.29	20.29		
20	16QAM	100	0	20.42	20.37	20.26	20.26		
20	64QAM	1	0	20.71	20.49	20.58	20.58	21.5	0
20	64QAM	1	49	20.68	20.68	20.56	20.56		
20	64QAM	1	99	20.24	20.55	20.41	20.41		
20	64QAM	50	0	20.41	20.36	20.31	20.31		
20	64QAM	50	24	20.46	20.36	20.30	20.30		
20	64QAM	50	50	20.39	20.31	20.27	20.27	21.5	0
20	64QAM	100	0	20.43	20.37	20.24	20.24		
20	256QAM	1	0	19.69	19.67	19.63	19.63		
20	256QAM	1	49	19.66	19.63	19.63	19.63		
20	256QAM	1	99	19.67	19.66	19.61	19.61		
20	256QAM	50	0	19.46	19.47	19.46	19.46	20.5	1
20	256QAM	50	24	19.42	19.48	19.46	19.46		
20	256QAM	50	50	19.44	19.48	19.42	19.42		
20	256QAM	100	0	19.47	19.42	19.27	19.27		
Channel				Frequency (MHz)		Frequency (MHz)		Tune-up limit (dBm)	APR3 (dB)
				1717.2		1722.5		Tune-up limit (dBm)	APR3 (dB)
15	QPSK	1	0	20.62	20.63	20.63	20.63		
15	QPSK	1	37	20.39	20.46	20.49	20.49	21.5	0
15	QPSK	1	74	20.39	20.43	20.34	20.34		
15	QPSK	36	0	20.62	20.60	20.36	20.36		
15	QPSK	36	20	20.49	20.67	20.42	20.42		
15	QPSK	36	39	20.41	20.45	20.34	20.34	21.5	0
15	QPSK	75	0	20.44	20.51	20.31	20.31		
15	16QAM	1	0	20.47	20.47	20.43	20.43		
15	16QAM	1	37	20.49	20.49	20.28	20.28		
15	16QAM	1	74	20.31	20.40	20.24	20.24		
15	16QAM	36	0	20.32	20.26	20.12	20.12	21.5	0
15	16QAM	36	20	20.34	20.34	20.20	20.20		
15	16QAM	36	39	20.27	20.20	20.14	20.14		
15	16QAM	75	0	20.28	20.32	20.16	20.16		
15	64QAM	1	0	20.38	20.39	20.39	20.39	21.5	0
15	64QAM	1	37	20.37	20.60	20.27	20.27		
15	64QAM	1	74	20.31	20.44	20.24	20.24		
15	64QAM	36	0	20.31	20.28	20.13	20.13		
15	64QAM	36	20	20.35	20.31	20.23	20.23		
15	64QAM	36	39	20.25	20.23	20.13	20.13	21.5	0
15	64QAM	75	0	20.28	20.31	20.12	20.12		
15	256QAM	1	0	19.46	19.51	19.46	19.46		
15	256QAM	1	37	19.60	19.42	19.60	19.60		
15	256QAM	1	74	19.61	19.36	19.60	19.60	20.5	1
15	256QAM	36	0	19.61	19.67	19.61	19.61		
15	256QAM	36	20	19.42	19.63	19.65	19.65		
15	256QAM	75	0	19.63	19.61	19.44	19.44		
15	256QAM	75	0	19.68	19.63	19.68	19.68		
Channel				Frequency (MHz)		Frequency (MHz)		Tune-up limit (dBm)	APR3 (dB)
				1330192		1330202		Tune-up limit (dBm)	APR3 (dB)
10	QPSK	1	0	20.49	20.62	20.61	20.61		
10	QPSK	1	26	20.47	20.66	20.46	20.46	21.5	0
10	QPSK	1	49	20.44	20.48	20.41	20.41		
10	QPSK	25	0	20.63	20.63	20.47	20.47		
10	QPSK	25	12	20.61	20.61	20.48	20.48		
10	QPSK	25	25	20.48	20.63	20.48	20.48	21.5	0
10	QPSK	50	0	20.63	20.67	20.44	20.44		
10	16QAM	1	0	20.60	20.64	20.60	20.60		
10	16QAM	1	25	20.60	20.66	20.67	20.67		
10	16QAM	1	49	20.47	20.47	20.46	20.46		
10	16QAM	25	0	20.35	20.31	20.30	20.30	21.5	0
10	16QAM	25	12	20.31	20.39	20.27	20.27		
10	16QAM	25	25	20.21	20.30	20.25	20.25		
10	16QAM	50	0	20.31	20.37	20.27	20.27		
10	64QAM	1	0	20.67	20.69	20.61	20.61	21.5	0
10	64QAM	1	25	20.62	20.71	20.63	20.63		
10	64QAM	1	49	20.65	20.63	20.63	20.63		
10	64QAM	25	0	20.32	20.45	20.31	20.31		
10	64QAM	25	12	20.36	20.45	20.31	20.31		
10	64QAM	25	25	20.25	20.27	20.28	20.28	21.5	0
10	64QAM	50	0	20.29	20.30	20.22	20.22		
10	256QAM	1	0	19.64	19.63	19.62	19.62		
10	256QAM	1	25	19.69	19.66	19.73	19.73		
10	256QAM	1	49	19.66	19.66	19.20	19.20	20.5	1
10	256QAM	25	0	19.64	19.62	19.62	19.62		
10	256QAM	25	12	19.40	19.47	19.41	19.41		
10	256QAM	25	25	19.47	19.56	19.28	19.28		
10	256QAM	50	0	19.59	19.44	19.50	19.50		
Channel				Frequency (MHz)		Frequency (MHz)		Tune-up limit (dBm)	APR3 (dB)
				1331997		1332022		Tune-up limit (dBm)	APR3 (dB)
5	QPSK	1	0	20.47	20.43	20.30	20.30		
5	QPSK	1	12	20.48	20.43	20.36	20.36	21.5	0
5	QPSK	1	24	20.37	20.41	20.24	20.24		
5	QPSK	12	0	20.60	20.38	20.36	20.36		
5	QPSK	12	7	20.60	20.46	20.36	20.36		
5	QPSK	12	19	20.43	20.38	20.31	20.31	21.5	0
5	QPSK	25	0	20.43	20.38	20.31	20.31		
5	16QAM	1	0	20.48	20.34	20.34	20.34		
5	16QAM	1	12	20.39	20.33	20.28	20.28		
5	16QAM	1	24	20.39	20.32	20.27	20.27		
5	16QAM	12	0	20.29	20.21	20.20	20.20	21.5	0
5	16QAM	12	7	20.32	20.27	20.20	20.20		
5	16QAM	12	19	20.27	20.19	20.14	20.14		
5	16QAM	25	0	20.24	20.19	20.18	20.18		
5	64QAM	1	0	20.40	20.30	20.28	20.28	21.5	0
5	64QAM	1	12	20.38	20.32	20.22	20.22		
5	64QAM	1	24	20.31	20.29	20.23	20.23		
5	64QAM	12	0	20.36	20.18	20.16	20.16		
5	64QAM	12	7	20.30	20.20	20.22	20.22		
5	64QAM	12	19	20.24	20.19	20.13	20.13	21.5	0
5	64QAM	25	0	20.30	20.23	20.17	20.17		
5	256QAM	1	0	19.46	19.51	19.46	19.46		
5	256QAM	1	12	19.60	19.42	19.60	19.60		
5	256QAM	1	24	19.61	19.66	19.67	19.67	20.5	1
5	256QAM	12	0	19.51	19.67	19.61	19.61		
5	256QAM	12	7	19.42	19.63	19.65	19.65		
5	256QAM	12	19	19.63	19.62	19.44	19.44		
5	256QAM	25	0	19.68	19.63	19.68	19.68		
Channel				Frequency (MHz)		Frequency (MHz)		Tune-up limit (dBm)	APR3 (dB)
				1331987		1332022		Tune-up limit (dBm)	APR3 (dB)
3	QPSK	1	0	20.45	20.35	20.30	20.30		
3	QPSK	1	8	20.45	20.42	20.34	20.34	21.5	0
3	QPSK	1	16	20.42	20.37	20.24	20.24		
3	QPSK	8	0	20.42	20.35	20.31	20.31		

Band 38 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				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	19.44	19.50	19.50	20.5	0		
20	QPSK	1	49	19.53	19.48	19.52				
20	QPSK	1	99	19.57	19.53	19.54				
20	QPSK	50	0	19.52	19.58	19.48	20.5	0		
20	QPSK	50	24	19.42	19.57	19.48				
20	QPSK	50	50	19.43	19.54	19.47				
20	QPSK	100	0	19.52	19.55	19.48	20.5	0		
20	16QAM	1	0	19.26	19.28	19.29				
20	16QAM	1	49	19.29	19.26	19.30				
20	16QAM	1	99	19.34	19.36	19.40	20.5	0		
20	16QAM	50	0	19.34	19.30	19.32				
20	16QAM	50	24	19.41	19.38	19.33				
20	16QAM	50	50	19.45	19.38	19.31	20.5	0		
20	16QAM	100	0	19.35	19.36	19.31				
20	64QAM	1	0	19.21	19.06	19.04				
20	64QAM	1	49	19.10	19.03	19.22	20.5	0		
20	64QAM	1	99	19.15	19.21	19.20				
20	64QAM	50	0	19.27	19.24	19.22				
20	64QAM	50	24	19.36	19.31	19.25	20.5	0		
20	64QAM	50	50	19.39	19.30	19.24				
20	64QAM	100	0	19.37	19.41	19.35				
20	256QAM	1	0	19.27	19.21	19.36	20.5	0		
20	256QAM	1	49	19.32	19.29	19.31				
20	256QAM	1	99	19.34	19.29	19.32				
20	256QAM	50	0	19.31	19.34	19.37	20.5	0		
20	256QAM	50	24	19.14	19.06	19.11				
20	256QAM	50	50	19.09	19.09	19.30				
20	256QAM	100	0	19.06	19.26	19.22				
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	19.45	19.41	19.44	20.5	0		
15	QPSK	1	37	19.50	19.42	19.41				
15	QPSK	1	74	19.50	19.46	19.47				
15	QPSK	36	0	19.30	19.24	19.34	20.5	0		
15	QPSK	36	20	19.34	19.34	19.32				
15	QPSK	36	39	19.33	19.32	19.35				
15	QPSK	75	0	19.28	19.32	19.35	20.5	0		
15	16QAM	1	0	19.33	19.24	19.25				
15	16QAM	1	37	19.22	19.09	19.12				
15	16QAM	1	74	19.34	19.32	19.32	20.5	0		
15	16QAM	36	0	19.27	19.21	19.31				
15	16QAM	36	20	19.32	19.29	19.31				
15	16QAM	36	39	19.34	19.29	19.32	20.5	0		
15	16QAM	75	0	19.31	19.34	19.37				
15	64QAM	1	0	19.14	19.06	19.11	20.5	0		
15	64QAM	1	37	19.09	19.09	19.30				
15	64QAM	1	74	19.06	19.26	19.22				
15	64QAM	36	0	19.30	19.27	19.36	20.5	0		
15	64QAM	36	20	19.33	19.34	19.35				
15	64QAM	36	39	19.37	19.32	19.34				
15	64QAM	75	0	19.32	19.39	19.38	20.5	0		
15	256QAM	1	0	19.29	19.29	19.33				
15	256QAM	1	37	19.40	19.39	19.44				
15	256QAM	1	74	19.39	19.40	19.40	20.5	0		
15	256QAM	36	0	19.41	19.40	19.45				
15	256QAM	36	20	19.35	19.35	19.30				
15	256QAM	36	39	19.28	19.22	19.37	20.5	0		
15	256QAM	75	0	19.32	19.32	19.38				
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	19.54	19.56	19.52	20.5	0		
10	QPSK	1	25	19.56	19.53	19.56				
10	QPSK	1	49	19.58	19.59	19.55				
10	QPSK	25	0	19.30	19.25	19.30	20.5	0		
10	QPSK	25	12	19.39	19.35	19.35				
10	QPSK	25	25	19.39	19.35	19.38				
10	QPSK	50	0	19.38	19.40	19.40	20.5	0		
10	16QAM	1	0	19.37	19.29	19.34				
10	16QAM	1	25	19.34	19.34	19.33				
10	16QAM	1	49	19.43	19.32	19.37	20.5	0		
10	16QAM	25	0	19.29	19.29	19.33				
10	16QAM	25	12	19.40	19.39	19.44				
10	16QAM	25	25	19.39	19.39	19.44	20.5	0		
10	16QAM	50	0	19.41	19.40	19.45				
10	64QAM	1	0	19.35	19.35	19.30				
10	64QAM	1	25	19.28	19.22	19.37	20.5	0		
10	64QAM	1	49	19.32	19.32	19.38				
10	64QAM	25	0	19.29	19.27	19.25				
10	64QAM	25	12	19.39	19.34	19.37	20.5	0		
10	64QAM	25	25	19.37	19.39	19.36				
10	64QAM	50	0	19.32	19.32	19.35				
10	256QAM	1	0	19.12	19.14	19.16	20.5	0		
10	256QAM	1	25	19.13	19.11	19.15				
10	256QAM	1	49	19.19	19.17	19.19				
10	256QAM	25	0	19.05	19.05	19.08	20.5	0		
10	256QAM	25	12	19.11	19.12	19.16				
10	256QAM	25	25	19.15	19.14	19.16				
10	256QAM	50	0	19.29	19.26	19.29	20.5	0		
10	256QAM	50	0	19.32	19.32	19.38				
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	19.49	19.48	19.56	20.5	0		
5	QPSK	1	12	19.54	19.49	19.57				
5	QPSK	1	24	19.52	19.56	19.58				
5	QPSK	12	0	19.36	19.29	19.31	20.5	0		
5	QPSK	12	7	19.36	19.37	19.41				
5	QPSK	12	13	19.31	19.33	19.40				
5	QPSK	25	0	19.31	19.32	19.35	20.5	0		
5	16QAM	1	0	19.18	19.18	19.20				
5	16QAM	1	12	19.25	19.29	19.18				
5	16QAM	1	24	19.21	19.20	19.28	20.5	0		
5	16QAM	12	0	19.13	19.10	19.08				
5	16QAM	12	7	19.12	19.14	19.16				
5	16QAM	12	13	19.13	19.11	19.15	20.5	0		
5	16QAM	25	0	19.19	19.17	19.19				
5	64QAM	1	0	19.05	19.05	19.08	20.5	0		
5	64QAM	1	12	19.11	19.12	19.16				
5	64QAM	1	24	19.15	19.14	19.16				
5	64QAM	12	0	19.29	19.26	19.29	20.5	0		
5	64QAM	12	7	19.38	19.35	19.35				
5	64QAM	12	13	19.33	19.31	19.34	20.5	0		
5	64QAM	25	0	19.36	19.30	19.38				
5	256QAM	1	0	19.36	19.37	19.41				
5	256QAM	1	12	19.31	19.33	19.40	20.5	0		
5	256QAM	1	24	19.31	19.32	19.35				
5	256QAM	12	0	19.18	19.18	19.20				
5	256QAM	12	7	19.25	19.29	19.18	20.5	0		
5	256QAM	12	13	19.21	19.20	19.28				
5	256QAM	25	0	19.13	19.10	19.08				

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Ant 2 Full Power		CA_7C							Tune up Power (dBm)
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	1	0	0	0	23.67	25.5	
21100	20902	QPSK	1	0	1	99	23.75	25.5	
21350	21152	QPSK	1	0	1	99	23.55	25.5	
20850	21048	16QAM	1	0	0	0	22.65	24.5	
21100	20902	16QAM	1	0	1	99	22.78	24.5	
21350	21152	16QAM	1	0	1	99	22.66	24.5	
20850	21048	64QAM	1	0	0	0	21.54	23.5	
21100	20902	64QAM	1	0	1	99	21.66	23.5	
21350	21152	64QAM	1	0	1	99	21.76	23.5	

Ant 2 Full Power		CA_38C							Tune up Power (dBm)
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
37850	38048	QPSK	1	0	0	0	24.11	25.5	
37901	38099	QPSK	1	0	0	0	23.99	25.5	
38150	37952	QPSK	1	0	1	99	24.03	25.5	
37850	38048	16QAM	1	0	0	0	23.56	24.5	
37901	38099	16QAM	1	0	0	0	23.43	24.5	
38150	37952	16QAM	1	0	1	99	23.66	24.5	
37850	38048	64QAM	1	0	0	0	22.76	23.5	
37901	38099	64QAM	1	0	0	0	22.77	23.5	
38150	37952	64QAM	1	0	1	99	22.87	23.5	

Ant 2 ISI 2/3/5							Tune up Power (dBm)	
CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	0	0	0	19.45	20.5
21100	20902	QPSK	1	0	1	99	19.43	20.5
21350	21152	QPSK	1	0	1	99	19.41	20.5

Ant 3 Full Power		Tune up Power (dBm)						
CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC	SCC	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
Carrier Channel	Carrier Channel		RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	0	0	0	22.56	23.5
21100	20902	QPSK	1	0	1	99	22.74	23.5
21350	21152	QPSK	1	0	1	99	22.55	23.5
20850	21048	16QAM	1	0	0	0	21.76	22.5
21100	20902	16QAM	1	0	1	99	21.88	22.5
21350	21152	16QAM	1	0	1	99	21.67	22.5
20850	21048	64QAM	1	0	0	0	20.92	21.5
21100	20902	64QAM	1	0	1	99	20.77	21.5
21350	21152	64QAM	1	0	1	99	20.67	21.5

Ant 3 Full Power		CA_38C							Tune up Power (dBm)
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
37850	38048	QPSK	1	0	0	0	22.66	23.5	
37901	38099	QPSK	1	0	0	0	22.67	23.5	
38150	37952	QPSK	1	0	1	99	22.43	23.5	
37850	38048	16QAM	1	0	0	0	21.67	22.5	
37901	38099	16QAM	1	0	0	0	21.87	22.5	
38150	37952	16QAM	1	0	1	99	21.55	22.5	
37850	38048	64QAM	1	0	0	0	20.89	21.5	
37901	38099	64QAM	1	0	0	0	20.67	21.5	
38150	37952	64QAM	1	0	1	99	20.88	21.5	

Ant 3 ISI 1/5								Tune up Power (dBm)	
CA_7C									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel		SCC Channel		Modulation		PCC		SCC	
						RB Size		RB offset	
						RB Size		RB offset	
						Measured Power (dBm)		Tune up Power (dBm)	
20850		21048		QPSK		1		0 0 0	
								16.31 16.5	
21100		20902		QPSK		1		0 1 99	
								16.37 16.5	
21350		21152		QPSK		1		0 1 99	
								16.27 16.5	

Ant 4 Full Power			Tune up Power (dBm)					
CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	0	0	0	24.21	25.5
21100	20902	QPSK	1	0	1	99	24.35	25.5
21350	21152	QPSK	1	0	1	99	24.11	25.5
20850	21048	16QAM	1	0	0	0	23.22	24.5
21100	20902	16QAM	1	0	1	99	23.31	24.5
21350	21152	16QAM	1	0	1	99	23.11	24.5
20850	21048	64QAM	1	0	0	0	22.54	23.5
21100	20902	64QAM	1	0	1	99	22.43	23.5
21350	21152	64QAM	1	0	1	99	22.56	23.5

Ant 4 Full Power			Tune up Power (dBm)					
CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	0	0	0	24.12	25.5
37901	38099	QPSK	1	0	0	0	23.98	25.5
38150	37952	QPSK	1	0	1	99	24.03	25.5
37850	38048	16QAM	1	0	0	0	23.21	24.5
37901	38099	16QAM	1	0	0	0	23.45	24.5
38150	37952	16QAM	1	0	1	99	23.44	24.5
37850	38048	64QAM	1	0	0	0	22.76	23.5
37901	38099	64QAM	1	0	0	0	22.66	23.5
38150	37952	64QAM	1	0	1	99	22.73	23.5

Ant 4 DSI 1/2/3/5							Tune up Power (dBm)	
CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	0	0	0	18.87	19
21100	20902	QPSK	1	0	1	99	18.88	19
21350	21152	QPSK	1	0	1	99	18.73	19

Ant 7 Full Power		Tune up Power (dBm)						
CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	0	0	0	19.99	20.5
21100	20902	QPSK	1	0	1	99	20.01	20.5
21350	21152	QPSK	1	0	1	99	19.83	20.5
20850	21048	16QAM	1	0	0	0	18.76	19.5
21100	20902	16QAM	1	0	1	99	18.55	19.5
21350	21152	16QAM	1	0	1	99	18.67	19.5
20850	21048	64QAM	1	0	0	0	17.76	18.5
21100	20902	64QAM	1	0	1	99	17.66	18.5
21350	21152	64QAM	1	0	1	99	17.89	18.5

Ant 7 Full Power			Tune up Power (dBm)					
CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	0	0	0	19.89	20.5
37901	38099	QPSK	1	0	0	0	19.65	20.5
38150	37952	QPSK	1	0	1	99	19.55	20.5
37850	38048	16QAM	1	0	0	0	18.65	19.5
37901	38099	16QAM	1	0	0	0	18.74	19.5
38150	37952	16QAM	1	0	1	99	18.55	19.5
37850	38048	64QAM	1	0	0	0	17.75	18.5
37901	38099	64QAM	1	0	0	0	17.88	18.5
38150	37952	64QAM	1	0	1	99	17.56	18.5

Ant 2 DSI 2/3/5							Tune up Power (dBm)
CA_38C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)
37850	38048	QPSK	1	0	0	0	23.76
37901	38099	QPSK	1	0	0	0	23.74
38150	37952	QPSK	1	0	1	99	23.65

Ant 2 DSI 2/3/4							Tune up Power (dBm)
CA_7C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)
20850	21048	QPSK	1	0	0	0	18
21180	20992	QPSK	1	0	1	99	17.84
21300	21152	QPSK	1	0	1	99	18.12

Ant 3 DSI 1/5							Tune up Power (dBm)
CA_38C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)
37850	38048	QPSK	1	0	0	0	17.77
37901	38099	QPSK	1	0	0	0	17.84
38150	37952	QPSK	1	0	1	99	17.65

Ant 3 DSI 2/3/4							Tune up Power (dBm)
CA_38C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)
37850	38048	QPSK	1	0	0	0	20.67
37901	38099	QPSK	1	0	0	0	20.88
38150	37952	QPSK	1	0	1	99	20.74

Ant 4 DSI 1							Tune up Power (dBm)
CA_38C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)
37850	38048	QPSK	1	0	0	0	21.66
37901	38099	QPSK	1	0	0	0	21.46
38150	37952	QPSK	1	0	1	99	21.53

Ant 4 DSI 2/3/5							Tune up Power (dBm)
CA_38C							
Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)
37850	38048	QPSK	1	0	0	0	19.65
37901	38099	QPSK	1	0	0	0	19.55
38150	37952	QPSK	1	0	1	99	19.45

2CA DL

Configure		CA List	PCC								SCC				Power	
			LTE	Antenna Port	BW	UL		Mod.	UL#		LTE	BW	DL		With CA	Without CA
			Band		(MHz)	Freq.	Channel		RB	Offset	Band	(MHz)	Freq.	Channel	Tx Power	Tx Power
						(MHz)							(MHz)		(dBm)	(dBm)
Inter-Band		CA_4A-5A	Band 4	Ant 2	20M	1732.5	20175	QPSK	1	0	Band 5	10M	881.5	2525	24.10	24.18
			Band 4	Ant 4	20M	1732.5	20175	QPSK	1	0	Band 5	10M	881.5	2525	24.55	24.57
			Band 5	Ant 1	10M	836.5	20525	QPSK	1	0	Band 4	20M	2132.5	2175	25.22	25.34
			Band 5	Ant 3	10M	836.5	20525	QPSK	1	0	Band 4	20M	2132.5	2175	23.00	22.90
Intra-Band	Contiguous	CA_2C	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	Band 2	20M	1975.8	1098	24.32	24.39
		CA_2C	Band 2	Ant 4	20M	1880	18900	QPSK	1	0	Band 2	20M	1975.8	1098	24.55	24.40
		CA_38C	Band 38	Ant 2	20M	2585.1	37901	QPSK	1	0	Band 38	20M	2604.9	38099	24.12	24.37
		CA_38C	Band 38	Ant 3	20M	2585.1	37901	QPSK	1	0	Band 38	20M	2604.9	38099	22.49	22.77
		CA_38C	Band 38	Ant 4	20M	2585.1	37901	QPSK	1	0	Band 38	20M	2604.9	38099	24.11	24.27
		CA_38C	Band 38	Ant 7	20M	2585.1	37901	QPSK	1	0	Band 38	20M	2604.9	38099	19.99	19.94

3CA DL

<Inter-Band for Three Carrier Combination> (three bands)

Configure	PCC										SCC1				SCC2				Power	
	LTE	Antenna Port	BW	UL	UL	Mod	UL#	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA		
	Band		(MHz)	Freq	Channel		RB	Offset		Band	(MHz)	Freq	Channel	Band	(MHz)	Freq	Channel	Tx. Power	Tx. Power	
				(MHz)								(dBm)				(dBm)				
CA_2A-7C	Band2	Ant2	20M	1880	18900	QPSK	1	0	Band7	20M	2655	3100	Band7	20M	2674.8	3298	24.31	24.39		
	Band2	Ant4	20M	1880	18900	QPSK	1	0	Band7	20M	2655	3100	Band7	20M	2674.8	3298	24.28	24.40		
	Band7	Ant2	20M	2535	21100	QPSK	1	0	Band7	20M	2674.8	3298	Band2	20M	1960	900	23.77	23.86		
	Band7	Ant3	20M	2535	21100	QPSK	1	0	Band7	20M	2674.8	3298	Band2	20M	1960	900	22.61	22.76		
	Band7	Ant4	20M	2535	21100	QPSK	1	0	Band7	20M	2674.8	3298	Band2	20M	1960	900	24.3	24.33		
	Band7	Ant7	20M	2535	21100	QPSK	1	0	Band7	20M	2674.8	3298	Band2	20M	1960	900	20.05	20.13		
CA_4A-7C	Band4	Ant2	20M	1732.5	20175	QPSK	1	0	Band7	20M	2655	3100	Band7	20M	2674.8	3298	24.28	24.18		
	Band4	Ant4	20M	1732.5	20175	QPSK	1	0	Band7	20M	2655	3100	Band7	20M	2674.8	3298	24.15	24.57		
	Band7	Ant2	20M	2535	21100	QPSK	1	0	Band7	20M	2674.8	3298	Band2	20M	1960	900	23.66	23.86		
	Band7	Ant3	20M	2535	21100	QPSK	1	0	Band7	20M	2674.8	3298	Band2	20M	1960	900	22.69	22.76		
	Band7	Ant4	20M	2535	21100	QPSK	1	0	Band7	20M	2674.8	3298	Band2	20M	1960	900	24.18	24.33		
	Band7	Ant7	20M	2535	21100	QPSK	1	0	Band7	20M	2674.8	3298	Band2	20M	1960	900	20.03	20.13		
CA_5A-7C	Band5	Ant1	10M	836.5	20525	QPSK	1	0	Band7	20M	2655	3100	Band7	20M	2674.8	3298	25.11	25.34		
	Band5	Ant3	10M	836.5	20525	QPSK	1	0	Band7	20M	2655	3100	Band7	20M	2674.8	3298	22.86	22.9		
	Band7	Ant2	20M	2535	21100	QPSK	1	0	Band7	20M	2674.8	3298	Band2	20M	1960	900	23.69	23.86		
	Band7	Ant3	20M	2535	21100	QPSK	1	0	Band7	20M	2674.8	3298	Band2	20M	1960	900	22.71	22.76		
	Band7	Ant4	20M	2535	21100	QPSK	1	0	Band7	20M	2674.8	3298	Band2	20M	1960	900	24.22	24.33		
	Band7	Ant7	20M	2535	21100	QPSK	1	0	Band7	20M	2674.8	3298	Band2	20M	1960	900	20.08	20.13		
CA_2A-7A-7A	Band2	Ant2	20M	1880	18900	QPSK	1	0	Band7	20M	2655	3100	Band7	5M	2687.5	3425	24.23	24.39		
	Band2	Ant4	20M	1880	18900	QPSK	1	0	Band7	20M	2655	3100	Band7	5M	2687.5	3425	24.44	24.40		
	Band7	Ant2	20M	2535	21100	QPSK	1	0	Band7	5M	2687.5	3425	Band2	20M	1960	900	23.56	23.86		
	Band7	Ant3	20M	2535	21100	QPSK	1	0	Band7	5M	2687.5	3425	Band2	20M	1960	900	22.05	22.76		
	Band7	Ant4	20M	2535	21100	QPSK	1	0	Band7	5M	2687.5	3425	Band2	20M	1960	900	24.32	24.33		
	Band7	Ant7	20M	2535	21100	QPSK	1	0	Band7	5M	2687.5	3425	Band2	20M	1960	900	20.1	20.13		
CA_2A-4A-7A	Band2	Ant2	20M	1880	18900	QPSK	1	0	Band4	20M	2132.5	2175	Band7	20M	2655	3100	24.21	24.39		
	Band2	Ant4	20M	1880	18900	QPSK	1	0	Band4	20M	2132.5	2175	Band7	20M	2655	3100	24.33	24.40		
	Band4	Ant2	20M	1732.5	20175	QPSK	1	0	Band7	20M	2655	3100	Band2	20M	1960	900	24.1	24.18		
	Band4	Ant4	20M	1732.5	20175	QPSK	1	0	Band7	20M	2655	3100	Band2	20M	1960	900	24.67	24.57		
	Band7	Ant2	20M	2535	21100	QPSK	1	0	Band2	20M	1960	900	Band4	20M	2132.5	2175	23.66	23.86		
	Band7	Ant3	20M	2535	21100	QPSK	1	0	Band2	20M	1960	900	Band4	20M	2132.5	2175	22.65	22.76		
	Band7	Ant4	20M	2535	21100	QPSK	1	0	Band2	20M	1960	900	Band4	20M	2132.5	2175	24.23	24.33		

<Inter-Band for Three Carrier Combination> (four bands)

Configure	PCC										SCC1				SCC2				SCC3				Power			
	LTE	Antenna Port	BW (MHz)	UL	UL	Mod.	UL#	UL	LTE	BW (MHz)	DL	DL	LTE	BW (MHz)	DL	DL	LTE	BW (MHz)	DL	DL	With CA	Without CA				
				Channel	RB		RB Offset	Band			Freq (MHz)	Channel			Band	Freq (MHz)			Channel	Band			Freq (MHz)	Channel	Tx. Power (dBm)	Tx. Power (dBm)
CA_7C-66A-66A	Band 7	Ant 2	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	23.88	23.86				
	Band 7	Ant 3	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	22.85	22.76				
	Band 7	Ant 4	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	24.12	24.33				
	Band 7	Ant 7	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	20.26	20.13				
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 7	20M	2655	3100	Band 5	10M	881.5	2525	24.11	24.15				
	Band 66	Ant 4	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 7	20M	2655	3100	Band 5	10M	881.5	2525	24.42	24.66				
CA_5A-7A-66A-66A	Band 5	Ant 1	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	25.16	25.34				
	Band 5	Ant 3	10M	836.5	20525	QPSK	1	0	Band 66	20M	2655	3100	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	22.93	22.9				
	Band 7	Ant 2	20M	2535	21100	QPSK	1	0	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	Band 5	10M	881.5	2525	23.92	23.86				
	Band 7	Ant 3	20M	2535	21100	QPSK	1	0	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	Band 5	10M	881.5	2525	24.84	22.76				
	Band 7	Ant 4	20M	2535	21100	QPSK	1	0	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	Band 5	10M	881.5	2525	24.34	24.33				
	Band 7	Ant 7	20M	2535	21100	QPSK	1	0	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	Band 5	10M	881.5	2525	20.16	20.13				
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 7	20M	2655	3100	Band 5	10M	881.5	2525	24.11	24.15				
	Band 66	Ant 4	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 7	20M	2655	3100	Band 5	10M	881.5	2525	24.45	24.66				

Full Power

Ant 1 n5 NSA									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				16600	16700	16780			
Frequency (MHz)				344	346.5	349			
20	PI2 BPSK	1	1	24.34	24.26	24.14	25.5	0.0	
20	PI2 BPSK	1	53	24.40	24.25	24.10			
20	PI2 BPSK	1	104	24.20	24.11	24.00			
20	PI2 BPSK	50	0	24.31	24.34	24.24	25.0	0.5	
20	PI2 BPSK	50	26	24.29	24.20	24.07	25.5	0.0	
20	PI2 BPSK	50	56	24.24	24.12	23.98	25.0	0.5	
20	PI2 BPSK	100	0	24.23	24.13	24.02			
20	QPSK	1	1	24.36	24.34	24.51			
20	QPSK	1	53	24.43	24.24	24.26	25.5	0.0	
20	QPSK	1	104	24.18	24.09	24.22	24.5	1.0	
20	QPSK	50	0	24.41	24.42	24.07			
20	QPSK	50	26	24.30	24.45	24.22			
20	QPSK	50	56	24.23	24.10	24.15	24.5	1.0	
20	QPSK	100	0	24.33	24.34	24.12	24.0	2.5	
20	16QAM	1	1	24.04	23.94	24.16			
20	64QAM	1	1	23.33	22.69	23.10			
20	256QAM	1	1	21.46	20.90	21.24	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	24.24	24.26	24.32	25.5	0.0	
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	24.03	24.26	23.97	25.5	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				846.5	846.5	846.5			
5	QPSK	1	1	24.06	24.26	24.04	25.5	0.0	

Ant 3 n5 NSA									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq 166000	Power Middle Ch / Freq 167300	Power High Ch / Freq 167800	Tune-up limit (dBm)	MPR (dB)	
Channel				166000	167300	167800			
Frequency (MHz)				344	346.5	349			
20	PI2 BPSK	1	1	23.35	23.39	23.35	24.5	0.0	
20	PI2 BPSK	1	53	23.38	23.41	23.40			
20	PI2 BPSK	1	104	23.21	23.27	23.22			
20	PI2 BPSK	50	0	23.36	23.35	23.27	24.0	0.5	
20	PI2 BPSK	50	26	23.31	23.32	23.29	24.5	0.0	
20	PI2 BPSK	50	56	23.34	23.37	23.32	24.0	0.5	
20	PI2 BPSK	100	0	23.27	23.35	23.27			
20	QPSK	1	1	23.52	23.53	23.25			
20	QPSK	1	53	23.47	23.38	23.30	24.5	0.0	
20	QPSK	1	104	23.36	23.25	23.19	23.5	1.0	
20	QPSK	50	0	23.35	23.27	23.16			
20	QPSK	50	26	23.36	23.36	23.17			
20	QPSK	50	56	23.30	23.24	23.06	23.5	1.0	
20	QPSK	100	0	23.38	23.42	23.18	23.0	2.5	
20	16QAM	1	1	23.37	23.26	23.22			
20	64QAM	1	1	22.48	22.08	22.26			
20	256QAM	1	1	20.46	20.26	20.32	20.0	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				341.5	346.5	341.5			
15	QPSK	1	1	23.36	23.43	23.14	24.5	0.0	
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				339	336.5	344			
10	QPSK	1	1	23.39	23.40	23.30	24.5	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	23.33	23.35	23.32	24.5	0.0	

Ant 2 n7 SA									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				25025	25355	25455			
50	PI2 BPSK	1	1	24.32	24.22	24.12	25.5	0.0	
50	PI2 BPSK	1	137	24.23	24.15	24.11			
50	PI2 BPSK	1	271	24.22	24.27	24.21			
50	PI2 BPSK	135	0	23.54	23.64	23.77	25.0	0.5	
50	PI2 BPSK	135	69	24.10	24.09	24.01	25.5	0.0	
50	PI2 BPSK	135	138	24.12	24.08	24.11	25.0	0.5	
50	PI2 BPSK	270	0	23.54	23.57	23.65			
50	QPSK	1	1	24.43	24.46	24.32			
50	QPSK	1	137	24.00	24.07	24.19	25.5	0.0	
50	QPSK	1	271	24.01	24.18	24.11	24.5	1.0	
50	QPSK	135	0	22.91	22.72	22.67			
50	QPSK	135	69	24.01	24.09	24.02			
50	QPSK	135	138	23.45	23.65	23.54	24.5	1.0	
50	QPSK	270	0	23.33	23.34	23.60	23.0	2.5	
50	16QAM	1	1	22.87	22.93	22.87			
50	16QAM	1	1	21.34	21.49	21.32			
50	256QAM	1	1	19.45	19.58	19.54	21.0	4.5	
Channel				506000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2500	2535	2550			
40	QPSK	1	1	24.12	24.11	24.32	25.5	0.0	
Channel				507000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				25125	25355	25555			
30	QPSK	1	1	24.02	24.23	24.12	25.5	0.0	
Channel				502000	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				24012.5	24335	24575			
25	QPSK	1	1	24.10	24.22	24.01	25.5	0.0	
Channel				501000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				24000	24325	24500			
20	QPSK	1	1	24.36	24.38	24.22	25.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				24060	24385	24665			
15	QPSK	1	1	24.30	24.36	24.06	25.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				24060	24385	24665			
10	QPSK	1	1	24.28	24.27	24.04	25.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				24025	24355	24635			
5	QPSK	1	1	24.23	24.26	24.16	25.5	0.0	

Ant 2 n7 NSA										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				505000	507000	509000				
Frequency (MHz)				2525	2535	2545				
50	PI2 BPSK	1	1	22.10	22.12	22.12		23.5	0.0	
50	PI2 BPSK	1	137	22.02	22.04	22.03				
50	PI2 BPSK	1	271	21.76	21.88	21.85		23.0	0.5	
50	PI2 BPSK	135	0	21.55	21.48	21.54	23.0			
50	PI2 BPSK	135	69	22.10	22.10	22.10	23.5	0.0	0.0	
50	PI2 BPSK	135	138	22.01	22.03	22.01	23.0			
50	PI2 BPSK	270	0	21.23	21.44	21.65		23.0	0.5	
50	QPSK	1	1	22.01	22.23	22.12				
50	QPSK	1	137	21.87	21.93	21.96	23.5	0.0	0.0	
50	QPSK	1	271	21.88	21.97	21.84				
50	QPSK	135	0	21.01	21.07	21.01	22.5	1.0	1.0	
50	QPSK	135	69	22.10	22.21	22.04	23.5			
50	QPSK	135	138	22.03	22.07	22.20	22.5	1.0	1.0	
50	QPSK	270	0	20.87	20.85	20.89				
50	16QAM	1	1	21.14	21.15	21.14	22.5	1.0	1.0	
50	64QAM	1	1	19.43	19.55	19.65	21.0			
50	256QAM	1	1	17.44	17.58	17.65	19.0	4.5	4.5	
Channel				502000	507000	510000	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
40	QPSK	1	1	22.12	22.15	22.21	23.5	0.0		
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
30	QPSK	1	1	22.21	22.15	22.21	0.0	0.0		
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
25	QPSK	1	1	22.15	22.12	22.02	0.0	0.0		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
20	QPSK	1	1	22.03	22.02	21.64	23.5	0.0		
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
15	QPSK	1	1	21.74	21.85	21.87	23.5	0.0		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
10	QPSK	1	1	21.84	21.94	21.81	23.5	0.0		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR		
Frequency (MHz)										
5	QPSK	1	1	21.84	21.95	21.87	23.5	0.0		

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 505000	Power Middle Ch. / Freq. 507000	Power High Ch. / Freq. 509000	Tune-up limit (dbm)	MPR (db)		
Channel				2525	2535	2545				
Frequency (MHz)										
50	PI2 BPSK	1	1	22.21	22.47	22.23		24.0	0.0	
50	PI2 BPSK	1	137	22.23	22.55	22.12				
50	PI2 BPSK	1	271	22.32	22.45	22.26		23.5	0.5	
50	PI2 BPSK	135	0	21.65	21.87	22.21	23.5			
50	PI2 BPSK	135	69	22.32	22.45	22.25	24.0	0.0	0.0	
50	PI2 BPSK	135	138	22.22	22.48	22.21	23.5			
50	PI2 BPSK	270	0	22.01	22.03	22.26		24.0	0.0	
50	QPSK	1	1	22.66	22.76	22.65				
50	QPSK	1	137	22.23	22.44	22.10	24.0	0.0	0.0	
50	QPSK	1	271	22.12	22.42	22.01				
50	QPSK	135	0	20.13	20.44	20.65	23.0	1.0	1.0	
50	QPSK	135	69	22.32	22.36	22.30	24.0			
50	QPSK	135	138	22.33	22.48	22.12	23.0	1.0	1.0	
50	QPSK	270	0	21.23	21.45	21.34				
50	16QAM	1	1	21.23	21.12	21.22	23.0	1.0	1.0	
50	64QAM	1	1	19.34	19.62	19.66	21.5			
50	256QAM	1	1	17.88	17.87	17.87	19.5	4.5	4.5	
Channel				504000	507000	510000	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)										
40	QPSK	1	1	22.23	22.32	22.03	24.0	0.0		
Channel				503000	507000	511000	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)										
30	QPSK	1	1	22.20	22.33	22.01	0.0	0.0		
Channel				502500	507000	511500	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)										
25	QPSK	1	1	22.12	22.10	22.20	0.0	0.0		
Channel				502000	507000	512000	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)										
20	QPSK	1	1	22.47	22.58	22.48	24.0	0.0		
Channel				501500	507000	512500	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)										
15	QPSK	1	1	22.58	22.65	22.50	24.0	0.0		
Channel				501000	507000	513000	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)										
10	QPSK	1	1	22.72	22.72	22.65	24.0	0.0		
Channel				500500	507000	513500	Tune-up limit (dbm)	MPR (db)		
Frequency (MHz)										
5	QPSK	1	1	22.66	22.61	22.70	24.0	0.0		

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				505000	507000	509000				
Frequency (MHz)				2625	2635	2645				
50	PI2 BPSK	1	1	24.34	24.68	24.55		25.5	0.0	
50	PI2 BPSK	1	137	24.45	24.65	24.34				
50	PI2 BPSK	1	271	24.55	24.75	24.56		25.0	0.5	
50	PI2 BPSK	135	0	24.10	24.10	24.03	25.0			
50	PI2 BPSK	135	69	24.43	24.59	24.55	25.5	0.0	0.0	
50	PI2 BPSK	135	138	24.44	24.73	24.54	25.0			
50	PI2 BPSK	270	0	24.01	24.06	24.07		25.0	0.5	
50	QPSK	1	1	24.87	24.93	24.88				
50	QPSK	1	137	24.54	24.63	24.44	25.5	0.0	0.0	
50	QPSK	1	271	24.44	24.70	24.65				
50	QPSK	135	0	23.65	23.55	23.65	24.5	1.0	1.0	
50	QPSK	135	69	24.54	24.68	24.54	25.5			
50	QPSK	135	138	24.66	24.65	24.55	24.5	1.0	1.0	
50	QPSK	270	0	23.54	23.60	23.54				
50	16QAM	1	1	23.67	23.62	23.76	24.5	1.0	1.0	
50	64QAM	1	1	22.01	22.00	21.78	23.0			
50	256QAM	1	1	20.01	20.07	20.01	21.0	4.5	4.5	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2620	2630	2650				
40	QPSK	1	1	24.44	24.65	24.66	25.5	0.0		
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2615	2635	2655				
30	QPSK	1	1	24.55	24.65	24.56	0.0	0.0		
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2610	2630	2650				
25	QPSK	1	1	24.55	24.67	24.72	0.0	0.0		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2605	2625	2645				
20	QPSK	1	1	24.79	24.92	24.79	25.5	0.0		
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2600.5	2605	2626.5				
15	QPSK	1	1	24.74	24.74	24.81	25.5	0.0		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2595	2605	2626				
10	QPSK	1	1	24.87	24.77	24.70	25.5	0.0		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2590	2605	2627.5				
5	QPSK	1	1	24.61	24.65	24.65	25.5	0.0		

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
				505000	507000	509000			
				22.05	23.55	25.45			
50	PI2 BPSK	1	1	24.21	24.43	24.23	25.5	0.0	
50	PI2 BPSK	1	137	24.22	24.49	24.33			
50	PI2 BPSK	1	271	24.43	24.65	24.21			
50	PI2 BPSK	135	0	24.01	24.07	24.10	25.0	0.5	
50	PI2 BPSK	135	69	24.21	24.47	24.43	25.5	0.0	
50	PI2 BPSK	135	138	24.23	24.45	24.23	25.0	0.5	
50	PI2 BPSK	270	0	23.85	23.93	23.55	25.5		
50	QPSK	1	1	24.76	24.88	24.65			
50	QPSK	1	137	24.21	24.51	23.43			
50	QPSK	1	271	24.22	24.58	24.22	24.5		
50	QPSK	135	0	23.34	23.07	23.11			
50	QPSK	135	69	24.33	24.48	24.43			
50	QPSK	135	138	24.31	24.47	24.34	24.5	1.0	
50	QPSK	270	0	23.54	23.56	23.44	23.0		
50	16QAM	1	1	22.55	22.92	22.85			
50	64QAM	1	1	21.65	21.59	21.54			
50	256QAM	1	1	19.88	19.80	19.67	21.0	4.5	
Channel									
Frequency (MHz)									
				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
				25.00	25.50	25.50			
40	QPSK	1	1	24.33	24.21	24.40	25.5	0.0	
Channel									
Frequency (MHz)									
				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
				25.15	25.35	25.55			
30	QPSK	1	1	24.21	24.22	24.43	0.0	0.0	
Channel									
Frequency (MHz)									
				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
				24.12	24.33	24.57			
25	QPSK	64	32	24.12	24.11	24.25	0.0	0.0	
Channel									
Frequency (MHz)									
				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
				24.00	24.20	24.40			
20	QPSK	1	1	24.76	24.65	24.82	25.5	0.0	
Channel									
Frequency (MHz)									
				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
				25.07	25.35	25.62			
15	QPSK	1	1	24.72	24.76	24.74	25.5	0.0	
Channel									
Frequency (MHz)									
				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
				25.10	25.30	25.50			
10	QPSK	1	1	24.77	24.87	24.82	25.5	0.0	
Channel									
Frequency (MHz)									
				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
				25.02	25.35	25.67			
5	QPSK	1	1	24.70	24.82	24.75	25.5	0.0	

Ant 4 n7 NSA									
BW (MHz)	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)				506000	507000	506000			
				2525	2535	2545			
50	PI2 BPSK	1	1	22.32	22.52	22.23	23.0	0.0	
50	PI2 BPSK	1	137	22.43	22.48	22.34			
50	PI2 BPSK	1	271	22.12	22.29	22.12			
50	PI2 BPSK	135	0	21.89	21.94	21.89	22.5	0.5	
50	PI2 BPSK	135	69	22.23	22.37	22.32	23.0	0.0	
50	PI2 BPSK	135	138	22.21	22.34	22.43	22.5	0.5	
50	PI2 BPSK	270	0	22.20	21.88	22.01	23.0	0.0	
50	QPSK	1	1	22.34	22.35	22.32			
50	QPSK	1	137	22.45	22.34	22.21			
50	QPSK	1	271	22.12	22.35	22.12	22.0	1.0	
50	QPSK	135	0	21.65	21.48	21.54			
50	QPSK	135	69	22.23	22.42	22.34			
50	QPSK	135	138	21.34	21.54	21.54	22.0	1.0	
50	QPSK	270	0	21.54	21.37	21.34	20.5	2.5	
50	16QAM	1	1	21.45	21.50	21.56			
50	64QAM	1	1	20.01	20.05	20.01			
50	256QAM	1	1	18.21	18.03	17.89	18.5	4.5	
Channel									
Frequency (MHz)				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	22.32	22.12	22.12	23.0	0.0	
Channel									
Frequency (MHz)				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	22.32	22.22	22.12	0.0	0.0	
Channel									
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	22.00	22.21	22.23	0.0	0.0	
Channel									
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	22.12	22.40	22.10	23.0	0.0	
Channel									
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	22.07	22.33	22.62	23.0	0.0	
Channel									
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	22.32	22.32	22.26	23.0	0.0	
Channel									
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	22.12	22.31	22.11	23.0	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				25.25	25.25	25.45			
50	PI2 BPSK	1	1	19.05	19.32	19.20	20.5	0.0	
50	PI2 BPSK	1	137	19.06	19.38	19.30			
50	PI2 BPSK	1	271	19.27	19.54	19.16			
50	PI2 BPSK	135	0	18.88	18.97	19.04	20.0	0.5	
50	PI2 BPSK	135	69	19.08	19.37	19.37	20.5	0.0	
50	PI2 BPSK	135	138	19.10	19.35	19.17	20.0	0.5	
50	PI2 BPSK	270	0	18.76	18.63	18.48	20.5	0.0	
50	QPSK	1	1	19.63	19.78	19.59			
50	QPSK	1	137	19.05	19.40	18.40			
50	QPSK	1	271	19.06	19.47	19.19	19.5	1.0	
50	QPSK	135	0	18.18	17.97	18.08			
50	QPSK	135	69	19.17	19.37	19.04			
50	QPSK	135	138	19.15	19.36	19.31	19.5	1.0	
50	QPSK	270	0	18.38	18.45	18.41	19.0	2.5	
50	16QAM	1	1	17.39	17.61	17.62			
50	64QAM	1	1	16.49	16.48	16.51			
50	256QAM	1	1	14.72	14.69	14.64	16.0	4.5	
Channel				504000	507000	510000			
Frequency (MHz)				26.20	26.20	26.50			
40	QPSK	1	1	19.17	19.10	19.37	20.5	0.0	
Channel				503000	507000	511000			
Frequency (MHz)				26.15	26.35	26.65			
30	QPSK	1	1	19.05	19.11	19.40	0.0	0.0	
Channel				502500	507000	511500			
Frequency (MHz)				26.10	26.35	26.60			
25	QPSK	1	1	18.99	19.00	19.22	0.0	0.0	
Channel				502000	507000	512000			
Frequency (MHz)				26.05	26.35	26.65			
20	QPSK	1	1	19.60	19.54	19.71	20.5	0.0	
Channel				501500	507000	512500			
Frequency (MHz)				25.75	25.35	25.65			
15	QPSK	1	1	19.64	19.71	19.71	20.5	0.0	
Channel				501000	507000	513000			
Frequency (MHz)				25.65	25.35	25.65			
10	QPSK	1	1	19.61	19.76	19.69	20.5	0.0	
Channel				500500	507000	513500			
Frequency (MHz)				25.60	25.35	25.67.5			
5	QPSK	1	1	19.62	19.71	19.72	20.5	0.0	

Ant 7 n7 NSA									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				500000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PQ2 BPSK	1	1	21.90	22.10	21.81			
50	PQ2 BPSK	1	137	22.01	22.04	21.92	22.5	0.0	
50	PQ2 BPSK	1	271	21.69	21.59	21.67			
50	PQ2 BPSK	135	0	21.40	21.54	21.44	22.0	0.5	
50	PQ2 BPSK	135	69	21.80	21.97	21.87	22.5	0.0	
50	PQ2 BPSK	135	138	21.78	21.94	21.98			
50	PQ2 BPSK	270	0	21.81	21.50	21.86	22.0	0.5	
50	QPSK	1	1	21.95	22.17	21.87			
50	QPSK	1	137	22.00	21.96	21.76	22.5	0.0	
50	QPSK	1	271	21.73	21.67	21.67			
50	QPSK	135	0	21.26	21.10	21.98	21.5	1.0	
50	QPSK	135	69	21.84	22.04	21.89	22.5	0.0	
50	QPSK	135	138	21.32	21.23	21.12	21.5	1.0	
50	QPSK	270	0	21.12	20.96	20.92			
50	16QAM	1	1	21.03	21.08	21.14	21.5	1.0	
50	64QAM	1	1	19.59	19.63	19.59	20.0	2.5	
50	256QAM	1	1	17.79	17.61	17.57	18.0	4.5	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2530	2540			
40	QPSK	1	1	21.90	21.70	21.70	22.5	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	21.80	21.80	21.70	0.0	0.0	
Channel				502500	507000	511800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	21.53	21.79	21.61	0.0	0.0	
Channel				502000	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	21.70	21.98	21.68	22.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	21.70	21.71	21.81	22.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	21.90	21.90	21.84	22.5	0.0	
Channel				500500	507000	513800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	21.70	21.60	21.60	22.5	0.0	

Ant 2 n41 SA_PA 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				506002	518598	528000			
Frequency (MHz)				2548.01	2592.99	2640			
100	PI2 BPSK	1	1	24.52	24.64	24.52	25.5	0.0	
100	PI2 BPSK	1	137	24.85	24.76	24.63			
100	PI2 BPSK	1	271	24.64	24.63	24.64			
100	PI2 BPSK	136	0	24.52	24.57	24.65	25.0	0.5	
100	PI2 BPSK	136	69	24.52	24.59	24.54	25.5	0.0	
100	PI2 BPSK	136	136	24.57	24.57	24.43	25.0	0.5	
100	PI2 BPSK	270	0	24.63	24.70	24.87	25.5	0.0	
100	QPSK	1	1	24.85	24.86	24.76			
100	QPSK	1	137	24.74	24.56	24.86			
100	QPSK	1	271	24.53	24.58	24.74	24.5	1.0	
100	QPSK	136	0	23.87	23.65	23.53			
100	QPSK	136	69	24.54	24.67	24.66			
100	QPSK	136	136	23.65	23.86	23.87	24.5	1.0	
100	QPSK	270	0	23.51	23.55	23.52	24.5	1.0	
100	16QAM	1	1	23.19	23.36	23.19			
100	64QAM	1	1	22.22	22.34	22.19			
100	256QAM	1	1	19.32	19.22	19.32	21.0	4.5	
Channel				506200	518598	528999			
Frequency (MHz)				2541	2592.99	2641.01			
90	QPSK	1	1	24.74	24.65	24.64	25.5	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	24.76	24.86	24.87	25.5	0.0	
Channel				505200	518598	531998			
Frequency (MHz)				2506	2592.99	2659.98			
60	QPSK	1	1	24.46	24.52	24.53	25.5	0.0	
Channel				505203	518598	532999			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	24.58	24.57	24.46	25.5	0.0	
Channel				505202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	24.51	24.46	24.45	25.5	0.0	
Channel				502200	518598	534999			
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	24.44	24.46	24.56	25.5	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	24.57	24.57	24.43	25.5	0.0	

Ant 2 n41 SA_PA 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506202	518598	530000			
Frequency (MHz)				2541.01	2592.98	2640			
100	PI2 BPSK	1	1	21.78	21.86	21.73	23.0	0.0	
100	PI2 BPSK	1	137	21.56	21.58	21.65			
100	PI2 BPSK	1	271	21.43	21.54	21.66			
100	PI2 BPSK	136	0	21.21	21.29	21.12	22.5	0.5	
100	PI2 BPSK	136	69	21.55	21.67	21.55	23.0	0.0	
100	PI2 BPSK	136	136	21.54	21.63	21.54	22.5	0.5	
100	PI2 BPSK	270	0	21.23	21.21	21.12	23.0	0.0	
100	QPSK	1	1	21.86	21.80	21.84			
100	QPSK	1	137	21.65	21.87	21.67			
100	QPSK	1	271	21.66	21.71	21.77	22.0	1.0	
100	QPSK	136	0	20.76	20.82	20.87			
100	QPSK	136	69	21.56	21.65	21.55			
100	QPSK	136	136	21.55	21.58	21.57	22.0	1.0	
100	QPSK	270	0	20.56	20.68	20.85	22.0	1.0	
100	16QAM	1	1	20.12	20.22	20.12			
100	64QAM	1	1	19.12	19.34	19.21			
100	256QAM	1	1	17.22	17.42	17.20	18.5	4.5	
Channel				506200	518598	530999			
Frequency (MHz)				2541	2592.99	2644.01			
90	QPSK	1	120	21.68	21.54	21.45	23.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	108	21.76	21.65	21.79	23.0	0.0	
Channel				505200	518598	531998			
Frequency (MHz)				2506	2592.99	2659.98			
60	QPSK	1	81	21.55	21.84	21.66	23.0	0.0	
Channel				505203	518598	532999			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	64	21.67	21.76	21.67	23.0	0.0	
Channel				505202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	50	21.77	21.78	21.79	23.0	0.0	
Channel				502200	518598	534999			
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	36	21.74	21.77	21.65	23.0	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	25	21.65	21.66	21.84	23.0	0.0	

Ant 3 n41 SA_PA 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				506202	518598	528000			
Frequency (MHz)				2541.01	2592.99	2640			
100	PI2 BPSK	1	1	22.67	22.70	22.65	24.0	0.0	
100	PI2 BPSK	1	137	22.66	22.67	22.56			
100	PI2 BPSK	1	271	22.65	22.71	22.65			
100	PI2 BPSK	136	0	22.04	21.94	21.91	23.5	0.5	
100	PI2 BPSK	136	69	22.56	22.49	22.51	24.0	0.0	
100	PI2 BPSK	136	136	22.23	22.52	22.45	23.5	0.5	
100	PI2 BPSK	270	0	22.54	22.34	22.21	24.0	0.0	
100	QPSK	1	1	22.56	22.66	22.65			
100	QPSK	1	137	21.56	21.66	21.54			
100	QPSK	1	271	21.76	21.82	21.78	23.0	1.0	
100	QPSK	136	0	20.65	20.54	20.55			
100	QPSK	136	69	22.54	22.66	22.54			
100	QPSK	136	136	21.65	21.66	21.34	23.0	1.0	
100	QPSK	270	0	20.87	20.83	20.55	23.0	1.0	
100	16QAM	1	1	21.55	21.45	21.45			
100	16QAM	1	1	19.43	19.35	19.21			
100	64QAM	1	1	18.00	18.01	17.92	19.5	4.5	
100	256QAM	1	1	18.00	18.01	17.92	19.5	4.5	
Channel				506200	518598	528999			
Frequency (MHz)				2541	2592.99	2641.01			
90	QPSK	1	1	22.76	22.67	22.65	24.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	22.66	22.67	22.70	24.0	0.0	
Channel				505200	518598	531998			
Frequency (MHz)				2506	2592.99	2659.98			
60	QPSK	1	1	22.78	22.65	22.67	24.0	0.0	
Channel				505203	518598	532999			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	22.65	22.67	22.77	24.0	0.0	
Channel				505202	518598	534000			
Frequency (MHz)				2446.01	2592.99	2670			
40	QPSK	1	1	22.78	22.75	22.67	24.0	0.0	
Channel				502200	518598	534999			
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	22.78	22.77	22.84	24.0	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	22.56	22.64	22.67	24.0	0.0	

Ant 3 n41 SA_PA 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				505202	518998	528000				
Frequency (MHz)				256.01	2592.99	2640				
100	PI2 BPSK	1	1	24.34	24.43	24.45				
100	PI2 BPSK	1	137	24.22	24.37	24.43	25.5	0.0		
100	PI2 BPSK	1	271	24.21	24.32	24.22				
100	PI2 BPSK	135	0	23.97	23.98	24.01	25.0	0.5		
100	PI2 BPSK	135	69	24.32	24.35	24.25	25.5	0.0		
100	PI2 BPSK	135	138	24.10	24.00	23.99	25.0	0.5		
100	PI2 BPSK	270	0	24.88	23.98	24.78				
100	QPSK	1	1	24.70	24.86	24.65				
100	QPSK	1	137	24.40	24.50	24.34	25.5	0.0		
100	QPSK	1	271	24.43	24.38	24.21				
100	QPSK	135	0	23.65	23.48	23.55	24.5	1.0		
100	QPSK	135	69	24.23	24.61	24.21	25.5	0.0		
100	QPSK	135	138	24.54	24.48	24.34	24.5	1.0		
100	QPSK	270	0	23.45	23.53	23.51	24.5	1.0		
100	16QAM	1	1	23.01	23.05	23.01	24.5	1.0		
100	64QAM	1	1	22.21	22.02	22.00	23.0	2.5		
100	256QAM	1	1	20.56	20.58	20.54	21.0	4.5		
Channel				506200	518998	528996				
Frequency (MHz)				2541	2592.99	2644.98				
90	QPSK	120	60	24.55	24.22	24.43	25.5	0.0		
Channel				507204	518998	529996				
Frequency (MHz)				2536.02	2592.99	2649.99				
80	QPSK	108	54	24.65	24.55	24.53	25.5	0.0		
Channel				505200	518998	531996				
Frequency (MHz)				2526	2592.99	2659.98				
60	QPSK	81	40	24.45	24.56	24.43	25.5	0.0		
Channel				2522.04	518998	532996				
Frequency (MHz)				2521.02	2592.99	2664.99				
50	QPSK	64	32	24.66	24.66	24.67	25.5	0.0		
Channel				503202	518998	534000				
Frequency (MHz)				2416.01	2592.99	2670				
40	QPSK	50	25	24.55	24.53	24.53	25.5	0.0		
Channel				502200	518998	534996				
Frequency (MHz)				2411	2592.99	2674.98				
30	QPSK	36	18	24.56	24.65	24.67	25.5	0.0		
Channel				501204	518998	535996				
Frequency (MHz)				2506.02	2592.99	2679.99				
20	QPSK	25	12	24.35	24.65	24.67	25.5	0.0		

Ant 4 n41 SA_PA 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				505202	518998	528000				
Frequency (MHz)				256.01	2592.99	2640				
100	PI2 BPSK	1	1	23.54	24.45	24.43				
100	PI2 BPSK	1	137	24.34	24.55	24.44	25.5	0.0		
100	PI2 BPSK	1	271	24.32	24.43	24.35				
100	PI2 BPSK	135	0	23.99	23.94	23.99	25.0	0.5		
100	PI2 BPSK	135	69	24.45	24.63	24.56	25.5	0.0		
100	PI2 BPSK	135	138	24.54	24.65	24.44	25.0	0.5		
100	PI2 BPSK	270	0	24.01	24.02	24.05				
100	QPSK	1	1	24.34	24.68	24.50				
100	QPSK	1	137	23.91	23.82	23.87	25.5	0.0		
100	QPSK	1	271	24.11	24.16	24.10				
100	QPSK	135	0	22.54	22.35	22.43	24.5	1.0		
100	QPSK	135	69	23.95	26.10	23.67	25.5	0.0		
100	QPSK	135	138	24.05	24.08	24.01	24.5	1.0		
100	QPSK	270	0	23.67	23.75	23.94	24.5	1.0		
100	16QAM	1	1	22.85	22.76	22.85	24.5	1.0		
100	64QAM	1	1	20.54	20.69	20.56	23.0	2.5		
100	256QAM	1	1	19.45	19.27	19.20	21.0	4.5		
Channel				506200	518998	528996				
Frequency (MHz)				2541	2592.99	2644.98				
90	QPSK	1	1	24.43	24.43	24.45	25.5	0.0		
Channel				507204	518998	529996				
Frequency (MHz)				2536.02	2592.99	2649.99				
80	QPSK	1	1	24.34	24.44	24.43	25.5	0.0		
Channel				505200	518998	531996				
Frequency (MHz)				2526	2592.99	2659.98				
60	QPSK	1	1	24.54	24.53	24.51	25.5	0.0		
Channel				505204	518998	532996				
Frequency (MHz)				2521.02	2592.99	2664.99				
50	QPSK	1	1	24.56	24.53	24.56	25.5	0.0		
Channel				503202	518998	534000				
Frequency (MHz)				2416.01	2592.99	2670				
40	QPSK	1	1	24.67	24.66	24.67	25.5	0.0		
Channel				502200	518998	534996				
Frequency (MHz)				2411	2592.99	2674.98				
30	QPSK	1	1	24.54	24.55	24.54	25.5	0.0		
Channel				501204	518998	535996				
Frequency (MHz)				2506.02	2592.99	2679.99				
20	QPSK	1	1	24.54	24.65	24.67	25.5	0.0		

Ant 4 n41 SA_PA 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				505202	518998	528000				
Frequency (MHz)				256.01	2592.99	2640				
17.50	100	PI2 BPSK	1	21.56	21.44	21.65				
	100	PI2 BPSK	1	21.67	21.54	21.66	22.5	0.0		
	100	PI2 BPSK	1	21.66	21.72	21.62				
	100	PI2 BPSK	135	0	21.61	21.64	21.61	22.0	0.5	
	100	PI2 BPSK	135	69	21.76	21.82	21.65	22.5	0.0	
	100	PI2 BPSK	135	138	21.77	21.89	21.66	22.0	0.5	
	100	PI2 BPSK	270	0	21.10	21.17	21.15			
	100	QPSK	1	1	21.83	21.83	21.77			
	100	QPSK	1	137	21.65	21.71	21.56	22.5	0.0	
	100	QPSK	1	271	21.66	21.76	21.55			
	100	QPSK	135	0	20.61	20.68	20.65	21.5	1.0	
	100	QPSK	135	69	21.34	21.68	21.46	22.5	0.0	
100	QPSK	135	138	21.77	21.87	21.66	21.5	1.0		
100	QPSK	270	0	20.85	20.97	20.78	21.5	1.0		
100	16QAM	1	1	20.01	20.05	20.01	21.5	1.0		
100	64QAM	1	1	19.45	19.65	19.54	20.0	2.5		
100	256QAM	1	1	17.77	17.82	17.66	18.0	4.5		
Channel				508200	518998	528996				
Frequency (MHz)				2541	2592.99	2644.98				
90	QPSK	120	60	21.56	21.45	21.22	22.5	0.0		
Channel				509204	518998	529996				
Frequency (MHz)				2536.02	2592.99	2649.99				
80	QPSK	108	54	21.54	21.65	21.51	22.5	0.0		
Channel				505200	518998	531996				
Frequency (MHz)				2526	2592.99	2659.98				
60	QPSK	81	40	21.55	21.47	21.60	22.5	0.0		
Channel				504204	518998	533998				
Frequency (MHz)				2516.01	2592.99	2649.99				
50	QPSK	64	32	21.57	21.56	21.56	22.5	0.0		
Channel				503200	518998	534000				
Frequency (MHz)				2516.01	2592.99	2670				
30	QPSK	50	25	21.48	21.54	21.63	22.5	0.0		
Channel				502200	518998	534006				
Frequency (MHz)				2511	2592.99	2674.98				
30	QPSK	38	18	21.66	21.54	21.57	22.5	0.0		
Channel				501200	518998	535998				
Frequency (MHz)				2506.02	2592.99	2679.99				
25	QPSK	25	12	21.45	21.44	21.51	22.5	0.0		

Ant 7 n41 SA_ PA 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	518568	528000				
Frequency (MHz)				2545.01	2592.89	2640				
100	Pi2 BPSK	1	1	19.93	19.88	19.98				
100	Pi2 BPSK	1	137	19.99	19.92	19.85	20.5	0.0		
100	Pi2 BPSK	1	271	19.89	19.90	19.99				
100	Pi2 BPSK	135	0	19.34	19.44	19.65	20.0	0.5		
100	Pi2 BPSK	135	69	19.33	19.40	19.45	20.5	0.0		
100	Pi2 BPSK	135	138	19.99	19.90	19.93	20.0	0.5		
100	Pi2 BPSK	270	0	19.55	19.34	19.32				
100	QPSK	1	1	19.94	19.90	19.87				
100	QPSK	1	137	19.10	19.12	19.12	20.5	0.0		
100	QPSK	1	271	19.01	19.02	19.02				
100	QPSK	135	0	18.86	18.93	18.88	19.5	1.0		
100	QPSK	135	69	19.02	19.23	19.04	20.5	0.0		
100	QPSK	135	138	19.00	18.99	18.91	19.5	1.0		
100	QPSK	270	0	18.00	18.01	17.95				
100	16QAM	1	1	17.83	17.88	17.77	19.5	1.0		
100	64QAM	1	1	16.34	16.29	16.12	18.0	2.5		
100	256QAM	1	1	15.44	15.34	15.23	16.0	4.5		
Channel				508200	518568	528996				
Frequency (MHz)				2541	2592.89	2643.85	17mT1	MPR (dB)		
90	QPSK	1	1	19.98	19.95	19.94	20.5	0.0		
Channel				507904	518568	520998				
Frequency (MHz)				2536.02	2592.99	2649.99				
80	QPSK	1	1	19.85	19.76	19.84	20.5	0.0		
Channel				505000	518568	531996				
Frequency (MHz)				2526	2592.99	2659.98				
80	QPSK	1	1	19.89	19.88	19.76	20.5	0.0		
Channel				2521.02	2592.99	2664.99	17mT1	(dB)		
90	QPSK	1	1	19.88	19.75	19.87	20.5	0.0		
Channel				503002	518568	534000				
Frequency (MHz)				2514.01	2592.99	2670	17mT1	MPR (dB)		
40	QPSK	1	1	19.85	19.78	19.76	20.5	0.0		
Channel				502000	518568	534996				
Frequency (MHz)				2511	2592.99	2674.99	(dB)			
30	QPSK	1	1	19.88	19.76	19.72	20.5	0.0		
Channel				501204	518568	533998				
Frequency (MHz)				2506.02	2592.99	2675.99	17mT1	MPR (dB)		
20	QPSK	1	1	19.78	19.88	19.76	20.5	0.0		

Ant 12 n41 SA_ PA 2										
BW [MHz]	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	518568	528000				
Frequency (MHz)				2545.01	2592.89	2640				
100	Pi2 BPSK	1	1	23.00	23.01	23.01				
100	Pi2 BPSK	1	137	22.89	22.77	22.98	23.5	0.0		
100	Pi2 BPSK	1	271	22.56	22.85	22.88				
100	Pi2 BPSK	135	0	22.33	22.41	22.65	23.0	0.5		
100	Pi2 BPSK	135	69	22.56	22.74	22.81	23.5	0.0		
100	Pi2 BPSK	135	138	22.86	22.78	22.88	23.0	0.5		
100	Pi2 BPSK	270	0	22.21	22.30	22.65				
100	QPSK	1	1	23.10	23.16	23.05				
100	QPSK	1	137	22.78	22.96	22.87	23.5	0.0		
100	QPSK	1	271	22.73	22.81	22.76				
100	QPSK	135	0	21.99	21.97	21.87	22.5	1.0		
100	QPSK	135	69	22.88	22.80	22.77	23.5	0.0		
100	QPSK	135	138	22.91	22.80	22.78	22.5	1.0		
100	QPSK	270	0	21.84	21.85	21.76				
100	16QAM	1	1	21.76	21.68	21.77	22.5	1.0		
100	64QAM	1	1	20.23	20.38	20.23	21.0	2.5		
100	256QAM	1	1	18.54	18.65	18.56	19.0	4.5		
Channel				508200	518568	528996				
Frequency (MHz)				2541	2592.89	2643.85	17mT1	MPR (dB)		
90	QPSK	1	1	23.01	23.11	23.12	23.5	0.0		
Channel				507904	518568	520998				
Frequency (MHz)				2536.02	2592.99	2649.99				
80	QPSK	1	1	23.12	23.16	23.09	23.5	0.0		
Channel				505000	518568	531996				
Frequency (MHz)				2526	2592.99	2659.98				
80	QPSK	1	1	23.11	23.09	23.01	23.5	0.0		
Channel				2521.02	2592.99	2664.99	17mT1	(dB)		
90	QPSK	1	1	22.89	22.99	22.91	23.5	0.0		
Channel				503002	518568	534000				
Frequency (MHz)				2514.01	2592.99	2670	17mT1	MPR (dB)		
40	QPSK	1	1	22.91	22.89	23.01	23.5	0.0		
Channel				502000	518568	534996				
Frequency (MHz)				2511	2592.99	2674.99	(dB)			
30	QPSK	1	1	23.02	23.10	23.11	23.5	0.0		
Channel				501204	518568	533998				
Frequency (MHz)				2506.02	2592.99	2675.99	17mT1	MPR (dB)		
20	QPSK	1	1	23.11	23.15	23.11	23.5	0.0		

Ant 6 n77 PC3 SA										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				650000	656000	662000				
Frequency (MHz)				3760	3840	3920				
100	Pi2 BPSK	1	1	24.77	24.81	24.78				
100	Pi2 BPSK	1	137	24.23	24.83	24.77	25.5	0.0		
100	Pi2 BPSK	1	271	24.53	24.85	24.82				
100	Pi2 BPSK	135	0	24.52	24.63	24.83				
100	Pi2 BPSK	135	69	24.33	24.65	24.55	25.5	0.0		
100	Pi2 BPSK	135	138	24.63	24.81	24.65				
100	Pi2 BPSK	270	0	24.52	24.53	24.66	25.0	0.5		
100	QPSK	1	1	24.71	24.66	24.53				
100	QPSK	1	137	24.44	24.57	24.63	25.5	0.0		
100	QPSK	1	271	24.35	24.52	24.65				
100	QPSK	135	0	24.33	24.48	24.50				
100	QPSK	135	69	24.50	24.72	24.45	25.5	0.0		
100	QPSK	135	138	24.32	24.50	24.63				
100	QPSK	270	0	24.33	24.43	24.61	24.5	1.0		
100	16QAM	1	1	24.32	24.35	24.40	24.5	1.0		
100	64QAM	1	1	23.55	23.50	23.42	23.0	2.5		
100	256QAM	1	1	21.50	21.42	21.55	21.0	4.5		
Channel				649998	656000	662334				
Frequency (MHz)				3753.02	3840	3933.01	Tune-up limit (dBm)	MPR		
90	QPSK	1	1	24.66	24.52	24.55	25.5	0.0		
Channel				649334	656000	662668				
Frequency (MHz)				3740.01	3840	3940.02	Tune-up limit (dBm)	MPR		
80	QPSK	1	1	24.56	24.55	24.63	23.5	0.0		
Channel				649998	656000	663334				
Frequency (MHz)				3730.02	3840	3950.01	Tune-up limit (dBm)	MPR		
80	QPSK	1	1	24.56	24.45	24.52	23.5	0.0		
Channel				649334	656000	663668				
Frequency (MHz)				3720.01	3840	3960.02	Tune-up limit (dBm)	MPR		
50	QPSK	1	1	24.61	24.63	24.55	25.5	0.0		
Channel				648000	656000	664000				
Frequency (MHz)				3720	3840	3960	Tune-up limit (dBm)	MPR		
40	QPSK	1	1	24.50	24.50	24.55	23.5	0.0		
Channel				647000	656000	663334				
Frequency (MHz)				3715.02	3840	3965.01	Tune-up limit (dBm)	MPR		
30	QPSK	1	1	24.63	24.64	24.65	23.5	0.0		
Channel				647250	656000	663668				
Frequency (MHz)				3710.01	3840	3970.02	Tune-up limit (dBm)	MPR		
20	QPSK	1	1	24.53	24.52	24.56	25.5	0.0		

Ant 6 n77 HPUE SA									
BW [MHz]	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)				3160	3160	3160			
100	PI2 BPSK	1	1	26.15	26.17	26.12			
100	PI2 BPSK	1	137	26.21	26.29	26.21	27.5	0.0	
100	PI2 BPSK	1	271	26.12	26.37	26.33			
100	PI2 BPSK	136	0	26.11	26.76	26.93			
100	PI2 BPSK	136	69	26.21	26.24	26.11	27.5	0.0	
100	PI2 BPSK	136	136	26.96	26.75	26.72			
100	PI2 BPSK	270	0	25.83	25.67	25.86	27.0	0.5	
100	QPSK	1	1	26.21	26.36	26.22			
100	QPSK	1	137	26.21	26.23	26.21	27.5	0.0	
100	QPSK	1	271	26.12	26.24	26.32			
100	QPSK	136	0	25.03	25.06	25.02			
100	QPSK	136	69	26.11	26.25	26.22	27.5	0.0	
100	QPSK	136	136	25.10	25.16	25.13			
100	QPSK	270	0	25.03	25.06	25.03	26.5	1.0	
100	16QAM	1	1	25.12	25.20	25.33	26.5	1.0	
100	64QAM	1	1	23.61	23.64	23.63	25.0	2.5	
100	256QAM	1	1	21.45	21.47	21.33	23.0	4.5	
Channel				649668	656000	662334	Tune-up limit	MPR	
Frequency (MHz)				3162.02	3160	3163.01	(dBm)	(dB)	
90	QPSK	1	1	26.21	26.07	26.10	27.5	0.0	
Channel				649334	656000	662668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	26.11	26.10	26.18	27.5	0.0	
Channel				649668	656000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	26.11	26.06	26.07	27.5	0.0	
Channel				649334	656000	662999	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	26.16	26.18	26.10	27.5	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3160	3160	3160	(dBm)	(dB)	
40	QPSK	1	1	26.07	26.14	26.10	27.5	0.0	
Channel				647668	656000	664334	Tune-up limit	MPR	
Frequency (MHz)				3170.02	3160	3163.01	(dBm)	(dB)	
30	QPSK	1	1	26.16	26.19	26.20	27.5	0.0	
Channel				647334	656000	664668	Tune-up limit	MPR	
Frequency (MHz)				3170.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	26.08	26.07	26.11	27.5	0.0	

Ant 6 n77 HPUE MIMO									
BW [MHz]	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)				3160	3160	3160			
100	PI2 BPSK	1	1	22.43	22.37	22.33			
100	PI2 BPSK	1	137	21.77	22.36	22.29	23.0	0.0	
100	PI2 BPSK	1	271	22.09	22.40	22.37			
100	PI2 BPSK	136	0	22.06	22.15	22.36			
100	PI2 BPSK	136	69	21.89	22.20	22.10	23.0	0.0	
100	PI2 BPSK	136	136	22.15	22.13	22.17			
100	PI2 BPSK	270	0	22.07	22.08	22.21	22.5	0.5	
100	QPSK	1	1	22.25	22.46	22.05			
100	QPSK	1	137	22.00	22.12	22.18	23.0	0.0	
100	QPSK	1	271	21.90	22.07	22.17			
100	QPSK	136	0	21.88	22.00	22.05			
100	QPSK	136	69	22.02	22.07	21.97	23.0	0.0	
100	QPSK	136	136	21.87	22.02	22.18			
100	QPSK	270	0	21.85	21.99	21.16	22.0	1.0	
100	16QAM	1	1	21.84	21.88	21.12	22.0	1.0	
100	64QAM	1	1	20.10	20.06	20.07	20.5	2.5	
100	256QAM	1	1	18.16	18.04	18.07	18.5	4.5	
Channel				649668	656000	662334	Tune-up limit	MPR	
Frequency (MHz)				3162.02	3160	3163.01	(dBm)	(dB)	
90	QPSK	1	1	22.32	22.08	22.10	23.0	0.0	
Channel				649334	656000	662668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	22.22	22.11	22.18	23.0	0.0	
Channel				649668	656000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	22.22	22.01	22.07	23.0	0.0	
Channel				649334	656000	662999	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	22.27	22.19	22.10	23.0	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3160	3160	3160	(dBm)	(dB)	
40	QPSK	1	1	22.18	22.15	22.10	23.0	0.0	
Channel				647668	656000	664334	Tune-up limit	MPR	
Frequency (MHz)				3170.02	3160	3163.01	(dBm)	(dB)	
30	QPSK	1	1	22.29	22.20	22.20	23.0	0.0	
Channel				647334	656000	664668	Tune-up limit	MPR	
Frequency (MHz)				3170.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	22.15	22.13	22.10	23.0	0.0	

Ant 6 n77 PC3 MIMO									
BW [MHz]	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)				3160	3160	3160			
100	PI2 BPSK	1	1	20.60	20.54	20.50			
100	PI2 BPSK	1	137	19.94	20.53	20.46	21.0	0.0	
100	PI2 BPSK	1	271	20.26	20.57	20.54			
100	PI2 BPSK	136	0	20.22	20.32	20.52			
100	PI2 BPSK	136	69	20.06	20.37	20.27	21.0	0.0	
100	PI2 BPSK	136	136	20.32	20.30	20.34			
100	PI2 BPSK	270	0	20.24	20.25	20.38	20.5	0.5	
100	QPSK	1	1	20.40	20.65	20.22			
100	QPSK	1	137	20.17	20.29	20.35	21.0	0.0	
100	QPSK	1	271	20.07	20.24	20.34			
100	QPSK	136	0	20.05	20.17	20.22			
100	QPSK	136	69	20.19	20.44	20.14	21.0	0.0	
100	QPSK	136	136	20.04	20.19	20.35			
100	QPSK	270	0	20.02	20.16	20.33	20.0	1.0	
100	16QAM	1	1	20.01	20.05	20.29	20.0	1.0	
100	64QAM	1	1	18.27	18.03	18.14	18.5	2.5	
100	256QAM	1	1	16.33	16.11	16.04	16.5	4.5	
Channel				649668	656000	662334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)	
90	QPSK	1	1	20.49	20.25	20.27	21.0	0.0	
Channel				649334	656000	662668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	20.39	20.29	20.35	21.0	0.0	
Channel				649668	656000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	20.39	20.18	20.24	21.0	0.0	
Channel				649334	656000	662999	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	20.44	20.36	20.27	21.0	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3160	3160	3160	(dBm)	(dB)	
40	QPSK	1	1	20.35	20.32	20.27	21.0	0.0	
Channel				647668	656000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	20.46	20.37	20.27	21.0	0.0	
Channel				647334	656000	663999	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	20.32	20.30	20.27	21.0	0.0	

Ant 9 n77 PC3 SA										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				650000	650000	652000				
Frequency (MHz)				3750	3840	3930				
100	Pi2 BPSK	1	1	19.85	19.70	19.85	21.5	0.0		
100	Pi2 BPSK	1	137	19.88	19.98	19.88				
100	Pi2 BPSK	1	271	20.11	20.17	19.88				
100	Pi2 BPSK	135	0	20.12	20.16	19.86	21.5	0.0		
100	Pi2 BPSK	135	69	20.03	19.96	20.11				
100	Pi2 BPSK	135	138	20.05	20.10	20.12				
100	Pi2 BPSK	270	0	20.22	20.00	19.99	21.0	0.5		
100	QPSK	1	1	20.12	20.23	20.13	21.5	0.0		
100	QPSK	1	137	20.02	19.98	20.11				
100	QPSK	1	271	20.22	20.20	20.03				
100	QPSK	135	0	19.88	19.78	20.01	21.5	0.0		
100	QPSK	135	69	19.89	20.13	19.93				
100	QPSK	135	138	20.10	20.12	19.99				
100	QPSK	270	0	19.92	19.90	20.03	20.5	1.0		
100	16QAM	1	1	20.12	20.14	20.00	20.5	1.0		
100	64QAM	1	1	18.65	18.62	18.62	19.0	2.5		
100	256QAM	1	1	16.26	16.22	16.21	17.0	4.5		
Channel				649698	656000	662334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)		
90	QPSK	1	1	20.12	19.98	20.01	21.5	0.0		
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)		
80	QPSK	1	1	20.01	20.02	20.09	21.5	0.0		
Channel				649698	656000	663334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)		
60	QPSK	1	1	20.07	20.09	20.01	21.5	0.0		
Channel				649334	656000	663000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)		
50	QPSK	1	1	19.98	20.05	20.01	21.5	0.0		
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)		
40	QPSK	1	1	20.09	20.10	20.11	21.5	0.0		
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3715.02	3840	3955.01	(dBm)	(dB)		
30	QPSK	1	1	20.08	20.08	20.12	21.5	0.0		
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)		
20	QPSK	1	1	19.95	19.98	20.02	21.5	0.0		

Ant 9 n77 HPUE SA										
BW (MHz)	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	652000				
Frequency (MHz)				3750	3840	3930				
100	Pi2 BPSK	1	1	20.83	20.77	20.65	22.0	0.0		
100	Pi2 BPSK	1	137	20.88	21.07	21.00				
100	Pi2 BPSK	1	271	20.12	20.88	21.01				
100	Pi2 BPSK	135	0	20.32	20.36	20.48	22.0	0.0		
100	Pi2 BPSK	135	69	21.02	21.09	20.89				
100	Pi2 BPSK	135	138	20.63	20.76	20.86				
100	Pi2 BPSK	270	0	20.55	20.67	20.66	21.5	0.5		
100	QPSK	1	1	21.03	21.12	20.96	22.0	0.0		
100	QPSK	1	137	20.89	20.88	20.89				
100	QPSK	1	271	20.86	20.92	20.93				
100	QPSK	135	0	19.89	20.33	20.03	22.0	0.0		
100	QPSK	135	69	20.88	20.65	20.89				
100	QPSK	135	138	20.32	20.11	20.12				
100	QPSK	270	0	19.92	19.91	19.99	21.0	1.0		
100	16QAM	1	1	19.89	19.99	19.88	21.0	1.0		
100	64QAM	1	1	18.33	18.36	18.23	19.5	2.5		
100	256QAM	1	1	16.00	16.02	15.89	17.5	4.5		
Channel				649698	656000	662334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)		
90	QPSK	1	1	20.05	20.46	20.47	22.0	0.0		
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)		
80	QPSK	1	1	20.54	20.50	20.55	22.0	0.0		
Channel				649698	656000	663334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)		
60	QPSK	1	1	20.60	20.57	20.47	22.0	0.0		
Channel				649334	656000	663000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)		
50	QPSK	1	1	20.51	20.53	20.47	22.0	0.0		
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3720	3840	3940	(dBm)	(dB)		
40	QPSK	1	1	20.62	20.58	20.57	22.0	0.0		
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3713.02	3840	3953.01	(dBm)	(dB)		
30	QPSK	1	1	20.61	20.60	20.57	22.0	0.0		
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)		
20	QPSK	1	1	20.52	20.46	20.48	22.0	0.0		

Ant 9 n77 HPUE MIMO										
BW (MHz)	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	652000				
Frequency (MHz)				3750	3840	3930				
100	Pi2 BPSK	1	1	18.42	18.26	18.49	20.0	0.0		
100	Pi2 BPSK	1	137	18.39	18.48	18.39				
100	Pi2 BPSK	1	271	18.68	18.73	18.52				
100	Pi2 BPSK	135	0	18.63	18.73	18.42	20.0	0.0		
100	Pi2 BPSK	135	69	18.60	18.47	18.63				
100	Pi2 BPSK	135	138	18.62	18.66	18.68				
100	Pi2 BPSK	270	0	18.73	18.52	18.51	19.5	0.5		
100	QPSK	1	1	18.69	18.79	18.66	20.0			
100	QPSK	1	137	18.53	18.50	18.75				
100	QPSK	1	271	18.73	18.72	18.59				
100	QPSK	135	0	18.55	18.34	18.65	20.0			
100	QPSK	135	69	18.45	18.77	18.46				
100	QPSK	135	138	18.62	18.65	18.63				
100	QPSK	270	0	18.48	18.54	18.56	19.0	1.0		
100	16QAM	1	1	18.69	18.70	18.64	19.0	1.0		
100	64QAM	1	1	17.16	17.44	17.35	17.5	2.5		
100	256QAM	1	1	14.82	14.78	14.85	15.5	4.5		
Channel				649698	656000	662334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)		
90	QPSK	1	1	18.68	18.62	18.54	20.0	0.0		
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)		
80	QPSK	1	1	18.59	18.58	18.6	20.0			
Channel				649698	656000	663334				
Frequency (MHz)				3740	3840	3940.01				
60	QPSK	1	1	18.63	18.65	18.65	20.0			
Channel				648334	656000	663968				
Frequency (MHz)				3725.01	3840	3935.02				
50	QPSK	1	1	18.49	18.57	18.54	20.0			
Channel				648900	656000	664000				
Frequency (MHz)				3720	3840	3960				
40	QPSK	1	1	18.66	18.66	18.75	20.0	0.0		
Channel				647698	656000	663334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)		
30	QPSK	1	1	18.59	18.60	18.65	20.0	0.0		
Channel				647298	656000	663968	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3710.01	3840	3960.02	(dBm)	(dB)		
20	QPSK	1	1	18.55	18.62	18.55	20.0	0.0		

Ant 9 n77 PC3 MIMO									
BW [MHz]	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)				2160	2160	2160			
100	PI2 BPSK	1	1	16.29	16.13	16.36			
100	PI2 BPSK	1	137	16.26	16.35	16.26	18.0	0.0	
100	PI2 BPSK	1	271	16.55	16.60	16.39			
100	PI2 BPSK	136	0	16.50	16.60	16.29			
100	PI2 BPSK	136	69	16.47	16.34	16.50	18.0	0.0	
100	PI2 BPSK	136	136	16.48	16.53	16.55			
100	PI2 BPSK	270	0	16.80	16.39	16.38			
100	QPSK	1	1	16.56	16.66	16.53	17.5	0.5	
100	QPSK	1	137	16.40	16.37	16.62			
100	QPSK	1	271	16.60	16.59	16.43			
100	QPSK	136	0	16.42	16.21	16.62	18.0	0.0	
100	QPSK	136	69	16.32	16.64	16.33			
100	QPSK	136	136	16.49	16.52	16.50			
100	QPSK	270	0	16.35	16.41	16.43	17.0	1.0	
100	16QAM	1	1	16.56	16.57	16.51			
100	64QAM	1	1	15.03	15.31	15.22		15.5	
100	256QAM	1	1	12.89	12.65	12.72			
Channel				649668	656000	662334	Tune-up limit	MPR	
Frequency (MHz)				3743.02	3740	3743.01	(dBm)	(dB)	
90	QPSK	1	1	16.55	16.49	16.41	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	16.45	16.45	16.49	18.0	0.0	
Channel				649668	656000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3960.01	(dBm)	(dB)	
60	QPSK	1	1	16.50	16.52	16.52	18.0	0.0	
Channel				649334	656000	662668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3965.02	(dBm)	(dB)	
50	QPSK	1	1	16.36	16.44	16.41	18.0	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3730	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	16.53	16.53	16.62	18.0	0.0	
Channel				647668	656000	664334	Tune-up limit	MPR	
Frequency (MHz)				3710.02	3840	3970.01	(dBm)	(dB)	
30	QPSK	1	1	16.44	16.47	16.52	19.0	0.0	
Channel				647334	656000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	16.42	16.49	16.42	18.0	0.0	

Ant 12 n77 PC3 SA									
BW [MHz]	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	21.5	0.0	
Frequency (MHz)				2160	2160	2160			
100	PI2 BPSK	1	1	19.99	19.86	19.96			
100	PI2 BPSK	1	137	19.89	19.77	19.89	21.5	0.0	
100	PI2 BPSK	1	271	19.66	19.78	19.63			
100	PI2 BPSK	136	0	19.85	19.80	19.92			
100	PI2 BPSK	136	69	19.89	19.72	19.83	21.0	0.5	
100	PI2 BPSK	136	136	19.77	19.75	19.99			
100	PI2 BPSK	270	0	19.86	19.79	19.83			
100	QPSK	1	1	19.93	20.00	19.90	21.5	0.0	
100	QPSK	1	137	19.72	19.79	19.83			
100	QPSK	1	271	19.77	19.65	19.92			
100	QPSK	136	0	19.63	19.81	19.88	21.5	0.0	
100	QPSK	136	69	19.82	19.94	19.92			
100	QPSK	136	136	19.93	19.71	19.82			
100	QPSK	270	0	19.83	19.74	19.81	20.5	1.0	
100	16QAM	1	1	19.85	19.89	19.83			
100	64QAM	1	1	19.06	19.96	19.86		19.0	
100	256QAM	1	1	16.89	16.87	16.78			
Channel				649668	656000	662334	Tune-up limit	MPR	
Frequency (MHz)				3743.02	3740	3743.01	(dBm)	(dB)	
90	QPSK	1	1	19.12	19.73	19.74	21.5	0.0	
Channel				649334	656000	662668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	19.81	19.77	19.82	21.5	0.0	
Channel				649668	656000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3960.01	(dBm)	(dB)	
60	QPSK	1	1	19.87	19.84	19.74	21.5	0.0	
Channel				649334	656000	662668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3965.02	(dBm)	(dB)	
50	QPSK	1	1	19.78	19.80	19.74	21.5	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3730	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	19.89	19.85	19.84	21.5	0.0	
Channel				647668	656000	664334	Tune-up limit	MPR	
Frequency (MHz)				3710.02	3840	3970.01	(dBm)	(dB)	
30	QPSK	1	1	19.18	19.87	19.84	21.5	0.0	
Channel				647334	656000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	19.79	19.73	19.75	21.5	0.0	

Ant 12 n77 HPUE SA												
BW [MHz]	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	22.0	0.0				
Frequency (MHz)				1750	3400	3900						
100	PI2 BPSK	1	1	20.94	21.06	20.82						
100	PI2 BPSK	1	137	20.90	20.95	20.80	22.0	0.0				
100	PI2 BPSK	1	271	20.80	20.88	20.79						
100	PI2 BPSK	136	0	20.38	20.49	20.29						
100	PI2 BPSK	136	69	20.86	20.85	20.75	22.0	0.0				
100	PI2 BPSK	136	136	20.29	20.39	20.25						
100	PI2 BPSK	270	0	20.16	20.33	20.27						
100	QPSK	1	1	21.19	21.07	21.12	21.5	0.5				
100	QPSK	1	137	20.97	21.05	20.93						
100	QPSK	1	271	20.78	20.95	20.68						
100	QPSK	136	0	20.09	20.05	19.89	22.0	0.0				
100	QPSK	136	69	20.76	20.81	20.69						
100	QPSK	136	136	19.82	19.85	19.62						
100	QPSK	270	0	19.76	19.84	19.64	21.0	1.0				
100	16QAM	1	1	20.10	20.17	20.04						
100	64QAM	1	1	18.56	18.52	18.42						
100	256QAM	1	1	16.68	16.62	16.40	21.0	4.5				
Channel				649668	656000	662334				Tune-up limit	MPR	
Frequency (MHz)				3743.02	3840	3935.01				(dBm)	(dB)	
90	QPSK	1	1	20.99	21.05	20.83	22.0	0.0				
Channel				649334	656000	662668	Tune-up limit	MPR				
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)				
80	QPSK	1	1	21.15	21.18	20.97	22.0	0.0				
Channel				649668	656000	663334	Tune-up limit	MPR				
Frequency (MHz)				3730.02	3840	3960.01	(dBm)	(dB)				
60	QPSK	1	1	20.97	21.09	20.98	22.0	0.0				
Channel				649334	656000	662668	Tune-up limit	MPR				
Frequency (MHz)				3725.01	3840	3965.02	(dBm)	(dB)				
50	QPSK	1	1	21.12	21.18	21.14	22.0	0.0				
Channel				648000	656000	664000	Tune-up limit	MPR				
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)				
40	QPSK	1	1	20.95	21.17	20.99	22.0	0.0				
Channel				647764	656000	663334	Tune-up limit	MPR				
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)				
30	QPSK	1	1	21.11	21.29	20.90	22.0	0.0				
Channel				647234	656000	662866	Tune-up limit	MPR				
Frequency (MHz)				3710.01	3840	3960.02	(dBm)	(dB)				
20	QPSK	1	1	21.25	21.15	20.93	22.0	0.0				

Ant 12 n77 HPUE MIMO									
BW [MHz]	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)				3170	3240	3300			
100	Pi2 BPSK	1	1	19.29	19.57	19.37	20.0	0.0	
100	Pi2 BPSK	1	137	19.41	19.70	19.71			
100	Pi2 BPSK	1	271	19.52	19.87	19.69			
100	Pi2 BPSK	136	0	19.36	19.56	19.55	20.0	0.0	
100	Pi2 BPSK	136	69	19.24	19.63	19.46			
100	Pi2 BPSK	136	136	19.42	19.78	19.61			
100	Pi2 BPSK	270	0	19.07	19.06	19.01	19.5	0.5	
100	QPSK	1	1	19.59	19.66	19.67	20.0	0.0	
100	QPSK	1	137	19.32	19.67	19.60			
100	QPSK	1	271	19.61	19.87	19.73			
100	QPSK	136	0	19.37	19.62	19.45	20.0	0.0	
100	QPSK	136	69	19.35	19.73	19.56			
100	QPSK	136	136	19.54	19.72	19.67			
100	QPSK	270	0	18.43	18.64	18.45	19.0	1.0	
100	16QAM	1	1	18.19	18.44	18.32	19.0	1.0	
100	64QAM	1	1	17.22	17.07	17.06	17.5	2.5	
100	256QAM	1	1	15.14	15.02	15.04	15.5	4.5	
Channel				649668	656000	662334	Tune-up limit	MPR	
Frequency (MHz)				3123.02	3160	3203.01	(dBm)	(dB)	
90	QPSK	1	1	19.72	19.73	19.74	20.0	0.0	
Channel				648334	656000	662668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	19.81	19.77	19.82	20.0	0.0	
Channel				648668	656000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	19.87	19.84	19.74	20.0	0.0	
Channel				648334	656000	663668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	19.78	19.80	19.74	20.0	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3120	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	19.79	19.85	19.84	20.0	0.0	
Channel				647668	656000	664334	Tune-up limit	MPR	
Frequency (MHz)				3112.02	3160	3203.01	(dBm)	(dB)	
30	QPSK	1	1	19.78	19.87	19.84	20.0	0.0	
Channel				647334	656000	664668	Tune-up limit	MPR	
Frequency (MHz)				3110.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	19.79	19.73	19.75	20.0	0.0	

Ant 12 n77 PC3 MIMO									
BW [MHz]	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)				3170	3240	3310			
100	Pi2 BPSK	1	1	16.98	17.26	17.06	18.0	0.0	
100	Pi2 BPSK	1	137	17.10	17.39	17.40			
100	Pi2 BPSK	1	271	17.21	17.56	17.38			
100	Pi2 BPSK	136	0	17.05	17.27	17.24	18.0	0.0	
100	Pi2 BPSK	136	69	16.93	17.32	17.15			
100	Pi2 BPSK	136	136	17.11	17.47	17.30			
100	Pi2 BPSK	270	0	17.06	17.35	17.30	17.5	0.5	
100	QPSK	1	1	17.26	17.67	17.36	18.0	0.0	
100	QPSK	1	137	17.01	17.36	17.29			
100	QPSK	1	271	17.30	17.56	17.42			
100	QPSK	136	0	17.06	17.31	17.14	18.0	0.0	
100	QPSK	136	69	17.04	17.42	17.25			
100	QPSK	136	136	17.23	17.41	17.36			
100	QPSK	270	0	16.12	16.33	16.14	17.0	1.0	
100	16QAM	1	1	16.08	16.13	16.01	17.0	1.0	
100	64QAM	1	1	15.01	15.16	15.06	15.5	2.5	
100	256QAM	1	1	13.03	13.21	13.03	13.5	4.5	
Channel				649668	656000	662334	Tune-up limit	MPR	
Frequency (MHz)				3123.02	3160	3203.01	(dBm)	(dB)	
90	QPSK	1	1	17.11	17.42	17.43	18.0	0.0	
Channel				648334	656000	662668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	17.50	17.46	17.51	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	17.56	17.53	17.43	18.0	0.0	
Channel				648334	656000	663998	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	17.47	17.49	17.43	18.0	0.0	
Channel				647668	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3120	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	17.18	17.54	17.53	18.0	0.0	
Channel				647668	656000	664334	Tune-up limit	MPR	
Frequency (MHz)				3112.02	3160	3203.01	(dBm)	(dB)	
30	QPSK	1	1	17.57	17.56	17.53	18.0	0.0	
Channel				647334	656000	664668	Tune-up limit	MPR	
Frequency (MHz)				3110.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	17.48	17.42	17.44	18.0	0.0	

Ant 14 n77 PC3 SA									
BW [MHz]	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)				3720	3840	3920			
100	Pi2 BPSK	1	1	19.52	19.35	19.32	21.5	0.0	
100	Pi2 BPSK	1	137	19.66	19.51	19.41			
100	Pi2 BPSK	1	271	19.53	19.46	19.55			
100	Pi2 BPSK	136	0	19.35	19.37	19.63	21.5	0.0	
100	Pi2 BPSK	136	69	19.31	19.32	19.52			
100	Pi2 BPSK	136	136	19.23	19.32	19.42			
100	Pi2 BPSK	270	0	19.42	19.35	19.32	21.0	0.5	
100	QPSK	1	1	19.59	19.67	19.63	21.5	0.0	
100	QPSK	1	137	19.33	19.38	19.22			
100	QPSK	1	271	19.20	19.19	19.20			
100	QPSK	136	0	19.25	19.25	19.35	21.5	0.0	
100	QPSK	136	69	19.31	19.53	19.52			
100	QPSK	136	136	19.33	19.32	19.52			
100	QPSK	270	0	19.25	19.23	19.20	20.5	1.0	
100	16QAM	1	1	19.66	19.64	19.63	20.5	1.0	
100	64QAM	1	1	18.56	18.58	18.55	19.0	2.5	
100	256QAM	1	1	16.12	16.14	16.32	17.0	4.5	
Channel				649668	656000	662334	Tune-up limit	MPR	
Frequency (MHz)				3123.02	3160	3203.01	(dBm)	(dB)	
90	QPSK	1	1	19.38	19.34	19.39	21.5	0.0	
Channel				648334	656000	662668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	19.29	19.20	19.21	21.5	0.0	
Channel				648668	656000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	19.35	19.37	19.31	21.5	0.0	
Channel				3725.01	3840	3955.02	Tune-up limit	MPR	
Frequency (MHz)				19.44	19.41	19.31	21.5	0.0	
50	QPSK	1	1	19.44	19.41	19.31	21.5	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3120	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	19.45	19.44	19.41	21.5	0.0	
Channel				947608	956000	963334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	19.46	19.42	19.41	21.5	0.0	
Channel				3710.01	3840	3970.02	Tune-up limit	MPR	
Frequency (MHz)				19.44	19.40	19.32	21.5	0.0	
20	QPSK	1	1	19.36	19.30	19.32	21.5	0.0	

Ant 14 n77 HPUE SA									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				65000	65000	66200			
Frequency (MHz)				3760	3840	3920			
100	PI2 BPSK	1	1	20.92	21.07	20.99			
100	PI2 BPSK	1	137	20.93	21.05	21.05	22.0	0.0	
100	PI2 BPSK	1	271	20.82	20.95	20.91			
100	PI2 BPSK	135	0	20.33	20.47	20.41			
100	PI2 BPSK	135	69	20.84	20.85	20.83	22.0	0.0	
100	PI2 BPSK	135	138	20.11	20.29	20.30			
100	PI2 BPSK	270	0	20.26	20.37	20.21	21.5	0.5	
100	QPSK	1	1	21.08	21.22	21.05			
100	QPSK	1	137	20.88	21.05	20.98	22.0	0.0	
100	QPSK	1	271	20.83	20.96	20.86			
100	QPSK	135	0	19.88	19.95	19.81			
100	QPSK	135	69	20.76	20.85	20.77	22.0	0.0	
100	QPSK	135	138	19.87	19.87	19.77			
100	QPSK	270	0	19.84	19.83	19.80	21.0	1.0	
100	16QAM	1	1	19.91	19.96	19.77	21.0	1.0	
100	64QAM	1	1	19.86	19.85	19.84	19.5	2.5	
100	256QAM	1	1	16.31	16.54	16.45	17.5	4.5	
Channel				649968	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3742.02	3840	3923.01			
90	QPSK	1	1	20.99	21.05	20.95	22.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	21.43	21.02	20.97	22.0	0.0	
Channel				649068	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	20.97	21.09	20.98	22.0	0.0	
Channel				649234	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	21.12	21.18	21.14	22.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725	3840	3960			
40	QPSK	1	1	20.95	21.17	20.99	22.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3713.02	3840	3953.01			
30	QPSK	1	1	21.11	21.05	20.90	22.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	21.05	21.15	20.93	22.0	0.0	

Ant 14 n77 HPUE MIMO									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				65000	656000	662000			
Frequency (MHz)				3760	3840	3920			
100	PI2 BPSK	1	1	21.28	21.27	21.09			
100	PI2 BPSK	1	137	21.38	21.47	21.27	23.0	0.0	
100	PI2 BPSK	1	271	21.68	21.71	21.67			
100	PI2 BPSK	135	0	21.42	21.41	21.34			
100	PI2 BPSK	135	69	21.20	21.35	21.18	23.0	0.0	
100	PI2 BPSK	135	138	21.01	21.02	20.93			
100	PI2 BPSK	270	0	20.83	20.85	20.74	22.5	0.5	
100	QPSK	1	1	20.49	20.76	20.36			
100	QPSK	1	137	21.69	21.72	21.54	23.0	0.0	
100	QPSK	1	271	21.32	21.42	21.27			
100	QPSK	135	0	19.97	20.09	19.98			
100	QPSK	135	69	21.17	21.18	21.06	23.0	0.0	
100	QPSK	135	138	20.47	20.47	20.20			
100	QPSK	270	0	20.35	20.38	20.33	22.0	1.0	
100	16QAM	1	1	19.50	19.66	19.62	22.0	1.0	
100	64QAM	1	1	18.29	18.29	18.14	20.5	2.5	
100	256QAM	1	1	15.92	15.91	15.85	18.5	4.5	
Channel				649968	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3742.02	3840	3923.01			
90	QPSK	1	1	21.33	21.34	21.39	23.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	21.39	21.20	21.21	23.0	0.0	
Channel				649068	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	21.35	21.37	21.31	23.0	0.0	
Channel				649234	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	21.44	21.41	21.31	23.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725	3840	3960			
40	QPSK	1	1	21.45	21.44	21.41	23.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3713.02	3840	3953.01			
30	QPSK	1	1	21.43	21.42	21.41	23.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	21.38	21.30	21.32	23.0	0.0	

Ant 14 n77 PC3 MIMO									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3760	3840	3920			
100	PI2 BPSK	1	1	19.12	19.11	18.93			
100	PI2 BPSK	1	137	19.20	19.31	19.11	21.0	0.0	
100	PI2 BPSK	1	271	19.50	19.55	19.51			
100	PI2 BPSK	135	0	19.26	19.25	19.18			
100	PI2 BPSK	135	69	19.04	19.19	19.02	21.0	0.0	
100	PI2 BPSK	135	138	18.85	18.86	18.77			
100	PI2 BPSK	270	0	18.67	18.69	18.58	20.5	0.5	
100	QPSK	1	1	18.23	19.44	18.20			
100	QPSK	1	137	19.53	19.56	19.38	21.0	0.0	
100	QPSK	1	271	18.16	18.28	19.11			
100	QPSK	135	0	19.97	20.09	19.98			
100	QPSK	135	69	19.01	19.02	18.90	21.0	0.0	
100	QPSK	135	138	18.31	18.31	18.04			
100	QPSK	270	0	18.19	18.22	18.17	20.0	1.0	
100	16QAM	1	1	19.50	19.66	19.62	20.0	1.0	
100	64QAM	1	1	18.28	18.29	18.14	18.5	2.5	
100	256QAM	1	1	15.92	15.91	15.85	16.5	4.5	
Channel				649968	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3742.02	3840	3935.01			
90	QPSK	1	1	19.38	19.34	19.39	21.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	19.39	19.20	19.21	21.0	0.0	
Channel				649068	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	19.35	19.37	19.31	21.0	0.0	
Channel				649234	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	19.44	19.41	19.31	21.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	19.45	19.44	19.41	21.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	19.46	19.42	19.41	21.0	0.0	
Channel				647234	656000	664968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	19.36	19.30	19.32	21.0	0.0	



Reduced Power DSI 1 for Head/DSI 5 for Hotspot

Ant 3 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									
Frequency (MHz)									
20	PI2 BPSK	1	1	19.77	19.78	19.63	20.4	0.0	
20	PI2 BPSK	1	53	19.63	19.69	19.62			
20	PI2 BPSK	1	104	19.60	19.63	19.63			
20	PI2 BPSK	50	0	19.56	19.66	19.52	20.4	0.0	
20	PI2 BPSK	50	28	19.60	19.63	19.55	20.4	0.0	
20	PI2 BPSK	50	56	19.52	19.54	19.63	20.4	0.0	
20	PI2 BPSK	100	0	19.44	19.60	19.52			
20	QPSK	1	1	19.61	19.66	19.57			
20	QPSK	1	53	19.42	19.62	19.42	20.4	0.0	
20	QPSK	1	104	19.43	19.47	19.45			
20	QPSK	50	0	19.44	19.63	19.44			
20	QPSK	50	28	19.42	19.64	19.52	20.4	0.0	
20	QPSK	50	56	19.45	19.60	19.48	20.4	0.0	
20	QPSK	100	0	19.44	19.59	19.52	20.4	0.0	
20	16QAM	1	1	19.45	19.65	19.46			
20	64QAM	1	1	19.55	19.44	19.55			
20	256QAM	1	1	19.42	19.42	19.42	19.9	0.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.75	19.63	19.55	20.4	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.56	19.46	19.74	20.4	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	19.71	19.62	19.66	20.4	0.0	

Ant 2 n7 SA DSI 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)				2525	2535	2545			
50	PI2 BPSK	1	1	17.82	17.86	17.88	19.5	0.0	
50	PI2 BPSK	1	137	17.88	17.88	17.82			
50	PI2 BPSK	1	271	17.85	17.85	17.88			
50	PI2 BPSK	135	0	17.77	17.91	17.63	19.5	0.0	
50	PI2 BPSK	135	69	17.77	17.84	17.52			
50	PI2 BPSK	135	138	17.80	17.81	17.88			
50	PI2 BPSK	270	0	17.63	17.67	17.62	19.5	0.0	
50	QPSK	1	1	17.95	18.05	17.88			
50	QPSK	1	137	17.75	17.85	17.66			
50	QPSK	1	271	17.63	17.83	17.45	19.5	0.0	
50	QPSK	135	0	17.75	17.86	17.63			
50	QPSK	135	69	17.77	17.95	17.82			
50	QPSK	135	138	17.82	17.93	17.75	19.5	0.0	
50	QPSK	270	0	17.73	17.89	17.73			
50	16QAM	1	1	17.88	18.08	17.74			
50	64QAM	1	1	17.93	18.09	17.75	19.5	0.0	
50	256QAM	1	1	17.82	17.88	17.63			
Channel				500000	500000	500000			
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	1	17.52	17.42	17.63	19.5	0.0	
Channel									
Frequency (MHz)				2515	2535	2555	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	17.62	17.66	17.63	19.5	0.0	
Channel									
Frequency (MHz)				2520	2535	2515	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	17.58	17.59	17.66	19.5	0.0	
Channel									
Frequency (MHz)				2518	2535	2540	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	17.62	17.63	17.45	19.5	0.0	
Channel									
Frequency (MHz)				2507.5	2535	2562.5	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	17.63	17.52	17.59	19.5	0.0	
Channel									
Frequency (MHz)				2500	2535	2565	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	17.56	17.63	17.66	19.5	0.0	
Channel									
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	17.75	17.58	17.65	19.5	0.0	

Ant 2 n7 NSA DSI 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									
				500000	25000	500000			
Frequency (MHz)				2025	25355	2545			
50	PI2 BPSK	1	1	14.12	14.14	14.12	15.5	0.0	
50	PI2 BPSK	1	137	14.11	14.13	14.13			
50	PI2 BPSK	1	271	14.11	14.06	14.21			
50	PI2 BPSK	135	0	14.21	13.99	14.22	15.5	0.0	
50	PI2 BPSK	135	69	14.15	13.97	14.15	15.5	0.0	
50	PI2 BPSK	135	138	14.02	13.91	14.13	15.5	0.0	
50	PI2 BPSK	270	0	14.04	13.92	14.14			
50	QPSK	1	1	14.16	14.25	14.07			
50	QPSK	1	137	14.21	13.95	14.02	15.5	0.0	
50	QPSK	1	271	14.22	13.87	14.21			
50	QPSK	135	0	14.04	14.23	14.22			
50	QPSK	135	69	14.03	13.96	14.12	15.5	0.0	
50	QPSK	135	138	14.11	13.96	14.13	15.5	0.0	
50	QPSK	270	0	14.12	13.71	14.14	15.5	0.0	
50	16QAM	1	1	14.13	14.24	14.02			
50	8QAM	1	1	14.12	13.20	14.01			
50	256QAM	1	1	14.11	14.12	14.15	15.5	0.0	
Channel									
				500000	500000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2500	2535	2550			
40	QPSK	1	1	14.11	14.01	14.22	15.5	0.0	
Channel									
				500000	25000	500000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	14.21	14.05	14.21	15.5	0.0	
Channel									
				925000	50000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5 <th>2535<th>2567.5<th colspan="3"></th></th></th>	2535 <th>2567.5<th colspan="3"></th></th>	2567.5 <th colspan="3"></th>			
25	QPSK	1	1	14.17	14.18	14.05	15.5	0.0	
Channel									
				500000	500000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2500 <th>2535</th> <th>2550<th colspan="3"></th></th>	2535	2550 <th colspan="3"></th>			
20	QPSK	1	1	14.21	14.22	14.04	15.5	0.0	
Channel									
				501500	500000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5 <th>2535<th>2562.5<th colspan="3"></th></th></th>	2535 <th>2562.5<th colspan="3"></th></th>	2562.5 <th colspan="3"></th>			
15	QPSK	1	1	14.22	14.11	14.18	15.5	0.0	
Channel									
				500000	500000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2500	2535	2565 <th colspan="3"></th>			
10	QPSK	1	1	14.15	14.22	14.05	15.5	0.0	
Channel									
				500000	500000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5 <th>2535<th>2567.5<th colspan="3"></th></th></th>	2535 <th>2567.5<th colspan="3"></th></th>	2567.5 <th colspan="3"></th>			
5	QPSK	1	1	14.14	14.17	14.24	15.5	0.0	

Ant 3 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									
Frequency (MHz)				505000	507000	509000			
				2525	2535	2545			
50	PI2 BPSK	1	1	13.52	13.60	13.55			
50	PI2 BPSK	1	137	13.42	13.55	13.52	15.0	0.0	
50	PI2 BPSK	1	271	13.56	13.59	13.56			
50	PI2 BPSK	135	0	13.59	13.58	13.63	15.0	0.0	
50	PI2 BPSK	135	69	13.55	13.57	13.42	15.0	0.0	
50	PI2 BPSK	135	138	13.63	13.55	13.52	15.0	0.0	
50	PI2 BPSK	270	0	13.66	13.52	13.55			
50	QPSK	1	1	13.69	13.72	13.63			
50	QPSK	1	137	13.66	13.53	13.63	15.0	0.0	
50	QPSK	1	271	13.48	13.50	13.34			
50	QPSK	135	0	13.55	13.63	13.28	15.0	0.0	
50	QPSK	135	69	13.42	13.57	13.55	15.0	0.0	
50	QPSK	135	138	13.52	13.55	13.59	15.0	0.0	
50	QPSK	270	0	13.53	13.60	13.51			
50	16QAM	1	1	13.55	13.56	13.65	15.0	0.0	
50	64QAM	1	1	13.63	13.71	13.66	15.0	0.0	
50	256QAM	1	1	13.52	13.52	13.52	15.0	0.0	
Channel									
				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	1	13.44	13.45	13.27	15.0	0.0	
Channel									
				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	13.34	13.24	13.45	15.0	0.0	
Channel									
				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2550			
25	QPSK	1	1	13.34	13.41	13.48	15.0	0.0	
Channel									
				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2550			
20	QPSK	1	1	13.44	13.48	13.50	15.0	0.0	
Channel									
				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507	2535	2562.5			
15	QPSK	1	1	13.45	13.34	13.41	15.0	0.0	
Channel									
				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	13.57	13.40	13.47	15.0	0.0	
Channel									
				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	13.38	13.45	13.48	15.0	0.0	

Ant 3 n7 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									
Frequency (MHz)				505000	507000	509000			
				2325	2335	2345			
50	PI2 BPSK	1	1	15.50	15.49	15.35			
50	PI2 BPSK	1	137	15.38	15.69	15.42	16.5	0.0	
50	PI2 BPSK	1	271	15.49	15.65	15.55			
50	PI2 BPSK	135	0	14.94	14.93	15.68	16.5	0.0	
50	PI2 BPSK	135	69	15.32	15.73	15.59	16.5	0.0	
50	PI2 BPSK	135	138	15.34	15.78	15.40	16.5	0.0	
50	PI2 BPSK	270	0	14.84	15.10	15.24	16.5	0.0	
50	QPSK	1	1	15.66	15.65	15.78			
50	QPSK	1	137	15.63	15.50	15.33	16.5	0.0	
50	QPSK	1	271	15.30	15.69	15.71			
50	QPSK	135	0	14.54	14.57	14.49	16.5	0.0	
50	QPSK	135	69	15.45	15.79	15.60	16.5	0.0	
50	QPSK	135	138	15.48	15.78	15.43	16.5	0.0	
50	QPSK	270	0	14.56	14.77	14.53			
50	16QAM	1	1	14.59	14.81	14.79	16.5	0.0	
50	64QAM	1	1	13.12	12.88	12.63	16.5	0.0	
50	256QAM	1	1	10.99	11.26	10.86	16.5	0.0	
Channel									
				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	1	15.45	15.63	15.71	16.5	0.0	
Channel									
				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	15.29	15.79	15.20	16.5	0.0	
Channel									
				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	15.39	15.78	15.70	16.5	0.0	
Channel									
				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	15.16	15.11	14.88	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	15.73	15.50	15.45	16.5	0.0	
Channel									
				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	15.37	15.74	15.50	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	15.48	15.77	15.30	16.5	0.0	

Ant 4 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				500000	507000	506000			
Frequency (MHz)				25.05	25.35	25.45			
50	PI2 BPSK	1	1	16.52	16.60	16.55			
50	PI2 BPSK	1	137	16.42	16.55	16.52	17.5	0.0	
50	PI2 BPSK	1	271	16.56	16.59	16.56			
50	PI2 BPSK	135	0	16.59	16.62	16.64	17.5	0.0	
50	PI2 BPSK	135	69	16.57	16.62	16.44	17.5	0.0	
50	PI2 BPSK	135	138	16.67	16.56	16.54	17.5	0.0	
50	PI2 BPSK	270	0	16.70	16.52	16.56			
50	QPSK	1	1	16.53	16.72	16.64			
50	QPSK	1	137	16.70	16.54	16.64	17.5	0.0	
50	QPSK	1	271	16.50	16.49	16.35			
50	QPSK	135	0	16.57	16.64	16.28	17.5	0.0	
50	QPSK	135	69	16.42	16.58	16.51	17.5	0.0	
50	QPSK	135	138	16.53	16.60	16.60	17.5	0.0	
50	QPSK	270	0	16.54	16.61	16.56			
50	16QAM	1	1	16.59	16.57	16.55	17.5	0.0	
50	64QAM	1	1	16.68	16.56	16.63	17.5	0.0	
50	256QAM	1	1	16.50	16.57	16.52	17.5	0.0	
Channel				504000	507000	510000			
Frequency (MHz)				25.20	25.35	25.60	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	16.44	16.63	16.50	17.5	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				25.15	25.35	25.65	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	16.06	16.48	16.42	17.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				25.10	25.35	25.67	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	16.34	16.55	16.46	17.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				25.05	25.35	25.67	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	16.41	16.53	16.42	17.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				25.07	25.35	25.62	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	16.41	16.41	16.48	17.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				25.06	25.35	25.66	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	16.55	16.44	16.48	17.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				25.02	25.35	25.67	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	16.44	16.45	16.27	17.5	0.0	

Ant 4 n7 NSA 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				505000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	Pl2 BPSK	1	1	13.94	13.96	14.02	14.5	0.0	
50	Pl2 BPSK	1	137	13.92	13.93	14.01			
50	Pl2 BPSK	1	271	13.92	13.74	13.92			
50	Pl2 BPSK	135	0	13.85	14.00	13.96	14.5	0.0	
50	Pl2 BPSK	135	69	13.83	13.81	13.94	14.5	0.0	
50	Pl2 BPSK	135	138	13.97	13.77	13.93	14.5	0.0	
50	Pl2 BPSK	270	0	13.91	13.84	13.71			
50	QPSK	1	1	13.92	14.06	14.03			
50	QPSK	1	137	13.89	13.83	13.72	14.5	0.0	
50	QPSK	1	271	13.82	13.72	13.73	14.5	0.0	
50	QPSK	135	0	13.84	13.97	13.92			
50	QPSK	135	69	13.92	13.80	13.82			
50	QPSK	135	138	13.89	13.72	13.83	14.5	0.0	
50	QPSK	270	0	13.83	13.89	13.82	14.5	0.0	
50	16QAM	1	1	13.84	13.99	13.84			
50	64QAM	1	1	14.02	14.03	13.82			
50	256QAM	1	1	13.75	13.58	13.81	14.5	0.0	
Channel				504000	507000	510000	Tune-up limit	MPR	
Frequency (MHz)				2520	2535	2550	(dBm)		
40	QPSK	1	1	13.73	13.72	13.82	14.5	0.0	
Channel				503000	507000	511000	Tune-up limit	MPR	
Frequency (MHz)				2515	2535	2555	(dBm)		
30	QPSK	1	1	13.84	13.82	13.83	14.5	0.0	
Channel				502500	507000	511500	Tune-up limit	MPR	
Frequency (MHz)				2512.5	2535	2557.5	(dBm)		
25	QPSK	1	1	13.76	13.75	13.70	14.5	0.0	
Channel				502000	507000	512000	Tune-up limit	MPR	
Frequency (MHz)				2510	2535	2560	(dBm)		
20	QPSK	1	1	13.71	13.75	13.73	14.5	0.0	
Channel				501500	507000	513000	Tune-up limit	MPR	
Frequency (MHz)				2507.5	2535	2562.5	(dBm)		
15	QPSK	1	1	13.75	13.92	13.94	14.5	0.0	
Channel				501000	507000	513000	Tune-up limit	MPR	
Frequency (MHz)				2505	2535	2565	(dBm)		
10	QPSK	1	1	13.92	13.91	13.73	14.5	0.0	
Channel				500500	507000	513500	Tune-up limit	MPR	
Frequency (MHz)				2502.5	2535	2567.5	(dBm)		
5	QPSK	1	1	13.72	13.73	13.84	14.5	0.0	

Ant 4 n7 NSA DSI 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				505000	507000	509000			
Frequency (MHz)				2425	2435	2445			
50	Pl2 BPSK	1	1	13.91	13.97	13.73	14.5	0.0	
50	Pl2 BPSK	1	137	13.89	13.94	13.84			
50	Pl2 BPSK	1	271	13.89	13.75	13.94			
50	Pl2 BPSK	135	0	13.92	14.01	13.98	14.5	0.0	
50	Pl2 BPSK	135	69	13.84	13.83	13.97	14.5	0.0	
50	Pl2 BPSK	135	138	13.98	13.79	13.96	14.5	0.0	
50	Pl2 BPSK	270	0	13.92	13.85	13.72			
50	QPSK	1	1	13.93	14.07	14.05			
50	QPSK	1	137	13.90	13.85	13.74	14.5	0.0	
50	QPSK	1	271	13.82	13.82	13.75	14.5	0.0	
50	QPSK	135	0	13.83	13.99	13.93			
50	QPSK	135	69	13.84	13.82	13.83			
50	QPSK	135	138	13.91	13.78	13.85	14.5	0.0	
50	QPSK	270	0	13.85	13.95	13.84	14.5	0.0	
50	16QAM	1	1	13.85	14.01	13.90			
50	16QAM	1	1	14.04	14.05	13.88			
50	256QAM	1	1	13.82	13.60	13.82	14.5	0.0	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2420	2435	2450	(dB)		
40	QPSK	1	1	13.70	13.73	13.84	14.5	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2515	2535	2555	(dB)		
30	QPSK	1	1	13.69	13.74	13.86	14.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2512.5	2535	2557.5	(dB)		
25	QPSK	1	1	13.89	13.92	13.75	14.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2510	2535	2560	(dB)		
20	QPSK	1	1	13.72	13.93	13.96	14.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2507.5	2535	2562.5	(dB)		
15	QPSK	1	1	13.88	13.76	13.75	14.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2465	2435	2465	(dB)		
10	QPSK	1	1	13.73	13.76	13.72	14.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2502.5	2535	2567.5	(dB)		
5	QPSK	1	1	13.81	13.83	13.85	14.5	0.0	

Ant 7 n7 SA DSI 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				505000	507000	509000			
Frequency (MHz)				2425	2435	2445			
50	Pl2 BPSK	1	1	17.60	17.84	17.66	18.5	0.0	
50	Pl2 BPSK	1	137	17.55	17.84	17.70			
50	Pl2 BPSK	1	271	17.62	18.06	17.64			
50	Pl2 BPSK	135	0	17.34	17.42	17.47	18.5	0.0	
50	Pl2 BPSK	135	69	17.60	17.88	17.86	18.5	0.0	
50	Pl2 BPSK	135	138	17.56	17.80	17.60	18.5	0.0	
50	Pl2 BPSK	270	0	17.28	17.34	16.98			
50	QPSK	1	1	18.09	18.23	18.02			
50	QPSK	1	137	17.60	17.92	16.86	18.5	0.0	
50	QPSK	1	271	17.55	17.93	17.59	18.5	0.0	
50	QPSK	135	0	16.73	16.48	16.54			
50	QPSK	135	69	17.66	17.86	17.80			
50	QPSK	135	138	17.70	17.88	17.77	18.5	0.0	
50	QPSK	270	0	16.87	16.91	16.81	18.5	0.0	
50	16QAM	1	1	16.17	16.33	16.08			
50	16QAM	1	1	16.25	16.32	16.12			
50	256QAM	1	1	14.70	14.82	14.80	18.0	2.5	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2420	2435	2450	(dB)		
40	QPSK	1	1	18.17	18.12	18.06	18.5	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2515	2535	2555	(dB)		
30	QPSK	1	1	18.03	18.06	18.10	18.5	0.0	
Channel				502000	507000	511500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2512.5	2535	2557.5	(dB)		
25	QPSK	1	1	18.11	18.21	18.11	18.5	0.0	
Channel				501000	507000	512000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2450	2435	2460	(dB)		
20	QPSK	1	1	18.19	18.20	17.86	18.5	0.0	
Channel				500000	507000	512500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2450.5	2435	2462.5	(dB)		
15	QPSK	1	1	18.03	18.05	17.99	18.5	0.0	
Channel				500000	507000	513000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2405	2435	2465	(dB)		
10	QPSK	1	1	17.91	17.94	17.82	18.5	0.0	
Channel				500000	507000	513500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2402.5	2435	2467.5	(dB)		
5	QPSK	1	1	17.83	17.91	18.00	18.5	0.0	

Ant 7 n7 NSA DSI 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				505000	507000	509000		
Frequency (MHz)				2445	2435	2445		
50	Pl2 BPSK	1	1	19.49	19.73	19.55		
50	Pl2 BPSK	1	137	19.44	19.73	19.59	21.5	0.0
50	Pl2 BPSK	1	271	19.71	19.95	19.53		
50	Pl2 BPSK	135	0	19.23	19.31	19.36	21.5	0.0
50	Pl2 BPSK	135	69	19.49	19.77	19.75	21.5	0.0
50	Pl2 BPSK	135	138	19.45	19.69	19.49		
50	Pl2 BPSK	270	0	19.17	19.23	19.87	21.5	0.0
50	QPSK	1	1	19.98	20.12	19.91		
50	QPSK	1	137	19.49	19.81	19.75	21.5	0.0
50	QPSK	1	271	19.44	19.82	19.48		
50	QPSK	135	0	19.82	19.37	19.43	21.5	0.0
50	QPSK	135	69	19.55	19.78	19.69	21.5	0.0
50	QPSK	135	138	19.59	19.77	19.66		
50	QPSK	270	0	19.76	19.80	19.70	21.5	0.0
50	16QAM	1	1	19.06	19.22	17.97	21.5	0.0
50	64QAM	1	1	18.14	18.21	18.01	20.0	1.5
50	256QAM	1	1	16.59	16.71	16.69	18.0	3.5
Channel				504000	507000	510000		
Frequency (MHz)				2430	2439	2469		
40	QPSK	1	1	20.06	20.01	19.95	21.5	0.0
Channel				509000	507000	511000		
Frequency (MHz)				2215	2230	2255		
30	QPSK	1	1	19.89	19.95	19.99	21.5	0.0
Channel				502500	507000	511500		
Frequency (MHz)				2512.5	2535	2567.5		
25	QPSK	1	1	20.00	20.10	20.09	21.5	0.0
Channel				510000	507000	512000		
Frequency (MHz)				2610	2635	2660		
20	QPSK	1	1	20.08	20.09	19.75	21.5	0.0
Channel				511500	507000	512500		
Frequency (MHz)				2597.5	2635	2662.5		
15	QPSK	1	1	19.92	19.94	19.88	21.5	0.0
Channel				510000	507000	513000		
Frequency (MHz)				2605	2635	2665		
10	QPSK	1	1	19.80	19.83	19.71	21.5	0.0
Channel				509500	507000	513500		
Frequency (MHz)				2592.5	2630	2667.5		
5	QPSK	1	1	19.72	19.80	19.89	21.5	0.0

Ant 2 n41 SA_PA 1 DSI 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				506202	518598	528000			
Frequency (MHz)				2541.01	2552.475	2563			
100	Pi2 BPSK	1	1	20.33	20.46	20.11			
100	Pi2 BPSK	1	137	20.49	20.42	20.24			
100	Pi2 BPSK	1	271	20.10	19.99	20.15	21.5		
100	Pi2 BPSK	136	0	20.36	20.17	20.10			
100	Pi2 BPSK	136	69	20.11	20.38	20.27	21.5		
100	Pi2 BPSK	136	136	20.14	20.42	20.21			
100	Pi2 BPSK	270	0	20.38	20.13	20.13	21.5		
100	QPSK	1	1	20.41	20.67	20.36			
100	QPSK	1	137	20.41	20.06	20.12	21.5		
100	QPSK	1	271	20.30	19.89	20.15			
100	QPSK	136	0	20.18	20.38	20.19			
100	QPSK	136	69	20.12	20.36	20.37	21.5		
100	QPSK	136	136	20.01	20.29	20.21			
100	QPSK	270	0	20.09	20.41	20.38	21.5		
100	16QAM	1	1	19.99	20.18	20.08	21.5		
100	16QAM	1	1	20.17	20.02	20.00	21.5		
100	256QAM	1	1	19.88	20.08	20.18	21.5		
Channel				506200	518598	528999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2552.475	2563.475			
90	QPSK	1	1	20.11	20.08	20.21	21.5		
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2552.99	2569.99			
80	QPSK	1	1	20.10	20.08	20.02	21.5		
Channel				508200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2566	2562.99	2669.98			
60	QPSK	1	1	20.19	20.13	20.13	21.5		
Channel				509204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2684.99			
50	QPSK	1	1	20.13	20.19	20.27	21.5		
Channel				509202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2566.01	2569.99	2670			
40	QPSK	1	1	20.10	20.10	20.12	21.5		
Channel				509200	518598	534999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2552.475	2574.475			
30	QPSK	1	1	20.29	20.20	20.24	21.5		
Channel				501204	518598	530998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	19.99	20.09	20.38	21.5		

Ant 2 n41 SA_MIMO_PA 1 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				506202	518598	528000			
Frequency (MHz)				2541.01	2552.475	2563			
100	Pi2 BPSK	1	1	16.55	16.69	16.32			
100	Pi2 BPSK	1	137	16.83	16.57	16.42	17.5		
100	Pi2 BPSK	1	271	16.32	16.22	16.36			
100	Pi2 BPSK	136	0	16.52	16.39	16.33			
100	Pi2 BPSK	136	69	16.33	16.52	16.42	17.5		
100	Pi2 BPSK	136	136	16.36	16.65	16.44			
100	Pi2 BPSK	270	0	16.52	16.35	16.36	17.5		
100	QPSK	1	1	16.63	16.71	16.53			
100	QPSK	1	137	16.55	16.28	16.35	17.5		
100	QPSK	1	271	16.52	16.12	16.30			
100	QPSK	136	0	16.32	16.53	16.42			
100	QPSK	136	69	16.21	16.57	16.55	17.5		
100	QPSK	136	136	16.23	16.52	16.42			
100	QPSK	270	0	16.32	16.59	16.52	17.5		
100	16QAM	1	1	16.22	16.39	16.31	17.5		
100	16QAM	1	1	16.32	16.16	16.22	17.5		
100	256QAM	1	1	16.11	16.31	16.32	17.5		
Channel				506200	518598	528999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2552.475	2563.475			
90	QPSK	1	1	16.22	16.32	16.52	17.5		
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2552.99	2569.99			
80	QPSK	1	1	16.42	16.35	16.42	17.5		
Channel				508200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2566	2562.99	2669.98			
60	QPSK	1	1	16.33	16.35	16.36	17.5		
Channel				509204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2684.99			
50	QPSK	1	1	16.32	16.33	16.35	17.5		
Channel				509202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2566.01	2569.99	2670			
40	QPSK	1	1	16.35	16.33	16.42	17.5		
Channel				509200	518598	534999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2552.475	2574.475			
30	QPSK	1	1	16.32	16.31	16.23	17.5		
Channel				501204	518598	530998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	16.33	16.31	16.42	17.5		

Ant 2 n41 SA_PA 2 DSI 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				506202	518598	528000			
Frequency (MHz)				2546.01	2552.48	2560			
100	Pi2 BPSK	1	1	18.05	18.08	18.07			
100	Pi2 BPSK	1	137	18.12	18.05	17.85	19.0		
100	Pi2 BPSK	1	271	17.71	17.86	17.87			
100	Pi2 BPSK	136	0	18.15	18.12	18.02			
100	Pi2 BPSK	136	69	17.98	17.93	17.87	19.0		
100	Pi2 BPSK	136	136	18.06	17.89	17.76			
100	Pi2 BPSK	270	0	17.81	17.96	18.13	19.0		
100	QPSK	1	1	18.06	18.16	18.13			
100	QPSK	1	137	18.02	17.95	18.00	19.0		
100	QPSK	1	271	17.80	17.84	17.74			
100	QPSK	136	0	18.07	18.09	17.97			
100	QPSK	136	69	17.89	18.12	17.74	19.0		
100	QPSK	136	136	17.83	17.84	17.97			
100	QPSK	270	0	17.94	18.01	17.82	19.0		
100	16QAM	1	1	17.94	18.11	18.09	19.0		
100	16QAM	1	1	18.08	18.15	18.05	19.0		
100	256QAM	1	1	17.70	17.70	17.79	18.5		
Channel				506200	518598	528998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2552.475	2563.475			
90	QPSK	1	1	18.08	18.05	18.05	19.0		
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2552.99	2569.99			
80	QPSK	1	1	18.11	18.15	18.05	19.0		
Channel				508200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2566	2562.99	2669.98			
60	QPSK	1	1	18.09	18.09	18.05	19.0		
Channel				509204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2684.99			
50	QPSK	1	1	18.09	18.08	18.07	19.0		
Channel				509202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2566.01	2569.99	2670			
40	QPSK	1	1	18.07	18.09	18.17	19.0		
Channel				509200	518598	534999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2552.475	2574.475			
30	QPSK	1	1	17.97	18.08	18.09	19.0		
Channel				507204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2566.02	2569.99	2670.98			
20	QPSK	1	1	17.97	18.07	17.97	19.0		

Ant 2 n41 SA/SA MIMO_PA 2 DSI 1/NSA MIMO DSI 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				505202	518998	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	Pi2 BPSK	1	1	13.94	13.72	13.93			
100	Pi2 BPSK	1	137	13.75	13.73	13.58	15.0	0.0	
100	Pi2 BPSK	1	271	13.36	13.48	13.64			
100	Pi2 BPSK	135	0	13.94	13.76	13.68			
100	Pi2 BPSK	135	69	13.61	13.61	13.48	15.0	0.0	
100	Pi2 BPSK	135	138	13.71	13.51	13.43			
100	Pi2 BPSK	270	0	13.50	13.60	13.79	15.0	0.0	
100	QPSK	1	1	13.68	13.62	13.74			
100	QPSK	1	137	13.67	13.57	13.67	15.0	0.0	
100	QPSK	1	271	13.48	13.48	13.40			
100	QPSK	135	0	13.70	13.77	13.58			
100	QPSK	135	69	13.54	13.87	13.41	15.0	0.0	
100	QPSK	135	138	13.52	13.48	13.63			
100	QPSK	270	0	13.57	13.69	13.43	15.0	0.0	
100	16QAM	1	1	13.85	13.73	13.76	15.0	0.0	
100	64QAM	1	1	13.77	13.75	13.91	15.0	0.0	
100	256QAM	1	1	13.33	13.38	13.40	15.0	0.0	
Channel				508200	518998	528996	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2643.98	(dBm)	(dB)	
90	QPSK	1	1	13.71	13.53	13.85	15.0	0.0	
Channel				507204	518998	529996	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)	
80	QPSK	1	1	13.74	13.03	13.07	15.0	0.0	
Channel				505200	518998	531996	Tune-up limit	MPR	
Frequency (MHz)				2526	2592.99	2659.98	(dBm)	(dB)	
60	QPSK	1	1	13.85	13.95	13.92	15.0	0.0	
Channel				502204	518998	532996	Tune-up limit	MPR	
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)	(dB)	
50	QPSK	1	1	13.96	13.76	13.86	15.0	0.0	
Channel				503022	518998	534000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	13.70	13.77	13.78	15.0	0.0	
Channel				502200	518998	534996	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)	
30	QPSK	1	1	13.94	13.95	13.70	15.0	0.0	
Channel				501204	518998	535996	Tune-up limit	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)	
20	QPSK	1	1	13.85	13.94	13.59	15.0	0.0	

Ant 3 n41 SA/SA MIMO_PA 1 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				505202	518998	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	Pi2 BPSK	1	1	14.63	14.69	14.55			
100	Pi2 BPSK	1	137	14.67	14.62	14.52	16.0	0.0	
100	Pi2 BPSK	1	271	14.55	14.65	14.42			
100	Pi2 BPSK	135	0	14.63	14.62	14.56			
100	Pi2 BPSK	135	69	14.52	14.64	14.52	16.0	0.0	
100	Pi2 BPSK	135	138	14.42	14.54	14.42			
100	Pi2 BPSK	270	0	14.63	14.63	14.63	16.0	0.0	
100	QPSK	1	1	14.63	14.72	14.57			
100	QPSK	1	137	14.52	14.54	14.58	16.0	0.0	
100	QPSK	1	271	14.56	14.66	14.56			
100	QPSK	135	0	14.52	14.59	14.52			
100	QPSK	135	69	14.56	14.61	14.45	16.0	0.0	
100	QPSK	135	138	14.42	14.59	14.55			
100	QPSK	270	0	14.55	14.60	14.42	16.0	0.0	
100	16QAM	1	1	14.52	14.65	14.63	16.0	0.0	
100	64QAM	1	1	14.52	14.62	14.52	16.0	0.0	
100	256QAM	1	1	14.55	14.71	14.53	16.0	0.0	
Channel				508200	518998	528996	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2643.98	(dBm)	(dB)	
90	QPSK	1	1	14.42	14.44	14.35	16.0	0.0	
Channel				507204	518998	529996	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)	
80	QPSK	1	1	14.32	14.33	14.42	16.0	0.0	
Channel				505200	518998	531996	Tune-up limit	MPR	
Frequency (MHz)				2526	2592.99	2659.98	(dBm)	(dB)	
60	QPSK	1	1	14.44	14.42	14.36	16.0	0.0	
Channel				502204	518998	532996	Tune-up limit	MPR	
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)	(dB)	
50	QPSK	1	1	14.33	14.25	14.42	16.0	0.0	
Channel				503022	518998	534000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	14.44	14.45	14.52	16.0	0.0	
Channel				502200	518998	534996	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)	
30	QPSK	1	1	14.55	14.55	14.55	16.0	0.0	
Channel				501204	518998	535996	Tune-up limit	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)	
20	QPSK	1	1	14.62	14.52	14.66	16.0	0.0	

Ant 3 n41 SA_PA 2 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				505202	518998	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	Pi2 BPSK	1	1	17.60	17.72	17.70			
100	Pi2 BPSK	1	137	17.45	17.67	17.64	18.5	0.0	
100	Pi2 BPSK	1	271	17.68	17.52	17.67			
100	Pi2 BPSK	135	0	17.15	17.30	17.42			
100	Pi2 BPSK	135	69	17.47	17.69	17.36	18.5	0.0	
100	Pi2 BPSK	135	138	17.35	17.21	17.28			
100	Pi2 BPSK	270	0	17.91	17.37	17.93	18.5	0.0	
100	QPSK	1	1	18.06	18.08	18.04			
100	QPSK	1	137	17.87	17.94	17.52	18.5	0.0	
100	QPSK	1	271	17.96	17.72	17.69			
100	QPSK	135	0	18.62	18.71	18.71			
100	QPSK	135	69	17.35	17.80	17.48	18.5	0.0	
100	QPSK	135	138	17.76	17.64	17.52			
100	QPSK	270	0	17.52	17.67	17.68	18.5	0.0	
100	16QAM	1	1	17.20	17.42	17.15	18.5	0.0	
100	64QAM	1	1	17.69	17.36	17.47	18.5	0.0	
100	256QAM	1	1	17.21	17.28	17.35	18.5	0.0	
Channel				509200	518998	529000	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)	
90	QPSK	1	1	18.02	17.99	18.03	18.5	0.0	
Channel				507204	518998	529996	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)	
80	QPSK	1	1	18.01	17.52	17.67	18.5	0.0	
Channel				505200	518998	531996	Tune-up limit	MPR	
Frequency (MHz)				2526	2592.99	2659.98	(dBm)	(dB)	
60	QPSK	1	1	17.81	18.05	17.85	18.5	0.0	
Channel				502204	518998	532996	Tune-up limit	MPR	
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)	(dB)	
50	QPSK	1	1	17.96	17.90	17.93	18.5	0.0	
Channel				503022	518998	534000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	17.91	17.98	18.07	18.5	0.0	
Channel				501022	518998	535000	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)	
30	QPSK	1	1	18.00	18.02	18.09	18.5	0.0	
Channel				500026	518998	536000	Tune-up limit	MPR	
Frequency (MHz)				2634.02	2592.99	2679.98	(dBm)	(dB)	
20	QPSK	1	1	17.92	17.85	18.02	18.5	0.0	

Ant 3 n41 SA MIMO_PA 2 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				506202	518598	528000			
Frequency (MHz)				2541.01	2592.99	2640			
100	Pi/2 BPSK	1	1	16.71	16.83	16.81			
100	Pi/2 BPSK	1	137	16.56	16.78	16.95			
100	Pi/2 BPSK	1	271	16.78	16.63	16.78	17.5		
100	Pi/2 BPSK	136	0	16.26	16.41	16.53			
100	Pi/2 BPSK	136	69	16.58	16.80	16.47	17.5		
100	Pi/2 BPSK	136	136	16.46	16.32	16.39			
100	Pi/2 BPSK	270	0	17.02	16.48	17.04	17.5		
100	QPSK	1	1	17.17	17.16	17.15			
100	QPSK	1	137	16.98	17.05	16.83	17.5		
100	QPSK	1	271	16.67	16.83	16.80			
100	QPSK	136	0	15.93	15.82	15.82	17.5		
100	QPSK	136	69	16.46	16.81	16.59			
100	QPSK	136	136	16.87	16.75	16.63			
100	QPSK	270	0	15.99	15.86	15.98	17.5		
100	16QAM	1	1	16.81	16.76	16.75	17.5		
100	64QAM	1	1	16.22	17.14	17.14	17.5		
100	256QAM	1	1	17.04	17.13	16.63	17.5		
Channel				506200	518598	528999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.03	(dBm)		
90	QPSK	1	1	17.13	17.10	17.14	17.5		
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)		
80	QPSK	1	1	17.03	17.03	16.98	17.5		
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506	2592.99	2659.98	(dBm)		
60	QPSK	1	1	17.02	17.16	17.10	17.5		
Channel				502203	518598	530998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)		
50	QPSK	1	1	17.07	17.01	17.04	17.5		
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2544.01	2592.99	2670	(dBm)		
40	QPSK	1	1	17.02	17.01	17.08	17.5		
Channel				502200	518598	534999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99	(dBm)		
30	QPSK	1	1	17.11	17.13	17.01	17.5		
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)		
20	QPSK	1	1	17.03	16.96	17.01	17.5		

Ant 4 n41 SA/SA MIMO_PA 2 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				506202	518598	528000			
Frequency (MHz)				2541.01	2592.99	2640			
100	Pi/2 BPSK	1	1	15.92	16.26	16.01			
100	Pi/2 BPSK	1	137	15.99	16.19	16.21	17.5		
100	Pi/2 BPSK	1	271	15.89	16.26	16.22			
100	Pi/2 BPSK	136	0	16.05	16.25	16.15			
100	Pi/2 BPSK	136	69	15.93	16.22	16.32	17.5		
100	Pi/2 BPSK	136	136	16.11	16.16	16.28			
100	Pi/2 BPSK	270	0	16.21	16.26	16.42	17.5		
100	QPSK	1	1	16.36	16.44	16.32	17.5		
100	QPSK	1	137	16.21	16.22	16.23	17.5		
100	QPSK	1	271	16.05	16.08	16.24			
100	QPSK	136	0	16.21	16.24	16.22	17.5		
100	QPSK	136	69	16.10	16.35	16.33			
100	QPSK	136	136	16.22	16.20	16.20			
100	QPSK	270	0	16.10	16.16	16.40	17.5		
100	16QAM	1	1	16.26	16.23	16.23	17.5		
100	64QAM	1	1	16.32	16.22	16.32	17.5		
100	256QAM	1	1	16.22	16.26	16.22	17.5		
Channel				506200	518598	528999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.03	(dBm)		
90	QPSK	1	1	16.21	16.22	16.32	17.5		
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)		
80	QPSK	1	1	16.32	16.35	16.25	17.5		
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506	2592.99	2659.98	(dBm)		
60	QPSK	1	1	16.24	16.22	16.25	17.5		
Channel				502203	518598	530998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)		
50	QPSK	1	1	16.32	16.33	16.35	17.5		
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2544.01	2592.99	2670	(dBm)		
40	QPSK	1	1	16.35	16.32	16.33	17.5		
Channel				502200	518598	534999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99	(dBm)		
30	QPSK	1	1	16.21	16.05	16.32	17.5		
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)		
20	QPSK	1	1	16.04	16.03	16.21	17.5		

Ant 4 n41 SA/SA MIMO_PA 2 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				506202	518598	528000				
Frequency (MHz)				2546.01	2592.99	2640				
100	Pi/2 BPSK	1	1	13.99	13.71	13.70				
100	Pi/2 BPSK	1	137	13.95	13.57	13.57	14.5			
100	Pi/2 BPSK	1	271	13.82	13.40	13.35				
100	Pi/2 BPSK	136	0	14.00	13.61	13.64	14.5			
100	Pi/2 BPSK	136	69	13.90	13.48	13.51	14.5			
100	Pi/2 BPSK	136	136	13.84	13.44	13.39	14.5			
100	Pi/2 BPSK	270	0	13.88	13.46	13.35				
100	QPSK	1	1	14.12	14.15	13.67				
100	QPSK	1	137	13.78	13.42	13.57	14.5			
100	QPSK	1	271	13.73	13.31	13.32				
100	QPSK	136	0	13.90	13.52	13.41	14.5			
100	QPSK	136	69	13.93	14.06	13.32	14.5			
100	QPSK	136	136	13.90	13.48	13.22	14.5			
100	QPSK	270	0	13.90	13.44	13.40	14.5			
100	16QAM	1	1	13.78	13.78	13.71	14.5			
100	64QAM	1	1	13.99	13.67	13.72	14.5			
100	256QAM	1	1	14.08	13.72	13.71	14.5			
Channel				506200	518598	528998	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2541	2592.99	2644.03	(dBm)			
90	QPSK	1	120	60	13.40	13.35	13.90	14.5		
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)			
80	QPSK	1	108	54	13.31	13.32	13.73	14.5		
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2506	2592.99	2659.98	(dBm)			
60	QPSK	81	40	13.44	13.40	13.22	14.5			
Channel				502203	518598	530998	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)			
50	QPSK	64	32	13.87	13.72	13.32	14.5			
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2544.01	2592.99	2670	(dBm)			
40	QPSK	50	25	13.61	13.64	13.72	14.5			
Channel				502200	518598	534999	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2541	2592.99	2670.98	(dBm)			
30	QPSK	36	18	13.44	13.40	13.32	14.5			
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2536.02	2592.99	2649.98	(dBm)			
20	QPSK	1	1	13.72	13.71	13.40	14.5			

Ant 7 n41 SA_PA 1 DSI 5										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				506002	518958	528000				
Frequency (MHz)				2546.01	2592.99	2640				
100	Pl2 BPSK	1	1	18.42	18.47	18.35		19.5	0.0	
100	Pl2 BPSK	1	137	18.36	18.44	18.33				
100	Pl2 BPSK	1	271	18.32	18.37	18.42				
100	Pl2 BPSK	136	0	18.40	18.43	18.41		19.5	0.0	
100	Pl2 BPSK	136	69	18.33	18.35	18.44				
100	Pl2 BPSK	136	136	18.23	18.31	18.22				
100	Pl2 BPSK	270	0	18.38	18.43	18.23		19.5	0.0	
100	QPSK	1	1	18.32	18.48	18.22				
100	QPSK	1	137	18.23	18.31	18.12				
100	QPSK	1	271	18.22	18.24	18.21		19.5	0.0	
100	QPSK	136	0	18.21	18.01	18.22				
100	QPSK	136	69	18.21	18.45	18.15				
100	QPSK	136	136	18.16	18.27	18.02		19.5	0.0	
100	QPSK	270	0	18.03	18.10	18.03				
100	16QAM	1	1	18.11	18.12	18.05				
100	8QAM	1	1	18.42	18.48	18.32		18.0	1.5	
100	256QAM	1	1	15.02	15.08	15.11				
Channel				506200	518958	528999	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2541	2592.99	2644.99	(dBm)			
90	QPSK	1	1	18.30	18.31	18.41		19.5		
Channel				507304	518958	529998	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2538.02	2592.99	2649.99	(dBm)			
80	QPSK	1	1	18.41	18.44	18.34		19.5	0.0	
Channel				505300	518958	521999	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2566	2562.99	2669.98	(dBm)			
60	QPSK	1	1	18.41	18.42	18.44		19.5	0.0	
Channel				504204	518958	530998	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2537.02	2592.99	2684.99	(dBm)			
50	QPSK	1	1	18.44	18.41	18.42		19.5	0.0	
Channel				503202	518958	534000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2544.01	2569.99	2670	(dBm)			
40	QPSK	1	1	18.30	18.14	18.41		19.5	0.0	
Channel				502200	518958	534999	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2541	2592.99	2674.99	(dBm)			
30	QPSK	1	1	18.13	18.12	18.30		19.5	0.0	
Channel				501304	518958	535998	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2506.02	2562.99	2679.99	(dBm)			
20	QPSK	1	1	18.33	18.31	18.34		19.5	0.0	

Ant 6 n77 PC3/HPUE 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			
Frequency (MHz)				3160	3460	3760			
100	Pl2 BPSK	1	1	21.02	20.92	20.83	22.5	0.0	
100	Pl2 BPSK	1	137	20.92	21.05	20.82			
100	Pl2 BPSK	1	271	20.94	20.92	20.85			
100	Pl2 BPSK	136	0	20.93	20.73	20.82	22.5	0.0	
100	Pl2 BPSK	136	69	21.02	21.02	20.75			
100	Pl2 BPSK	136	136	21.01	20.73	20.92			
100	Pl2 BPSK	270	0	20.83	20.82	20.72	22.5	0.0	
100	QPSK	1	1	21.13	21.32	21.07	22.5	0.0	
100	QPSK	1	137	20.92	21.12	20.71			
100	QPSK	1	271	20.82	20.94	20.83			
100	QPSK	136	0	20.83	20.93	20.85	22.5	0.0	
100	QPSK	136	69	20.85	21.04	20.73			
100	QPSK	136	136	20.80	20.82	20.84			
100	QPSK	270	0	20.75	20.62	20.83	22.5	0.0	
100	16QAM	1	1	20.72	20.83	20.85	22.5	0.0	
100	64QAM	1	1	20.85	20.71	20.89	22.5	0.0	
100	256QAM	1	1	20.83	20.94	20.82	22.5	0.0	
Channel				649668	656000	662334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3955.01	(dBm)		
80	QPSK	1	1	20.83	20.82	20.75	22.5	0.0	
Channel				649334	656000	660668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)		
80	QPSK	1	1	20.82	20.83	20.82	22.5	0.0	
Channel				648668	656000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)		
60	QPSK	1	1	20.83	20.73	20.82	22.5	0.0	
Channel				645334	656000	660999	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)		
50	QPSK	1	1	20.83	20.85	20.86	22.5	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3160	3460	3660	(dBm)		
40	QPSK	1	1	20.71	20.72	20.82	22.5	0.0	
Channel				647668	656000	664334	Tune-up limit	MPR	
Frequency (MHz)				3161.02	3460	3673.01	(dBm)		
30	QPSK	1	1	20.12	20.83	20.85	22.5	0.0	
Channel				647334	656000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)		
20	QPSK	1	1	20.85	20.82	20.83	22.5	0.0	

Ant 6 n77 PC3/HPUE MIMO 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				
Frequency (MHz)				3750	3840	3930				
100	Pl2 BPSK	1	1	16.25	16.11	16.23		17.0	0.0	
100	Pl2 BPSK	1	137	16.23	16.13	16.25				
100	Pl2 BPSK	1	271	16.11	16.22	16.23				
100	Pl2 BPSK	136	0	16.23	16.12	16.25		17.0	0.0	
100	Pl2 BPSK	136	69	16.42	16.22	16.25				
100	Pl2 BPSK	136	136	16.32	16.42	16.39				
100	Pl2 BPSK	270	0	16.23	16.53	16.36		17.0	0.0	
100	QPSK	1	1	16.56	16.65	16.47				
100	QPSK	1	137	16.40	16.55	16.45				
100	QPSK	1	271	16.42	16.23	16.42		17.0	0.0	
100	QPSK	136	0	16.23	16.45	16.45				
100	QPSK	136	69	16.32	16.53	16.43				
100	QPSK	136	136	16.53	16.45	16.44		17.0	0.0	
100	QPSK	270	0	16.56	16.54	16.32				
100	16QAM	1	1	16.32	16.56	16.12				
100	8QAM	1	1	16.53	16.43	16.21		17.0	0.0	
100	256QAM	1	1	16.45	16.45	16.12				
Channel				649668	656000	662334	Tune-up limit	MPR		
Frequency (MHz)				3745.02	3840	3935.01	(dBm)			
80	QPSK	1	1	16.34	16.30	16.33		17.0	0.0	
Channel				649334	656000	660668	Tune-up limit	MPR		
Frequency (MHz)				3740.01	3840	3940.02	(dBm)			
80	QPSK	1	1	16.33	16.31	16.40		17.0	0.0	
Channel				648668	656000	663334	Tune-up limit	MPR		
Frequency (MHz)				3730.02	3840	3950.01	(dBm)			
60	QPSK	1	1	16.34	16.21	16.40		17.0	0.0	
Channel				645334	656000	663999	Tune-up limit	MPR		
Frequency (MHz)				3725.01	3840	3955.02	(dBm)			
50	QPSK	1	1	16.34	16.33	16.44		17.0	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR		
Frequency (MHz)				3160	3460	3660	(dBm)			
40	QPSK	1	1	16.22	16.20	16.40		17.0	0.0	
Channel				647668	656000	664334	Tune-up limit	MPR		
Frequency (MHz)				3715.02	3840	3965.01	(dBm)			
30	QPSK	1	1	16.33	16.31	16.43		17.0	0.0	
Channel				652729	656000	658878	Tune-up limit	MPR		
Frequency (MHz)				3110.01	3840	3930.02	(dBm)			
20	QPSK	1	1	16.36	16.30	16.41		17.0	0.0	

Ant 9 n77 PC3/HPUe SA DSI 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				650000	650000	662000				
Frequency (MHz)				3754	3840	3926				
100	Pi2 BPSK	1	1	19.77	19.59	19.73				
100	Pi2 BPSK	1	137	19.73	19.61	19.87	21.0	0.0		
100	Pi2 BPSK	1	271	19.73	19.84	19.71				
100	Pi2 BPSK	135	0	19.90	19.62	19.86				
100	Pi2 BPSK	135	69	19.90	19.84	19.73	21.0	0.0		
100	Pi2 BPSK	135	138	19.80	20.04	20.01				
100	Pi2 BPSK	270	0	19.83	20.15	19.86	21.0	0.0		
100	QPSK	1	1	20.04	20.19	19.90				
100	QPSK	1	137	19.92	20.03	19.95	21.0	0.0		
100	QPSK	1	271	19.92	19.71	20.04				
100	QPSK	135	0	19.85	20.07	19.93				
100	QPSK	135	69	19.94	20.17	20.03	21.0	0.0		
100	QPSK	135	138	20.01	20.07	19.92				
100	QPSK	270	0	20.04	20.16	19.94	21.0	0.0		
100	16QAM	1	1	19.92	20.18	19.92	21.0	0.0		
100	64QAM	1	1	19.90	19.01	19.03	19.5	1.5		
100	256QAM	1	1	17.25	17.16	17.32	17.5	3.5		
Channel				649998	650000	662334	Tune-up limit (dB)	MPR		
Frequency (MHz)				3743.02	3828	3933.01				
90	QPSK	1	1	19.80	19.84	19.90	21.0	0.0		
Channel				649334	650000	662998	Tune-up limit (dB)	MPR		
Frequency (MHz)				3740.01	3840	3940.02				
80	QPSK	1	1	19.70	19.69	20.02	21.0	0.0		
Channel				649998	650000	663334	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3730.02	3840	3950.01				
60	QPSK	1	1	19.86	19.78	19.83	21.0	0.0		
Channel				647334	650000	664998	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3725.01	3840	3955.02				
50	QPSK	1	1	19.92	19.86	19.89	21.0	0.0		
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3724	3840	3940				
40	QPSK	1	1	19.87	19.78	19.87	21.0	0.0		
Channel				647698	650000	664334	Tune-up limit (dB)	MPR		
Frequency (MHz)				3713.02	3840	3953.01				
30	QPSK	1	1	19.81	19.77	19.81	21.0	0.0		
Channel				647334	650000	664998	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3710.01	3840	3970.02				
20	QPSK	1	1	19.74	19.68	19.86	21.0	0.0		

Ant 9 n77 PC3/HPUe MIMO 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	650000	662000				
Frequency (MHz)				3754	3840	3926				
100	Pi2 BPSK	1	1	12.80	12.61	13.09				
100	Pi2 BPSK	1	137	12.76	12.63	13.23	14.0	0.0		
100	Pi2 BPSK	1	271	12.76	12.86	13.07				
100	Pi2 BPSK	135	0	12.86	12.64	13.21				
100	Pi2 BPSK	135	69	12.93	12.89	13.09	14.0	0.0		
100	Pi2 BPSK	135	138	12.83	13.06	13.37				
100	Pi2 BPSK	270	0	12.86	13.17	13.22	14.0	0.0		
100	QPSK	1	1	13.11	13.41	13.26				
100	QPSK	1	137	12.95	13.05	13.31	14.0	0.0		
100	QPSK	1	271	12.95	12.73	13.40				
100	QPSK	135	0	12.88	13.09	13.29				
100	QPSK	135	69	12.97	13.40	13.39	14.0	0.0		
100	QPSK	135	138	13.04	13.09	13.26				
100	QPSK	270	0	13.07	13.18	13.30	14.0	0.0		
100	16QAM	1	1	12.95	13.20	12.98	14.0	0.0		
100	64QAM	1	1	13.08	12.83	13.19	14.0	0.0		
100	256QAM	1	1	12.78	12.68	12.98	14.0	0.0		
Channel				649998	650000	662334	Tune-up limit (dB)	MPR		
Frequency (MHz)				3743.02	3828	3933.01				
90	QPSK	1	1	12.93	12.86	13.26	14.0	0.0		
Channel				649334	650000	662998	Tune-up limit (dB)	MPR		
Frequency (MHz)				3740.01	3840	3940.02				
80	QPSK	1	1	12.70	12.71	13.38	14.0	0.0		
Channel				649998	650000	663334	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3730.02	3840	3950.01				
60	QPSK	1	1	12.89	12.80	13.19	14.0	0.0		
Channel				647334	650000	665000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3725.01	3840	3955.02				
50	QPSK	1	1	12.95	12.87	13.25	14.0	0.0		
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3724	3840	3940				
40	QPSK	1	1	12.90	12.80	13.33	14.0	0.0		
Channel				647698	650000	664334	Tune-up limit (dB)	MPR		
Frequency (MHz)				3713.02	3840	3953.01				
30	QPSK	1	1	12.84	12.79	13.27	14.0	0.0		
Channel				647334	650000	664998	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3710.01	3840	3970.02				
20	QPSK	1	1	12.77	12.70	13.32	14.0	0.0		

Ant 12 n77 PC3/HPUe SA DSI 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (db)		
Channel				650000	650000	662000				
Frequency (MHz)				3750	3840	3930				
100	Pi2 BPSK	1	1	15.82	16.06	15.89				
100	Pi2 BPSK	1	137	15.83	15.93	15.84	17.0	0.0		
100	Pi2 BPSK	1	271	15.75	16.00	15.60				
100	Pi2 BPSK	135	0	15.30	15.44	15.22				
100	Pi2 BPSK	135	69	15.86	15.79	15.93	17.0	0.0		
100	Pi2 BPSK	135	138	15.29	15.46	15.05				
100	Pi2 BPSK	270	0	14.97	15.16	15.45	17.0	0.0		
100	QPSK	1	1	16.35	16.26	16.07				
100	QPSK	1	137	15.88	15.92	16.09	17.0	0.0		
100	QPSK	1	271	15.79	15.77	15.62				
100	QPSK	135	0	15.27	15.15	14.86				
100	QPSK	135	69	15.91	16.08	15.87	17.0	0.0		
100	QPSK	135	138	14.87	14.69	14.52				
100	QPSK	270	0	14.80	15.00	14.83	17.0	0.0		
100	16QAM	1	1	15.44	15.22	15.30	17.0	0.0		
100	64QAM	1	1	15.79	15.93	15.86	17.0	0.0		
100	256QAM	1	1	15.48	15.05	15.29	17.0	0.0		
Channel				649998	650000	662334	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3745.02	3840	3935.01				
90	QPSK	1	1	16.07	16.10	15.69	17.0	0.0		
Channel				649334	650000	662998	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3740.01	3840	3940.02				
80	QPSK	1	1	15.99	16.14	15.85	17.0	0.0		
Channel				649998	650000	663334	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3730.02	3840	3950.01				
60	QPSK	1	1	16.06	16.11	15.94	17.0	0.0		
Channel				647334	650000	665000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3725.01	3840	3955.02				
50	QPSK	1	1	16.03	16.05	16.06	17.0	0.0		
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3720	3840	3960				
40	QPSK	1	1	16.11	16.22	15.89	17.0	0.0		
Channel				647334	650000	664334	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3715.02	3840	3965.01				
30	QPSK	1	1	16.05	16.09	15.92	17.0	0.0		
Channel				647234	650000	664098	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3710.01	3840	3960.02				
20	QPSK	1	1	16.07	16.27	15.88	17.0	0.0		

Ant 12 n77 PC3/HPUE MIMO 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	650000	662000				
Frequency (MHz)				3750	3840	3930				
100	Pi2 BPSK	1	1	13.00	12.82	12.94				
100	Pi2 BPSK	1	137	12.94	12.82	13.08	14.0	0.0		
100	Pi2 BPSK	1	271	12.86	13.03	12.82				
100	Pi2 BPSK	135	0	13.06	12.83	13.06				
100	Pi2 BPSK	135	69	13.09	13.05	12.93	14.0	0.0		
100	Pi2 BPSK	135	138	13.01	13.24	13.24				
100	Pi2 BPSK	270	0	13.03	13.38	13.06	14.0	0.0		
100	QPSK	1	1	13.35	13.45	13.21				
100	QPSK	1	137	13.15	13.26	13.16	14.0	0.0		
100	QPSK	1	271	13.13	12.92	13.23				
100	QPSK	135	0	13.08	13.26	13.14				
100	QPSK	135	69	13.15	13.38	13.23				
100	QPSK	135	138	13.20	13.28	13.12				
100	QPSK	270	0	13.25	13.38	13.17	14.0	0.0		
100	16QAM	1	1	13.12	13.41	12.85	14.0	0.0		
100	64QAM	1	1	13.29	13.12	13.04	14.0	0.0		
100	256QAM	1	1	12.86	12.87	12.81	14.0	0.0		
Channel				649698	656000	662334	Tune-up limit (dB)	MPR (dB)		
Frequency (MHz)				3743.02	3840	3933.01				
90	QPSK	1	1	13.07	13.05	13.10	14.0	0.0		
Channel				649334	656000	662698	Tune-up limit (dB)	MPR (dB)		
Frequency (MHz)				3740.01	3840	3940.02				
80	QPSK	1	1	12.97	12.90	13.21	14.0	0.0		
Channel				649698	656000	663334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3730.02	3840	3950.01				
60	QPSK	1	1	13.05	12.95	13.03	14.0	0.0		
Channel				649334	656000	663698	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3725.01	3840	3955.02				
50	QPSK	1	1	13.16	13.04	13.10	14.0	0.0		
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3724	3840	3960				
40	QPSK	1	1	13.08	12.99	13.16	14.0	0.0		
Channel				647698	656000	664334	Tune-up limit (dB)	MPR (dB)		
Frequency (MHz)				3713.02	3840	3953.01				
30	QPSK	1	1	13.02	12.96	13.10	14.0	0.0		
Channel				647334	656000	664698	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3710.01	3840	3970.02				
20	QPSK	1	1	12.94	12.91	13.19	14.0	0.0		

Ant 14 n77 PC3/HPUE 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	650000	662000				
Frequency (MHz)				3750	3840	3930				
100	Pi2 BPSK	1	1	15.10	14.88	14.93				
100	Pi2 BPSK	1	137	14.80	15.20	14.88	16.0	0.0		
100	Pi2 BPSK	1	271	14.77	15.09	14.91				
100	Pi2 BPSK	135	0	14.23	14.38	14.33				
100	Pi2 BPSK	135	69	14.77	15.05	14.70	16.0	0.0		
100	Pi2 BPSK	135	138	13.97	14.14	14.11				
100	Pi2 BPSK	270	0	14.22	14.52	14.36	16.0	0.0		
100	QPSK	1	1	14.54	15.21	15.14				
100	QPSK	1	137	14.87	14.88	14.97	16.0	0.0		
100	QPSK	1	271	14.78	15.07	14.69				
100	QPSK	135	0	13.90	14.05	13.95				
100	QPSK	135	69	14.89	14.80	14.69	16.0	0.0		
100	QPSK	135	138	13.95	14.06	13.87				
100	QPSK	270	0	15.09	14.91	14.77	16.0	0.0		
100	16QAM	1	1	14.38	14.33	14.25	16.0	0.0		
100	64QAM	1	1	15.05	14.70	14.77	16.0	0.0		
100	256QAM	1	1	14.14	14.11	14.33	16.0	0.0		
Channel				649698	656000	662334	Tune-up limit (dB)	MPR (dB)		
Frequency (MHz)				3743.02	3840	3933.01				
90	QPSK	1	1	14.09	15.07	15.14	16.0	0.0		
Channel				649334	656000	662698	Tune-up limit (dB)	MPR (dB)		
Frequency (MHz)				3740.01	3840	3940.02				
80	QPSK	1	1	14.09	15.18	15.13	16.0	0.0		
Channel				649698	656000	663334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3730.02	3840	3950.01				
60	QPSK	1	1	15.03	15.20	15.16	16.0	0.0		
Channel				649334	656000	663698	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3725.01	3840	3955.02				
50	QPSK	1	1	15.00	15.20	15.20	16.0	0.0		
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3724	3840	3960				
40	QPSK	1	1	14.88	15.08	15.17	16.0	0.0		
Channel				647698	656000	664334	Tune-up limit (dB)	MPR (dB)		
Frequency (MHz)				3713.02	3840	3953.01				
30	QPSK	1	1	14.57	15.12	15.04	16.0	0.0		
Channel				647334	656000	664698	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3710.01	3840	3970.02				
20	QPSK	1	1	15.07	15.02	15.18	16.0	0.0		

Ant 14 n77 PC3/HPUE MIMO 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	650000	660000				
Frequency (MHz)				3750	3840	3930				
100	Pi2 BPSK	1	1	15.39	15.60	15.27				
100	Pi2 BPSK	1	137	15.48	15.55	15.35	17.0	0.0		
100	Pi2 BPSK	1	271	15.18	15.49	15.13				
100	Pi2 BPSK	135	0	14.91	15.05	14.87				
100	Pi2 BPSK	135	69	15.29	15.47	15.33	17.0	0.0		
100	Pi2 BPSK	135	138	15.23	15.45	15.41				
100	Pi2 BPSK	270	0	15.30	15.00	15.02	17.0	0.0		
100	QPSK	1	1	15.51	15.88	15.72				
100	QPSK	1	137	15.70	15.65	15.54	17.0	0.0		
100	QPSK	1	271	15.62	15.62	15.50				
100	QPSK	135	0	15.63	15.79	15.73				
100	QPSK	135	69	15.64	15.80	15.63	17.0	0.0		
100	QPSK	135	138	15.71	15.58	15.65				
100	QPSK	270	0	15.68	15.75	15.64	17.0	0.0		
100	16QAM	1	1	15.65	15.81	15.70	17.0	0.0		
100	64QAM	1	1	15.84	15.85	15.68	17.0	0.0		
100	256QAM	1	1	15.62	15.40	15.62	17.0	0.0		
Channel				649698	656000	662334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3745.02	3840	3935.01				
90	QPSK	1	1	15.42	15.35	15.66	17.0	0.0		
Channel				649334	656000	662698	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3740.01	3840	3940.02				
80	QPSK	1	1	15.52	15.50	15.55	17.0	0.0		
Channel				649698	656000	663334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3730.02	3840	3950.01				
80	QPSK	1	1	15.50	15.44	15.48	17.0	0.0		
Channel				649334	656000	663968	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3725.01	3840	3955.02				
80	QPSK	1	1	15.53	15.44	15.61	17.0	0.0		
Channel				648900	656000	664000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3720	3840	3950				
40	QPSK	1	1	15.47	15.43	15.55	17.0	0.0		
Channel				649274	656000	663334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3715.02	3840	3965.01				
30	QPSK	1	1	15.54	15.53	15.64	17.0	0.0		
Channel				649294	656000	663968	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3710.01	3840	3970.02				
20	QPSK	1	1	15.56	15.53	15.59	17.0	0.0		

BT EDR			AntS		
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH100	2402	16.83	14.87	14.93
	CH139	2441	17.79	15.78	15.86
	CH178	2480	15.48	13.61	13.66
Tune-up Limit			18	16	16

BT EDR			Ant?		
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH100	2402	14.67	14.67	12.97
	CH139	2441	15.74	15.74	14.00
	CH176	2480	14.18	14.18	12.65
Tune-up Limit			16	16	14.5

BT LE				Ant5
Mode	Channel	Frequency (MHz)	Average power (dBm)	
			GFSK	
LE	CH 00	2402	5.72	
	CH 19	2440	6.65	
	CH 39	2480	5.54	
Tune-up Limit			8	

BT LE				Ant?
Mode	Channel	Frequency (MHz)	Average power (dBm)	
			GFSK	
LE	CH 00	2402	5.39	
	CH 19	2440	5.84	
	CH 39	2480	4.67	
Tune-up Limit			7	

BT LE v5.0				Ant?
Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	
LE	CH100	2402	5.89	
	CH130	2440	6.79	
	CH136	2480	5.82	
Tune-up Limit			8	

BT LE v5.0				Ant?
Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	
LE	CH100	2402	5.61	
	CH130	2440	6.04	
	CH136	2480	4.94	
Tune-up Limit			7	