

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 %

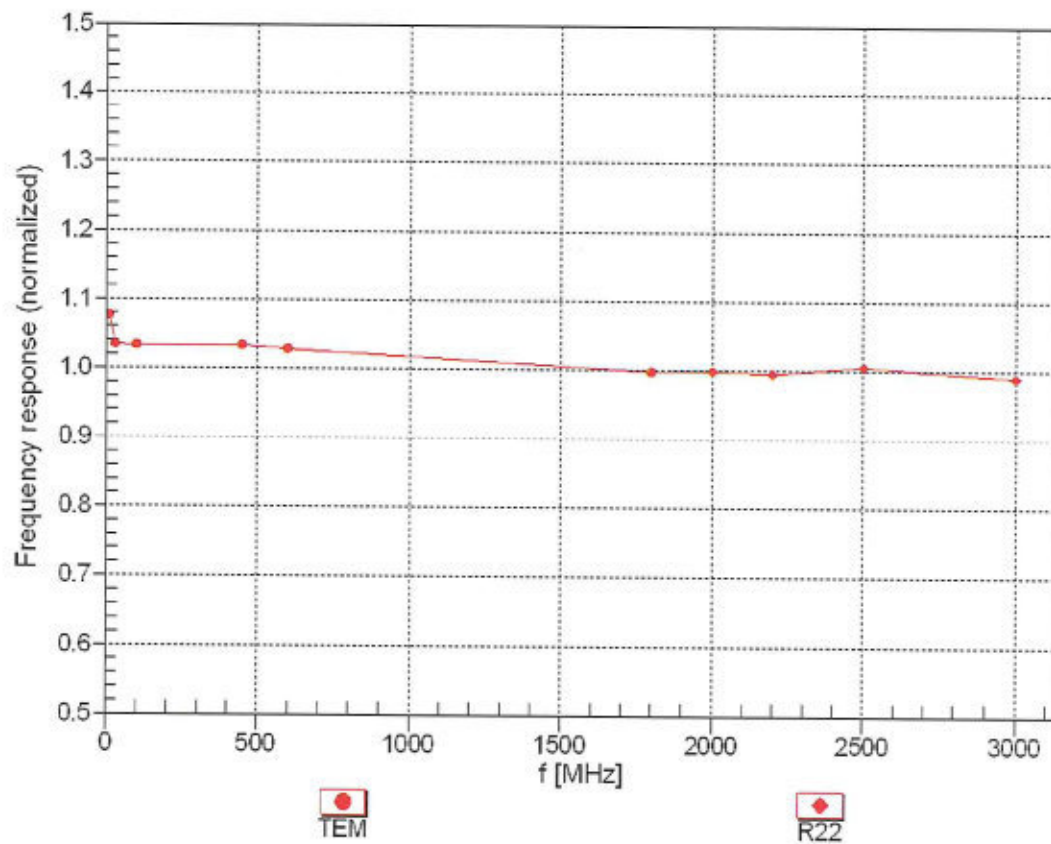
^C Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 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

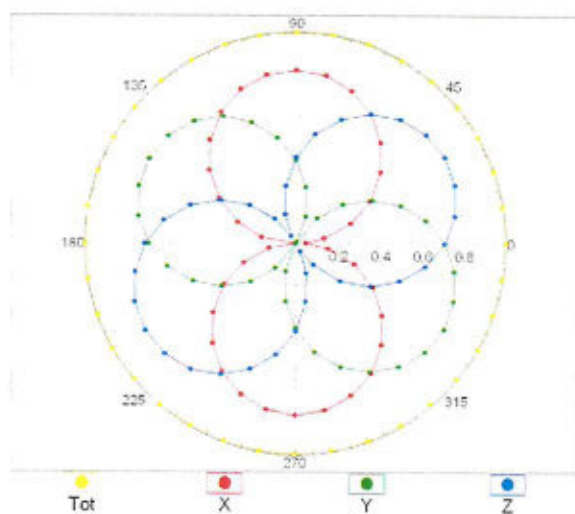
(TEM-Cell:ifi110 EXX, Waveguide: R22)



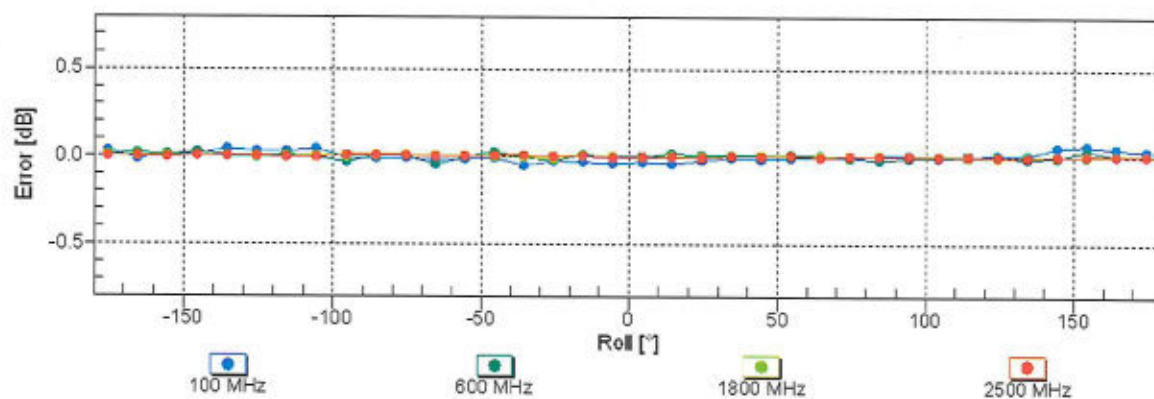
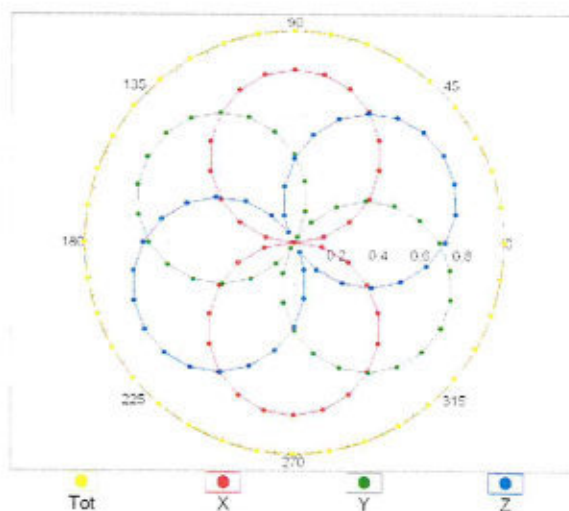
Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

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

f=600 MHz,TEM

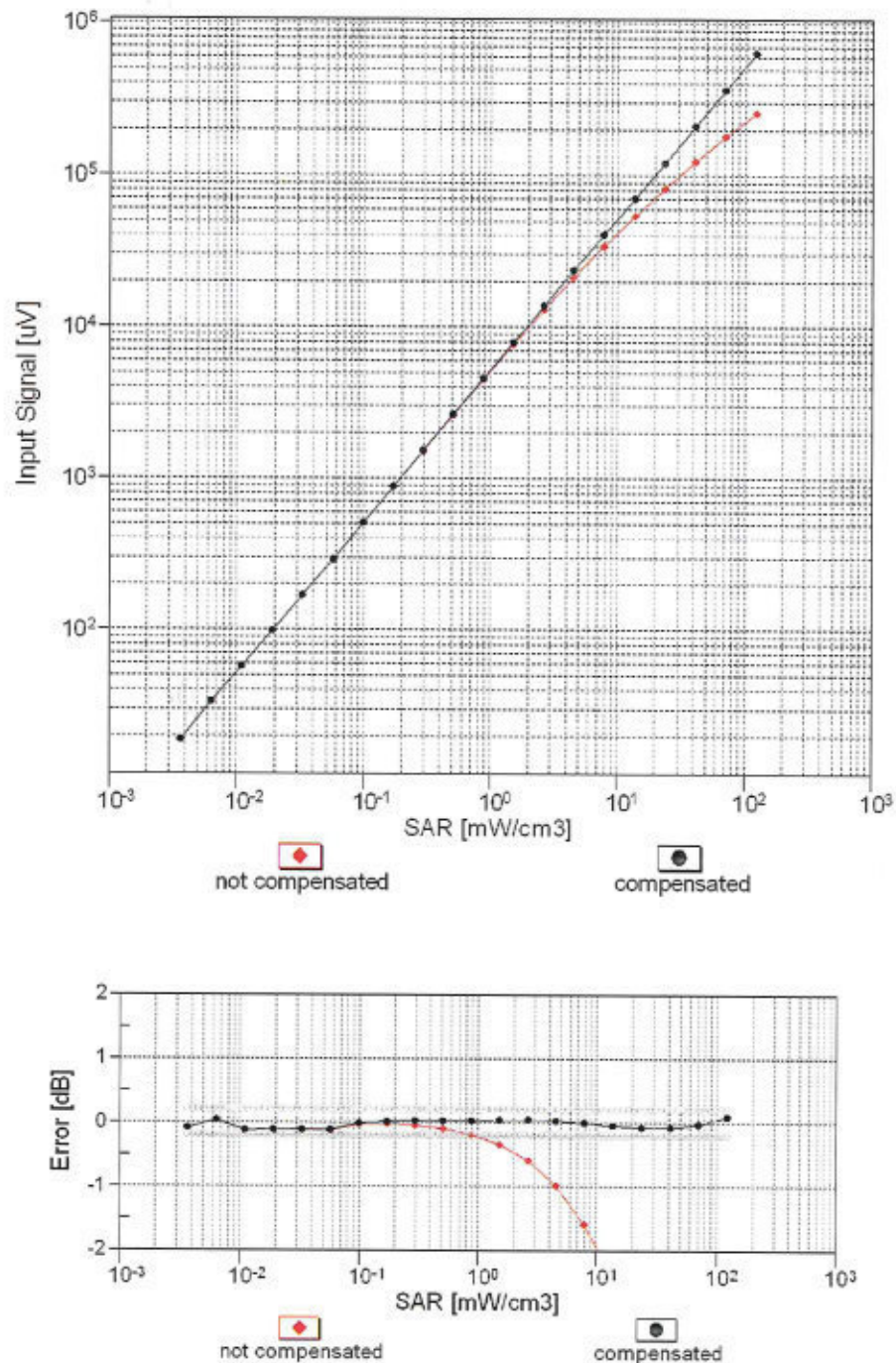


f=1800 MHz,R22



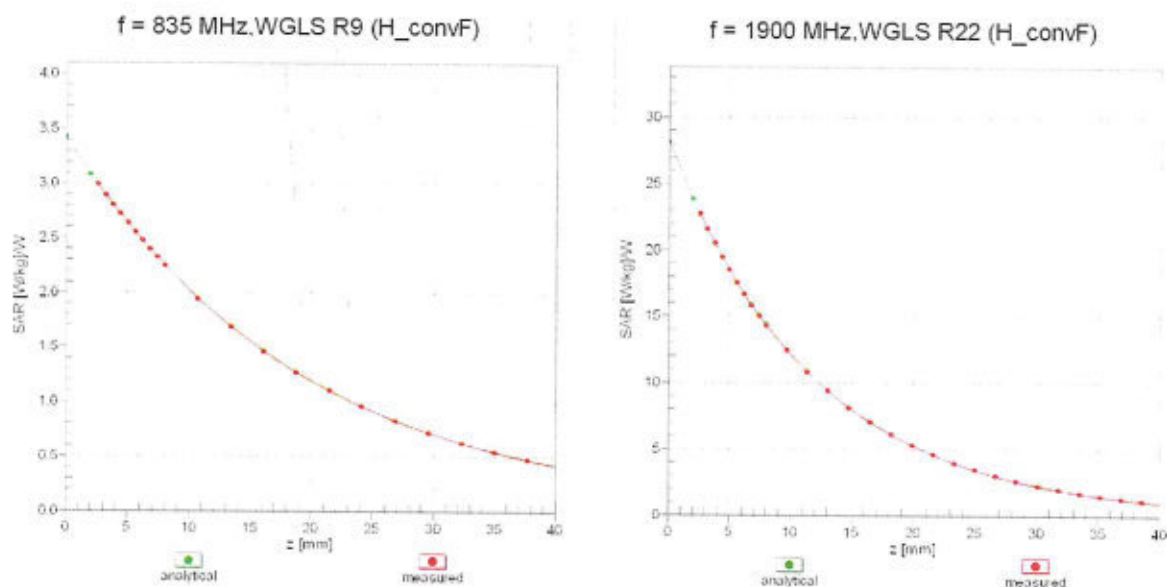
Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ (k=2)

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



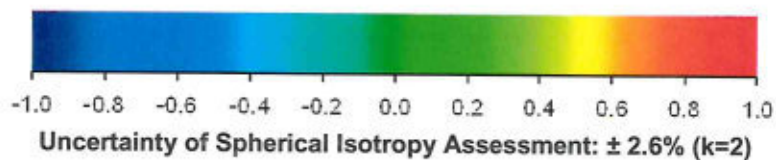
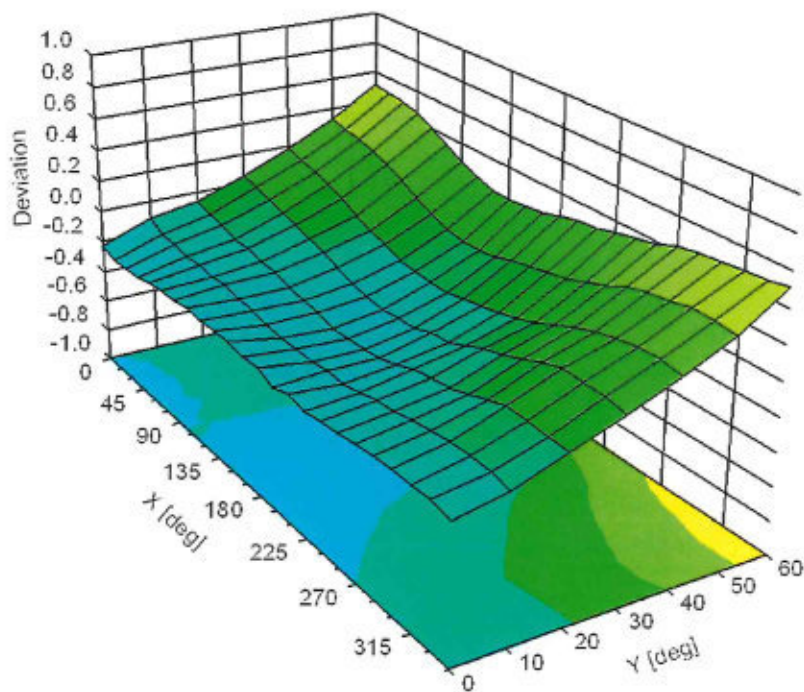
Uncertainty of Linearity Assessment: $\pm 0.6\%$ ($k=2$)

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	
TX Channel	854.2	836.4	848.8	854.2	836.4	848.8	
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	19.99	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	19.97	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	833.4	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 22H(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)											
				829	836.5	844					
10	QPSK	1	0	25.23	25.34	25.25	25.5	0			
10	QPSK	1	25	25.29	25.23	25.14					
10	QPSK	1	49	25.27	25.19	25.14					
10	QPSK	25	0	24.39	24.47	24.29	24.5	1			
10	QPSK	25	12	24.46	24.33	24.34					
10	QPSK	25	25	24.41	24.38	24.30					
10	QPSK	50	0	24.40	24.42	24.34	24.5	1			
10	16QAM	1	0	24.23	24.24	24.17					
10	16QAM	1	25	24.19	24.16	24.15					
10	16QAM	1	49	24.21	24.08	24.05	23.5	2			
10	16QAM	25	0	22.95	22.87	22.83					
10	16QAM	25	25	22.95	22.88	22.83					
10	16QAM	50	0	23.00	22.85	22.90	23.5	2			
10	64QAM	1	0	22.79	22.78	22.73					
10	64QAM	1	25	22.72	22.65	22.59					
10	64QAM	1	49	22.29	22.69	22.56	22.5	3			
10	64QAM	25	0	21.44	21.39	21.31					
10	64QAM	25	12	21.51	21.39	21.41					
10	64QAM	25	25	21.45	21.40	21.33	20.5	5			
10	64QAM	50	0	21.48	21.33	21.33					
10	256QAM	1	0	20.23	20.32	20.54					
10	256QAM	1	25	20.14	19.99	20.12	20.5	5			
10	256QAM	1	49	20.10	20.54	20.64					
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											
Frequency (MHz)											
				826.5	836.5	846.5					
5	QPSK	1	0	25.27	25.22	25.17	25.5	0			
5	QPSK	1	12	25.24	25.20	25.09					
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	7	24.34	24.27	24.23					
5	QPSK	12	13	24.29	24.23	24.14					
5	QPSK	25	0	24.33	24.21	24.13	24.5	1			
5	16QAM	1	0	24.18	24.11	24.03					
5	16QAM	1	12	24.12	24.09	24.01					
5	16QAM	1	24	24.06	24.06	23.95	23.5	2			
5	16QAM	12	0	22.86	22.83	22.77					
5	16QAM	12	7	22.82	22.86	22.79					
5	16QAM	12	13	22.86	22.79	22.69	23.5	2			
5	16QAM	25	0	22.88	22.78	22.71					
5	64QAM	1	0	22.57	22.53	22.43					
5	64QAM	1	12	22.51	22.48	22.36	22.5	2			
5	64QAM	1	24	22.53	22.40	22.36					
5	64QAM	12	0	21.38	21.28	21.23					
5	64QAM	12	7	21.38	21.33	21.26	22.5	3			
5	64QAM	12	13	21.33	21.27	21.18					
5	64QAM	25	0	21.38	21.28	21.20					
5	256QAM	1	0	20.27	20.16	20.46	20.5	5			
5	256QAM	1	12	20.14	21.02	20.13					
5	256QAM	1	24	21.06	20.26	20.46					
5	256QAM	12	0	20.35	20.36	20.24	20.5	5			
5	256QAM	12	7	20.74	20.43	20.18					
5	256QAM	12	13	20.16	20.15	20.73					
5	256QAM	25	0	20.76	20.46	20.16	20.5	5			
				20415	20525	20635					
Channel											
Frequency (MHz)											
				825.5	836.5	847.5					
3	QPSK	1	0	25.12	25.07	25.03	25.5	0			
3	QPSK	1	8	25.15	25.14	25.05					
3	QPSK	1	14	25.08	25.04	24.98					
3	QPSK	8	0	24.22	24.14	24.07	24.5	1			
3	QPSK	8	4	24.21	24.19	24.08					
3	QPSK	8	7	24.18	24.14	24.06					
3	QPSK	15	0	24.20	24.17	24.10	24.5	1			
3	16QAM	1	0	23.87	23.84	23.82					
3	16QAM	1	8	24.01	24.03	23.98					
3	16QAM	1	14	23.91	23.90	23.85	23.5	2			
3	16QAM	8	0	22.87	22.76	22.65					
3	16QAM	8	4	22.86	22.80	22.69					
3	16QAM	8	7	22.79	22.70	22.66	23.5	2			
3	16QAM	15	0	22.78	22.73	22.67					
3	64QAM	1	0	22.42	22.39	22.27					
3	64QAM	1	8	22.53	22.41	22.35	22.5	3			
3	64QAM	1	14	22.40	22.31	22.22					
3	64QAM	8	0	21.30	21.17	21.11					
3	64QAM	8	4	21.30	21.22	21.17	22.5	3			
3	64QAM	8	7	21.26	21.18	21.10					
3	64QAM	15	0	21.25	21.22	21.17					
3	256QAM	1	0	20.12	20.34	20.43	20.5	5			
3	256QAM	1	8	20.15	20.16	20.74					
3	256QAM	1	14	20.35	20.76	20.46					
3	256QAM	8	0	20.43	20.48	20.73	20.5	5			
3	256QAM	8	4	20.46	20.76	20.15					
3	256QAM	8	7	20.34	20.73	20.22					
3	256QAM	15	0	20.66	20.46	20.17	20.5	5			
				20407	20525	20643					
Channel											
Frequency (MHz)											
				824.7	836.5	848.3					
1.4	QPSK	1	0	24.74	24.82	24.81	25.5	0			
1.4	QPSK	1	3	24.97	24.93	24.83					
1.4	QPSK	1	5	24.86	24.83	24.73					
1.4	QPSK	3	0	24.87	24.86	24.84	24.5	1			
1.4	QPSK	3	1	24.95	24.95	24.86					
1.4	QPSK	3	3	24.95	24.86	24.79					
1.4	QPSK	6	0	23.99	23.97	23.89	24.5	1			
1.4	16QAM	1	0	23.86	23.69	23.69					
1.4	16QAM	1	3	23.86	23.82	23.76					
1.4	16QAM	1	5	23.75	23.71	23.65	24.5	1			
1.4	16QAM	3	0	23.61	23.46	23.48					
1.4	16QAM	3	1	23.63	23.55	23.52					
1.4	16QAM	3	3	23.57	23.47	23.42	23.5	2			
1.4	16QAM	6	0	22.62	22.55	22.52					
1.4	64QAM	1	0	22.29	22.11	22.14					
1.4	64QAM	1	3	22.30	22.16	22.12	23.5	2			
1.4	64QAM	1	5	22.23	22.13	22.03					
1.4	64QAM	3	0	22.15	22.01	22.04					
1.4	64QAM	3	1	22.17	22.15	22.07	22.5	3			
1.4	64QAM	3	3	22.09	22.05	22.00					
1.4	64QAM	6	0	21.05	20.98	20.94					
1.4	256QAM	1	0	19.74	19.65	19.46	20.5	5			
1.4	256QAM	1	3	19.65	19.76	19.35					
1.4	256QAM	1	5	19.65	19.15	19.49					
1.4	256QAM	3	0	19.35	19.35	19.02	20.5	5			
1.4	256QAM	3	1	19.87	19.06	19.24					
1.4	256QAM	3	3	19.24	19.46	19.09					
1.4	256QAM	6	0	19.12	19.75	19.70	20.5	5			

Band 12 (700MHz Low Band) Part 27F(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)											
10	QPSK	1	0	22.45	22.66	22.52	24	0			
10	QPSK	1	25	22.52	22.52	22.53					
10	QPSK	1	49	22.57	22.60	22.60					
10	QPSK	25	0	21.57	21.75	21.67	23	1			
10	QPSK	25	12	21.67	21.67	21.67					
10	QPSK	25	25	21.65	21.69	21.72					
10	QPSK	50	0	21.88	21.89	21.86	23	1			
10	16QAM	1	0	21.78	21.89	21.86					
10	16QAM	1	25	21.91	21.88	21.92					
10	16QAM	1	49	21.83	21.97	21.56	22	2			
10	16QAM	25	0	20.70	20.87	20.67					
10	16QAM	25	12	20.70	20.84	20.65					
10	16QAM	25	25	20.66	20.84	20.76	22	2			
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	20.81	20.69	20.91					
10	64QAM	25	0	19.65	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	19.63					
10	256QAM	1	0	17.45	17.45	17.51	19	5			
10	256QAM	1	25	17.02	17.32	18.32					
10	256QAM	1	49	17.63	17.24	17.52					
10	256QAM	25	0	17.54	17.46	17.45	19	5			
10	256QAM	25	12	18.01	17.98	17.23					
10	256QAM	25	25	17.56	17.52	18.06					
10	256QAM	50	0	17.56	17.54	17.54	21	5			
Channel											
Frequency (MHz)											
5	QPSK	1	0	22.48	22.52	22.55	24	0			
5	QPSK	1	12	22.50	22.55	22.64					
5	QPSK	1	24	22.52	22.59	22.65					
5	QPSK	12	0	21.64	21.85	21.99	23	1			
5	QPSK	12	7	21.64	21.82	21.73					
5	QPSK	12	13	21.62	21.67	21.68					
5	QPSK	25	0	21.62	21.63	21.73	23	1			
5	16QAM	1	0	21.82	21.91	21.90					
5	16QAM	1	12	21.83	21.85	21.94					
5	16QAM	1	24	21.83	21.83	21.90	22	2			
5	16QAM	12	7	20.68	20.71	20.76					
5	16QAM	12	13	20.61	20.68	20.69					
5	16QAM	25	0	20.64	20.66	20.75	22	2			
5	64QAM	1	0	20.74	20.82	20.81					
5	64QAM	1	12	20.76	20.79	20.80					
5	64QAM	1	24	20.84	20.82	20.90	21	3			
5	64QAM	12	0	19.57	19.64	19.68					
5	64QAM	12	13	19.63	19.74	19.78					
5	64QAM	12	13	19.61	19.69	19.74	19	5			
5	64QAM	25	0	19.68	19.67	19.74					
5	256QAM	1	0	17.48	17.52	17.48					
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	7	17.41	17.46	17.49	19	5			
5	256QAM	12	13	17.46	17.49	17.81					
5	256QAM	25	0	17.52	17.52	17.26					
Channel											
Frequency (MHz)											
3	QPSK	1	0	22.49	22.55	22.57	24	0			
3	QPSK	1	8	22.52	22.34	22.43					
3	QPSK	1	14	22.46	22.59	22.61					
3	QPSK	8	0	21.60	21.63	21.54	23	1			
3	QPSK	8	4	21.63	21.73	21.71					
3	QPSK	8	7	21.61	21.64	21.70					
3	QPSK	15	0	21.57	21.69	21.70	23	1			
3	16QAM	1	0	21.66	21.84	21.96					
3	16QAM	1	8	21.85	21.94	21.96					
3	16QAM	1	14	21.82	21.81	21.94	22	2			
3	16QAM	8	0	20.62	20.68	20.74					
3	16QAM	8	7	20.65	20.72	20.70					
3	16QAM	15	0	20.79	20.67	20.89	22	2			
3	64QAM	1	8	20.84	20.90	20.95					
3	64QAM	1	14	20.84	20.81	20.92					
3	64QAM	8	0	19.63	19.68	19.68	21	3			
3	64QAM	8	4	19.68	19.71	19.79					
3	64QAM	8	7	19.60	19.55	19.69					
3	64QAM	15	0	19.50	19.50	19.71	19	5			
3	256QAM	1	0	17.46	17.46	17.34					
3	256QAM	1	8	17.51	17.35	17.24					
3	256QAM	1	14	17.26	17.25	17.26	19	5			
3	256QAM	8	0	17.25	17.55	17.46					
3	256QAM	8	4	17.25	17.46	17.25					
3	256QAM	8	7	17.45	17.43	17.42	23	1			
3	256QAM	15	0	17.63	17.24	17.85					
Channel											
Frequency (MHz)											
1.4	QPSK	1	0	22.25	22.43	22.45	24	0			
1.4	QPSK	1	3	22.47	22.56	22.61					
1.4	QPSK	1	5	22.51	22.49	22.49					
1.4	QPSK	3	0	22.51	22.43	22.51	23	1			
1.4	QPSK	3	1	22.51	22.56	22.56					
1.4	QPSK	3	3	22.44	22.55	22.60					
1.4	16QAM	1	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	21.47	21.58	21.61	22	2			
1.4	16QAM	1	0	20.62	20.69	20.71					
1.4	16QAM	1	1	20.63	20.71	20.76					
1.4	64QAM	1	3	20.75	20.79	20.84	22	2			
1.4	64QAM	1	5	20.73	20.70	20.81					
1.4	64QAM	3	0	20.63	20.60	20.62					
1.4	64QAM	3	1	20.64	20.70	20.71	21	3			
1.4	64QAM	3	3	20.56	20.60	20.62					
1.4	256QAM	1	0	17.46	17.50	17.54					
1.4	256QAM	1	3	17.56	17.24	17.46	19	5			
1.4	256QAM	1	5	17.15	17.25	17.21					
1.4	256QAM	3	0	17.46	17.06	17.42					
1.4	256QAM	3	3	17.06	17.06	17.46	19	5			
1.4	256QAM	3	3	17.25	17.12	17.25					
1.4	256QAM	6	0	17.49	17.32	17.14					

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)
TX Channel		5362	9400	9538		1312	1413	1513	
RX Channel		9682	9500	9538		1537	1528	1728	
Frequency (MHz)		1852.4	1860	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	Power Mldts Ch. Freq.	Power Mldts Ch. Freq.	Power Mldts Ch. Freq.	Tune-up (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	24.00	23.99	24.23		25.5	0	
20	QPSK	1	49	23.92	23.91	23.97				
20	QPSK	1	99	24.20	24.21	23.91				
20	QPSK	50	24	23.12	23.21	23.08				
20	QPSK	50	50	23.16	23.17	23.16		24.5	1	
20	QPSK	100	0	23.17	23.08	23.16				
20	16QAM	1	49	23.05	23.00	22.95				
20	16QAM	1	99	23.26	23.21	23.08				
20	16QAM	50	0	22.15	22.12	22.08		23.5	2	
20	16QAM	50	24	22.21	22.13	22.12				
20	16QAM	50	50	22.17	22.12	22.18				
20	16QAM	100	0	22.18	22.05	22.17				
20	64QAM	1	0	22.54	22.35	22.39		23.5	2	
20	64QAM	1	49	22.25	22.29	22.34				
20	64QAM	50	0	21.20	21.11	21.12				
20	64QAM	50	24	21.27	21.19	21.22				
20	256QAM	1	0	19.15	19.24	19.25		20.5	5	
20	256QAM	1	49	19.13	19.14	19.18				
20	256QAM	1	99	19.21	19.32	19.34				
20	256QAM	50	0	19.21	19.24	19.25				
20	256QAM	50	24	19.42	18.99	19.45		20.5	5	
20	256QAM	50	50	19.22	19.07	19.42				
20	256QAM	100	0	19.08	19.02	19.11				
20	256QAM	100	0	19.12	19.16	19.15				
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.02	23.03	23.03		25.5	0	
15	QPSK	1	37	24.02	23.94	24.00				
15	QPSK	1	74	24.02	23.89	24.01				
15	QPSK	36	0	23.11	23.03	23.07				
15	QPSK	36	20	23.19	23.11	23.19		24.5	1	
15	QPSK	36	39	23.14	23.09	23.18				
15	QPSK	75	0	23.18	23.04	23.19				
15	QPSK	75	0	23.22	23.32	23.04				
15	16QAM	1	37	23.04	22.95	23.05		24.5	1	
15	16QAM	1	74	23.28	23.23	23.24				
15	16QAM	36	0	22.13	22.12	22.07				
15	16QAM	36	20	22.20	22.12	22.19				
15	16QAM	36	39	22.19	22.11	22.18		23.5	2	
15	16QAM	75	0	22.19	22.11	22.19				
15	64QAM	1	0	22.29	22.32	22.40				
15	64QAM	1	37	22.38	22.25	22.40				
15	64QAM	1	74	22.37	22.27	22.36		22.5	3	
15	64QAM	36	0	21.20	21.18	21.13				
15	64QAM	36	20	21.25	21.19	21.26				
15	64QAM	36	39	21.25	21.18	21.25				
15	64QAM	75	0	21.26	21.17	21.16		20.5	5	
15	256QAM	1	0	19.02	18.95	19.09				
15	256QAM	1	37	19.10	19.12	19.15				
15	256QAM	1	74	19.08	18.97	19.04				
15	256QAM	36	0	19.09	19.06	19.04		20.5	5	
15	256QAM	36	20	19.05	18.94	19.07				
15	256QAM	36	39	19.01	19.13	19.14				
15	256QAM	75	0	19.12	19.16	19.15				
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.10	24.26	24.26		25.5	0	
10	QPSK	1	26	24.32	24.20	24.31				
10	QPSK	1	49	24.14	24.26	24.27				
10	QPSK	26	12	23.49	23.44	23.43				
10	QPSK	26	25	23.52	23.43	23.52		24.5	1	
10	QPSK	50	0	23.42	23.42	23.46				
10	16QAM	1	0	23.29	23.66	23.38				
10	16QAM	1	26	23.28	23.62	23.29				
10	16QAM	1	49	23.64	23.64	23.37		23.5	2	
10	16QAM	26	0	22.49	22.42	22.40				
10	16QAM	26	12	22.54	22.43	22.43				
10	16QAM	26	25	22.50	22.42	22.52				
10	16QAM	50	0	22.50	22.42	22.47		23.5	2	
10	64QAM	1	0	22.34	22.76	22.72				
10	64QAM	1	26	22.84	22.75	22.83				
10	64QAM	1	49	22.68	22.77	22.59				
10	64QAM	26	12	21.62	21.53	21.52		22.5	3	
10	64QAM	26	25	21.64	21.51	21.59				
10	64QAM	50	0	21.60	21.52	21.52				
10	256QAM	1	0	19.10	19.12	19.02				
10	256QAM	1	26	19.11	19.15	19.14		20.5	5	
10	256QAM	1	49	19.06	19.10	19.05				
10	256QAM	26	0	19.16	19.17	19.15				
10	256QAM	26	12	19.14	19.16	19.12				
10	256QAM	26	25	19.10	19.01	19.14		20.5	5	
10	256QAM	50	0	19.09	19.13	19.10				
10	256QAM	50	0	19.12	19.13	19.13				
10	256QAM	100	0	19.08	19.06	19.07				
Channel										
Frequency (MHz)										
3	QPSK	1	0	23.04	23.06	23.07		25.5	0	
3	QPSK	1	12	24.32	24.24	23.98				
3	QPSK	1	24	23.09	23.00	23.04				
3	QPSK	8	0	23.01	23.02	23.19				
3	QPSK	8	4	23.08	23.11	23.19		24.5	1	
3	QPSK	8	12	23.15	23.05	23.18				
3	QPSK	16	0	23.02	23.09	23.18				
3	16QAM	1	0	23.08	23.26	23.34				
3	16QAM	1	12	23.38	23.21	23.21		24.5	1	
3	16QAM	1	24	23.19	23.28	23.40				
3	16QAM	8	0	23.13	23.05	23.18				
3	16QAM	8	4	22.22	22.16	22.24				
3	16QAM	8	7	22.15	22.10	22.21		23.5	2	
3	16QAM	16	0	22.13	22.23	22.33				
3	16QAM	16	7	22.30	22.27	22.43				
3	16QAM	8	0	21.20	21.16	21.25				
3	64QAM	8	4	21.24	21.19	21.28		22.5	3	
3	64QAM	8	12	21.27	21.17	21.26				
3	256QAM	1	0	19.14	19.10	19.17				
3	256QAM	1	12	19.14	19.13	19.13				
3	256QAM	8	0	19.19	19.13	19.18		20.5	5	
3	256QAM	8	7	19.16	19.18	19.12				
3	256QAM	16	0	19.07	19.09	19.16				
3	256QAM	8	7	19.14	19.11	19.12				
3	256QAM	16	0	19.08	19.06	19.07		20.5	5	
3	256QAM	16	0	19.12	19.13	19.13				
3	256QAM	32	0	19.05	19.04	19.05				
3	256QAM	32	0	19.10	19.08	19.02				
3	256QAM	3	1	19.18	19.17	19.15		20.5	5	
3	256QAM	3	1	19.11	19.13	19.16				
3	256QAM	3	1	19.10	19.12	19.14				
3	256QAM	3	1	19.08	19.10	19.10				

Band 66									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 133072	Power High Ch. Freq. 133072	Power High Ch. Freq. 133072	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	24.11	24.05	24.05	25.5	0	
20	QPSK	1	49	24.05	23.75	23.95			
20	QPSK	1	99	24.03	23.90	23.82			
20	QPSK	50	0	23.17	23.08	23.08			
20	QPSK	50	24	23.23	23.11	23.11	24.5	1	
20	QPSK	50	50	23.14	23.12	23.03			
20	QPSK	100	0	22.21	22.02	22.02			
20	16QAM	1	0	23.48	23.51	23.42			
20	16QAM	1	49	23.41	23.40	23.34	24.5	1	
20	16QAM	1	99	22.26	22.20	22.20			
20	16QAM	50	0	22.19	22.10	22.07			
20	16QAM	50	24	22.24	22.12	22.13	23.5	2	
20	16QAM	50	50	22.16	22.10	22.03			
20	16QAM	100	0	22.20	22.07	22.10			
20	64QAM	1	0	22.45	22.44	22.33			
20	64QAM	1	49	22.44	22.32	22.31	23.5	2	
20	64QAM	1	99	22.28	22.26	22.25			
20	64QAM	50	0	21.24	21.21	21.16			
20	64QAM	50	24	21.20	21.10	21.09	22.5	3	
20	64QAM	50	50	21.23	21.16	21.11			
20	64QAM	100	0	21.28	21.16	21.17			
20	256QAM	1	0	19.11	19.15	19.16			
20	256QAM	1	49	19.21	19.24	19.23	20.5	5	
20	256QAM	1	99	19.15	19.17	19.16			
20	256QAM	50	0	19.32	19.31	19.28			
20	256QAM	50	24	19.14	19.18	19.12	20.5	5	
20	256QAM	50	50	19.22	19.20	19.14			
20	256QAM	100	0	19.24	19.20	19.25			
Channel									
Frequency (MHz)				1773	1745	1772.5	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	24.11	24.05	24.05	25.5	0	
15	QPSK	1	37	24.04	24.05	23.94			
15	QPSK	1	74	23.98	23.94	23.87			
15	QPSK	36	0	23.14	23.08	23.03	24.5	1	
15	QPSK	36	20	23.17	23.11	23.02			
15	QPSK	36	39	23.11	23.11	23.02			
15	QPSK	75	0	23.16	23.06	22.99			
15	16QAM	1	0	23.39	23.39	23.38	24.5	1	
15	16QAM	1	37	23.41	23.32	23.29			
15	16QAM	1	74	23.35	23.11	23.28			
15	16QAM	36	0	22.14	22.14	22.04			
15	16QAM	36	20	22.19	22.06	22.06	23.5	2	
15	16QAM	36	39	22.14	22.00	22.03			
15	16QAM	75	0	22.17	22.08	21.98			
15	64QAM	1	0	22.37	22.34	22.36			
15	64QAM	1	37	22.36	22.20	22.23	23.5	2	
15	64QAM	1	74	22.27	22.18	22.23			
15	64QAM	36	0	21.20	21.10	21.11	22.5	3	
15	64QAM	36	20	21.25	21.20	21.04			
15	64QAM	36	39	21.23	21.17	20.95			
15	64QAM	75	0	21.23	21.15	21.06			
15	256QAM	1	0	19.11	19.15	19.15	20.5	5	
15	256QAM	1	37	19.21	19.24	19.22			
15	256QAM	1	74	19.10	19.12	19.16			
15	256QAM	36	0	19.21	19.24	19.20	20.5	5	
15	256QAM	36	20	19.13	19.19	19.14			
15	256QAM	75	0	19.17	19.19	19.16			
15	256QAM	75	0	19.24	19.19	19.27			
Channel									
Frequency (MHz)				1815	1845	1875	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	24.10	24.05	24.05	25.5	0	
10	QPSK	1	26	24.06	24.03	23.96			
10	QPSK	1	49	23.97	23.96	23.86			
10	QPSK	25	0	23.18	23.12	22.99	24.5	1	
10	QPSK	25	12	23.19	23.08	23.08			
10	QPSK	25	25	22.78	23.12	23.02			
10	QPSK	50	0	22.67	22.69	22.66			
10	16QAM	1	0	23.47	23.58	23.37	24.5	1	
10	16QAM	1	25	23.45	23.40	23.34			
10	16QAM	1	49	23.41	23.33	23.26			
10	16QAM	25	0	22.20	22.11	22.02			
10	16QAM	25	12	22.21	22.12	22.08	23.5	2	
10	16QAM	25	25	22.11	22.06	21.97			
10	16QAM	50	0	22.20	22.08	21.99			
10	16QAM	1	0	22.69	22.69	22.68			
10	64QAM	1	25	22.51	22.54	22.40	23.5	2	
10	64QAM	1	49	22.48	22.43	22.31			
10	64QAM	25	0	21.29	21.16	21.06	22.5	3	
10	64QAM	25	12	21.28	21.20	21.14			
10	64QAM	25	25	21.23	21.19	21.06			
10	256QAM	1	0	19.12	19.15	19.15	20.5	5	
10	256QAM	1	25	19.10	19.11	19.14			
10	256QAM	1	49	19.09	19.07	19.10			
10	256QAM	25	0	19.17	19.16	19.17	20.5	5	
10	256QAM	25	12	19.12	19.10	19.14			
10	256QAM	25	25	19.06	19.04	19.10			
10	256QAM	50	0	19.11	19.12	19.09			
Channel									
Frequency (MHz)				1812.5	1845	1877.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	24.11	23.97	23.95	25.5	0	
5	QPSK	1	12	24.12	24.07	23.96			
5	QPSK	1	24	24.05	24.00	23.86			
5	QPSK	12	0	23.19	23.10	23.05	24.5	1	
5	QPSK	12	7	23.22	23.12	23.07			
5	QPSK	12	19	23.12	23.14	23.00			
5	QPSK	25	0	23.15	23.10	23.01			
5	16QAM	1	0	23.45	23.33	23.29	24.5	1	
5	16QAM	1	12	23.43	23.40	23.33			
5	16QAM	1	24	23.41	23.40	23.30			
5	16QAM	12	0	22.20	22.17	22.05			
5	16QAM	12	7	22.19	22.12	22.08	23.5	2	
5	16QAM	12	19	22.18	22.15	22.03			
5	16QAM	25	0	22.18	22.13	22.02			
5	64QAM	1	0	22.46	22.36	22.29	23.5	2	
5	64QAM	1	12	22.42	22.36	22.25			
5	64QAM	1	24	22.33	22.31	22.20			
5	64QAM	12	0	21.20	21.18	21.09	22.5	3	
5	64QAM	12	7	21.26	21.22	21.12			
5	64QAM	12	19	21.25	21.20	21.12			
5	64QAM	25	0	21.25	21.18	21.13			
5	256QAM	1	0	19.11	19.18	19.13	20.5	5	
5	256QAM	1	12	19.15	19.16	19.14			
5	256QAM	1	24	19.14	19.10	19.17			
5	256QAM	12	0	19.20	19.21	19.19			
5	256QAM	12	7	19.14	19.15	19.13	20.5	5	
5	256QAM	12	19	19.02	19.20	19.21			
5	256QAM	25	0	19.13	19.17	19.14			
Channel									
Frequency (MHz)				1818.7	1822.2	1826.7	Tune-up limit (dBm)	MPR (dB)	
3	QPSK	1	0	24.12	24.00	23.93	25.5	0	
3	QPSK	1	8	24.00	24.12	24.01			
3	QPSK	1	16	24.10	24.04	23.91			
3	QPSK	8	0	23.21	23.07	23.03	24.5	1	
3	QPSK	8	4	23.20	23.19	23.02			
3	QPSK	8	7	23.20	23.15	23.04			
3	QPSK	15	0	23.18	23.08	23.00			
3	16QAM	1	0	23.43	23.34	23.28	24.5	1	
3	16QAM	1	8	23.40	23.49	23.33			
3	16QAM	1	16	23.42	23.32	23.30			
3	16QAM	8	0	22.23	22.16	22.10	23.5	2	
3	16QAM	8	4	22.27	22.25	22.13			
3	16QAM	8	7	22.22	22.20	22.07			
3	16QAM	15	0	22.21	22.10	22.08			
3	64QAM	1	0	22.44	22.32	22.29	23.5	2	
3	64QAM	1	8	22.47	22.44	22.35			
3	64QAM	1	16	22.39	22.35	22.29			
3	64QAM	8	0	21.33	21.18	21.12	22.5	3	
3	64QAM	8	4	21.29	21.28	21.18			
3	64QAM	8	7	21.29	21.26	21.10			
3	64QAM	15	0	21.27	21.13	21.12			
3	256QAM	1	0	19.12	19.11	19.17	20.5	5	
3	256QAM	1	8	19.15	19.16	19.20			
3	256QAM	1	16	19.14	19.13	19.12			
3	256QAM	8	0	19.17	19.18	19.22			
3	256QAM	8	4	19.09	19.08	19.01	20.5	5	
3	256QAM	8	7	19.13	19.14	19.11			
3	256QAM	15	0	19.15	19.13	19.12			
Channel									
Frequency (MHz)				1870.9	1872.2	1873.5	Tune-up limit (dBm)	MPR (dB)	
1.4	QPSK	1	0	25.77	24.91	23.85	25.5	0	
1.4	QPSK	1	3	24.03	24.05	23.90			
1.4	QPSK	1	5	23.96	24.00	23.90			
1.4	QPSK	3	0	24.09	24.01	23.90	24.5	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)				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			
20	64QAM	1	49	22.23	22.21	22.25	22.5	3	
20	64QAM	1	99	22.28	22.30	22.32			
20	64QAM	50	0	21.42	21.40	21.39			
20	64QAM	50	24	21.42	21.43	21.39	20.5	5	
20	64QAM	50	50	21.51	21.48	21.46			
20	64QAM	100	0	21.53	21.50	21.44			
20	256QAM	1	0	19.27	19.46	19.46	20.5	5	
20	256QAM	1	49	19.18	19.62	19.22			
20	256QAM	1	99	19.46	19.27	19.34			
20	256QAM	50	0	19.51	19.46	19.25	20.5	5	
20	256QAM	50	24	19.02	19.24	19.16			
20	256QAM	50	50	19.35	19.63	19.43			
20	256QAM	100	0	19.42	19.46	19.75	Tune-up limit (dbm) MPR (dB)		
Channel				37825	38000	38175			
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)				2575	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			
10	64QAM	1	25	22.40	22.42	22.38	23.5	2	
10	64QAM	1	49	22.44	22.38	22.49			
10	64QAM	25	0	21.50	21.42	21.42			
10	64QAM	25	12	21.52	21.56	21.51	22.5	3	
10	64QAM	25	25	21.48	21.56	21.51			
10	64QAM	50	0	21.52	21.49	21.50			
10	256QAM	1	0	19.07	19.25	19.34	20.5	5	
10	256QAM	1	25	19.12	19.62	19.64			
10	256QAM	1	49	19.25	19.35	19.52			
10	256QAM	25	0	19.35	19.25	19.25	20.5	5	
10	256QAM	25	12	19.25	19.34	19.34			
10	256QAM	25	25	19.36	19.45	19.24			
10	256QAM	50	0	19.75	19.63	19.65	Tune-up limit (dbm) MPR (dB)		
Channel				37775	38000	38225			
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			
5	64QAM	1	12	22.33	22.35	22.31	23.5	2	
5	64QAM	1	24	22.25	22.37	22.36			
5	64QAM	12	0	21.56	21.47	21.44			
5	64QAM	12	7	21.58	21.57	21.51	22.5	3	
5	64QAM	12	13	21.44	21.54	21.48			
5	64QAM	25	0	21.54	21.51	21.51			
5	256QAM	1	0	19.25	19.23	19.27	20.5	5	
5	256QAM	1	12	19.15	19.16	19.20			
5	256QAM	1	24	19.24	19.27	19.26			
5	256QAM	12	0	19.32	19.34	19.33	20.5	5	
5	256QAM	12	7	19.12	19.18	19.10			
5	256QAM	12	13	19.24	19.25	19.24			
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	24.41	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	23.26	23.48	23.31	23.25			
20	QPSK	50	24	23.42	23.39	23.45	23.31	23.23			
20	QPSK	50	50	23.47	23.38	23.42	23.39	23.20	24.5	1	
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	24.5	1	
20	16QAM	1	49	23.38	23.28	23.38	23.34	23.20			
20	16QAM	1	99	23.42	23.35	23.44	23.42	23.31			
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	50	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	23.5	2	
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			
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	22.5	3	
20	64QAM	100	0	21.51	21.44	21.52	21.39	21.32			
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	19.34			
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			
15	QPSK	36	39	23.42	23.32	23.41	23.35	23.18	24.5	1	
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			
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	23.5	2	
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			
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	23.5	2	
15	64QAM	1	74	22.17	22.18	22.27	22.20	22.03			
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			
15	256QAM	36	20	19.42	19.63	19.72	19.45	19.52	50.5	5	
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	2543.5	2593	2637.5	2682.5			
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			
10	QPSK	25	12	23.48	23.39	23.50	23.38	23.22	24.5	1	
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			
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	23.5	2	
10	16QAM	25	12	22.50	22.42	22.42	22.36	22.28			
10	16QAM	25	25	22.48	22.39	22.43	22.44	22.22			
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	23.5	2	
10	64QAM	1	49	22.43	22.31	22.37	22.30	22.13			
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			
10	256QAM	25	12	19.25	19.35	19.65	19.77	19.65	20.5	5	
10	256QAM	25	12	19.46	19.56	19.46	19.24	19.54			
10	256QAM	50	0	19.54	19.62	19.52	19.42	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	12	0	23.49	23.32	23.44	23.39	23.20			
5	QPSK	12	7	23.52	23.35	23.50	23.39	23.20			
5	QPSK	12	13	23.49	23.35	23.48	23.39	23.23	24.5	1	
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			
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	23.5	2	
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			
5	16QAM	25	0	22.52	22.47	22.45	22.41	22.25			
5	16QAM	1	0	22.30	22.16	22.22	22.14	22.00			
5	16QAM	1	12	22.33	22.16	22.26	22.23	22.01	23.5	2	
5	64QAM	1	24	22.34	22.16	22.25	22.20	22.01			
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	1	0	21.49	21.33	21.46	21.37	21.20	22.5	3	
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			
5	256QAM	12	7	19.12	19.21	19.14	19.32	19.02	20.5	5	
5	256QAM	13	0	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	824.2	836.4	848.8	824.2
Frequency (MHz)	824.2	836.4	848.8		824.2	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)
TX Channel		4132	4182	4233	
Rx Channel		4357	4407	4458	824.2
Frequency (MHz)		824.4	829.4	846.5	
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	Power (dBm)	Power (dBm)	Power (dBm)	Time-up (min)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.17	175.0	175.0	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	21.16	21.23						
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	1	49	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	99	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	19.05	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	175.0	175.0	24	0				
15	QPSK	1	97	22.09	22.22	22.17						
15	QPSK	1	74	22.01	22.09	22.06						
15	QPSK	50	0	21.16	21.16	21.14						
15	QPSK	1	98	21.16	21.08	21.08	23	1				
15	QPSK	36	36	21.08	21.10	21.15						
15	QPSK	75	0	20.85	20.85	20.15						
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	20.84	20.36	20.26						
15	HQAM	1	37	20.81	20.82	20.82						
15	HQAM	1	74	20.17	20.27	20.31	22	2				
15	HQAM	1	37	20.17	20.17	20.17						
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	17.01	17.09	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						
15	DSSS	75	0	17.17	17.09	17.02						
15	DSSS	75	0	17.17	17.09	17.02						
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.09	175.0	175.0	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	50	0	21.06	21.10	21.10						
10	QPSK	50	0	21.04	21.01	21.02						
10	HQAM	1	0	21.43	21.42	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						
10	DSSS	50	0	17.15	17.02	17.06						
10	DSSS	50	0	17.15	17.02	17.06						
Channel												
Frequency (MHz)												
3	QPSK	1	0	22.14	22.23	22.16	24	0				
3	QPSK	1	8	22.06	22.07	22.01						
3	QPSK	1	14	22.11	22.09	22.09						
3	QPSK	8	0	21.14	21.16	21.15						
3	QPSK	8	4	21.13	21.05	21.06	23	1				
3	QPSK	8	7	21.05	21.08	21.16						
3	QPSK	15	0	21.11	21.12	21.12						
3	QPSK	1	14	22.11	22.09	22.09	23	1				
3	HQAM	1	8	21.12	21.12	21.12						
3	HQAM	1	8	21.27	21.28	21.31						
3	HQAM	1	14	21.12	21.24	21.21						
3	HQAM	8	0	20.07	20.12	20.15	22	2				
3	HQAM	8	7	20.12	20.11	20.11						
3	HQAM	8	4	20.13	20.03	20.14						
3	HQAM	1	0	20.58	20.31	20.26	22	2				
3	HQAM	1	8	20.07	20.07	20.11						
3	HQAM	1	14	20.16	20.36	20.33						
3	HQAM	8	0	19.36	19.10	19.12	21	3				
3	HQAM	8	7	19.33	19.03	19.03						
3	HQAM	8	7	19.32	19.14	19.17						
3	DSSS	1	8	17.02	17.10	17.06	19	5				
3	DSSS	1	14	17.14	17.17	17.16						
3	DSSS	1	14	17.02	17.25	17.25						
3	DSSS	8	0	17.06	17.17	17.17	19	5				
3	DSSS	8	4	17.01	17.19	17.02						
3	DSSS	8	7	17.03	17.19	17.02						
3	DSSS	15	0	17.18	17.10	17.05	19	5				
3	DSSS	15	0	17.18	17.10	17.05						
3	DSSS	15	0	17.18	17.10	17.05						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	22.14	22.23	22.16	24	0				
1.4	QPSK	1	8	22.06	22.07	22.01						
1.4	QPSK	1	14	22.11	22.09	22.09						
1.4	QPSK	8	0	21.14	21.16	21.15						
1.4	QPSK	8	4	21.13	21.05	21.06	23	1				
1.4	QPSK	8	7	21.05	21.08	21.16						
1.4	QPSK	15	0	21.11	21.12	21.12						
1.4	QPSK	1	14	22.11	22.09	22.09	23	1				
1.4	HQAM	1	8	21.12	21.12	21.12						
1.4	HQAM	1	8	21.27	21.28	21.31						
1.4	HQAM	1	14	21.12	21.24	21.21						
1.4	HQAM	8	0	20.07	20.12	20.15	22	2				
1.4	HQAM	8	7	20.12	20.11	20.11						
1.4	HQAM	8	4	20.13	20.03	20.14						
1.4	HQAM	1	0	20.58	20.31	20.26	22	2				
1.4	HQAM	1	8	20.07	20.07	20.11						
1.4	HQAM	1	14	20.16	20.36	20.33						
1.4	HQAM	8	0	19.36	19.10	19.12	21	3				
1.4	HQAM	8	7	19.33	19.03	19.03						
1.4	HQAM	8	7	19.32	19.14	19.17						
1.4	DSSS	1	8	17.02	17.10	17.06	19	5				
1.4	DSSS	1	14	17.14	17.17	17.16						
1.4	DSSS	1	14	17.02	17.25	17.25						
1.4	DSSS	8	0	17.06	17.17	17.17	19	5				
1.4	DSSS	8	4	17.01	17.19	17.02						
1.4	DSSS	8	7	17.03	17.19	17.02						
1.4	DSSS	15	0	17.18	17.10	17.05	19	5				
1.4	DSSS	15	0	17.18	17.10	17.05						
1.4	DSSS	15	0	17.18	17.10	17.05						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	22.14	22.23	22.16	24	0				
1.4	QPSK	1	8	22.06	22.07	22.01						
1.4	QPSK	1	14	22.11	22.09	22.09						
1.4	QPSK	8	0	21.14	21.16	21.15						
1.4	QPSK	8	4	21.13	21.05	21.06	23	1				
1.4	QPSK	8	7	21.05	21.08	21.16						
1.4	QPSK	15	0	21.11	21.12	21.12						
1.4	QPSK	1	14	22.11	22.09	22.09	23	1				
1.4	HQAM	1	8	21.12	21.12	21.12						
1.4	HQAM	1	8	21.27	21.28	21.31						
1.4	HQAM	1	14	21.12	21.24	21.21						
1.4	HQAM	8	0	20.07	20.12	20.15	22	2				
1.4	HQAM	8	7	20.12	20.11	20.11						
1.4	HQAM	8	4	20.13	20.03	20.14						
1.4	HQAM	1	0	20.58	20.31	20.26	22	2				
1.4	HQAM	1	8	20.07	20.07	20.11						
1.4	HQAM	1	14	20.16	20.36	20.34						
1.4	HQAM	8	0	19.36	19.10	19.12						

Band 12 (700MHz Low Band)												
Part 27F(only on channel required)												
RF BW (MHz)	Modulation	RB Size	RB Offset	Channel	Power Low Ch. Freq. 23566	Power Mid Ch. Freq. 23666	Power High Ch. Freq. 23766	Tune-up Int. (dBm)	MPR (dB)			
Frequency (MHz)												
10	QPSK	1	0	21.55	21.52	21.51		23	0			
10	QPSK	1	25	21.42	21.48	21.51						
10	QPSK	1	49	21.51	21.57	21.58						
10	QPSK	25	0	20.52	20.57	20.62		22	1			
10	QPSK	25	12	20.63	20.58	20.59						
10	QPSK	25	25	20.60	20.65	20.69						
10	QPSK	50	0	20.55	20.81	20.59		22	1			
10	16QAM	1	0	20.58	20.87	20.59						
10	16QAM	1	25	20.61	20.62	20.60						
10	16QAM	1	49	20.70	20.76	20.65		21	2			
10	16QAM	25	0	19.58	19.59	19.63						
10	16QAM	25	12	19.67	19.62	19.62						
10	16QAM	25	25	19.62	19.66	19.59		21	2			
10	16QAM	50	0	19.66	19.60	19.62						
10	16QAM	1	0	19.44	19.44	19.41						
10	16QAM	1	25	19.35	19.43	19.47		21	2			
10	16QAM	1	49	19.46	19.57	19.58						
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	18.06	18.51	18.57		18	5			
10	25QAM	1	25	18.05	18.48	18.48						
10	25QAM	1	49	18.51	18.53	18.52						
10	25QAM	25	0	18.48	18.48	18.47		18	5			
10	25QAM	25	12	18.53	18.53	18.53						
10	25QAM	25	25	18.49	18.50	18.54						
10	25QAM	50	0	18.44	18.42	18.47		Turn-up Int. (dBm)	MPR (dB)			
10	25QAM	50	0	18.44	18.42	18.47						
10	25QAM	50	0	18.44	18.42	18.47						
Frequency (MHz)												
5	QPSK	1	0	21.60	21.50	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		22	1			
5	QPSK	12	7	20.60	20.68	20.67						
5	QPSK	12	13	20.61	20.62	20.60						
5	QPSK	25	0	20.58	20.59	20.59		22	1			
5	16QAM	1	0	20.54	20.58	20.55						
5	16QAM	1	12	20.55	20.59	20.60						
5	16QAM	1	24	20.58	20.63	20.63		21	2			
5	16QAM	12	0	19.60	19.64	19.63						
5	16QAM	12	7	19.67	19.70	19.68						
5	16QAM	12	13	19.60	19.64	19.63		21	2			
5	16QAM	25	0	19.59	19.63	19.65						
5	16QAM	1	0	19.26	19.28	19.27						
5	16QAM	1	12	19.32	19.27	19.35		21	2			
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		18	5			
5	25QAM	1	0	18.50	18.48	18.47						
5	25QAM	1	12	18.45	18.42	18.41						
5	25QAM	1	24	18.45	18.43	18.42		18	5			
5	25QAM	12	0	18.52	18.51	18.50						
5	25QAM	12	7	18.51	18.56	18.52						
5	25QAM	12	13	18.42	18.48	18.47		Turn-up Int. (dBm)	MPR (dB)			
5	25QAM	25	0	18.52	18.49	18.54						
5	25QAM	25	0	18.52	18.49	18.54						
Frequency (MHz)												
1.4	QPSK	1	0	21.47	21.50	21.58		23	0			
1.4	QPSK	1	8	21.50	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		22	1			
1.4	QPSK	8	4	20.62	20.63	20.60						
1.4	QPSK	8	7	20.55	20.57	20.64						
1.4	QPSK	15	0	20.58	20.65	20.68		22	1			
1.4	16QAM	1	0	20.59	20.68	20.68						
1.4	16QAM	1	8	20.62	20.70	20.67						
1.4	16QAM	1	14	20.58	20.69	20.67		21	2			
1.4	16QAM	8	0	19.61	19.66	19.65						
1.4	16QAM	8	4	19.63	19.69	19.68						
1.4	16QAM	8	7	19.62	19.66	19.67		21	2			
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		18	5			
1.4	25QAM	1	8	18.58	18.70	18.54						
1.4	25QAM	1	14	18.54	18.52	18.58						
1.4	25QAM	8	0	18.53	18.59	18.55		18	5			
1.4	25QAM	8	4	18.60	18.70	18.69						
1.4	25QAM	8	7	18.55	18.46	18.53						
1.4	25QAM	15	0	18.58	18.74	18.72		Turn-up Int. (dBm)	MPR (dB)			
1.4	25QAM	25	0	18.57	18.67	18.63						
1.4	25QAM	25	0	18.57	18.67	18.63						
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		23	1			
1.4	QPSK	3	1	21.47	21.53	21.47						
1.4	QPSK	3	3	21.59	21.46	21.48						
1.4	QPSK	6	0	20.59	20.58	20.55		22	1			
1.4	16QAM	1	0	20.64	20.45	20.48						
1.4	16QAM	1	3	20.55	20.58	20.57						
1.4	16QAM	1	5	20.43	20.52	20.49		22	1			
1.4	16QAM	3	0	20.50	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		21	2			
1.4	16QAM	6	0	19.67	19.61	19.61						
1.4	16QAM	1	0	19.44	19.38	19.39						
1.4	16QAM	1	3	19.53	19.51	19.59		21	2			
1.4	16QAM	1	6	19.48	19.47	19.52						
1.4	16QAM	3	0	19.31	19.34	19.33						
1.4	16QAM	3	1	19.35	19.45	19.42		20	3			
1.4	16QAM	3	3	19.32	19.37	19.36						
1.4	16QAM	6	0	18.32	18.32	18.34						
1.4	25QAM	1	0	18.59	18.50	18.47		18	5			
1.4	25QAM	1	3	18.59	18.54	18.49						
1.4	25QAM	1	5	18.34	18.40	18.43						
1.4	25QAM	3	0	18.46	18.49	18.44		Turn-up Int. (dBm)	MPR (dB)			
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 27H(only on channel required)											
ISD (Miles)	Modulation	RF Sigs	ISD (Ctts)	Power (W)	Power (W)	Power (W)	Power (W)	Power (W)	Power (W)	Total BW (MHz)	MFRS (MHz)
				Chs 1-12	Chs 13-14	Chs 15-16	Chs 17-18	Chs 19-20	Chs 21-22		
Frequency (MHz)				710	710	710	710	710	710		
5	QPSK	1	8	21.55	21.55	21.55	21.42			22	0
	QPSK	1	8	21.55	21.55	21.55	21.42				
	QPSK	1	48	21.56	21.50	21.50					
	QPSK	20	12	20.51	20.47	20.51					
	QPSK	20	25	20.44	20.44	20.51					
10	QPSK	20	25	20.55	20.65	20.65	20.65			22	1
	QPSK	50	12	20.62	20.54	20.65	20.65				
	QPSK	20	48	20.55	20.55	20.65					
	QPSK	1	20	20.58	20.60	20.65					
	QPSK	20	48	20.55	20.72	20.65					
15	QPSK	20	48	19.55	19.55	19.55	19.55			21	2
	QPSK	25	12	19.62	19.68	19.68					
	QPSK	20	48	19.55	19.73	19.68					
	QPSK	50	12	19.62	19.68	19.68					
	QPSK	20	48	19.55	19.73	19.68					
20	QPSK	1	48	18.54	18.54	18.54	18.54			21	2
	QPSK	1	48	18.53	18.53	18.54	18.54				
	QPSK	20	12	18.57	18.69	18.54	18.54				
	QPSK	20	25	18.63	18.65	18.65					
	QPSK	20	48	18.56	18.66	18.65					
30	QPSK	1	48	16.55	16.51	16.54	16.54			18	5
	QPSK	20	12	16.55	16.48	16.58	16.58				
	QPSK	20	48	16.55	16.53	16.55	16.55				
	QPSK	20	12	16.43	16.43	16.48	16.48				
	QPSK	25	12	16.44	16.53	16.52	16.52				
40	QPSK	1	48	14.58	14.52	14.51	14.51			18	5
	QPSK	20	12	14.58	14.52	14.51	14.51				
	QPSK	20	48	14.58	14.52	14.51	14.51				
	QPSK	20	12	14.43	14.43	14.48	14.48				
	QPSK	25	12	14.44	14.53	14.52	14.52				
Power				20.65	20.65	20.65	20.65			Total BW (MHz)	MFRS (MHz)
Frequency (MHz)				719.5	719.5	719.5	719.5				
5	QPSK	1	8	21.45	21.45	21.45	21.45			22	0
	QPSK	1	12	21.47	21.52	21.54	21.47				
	QPSK	1	12	21.47	21.53	21.57	21.47				
	QPSK	12	12	20.52	20.54	20.57	20.52				
	QPSK	12	20	20.63	20.63	20.65	20.63				
10	QPSK	20	25	20.67	20.67	20.67	20.67			22	1
	QPSK	20	25	20.67	20.61	20.61	20.67				
	QPSK	20	48	20.54	20.54	20.54	20.54				
	QPSK	1	12	20.51	20.51	20.58	20.51				
	QPSK	1	24	20.51	20.70	20.70	20.54				
15	QPSK	20	48	19.53	19.57	19.57	19.53			21	2
	QPSK	12	7	19.55	19.65	19.64	19.55				
	QPSK	17	13	19.61	19.62	19.64	19.61				
	QPSK	1	48	19.51	19.64	19.63	19.51				
	QPSK	1	10	19.65	19.70	19.72	19.65				
20	QPSK	1	12	18.60	18.70	18.68	18.60			20	3
	QPSK	1	12	18.74	18.65	18.73	18.74				
	QPSK	12	13	18.54	18.58	18.61	18.54				
	QPSK	12	13	18.54	18.63	18.67	18.54				
	QPSK	12	13	18.59	18.66	18.65	18.59				
30	QPSK	20	12	16.50	16.55	16.55	16.50			18	5
	QPSK	1	24	16.42	16.41	16.46	16.42				
	QPSK	1	24	16.58	16.58	16.58	16.58				
	QPSK	12	7	16.42	16.45	16.45	16.42				
	QPSK	20	25	16.42	16.42	16.42	16.42				
40	QPSK	20	25	16.43	16.42	16.41	16.43			18	5

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)												
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	21.68	21.72	21.69						
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	24	20.80	20.67	20.75						
20	16QAM	50	50	20.82	20.84	20.91						
20	16QAM	100	0	20.71	20.81	20.67	21.5	2				
20	64QAM	1	0	20.85	20.68	20.72						
20	64QAM	1	49	20.67	20.75	20.85						
20	64QAM	1	99	20.76	20.90	20.83	21.5	2				
20	64QAM	50	0	19.86	19.84	19.94						
20	64QAM	50	24	19.85	20.05	19.94						
20	64QAM	50	50	19.99	19.99	19.98	20.5	3				
20	64QAM	100	0	20.10	20.03	19.93						
20	256QAM	1	0	17.54	17.79	17.59						
20	256QAM	1	49	17.73	17.65	17.74	18.5	5				
20	256QAM	1	99	17.67	17.69	17.70						
20	256QAM	50	0	16.71	16.96	16.67						
20	256QAM	50	24	16.85	16.77	16.61	18.5	5				
20	256QAM	50	50	16.69	16.74	16.90						
20	256QAM	100	0	16.60	16.72	16.69						
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.67	22.66	22.59	23.5	0				
15	QPSK	1	37	22.58	22.60	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	20.69	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	16.63	16.58	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.65	22.71	22.61	23.5	0				
10	QPSK	1	25	22.56	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						
10	64QAM	1	25	20.76	20.96	20.86	21.5	2				
10	64QAM	1	49	20.75	20.87	20.76						
10	64QAM	25	0	19.99	19.92	19.88						
10	64QAM	25	12	19.98	20.07	20.04	20.5	3				
10	64QAM	25	25	19.99	20.05	20.07						
10	64QAM	50	0	20.03	20.01	20.02						
10	256QAM	1	0	17.83	17.50	17.58	18.5	5				
10	256QAM	1	25	17.19	18.02	17.44						
10	256QAM	1	49	17.50	17.57	17.30						
10	256QAM	25	0	16.36	16.52	16.36	18.5	5				
10	256QAM	25	12	16.55	16.72	16.79						
10	256QAM	25	25	17.17	17.09	17.08						
10	256QAM	50	0	17.27	16.75	16.54	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.75	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	20.78	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						
5	64QAM	1	12	20.80	20.90	20.91	21.5	2				
5	64QAM	1	24	20.74	20.90	20.86						
5	64QAM	12	0	20.03	19.97	19.99						
5	64QAM	12	7	19.96	20.08	20.07	20.5	3				
5	64QAM	12	13	19.93	20.04	20.06						
5	256QAM	25	0	20.05	20.02	20.03						
5	256QAM	1	0	17.95	17.19	17.88	18.5	5				
5	256QAM	1	12	17.97	17.61	17.95						
5	256QAM	1	24	17.28	17.80	17.23						
5	256QAM	12	0	16.76	16.89	17.17	18.5	5				
5	256QAM	12	7	16.85	16.76	17.07						
5	256QAM	12	13	16.43	17.07	16.63						
5	256QAM	25	0	17.17	16.56	17.28	Tune-up limit (dBm)	MPR (dB)				

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 Power High Middle Ch. / Freq.	Power Power High Ch. / Freq.		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.78	22.64	22.87	22.72	22.72	23.5	0
20	QPSK	1	49	22.69	22.63	22.63	22.69	22.67		
20	QPSK	1	99	22.67	22.64	22.50	22.81	22.76	22.5	1
20	QPSK	50	0	21.81	21.76	21.95	21.85	21.85		
20	QPSK	50	24	21.87	21.77	21.75	21.83	21.80	22.5	1
20	QPSK	50	50	21.77	21.85	21.87	21.85	21.87		
20	QPSK	100	0	21.86	21.81	21.87	21.76	21.80	22.5	1
20	16QAM	1	0	21.74	21.87	21.72	21.91	21.78		
20	16QAM	1	49	21.73	21.72	21.64	21.80	21.83	22.5	1
20	16QAM	50	0	21.84	21.79	21.81	21.86	21.84		
20	16QAM	50	0	20.86	20.78	20.71	20.75	20.77	21.5	2
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	20.87		
20	64QAM	1	0	20.74	20.79	20.73	20.71	20.70	21.5	2
20	64QAM	1	49	20.76	20.74	20.57	20.81	20.77		
20	64QAM	1	99	20.83	20.85	20.65	20.80	20.94	20.5	3
20	64QAM	50	0	19.92	19.99	19.78	19.98	19.95		
20	64QAM	50	24	19.92	19.86	19.90	20.06	19.98	20.5	3
20	64QAM	50	50	19.96	20.00	19.93	20.07	19.87		
20	64QAM	100	0	20.11	20.09	19.94	20.10	19.96	18.5	5
20	256QAM	1	0	17.87	17.76	17.75	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	18.5	5
20	256QAM	50	24	16.85	16.89	16.74	16.83	16.81		
20	256QAM	50	50	16.87	16.76	16.76	16.87	16.87	18.5	5
20	256QAM	100	0	16.78	16.77	16.82	16.74	16.81		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.56	22.65	22.65	22.76	22.64	23.5	0
15	QPSK	1	37	22.63	22.67	22.67	22.67	22.64		
15	QPSK	1	74	22.67	22.75	22.84	22.75	22.64	22.5	1
15	QPSK	36	0	21.85	21.88	21.75	21.88	21.88		
15	QPSK	36	20	21.78	21.76	21.81	21.89	21.75	22.5	1
15	QPSK	36	39	21.79	21.79	21.82	21.90	21.79		
15	QPSK	75	0	21.86	21.79	21.88	21.90	21.79	22.5	1
15	16QAM	1	0	21.70	21.81	21.77	21.81	21.91		
15	16QAM	1	37	21.78	21.88	21.60	21.85	21.82	21.5	2
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	20.73		
15	16QAM	36	39	20.78	20.83	20.75	20.84	20.73	21.5	2
15	16QAM	75	0	20.86	20.72	20.86	20.88	20.83		
15	64QAM	1	0	20.70	20.75	20.70	20.75	20.70	21.5	2
15	64QAM	1	37	20.90	20.88	20.82	20.88	20.73		
15	64QAM	1	74	20.83	20.93	20.90	20.93	20.78	20.5	3
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	18.5	5
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	20.20	18.5	5
15	64QAM	1	0	17.77	17.43	17.22	18.01	17.61		
15	64QAM	1	37	17.45	17.78	17.86	18.08	17.67	18.5	5
15	64QAM	1	74	17.64	17.59	17.49	17.83	18.02		
15	64QAM	36	0	17.02	16.40	16.87	16.60	17.34	18.5	5
15	64QAM	36	20	16.89	17.01	16.42	17.27	16.33		
15	64QAM	36	39	16.69	16.40	16.78	16.90	16.99	18.5	5
15	64QAM	75	0	16.86	17.11	17.30	16.78	17.03		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.75	22.55	22.65	22.77	22.81	23.5	0
10	QPSK	1	25	22.71	22.59	22.78	22.86	22.67		
10	QPSK	1	49	22.77	22.68	22.79	22.84	22.69	22.5	1
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	22.5	1
10	QPSK	25	25	21.78	21.71	21.81	21.84	21.83		
10	QPSK	50	0	21.85	21.75	21.93	21.84	21.92	22.5	1
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	21.5	2
10	16QAM	1	49	21.84	21.63	21.90	21.86	21.80		
10	16QAM	25	0	20.90	20.55	20.75	20.74	20.63	21.5	2
10	16QAM	25	25	20.89	20.72	20.85	20.91	20.90		
10	16QAM	50	0	20.88	20.60	20.87	20.90	20.83	21.5	2
10	64QAM	1	0	20.88	20.87	20.97	20.77	20.89		
10	64QAM	1	25	20.73	21.11	20.85	21.10	20.75	21.5	2
10	64QAM	1	49	21.11	20.77	20.75	21.08	20.78		
10	64QAM	25	0	20.04	19.79	20.14	20.13	20.11	20.5	3
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	20.03	18.5	5
10	64QAM	50	0	20.07	19.93	20.11	20.11	20.09		
10	256QAM	1	0	18.06	17.47	18.14	18.02	17.91	18.5	5
10	256QAM	1	25	17.46	18.00	18.10	18.10	17.30		
10	256QAM	1	49	17.72	17.63	17.64	17.90	17.31	18.5	5
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	16.67		
10	256QAM	50	0	16.57	16.47	16.88	16.88	16.45	18.5	5
10	256QAM	50	12	16.57	16.47	16.88	16.88	16.45		
Channel										
Frequency (MHz)										
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	22.64	22.81	22.65		
5	QPSK	1	24	22.73	22.58	22.75	22.76	22.86	22.5	1
5	QPSK	12	0	21.88	21.67	21.86	21.81	21.84		
5	QPSK	12	7	21.86	21.72	21.85	21.97	21.83	22.5	1
5	QPSK	12	13	21.80	21.68	21.90	21.86	21.81		
5	QPSK	25	0	21.89	21.72	21.86	21.93	21.78	22.5	1
5	16QAM	1	0	21.87	21.62	21.77	21.90	21.85		
5	16QAM	1	12	21.82	21.66	21.80	21.87	22.02	21.5	2
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	20.88	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	20.5	3
5	16QAM	25	0	20.82	20.69	20.86	21.00	20.85		
5	16QAM	1	0	20.88	20.66	20.85	20.91	20.88	21.5	2
5	64QAM	1	12	20.82	20.66	20.94	21.00	20.87		
5	64QAM	1	24	20.87	20.73	20.88	20.89	20.83	20.5	3
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	18.5	5
5	64QAM	12	13	20.05	19.90	20.06	20.14	20.07		
5	64QAM	25	0	20.04	19.98	20.09	20.08	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	18.5	5
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	18.5	5
5	256QAM	12	7	16.47	16.27	17.55	16.35	16.77		
5	256QAM	12	13	17.25	16.45	16.56	17.05	17.21	18.5	5
5	256QAM	25	0	16.65	16.29	17.10	17.10	16.98		

Full Power for ANT4									
GSM1900		Burst Average Power (dBm)			Frame Average Power (dBm)			Turn-up Limit (dBm)	
TX Channel		512	661	810	Turn-up Limit (dBm)			Turn-up Limit (dBm)	
Frequency (MHz)		1850.2	1880	1909.8	1850.2	1880	1909.8		
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			Turn-up Limit (dBm)	
TX Channel		9262	9400	9538	Turn-up Limit (dBm)			Turn-up Limit (dBm)	
RX Channel		9682	9800	9938	1312	1413	1513		
Frequency (MHz)		1852.4	1880	1907.8	1712.4	1732.6	1752.6		
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	HS-SSA Subtest-1	23.01	23.16	23.12	24.00	23.09	23.08	23.13	24.00
3GPP Rel 6	HS-SSA Subtest-2	23.04	23.16	23.12	24.00	23.09	23.11	23.12	24.00
3GPP Rel 6	HS-SSA Subtest-3	22.56	22.65	22.63	23.50	22.59	22.57	22.64	23.50
3GPP Rel 6	HS-SSA Subtest-4	22.56	22.63	22.64	23.50	22.60	22.61	22.64	23.50
3GPP Rel 8	DC-HS-SSA Subtest-1	22.36	23.13	23.08	24.00	23.05	23.04	23.11	24.00
3GPP Rel 8	DC-HS-SSA Subtest-2	23.02	23.13	23.08	24.00	23.06	23.07	23.10	24.00
3GPP Rel 8	DC-HS-SSA Subtest-3	22.54	22.62	22.59	23.50	22.56	22.53	22.62	23.50
3GPP Rel 8	DC-HS-SSA Subtest-4	22.54	22.60	22.60	23.50	22.57	22.57	22.62	23.50
3GPP Rel 6	HS-SSA Subtest-1	23.05	23.13	23.08	24.00	23.06	23.09	23.08	24.00
3GPP Rel 6	HS-SSA Subtest-2	21.04	21.12	21.09	22.00	21.06	21.12	21.08	22.00
3GPP Rel 6	HS-SSA Subtest-3	22.03	22.13	22.09	23.00	22.07	22.08	22.09	23.00
3GPP Rel 6	HS-SSA Subtest-4	21.05	21.11	21.08	22.00	21.12	21.07	21.09	22.00
3GPP Rel 6	HS-SSA 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 High	Time-up (min)	APRS (dB)	
Part 24E										
Frequency (MHz)										
20	QPSK	1	0	24.38	24.40	24.33				
20	QPSK	1	48	24.31	24.24	24.28	25.5	0		
20	QPSK	1	96	24.22	24.18	24.25				
20	QPSK	50	0	23.38	23.33	23.40				
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	22.33	22.31	22.34				
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				
20	QPSK	1	48	22.65	22.66	22.67	23.5	2		
20	QPSK	1	96	22.53	22.47	22.55				
20	QPSK	50	0	21.49	21.37	21.38				
20	QPSK	50	24	21.51	21.45	21.50				
20	QPSK	50	50	21.46	21.45	21.47	22.5	3		
20	QPSK	100	0	21.46	21.43	21.48				
20	QPSK	1	48	19.38	19.35	19.35	20.5	5		
20	QPSK	1	96	19.38	19.38	19.38				
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	18.48				
20	QPSK	100	0	18.47	18.53	18.49				
Part 24E										
Frequency (MHz)										
16	QPSK	1	0	24.14	24.34	24.33				
16	QPSK	1	37	24.18	24.27	24.30	26.5	0		
16	QPSK	1	74	24.31	24.24	24.30				
16	QPSK	38	0	23.52	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	23.51	23.63	24.5	1		
16	QPSK	1	74	23.58	23.56	23.60				
16	QPSK	38	0	22.47	22.44	22.38				
16	QPSK	38	24	22.49	22.47	22.48	23.5	2		
16	QPSK	38	38	22.47	22.42	22.48				
16	QPSK	75	0	22.36	22.45	22.41				
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	21.46	21.45	21.48				
16	QPSK	38	24	21.50	21.43	21.48	22.5	3		
16	QPSK	38	38	21.49	21.48	21.49				
16	QPSK	1	0	19.11	19.35	19.29				
16	QPSK	1	37	19.17	19.27	19.31	20.5	5		
16	QPSK	1	74	19.35	19.22	19.31				
16	QPSK	38	0	18.29	18.48	18.42				
16	QPSK	38	24	18.26	18.41	18.46	20.5	5		
16	QPSK	38	38	18.41	18.43	18.42				
16	QPSK	75	0	18.45	18.42	18.38				
Part 24E										
Frequency (MHz)										
5	QPSK	1	0	24.11	24.24	24.27				
5	QPSK	1	12	24.26	24.26	24.28	25.5	0		
5	QPSK	1	24	24.19	24.30	24.37				
5	QPSK	12	0	23.34	23.34	23.40				
5	QPSK	12	7	23.33	23.40	23.52	24.5	1		
5	QPSK	12	15	23.33	23.43	23.45				
5	QPSK	25	0	23.23	23.38	23.43				
5	QPSK	1	0	23.41	23.61	23.64	24.5	1		
5	QPSK	1	24	23.56	23.59	23.68				
5	QPSK	1	24	23.54	23.65	23.72				
5	QPSK	12	0	22.46	22.46	22.46				
5	QPSK	12	7	22.50	22.48	22.49	23.5	2		
5	QPSK	12	15	22.47	22.44	22.48				
5	QPSK	25	0	22.42	22.45	22.48				
5	QPSK	1	0	22.42	22.54	22.58				
5	QPSK	1	12	22.48	22.51	22.58	23.5	2		
5	QPSK	1	24	22.48	22.58	22.64				
5	QPSK	12	0	21.34	21.37	21.38				
5	QPSK	12	7	21.47	21.44	21.45	22.5	3		
5	QPSK	12	15	21.44	21.42	21.49				
5	QPSK	25	0	21.38	21.44	21.41				
5	QPSK	1	0	19.08	19.28	19.31	20.5	5		
5	QPSK	1	12	19.30	19.40	19.46				
5	QPSK	1	24	19.25	19.47	19.50				
5	QPSK	12	0	18.23	18.37	18.38				
5	QPSK	12	7	18.41	18.35	18.42	20.5	5		
5	QPSK	12	15	18.35	18.42	18.45				
5	QPSK	25	0	18.16	18.38	18.33				
Part 24E										
Frequency (MHz)										
3	QPSK	1	0	24.13	24.25	24.36				
3	QPSK	1	8	24.24	24.31	24.38	25.5	0		
3	QPSK	1	14	24.17	24.28	24.30				
3	QPSK	8	0	23.50	23.36	23.43				
3	QPSK	8	7	23.50	23.42	23.47	24.5	1		
3	QPSK	15	0	23.28	23.43	23.43				
3	QPSK	1	0	23.41	23.62	23.67				
3	QPSK	1	8	23.53	23.71	23.72	24.5	1		
3	QPSK	1	14	23.50	23.67	23.71				
3	QPSK	8	0	22.45	22.45	22.48				
3	QPSK	8	4	22.48	22.48	22.52	23.5	2		
3	QPSK	8	7	22.47	22.46	22.51				
3	QPSK	15	0	22.44	22.45	22.47				
3	QPSK	1	0	22.38	22.53	22.61				
3	QPSK	1	8	22.57	22.58	22.65	23.5	2		
3	QPSK	1	14	22.48	22.58	22.67				
3	QPSK	8	0	21.42	21.43	21.45				
3	QPSK	8	4	21.49	21.43	21.49	22.5	3		
3	QPSK	8	7	21.42	21.43	21.48				
3	QPSK	15	0	21.42	21.45	21.49				
3	QPSK	1	0	19.09	19.22	19.29				
3	QPSK	1	8	19.22	19.28	19.34	20.5	5		
3	QPSK	1	14	19.09	19.30	19.38				
3	QPSK	8	0	18.28	18.30	18.40				
3	QPSK	8	7	18.28	18.41	18.43	20.5	5		
3	QPSK	8	15	18.28	18.48	18.52				
3	QPSK	15	0	18.35	18.44	18.54				
Part 24E										
Frequency (MHz)										
1.4	QPSK	1	0	24.05	24.17	24.28				
1.4	QPSK	1	3	24.07	24.28	24.32	25.5	0		
1.4	QPSK	1	6	24.02	24.20	24.28				
1.4	QPSK	1	9	24.01	24.23	24.30				
1.4	QPSK	3	0	24.18	24.28	24.32				
1.4	QPSK	6	0	23.21	23.34	23.37	24.5	1		
1.4	QPSK	1	0	23.32	23.38	23.39				
1.4	QPSK	1	3	23.31	23.31	23.37	24.5	1		
1.4	QPSK	1	6	23.28	23.38	23.47				
1.4	QPSK	3	0	23.33	23.32	23.36				
1.4	QPSK	6	0	22.40	22.41	22.51	23.5	2		
1.4	QPSK	1	0	22.51	22.44	22.51				
1.4	QPSK	1	3	22.42	22.44	22.51	23.5	2		
1.4	QPSK	1	6	22.38	22.40	22.47				
1.4	QPSK	1	9	22.35	22.37	22.41				
1.4	QPSK	3	0	21.35	21.32	21.38	22.5	3		
1.4	QPSK	6	0	21.32	21.33	21.34				
1.4	QPSK	1	0	19.03	19.30	19.34				
1.4	QPSK	1	3	19.04	19.21	19.25	20.5	5		
1.4	QPSK	1	6	19.02	19.20	19.28				
1.4	QPSK	1	9	19.21	19.30	19.37				
1.4	QPSK	3	0	18.11	18.16	18.18				
1.4	QPSK	6	0	18.11	18.16	18.18	20.5	5		

Band 66										
Ref ID	Modulation	Ref ID	Ref ID	Power Low Ch. (W)	Power Main 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	20.5	5		
20	QPSK	50	50	18.99	18.77	18.31				
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	23.39				
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	18.57	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	1	40	22.88	22.79	22.87				
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	20.5	5		
10	QPSK	1	20	19.59	19.58	19.38				
10	QPSK	1	40	19.58	19.37	19.28				
10	QPSK	20	0	18.85	18.83	18.51				
10	QPSK	20	12	18.81	18.87	18.57	20.5	5		
10	QPSK	20	20	18.89	18.88	18.52				
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	23.16	23.63	23.38				
5	QPSK	20	0	23.24	23.58	23.38				
5	QPSK	1	0	23.57	23.83	23.83	24.5	1		
5	QPSK	1	12	23.58	23.92	23.80				
5	QPSK	1	24	23.54	23.85	23.58				
5	QPSK	12	7	22.86	22.85	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	21.55	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	8	0	25.89	25.90	25.32				
3	QPSK	8	4	25.86	25.85	25.32	24.5	1		
3	QPSK	8	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	24.5	1		
3	QPSK	1	8	23.96	23.92	23.68				
3	QPSK	1	18	23.89	23.81	23.57				
3	QPSK	8	0	22.72	22.82	22.38	23.5	2		
3	QPSK	8	4	22.73	22.87	22.38				
3	QPSK	8	7	22.81	22.83	22.38				
3	QPSK	15	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	21.57	21.48	21.25				
3	QPSK	8	4	21.58	21.53	21.25	22.5	3		
3	QPSK	8	7	21.54	21.50	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	24.14				
1.4	QPSK	3	0	24.40	24.44	24.19				
1.4	QPSK	3	3	24.52	24.48	24.22				
1.4	QPSK	3	3	24.48	24.48	24.12	24.5	1		
1.4	QPSK	8	0	23.58	23.48	23.22				
1.4	QPSK	1	0	23.79	23.78	23.52				
1.4	QPSK	1	3	23.85	23.80					

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	50	22.30	22.34	22.30			
20	16QAM	100	0	22.21	22.21	22.20	23.5	2	
20	64QAM	1	0	21.98	21.94	21.88			
20	64QAM	1	49	21.92	21.86	21.91			
20	64QAM	1	99	21.91	21.93	22.03	22.5	3	
20	64QAM	50	0	21.05	21.08	21.07			
20	64QAM	50	24	21.08	21.08	21.05			
20	64QAM	50	50	21.15	21.18	21.15	20.5	5	
20	64QAM	100	0	21.17	21.18	21.15			
20	256QAM	1	0	19.11	19.18	19.18			
20	256QAM	1	49	19.03	19.06	19.20	20.5	5	
20	256QAM	1	99	19.11	19.05	19.23			
20	256QAM	50	0	18.13	18.25	18.14			
20	256QAM	50	24	18.29	18.18	18.09	20.5	5	
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)				2413	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	64QAM	1	0	22.16	22.12	22.14			
10	64QAM	1	25	22.04	22.12	22.10	22.5	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	Tune-up limit (dBm)	MPR (dB)	
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	21.24	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	Tune-up limit (dBm)	MPR (dB)	

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	23.28	23.27	23.11		
20	16QAM	50	0	22.32	22.31	22.14	22.18	22.18	22.17		
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	21.38	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	22.15	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	23.29	23.35	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	23.16		
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	18.26	18.20	18.26	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)				2502.5	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	12	13	23.30	23.31	23.21	23.23	23.27	23.13		
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	23.16		
5	16QAM	1	12	23.45	23.42	23.29	23.36	23.34	23.23	24.5	1
5	16QAM	1	24	23.45	23.38	23.25	23.32	23.31	23.17		
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	23.5	2
5	16QAM	25	0	22.33	22.31	22.22	22.28	22.29	22.19		
5	16QAM	25	12	22.31	22.14	21.93	22.01	22.17	21.91		
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	22.5	3
5	64QAM	12	0	21.28	21.27	21.10	21.21	21.15	21.08		
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	256QAM	25	0	21.30	21.29	21.21	21.21	21.24	21.11	20.5	5
5	256QAM	1	0	19.24	19.11	18.95	19.13	18.99	18.98		
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	20.5	5
5	256QAM	12	7	18.37	18.32	18.16	18.19	18.34	18.05		
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		

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	Tune-up and offset (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.25	20.25	20.26	20.5	0		
20	QPSK	1	49	20.09	20.15	20.16	19.5	1		
20	QPSK	1	99	20.01	20.11	20.12	19.5	2		
20	QPSK	30	0	19.91	19.95	19.96	19.5	3		
20	QPSK	30	24	18.99	19.19	19.20	19.5	4		
20	QPSK	30	50	18.94	19.17	19.12	19.5	5		
20	QPSK	100	0	18.12	18.22	18.23	19.5	6		
20	16QAM	1	5	18.58	18.78	18.79	19.5	7		
20	16QAM	1	49	18.22	18.38	18.40	19.5	8		
20	16QAM	1	99	18.01	18.15	18.16	19.5	9		
20	16QAM	50	0	18.22	18.37	18.38	19.5	10		
20	16QAM	50	24	18.12	18.28	18.30	19.5	11		
20	16QAM	50	50	18.15	18.27	18.28	19.5	12		
20	16QAM	100	0	18.11	18.11	18.22	19.5	13		
20	16QAM	100	0	18.20	18.48	18.49	19.5	14		
20	16QAM	1	49	18.01	18.15	18.16	19.5	15		
20	16QAM	1	99	18.14	18.26	18.37	19.5	16		
20	16QAM	50	0	17.09	17.24	17.38	19.5	17		
20	16QAM	50	24	17.05	17.01	17.18	19.5	18		
20	16QAM	50	50	17.09	17.15	17.25	19.5	19		
20	16QAM	100	0	17.08	17.17	17.25	19.5	20		
20	256QAM	1	5	15.25	15.35	15.11	15.5	5		
20	256QAM	1	49	15.07	15.28	15.13	15.5	6		
20	256QAM	1	99	15.02	15.14	15.25	15.5	7		
20	256QAM	50	0	15.11	15.22	15.15	15.5	8		
20	256QAM	50	24	15.03	15.16	15.12	15.5	9		
20	256QAM	50	50	15.09	15.08	15.22	15.5	10		
20	256QAM	100	0	15.00	15.15	15.26	15.5	11		
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.19	20.28	20.28	20.5	0		
15	QPSK	1	37	20.04	20.08	20.14	20.5	1		
15	QPSK	1	74	20.01	20.09	20.27	20.5	2		
15	QPSK	30	0	19.14	19.28	19.32	19.5	3		
15	QPSK	30	24	19.13	19.13	19.25	19.5	4		
15	QPSK	30	50	19.09	19.11	19.08	19.5	5		
15	QPSK	75	0	19.08	19.17	19.27	19.5	6		
15	16QAM	1	5	18.53	19.10	19.18	19.5	7		
15	16QAM	1	37	19.20	19.32	19.42	19.5	8		
15	16QAM	1	74	19.04	19.15	19.42	19.5	9		
15	16QAM	30	0	18.18	18.31	18.48	19.5	10		
15	16QAM	30	24	18.06	18.14	18.32	19.5	11		
15	16QAM	30	50	18.00	18.21	18.32	19.5	12		
15	16QAM	75	0	18.01	18.06	18.15	19.5	13		
15	16QAM	1	0	18.14	18.42	18.44	19.5	14		
15	16QAM	1	37	18.05	18.08	18.08	19.5	15		
15	16QAM	1	74	18.09	18.19	18.32	19.5	16		
15	16QAM	30	0	18.05	18.15	18.32	19.5	17		
15	16QAM	30	24	17.11	17.01	17.11	19.5	18		
15	16QAM	30	50	17.02	17.08	17.28	19.5	19		
15	16QAM	75	0	17.02	17.15	17.25	19.5	20		
15	256QAM	1	5	15.19	15.28	15.04	15.5	5		
15	256QAM	1	37	15.01	15.22	15.06	15.5	6		
15	256QAM	1	49	15.06	15.06	15.18	15.5	7		
15	256QAM	25	0	15.04	15.15	15.07	15.5	8		
15	256QAM	25	12	15.15	15.10	15.25	15.5	9		
15	256QAM	25	25	15.03	15.01	15.18	15.5	10		
15	256QAM	50	0	14.53	15.01	15.18	15.5	11		
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	20.5	1		
10	QPSK	1	49	20.00	20.04	20.25	20.5	2		
10	QPSK	20	0	19.14	19.28	19.31	19.5	3		
10	QPSK	20	12	19.12	19.13	19.26	19.5	4		
10	QPSK	20	24	19.06	19.11	19.26	19.5	5		
10	QPSK	50	0	19.05	19.15	19.27	19.5	6		
10	16QAM	1	0	19.08	19.08	19.18	19.5	7		
10	16QAM	1	12	19.15	19.31	19.42	19.5	8		
10	16QAM	1	24	19.01	19.33	19.38	19.5	9		
10	16QAM	12	0	18.17	18.30	18.46	19.5	10		
10	16QAM	12	7	18.04	18.11	18.32	19.5	11		
10	16QAM	12	13	18.09	18.29	18.31	19.5	12		
10	16QAM	25	0	18.08	18.15	18.32	19.5	13		
10	16QAM	1	5	18.15	18.42	18.41	19.5	14		
10	16QAM	1	12	18.01	18.08	18.09	19.5	15		
10	16QAM	1	24	18.07	18.18	18.30	19.5	16		
10	16QAM	12	5	17.03	17.17	17.30	19.5	17		
10	16QAM	12	7	17.08	17.13	17.11	19.5	18		
10	16QAM	12	13	17.04	17.06	17.25	19.5	19		
10	16QAM	25	0	17.01	17.09	17.23	19.5	20		
10	256QAM	1	5	15.19	15.27	15.04	15.5	5		
10	256QAM	1	12	15.01	15.22	15.04	15.5	6		
10	256QAM	1	24	15.08	15.05	15.18	15.5	7		
10	256QAM	12	0	15.05	15.15	15.09	15.5	8		
10	256QAM	12	7	15.10	15.10	15.23	15.5	9		
10	256QAM	12	13	15.03	15.06	15.18	15.5	10		
10	256QAM	25	0	15.02	15.10	15.18	15.5	11		
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.19	20.27	20.28	20.5	0		
3	QPSK	1	12	20.03	20.07	20.16	20.5	1		
3	QPSK	1	24	20.03	20.05	20.27	20.5	2		
3	QPSK	3	0	19.12	19.29	19.31	19.5	3		
3	QPSK	12	7	19.10	19.13	19.25	19.5	4		
3	QPSK	12	13	19.08	19.08	19.03	19.5	5		
3	QPSK	25	0	19.03	19.15	19.28	19.5	6		
3	16QAM	1	5	19.01	19.08	19.18	19.5	7		
3	16QAM	1	12	19.15	19.31	19.42	19.5	8		
3	16QAM	1	24	19.01	19.33	19.38	19.5	9		
3	16QAM	12	0	18.17	18.30	18.46	19.5	10		
3	16QAM	12	7	18.04	18.11	18.32	19.5	11		
3	16QAM	12	13	18.09	18.29	18.31	19.5	12		
3	16QAM	25	0	18.08	18.15	18.32	19.5	13		
3	16QAM	1	5	18.15	18.42	18.41	19.5	14		
3	16QAM	1	12	18.07	18.18	18.32	19.5	15		
3	16QAM	1	24	18.07	18.18	18.32	19.5	16		
3	16QAM	12	5	17.03	17.08	17.23	19.5	17		
3	16QAM	12	7	17.01	17.08	17.28	19.5	18		
3	16QAM	12	13	17.08	17.08	17.25	19.5	19		
3	16QAM	25	0	17.01	17.09	17.23	19.5	20		
3	256QAM	1	5	15.19	15.27	15.05	15.5	5		
3	256QAM	1	12	15.01	15.19	15.18	15.5	6		
3	256QAM	1	24	15.08	15.15	15.18	15.5	7		
3	256QAM	12	0	15.05	15.15	15.09	15.5	8		
3	256QAM	12	7	15.10	15.10	15.23	15.5	9		
3	256QAM	12	13	15.03	15.06	15.18	15.5	10		
3	256QAM	25	0	15.02	15.10	15.17	15.5	11		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	20.19	20.26	20.27	20.5	0		
1.4	QPSK	1	3	20.00	20.04	20.12	20.5	1		
1.4	QPSK	1	6	20.00	20.03	20.23	20.5	2		
1.4	QPSK	3	0	20.01	20.28	20.29	20.5	3		
1.4	QPSK	3	3	20.01	20.28	20.29	20.5	4		
1.4	QPSK	3	6	20.01	20.28	20.29	20.5	5		
1.4	QPSK	3	9	20.01	20.28	20.29	20.5	6		
1.4	QPSK	3	12	20.01	20.28	20.29	20.5	7		
1.4	QPSK	3	15	20.01	20.28	20.29	20.5	8		
1.4	QPSK	3	18	20.01	20.28	20.29	20.5	9		
1.4	QPSK	3	21	20.01	20.28	20.29	20.5	10		
1.4	QPSK	3	24	20.01	20.28	20.29	20.5	11		
1.4	QPSK	3	27	20.01	20.28	20.29	20.5	12		
1.4	QPSK	3	30	20.01	20.28	20.29	20.5	13		
1.4	QPSK	3	33	20.01	20.28	20.29	20.5	14		
1.4	QPSK	3	36	20.01	20.28	20.29	20.5	15		
1.4	QPSK	3	39	20.01	20.28	20.29	20.5	16		
1.4	QPSK	3	42	20.01	20.28	20.29	20.5	17		
1.4	QPSK	3	45	20.01	20.28	20.29	20.5	18		
1.4	QPSK	3	48	20.01	20.28	20.29	20.5	19		
1.4	QPSK	3	51	20.01	20.28	20.29	20.5	20		
1.4	QPSK	3	54	20.01	20.28	20.29	20.5	21		
1.4	QPSK	3	57	20.01	20.28	20.29	20.5	22		
1.4	QPSK	3	60	20.01	20.28	20.29	20.5	23		
1.4	QPSK	3	63	20.01	20.28	20.29	20.5	24		
1.4	QPSK	3	66	20.01	20.28	20.29	20.5	25		
1.4	QPSK	3	69	20.01	20.28	20.29	20.5	26		
1.4	QPSK	3	72	20.01	20.28	20.29	20.5	27		
1.4	QPSK	3	75	20.01	20.28	20.29	20.5	28		
1.4	QPSK	3	78	20.01	20.28	20.29	20.5	29		
1.4	QPSK	3	81	20.01	20.28	20.29	20.5	30		
1.4	QPSK	3	84	20.01	20.28	20.29	20.5	31		
1.4	QPSK	3	87	20.01	20.28	20.29	20.5	32		
1.4	QPSK	3	90	20.01	20.28	20.29	20.5	33		
1.4	QPSK	3	93	20.01	20.28	20.29	20.5	34		
1.4	QPSK	3	96	20.01	20.28	20.29	20.5	35		
1.4	QPSK	3	99	20.01	20.28	20.29	20.5	36		
1.4	QPSK	3	102	20.01	20.28	20.29	20.5	37		
1.4	QPSK	3	105	20.01	20.28	20.29	20.5	38		
1.4	QPSK	3	108	20.01	20.28	20.29	20.5	39		
1.4	QPSK	3	111	20.01	20.28	20.29	20.5	40		
1.4	QPSK	3	114	20.01	20.28	20.29	20.5	41		
1.4	QPSK									



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														
Frequency [MHz]														
20	QPSK	1	0	20.56	20.70	20.83	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	50	0	20.50	20.63	20.50	21.5	0						
20	QPSK	50	24	20.47	20.47	20.54								
20	QPSK	50	50	20.46	20.51	20.61								
20	QPSK	100	0	20.47	20.50	20.51	21.5	0						
20	TDMA	1	0	20.53	20.48	20.51								
20	TDMA	1	40	20.46	20.20	20.51								
20	TDMA	1	80	20.31	20.47	20.51	21.5	0						
20	TDMA	50	0	20.28	20.24	20.26								
20	TDMA	50	24	20.24	20.27	20.26								
20	TDMA	50	50	20.25	20.30	20.35	21.5	0						
20	TDMA	100	0	20.24	20.21	20.26								
20	TDMA	1	40	20.48	20.20	20.51								
20	TDMA	1	40	20.28	20.42	20.31	21.5	0						
20	TDMA	1	80	20.16	20.36	20.38								
20	TDMA	50	0	20.46	20.48	20.48								
20	TDMA	50	24	20.47	20.47	20.49	21.5	0						
20	TDMA	50	50	20.49	20.51	20.54								
20	TDMA	100	0	20.47	20.43	20.53								
20	TDMA	1	0	19.52	19.72	19.85	20.5	1						
20	TDMA	1	40	19.25	19.24	19.44								
20	TDMA	1	80	19.21	19.32	19.40								
20	TDMA	50	0	19.51	19.64	19.52	20.5	1						
20	TDMA	50	24	19.46	19.46	19.53								
20	TDMA	50	50	19.46	19.58	19.60								
20	TDMA	100	0	19.43	19.34	19.48	20.5	1						
Channel														
Frequency [MHz]														
15	QPSK	1	0	20.41	20.36	20.50	21.5	0						
15	QPSK	1	37	20.32	20.38	20.44								
15	QPSK	1	74	20.26	20.34	20.47								
15	QPSK	36	0	20.46	20.45	20.50	21.5	0						
15	QPSK	36	20	20.46	20.49	20.59								
15	QPSK	36	36	20.46	20.52	20.60								
15	QPSK	100	0	20.46	20.45	20.50	21.5	0						
15	TDMA	1	0	20.53	20.44	20.57								
15	TDMA	1	37	20.37	20.50	20.49								
15	TDMA	1	74	20.43	20.49	20.52	21.5	0						
15	TDMA	36	0	20.25	20.22	20.24								
15	TDMA	36	20	20.24	20.25	20.26								
15	TDMA	36	36	20.23	20.31	20.34	21.5	0						
15	TDMA	75	0	20.25	20.29	20.29								
15	TDMA	1	0	20.43	20.36	20.45	21.5	0						
15	TDMA	1	37	20.31	20.42	20.42								
15	TDMA	1	74	20.22	20.42	20.44								
15	TDMA	36	0	20.21	20.16	20.20	21.5	0						
15	TDMA	36	20	20.17	20.16	20.20								
15	TDMA	36	36	20.45	20.52	20.58								
15	TDMA	75	0	19.25	19.47	19.58	20.5	1						
15	TDMA	1	37	19.38	19.38	19.38								
15	TDMA	1	74	19.35	19.41	19.48								
15	TDMA	36	0	19.51	19.38	19.53	20.5	1						
15	TDMA	36	20	19.38	19.54	19.64								
15	TDMA	36	36	19.37	19.46	19.65								
15	TDMA	75	0	19.34	19.53	19.48	20.5	1						
Channel														
Frequency [MHz]														
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	40	20.31	20.37	20.49								
16	QPSK	25	0	20.48	20.44	20.49	21.5	0						
16	QPSK	25	12	20.48	20.48	20.51								
16	QPSK	25	25	20.45	20.58	20.58								
16	QPSK	50	0	20.52	20.48	20.62	21.5	0						
16	TDMA	1	0	20.48	20.51	20.54								
16	TDMA	1	25	20.42	20.51	20.54								
16	TDMA	1	40	20.40	20.47	20.58	21.5	0						
16	TDMA	50	0	20.45	20.52	20.54								
16	TDMA	50	25	20.21	20.36	20.36								
16	TDMA	25	0	20.24	20.52	20.35	21.5	0						
16	TDMA	50	0	20.55	20.53	20.64								
16	TDMA	50	25	20.45	20.53	20.69								
16	TDMA	1	40	20.42	20.53	20.69	21.5	0						
16	TDMA	25	0	20.48	20.42	20.50								
16	TDMA	25	12	20.45	20.45	20.58								
16	TDMA	25	25	20.45	20.52	20.58	21.5	0						
16	TDMA	50	0	20.45	20.45	20.57								
16	TDMA	1	0	19.33	19.47	19.46								
16	TDMA	1	25	19.18	19.42	19.53	20.5	1						
16	TDMA	1	40	19.24	19.40	19.45								
16	TDMA	25	0	19.50	19.46	19.55								
16	TDMA	25	12	19.52	19.36	19.54	20.5	1						
16	TDMA	25	25	19.52	19.52	19.54								
16	TDMA	50	0	19.35	19.50	19.75								
Channel														
Frequency [MHz]														
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	21.5	0						
5	QPSK	12	7	20.54	20.50	20.58								
5	QPSK	12	13	20.54	20.50	20.58								
5	QPSK	25	0	20.53	20.48	20.58	21.5	0						
5	TDMA	1	0	20.52	20.47	20.49								
5	TDMA	1	12	20.50	20.52	20.52	21.5	0						
5	TDMA	1	24	20.48	20.53	20.59								
5	TDMA	12	0	20.35	20.23	20.25								
5	TDMA	12	7	20.39	20.27	20.38	21.5	0						
5	TDMA	12	13	20.38	20.30	20.38								
5	TDMA	25	0	20.38	20.26	20.35								
5	TDMA	1	0	20.38	20.38	20.35	21.5	0						
5	TDMA	1	12	20.41	20.39	20.43								
5	TDMA	12	24	20.41	20.47	20.48								
5	TDMA	12	0	20.45	20.47	20.48	21.5	0						
5	TDMA	12	7	20.48	20.48	20.58								
5	TDMA	12	13	20.47	20.45	20.51								
5	TDMA	25	0	20.47	20.48	20.58	20.5	1						
5	TDMA	1	0	19.43	19.33	19.33								
5	TDMA	1	12	19.28	19.41	19.48	20.5	1						
5	TDMA	1	24	19.34	19.44	19.57								
5	TDMA	12	0	19.43	19.44	19.57								
5	TDMA	12	7	19.48	19.48	19.53	20.5	1						
5	TDMA	12	13	19.47	19.45	19.51								
5	TDMA	25	0	19.47	19.48	19.58								
5	TDMA	12	13	19.51	19.56	19.68	20.5	1						
5	TDMA	25	0	19.47	19.48	19.58								
5	TDMA	25	13	19.51	19.56	19.68								
Channel														
Frequency [MHz]														
18	QPSK	1	0	20.46	20.39	20.41	21.5	0						
18	QPSK	1	12	20.42	20.46	20.50								
18	QPSK	1	24	20.35	20.44	20.53								
18	QPSK	12	0	20.54	20.47	20.50	21.5	0						
18	QPSK	12	7	20.54	20.50	20.58								
18	QPSK	12	14	20.54	20.50	20.58								
18	QPSK	25	0	20.54	20.52	20.61	21.5	0						
18	TDMA	1	0	20.52	20.48	20.58								
18	TDMA	1	12	20.48	20.50	20.58								
18	TDMA	1	24	20.40	20.38	20.41	21.5	0						
18	TDMA	1	36	20.52	20.54	20.58								
18	TDMA	12	0	20.35	20.23	20.25								
18	TDMA	12	7	20.39	20.27	20.38	21.5	0						
18	TDMA	12	14	20.38	20.30	20.38								
18	TDMA	25	0	20.38	20.26	20.35								
18	TDMA	1	0	20.38	20.38	20.35	21.5	0						
18	TDMA	1	12	20.41	20.39	20.43								
18	TDMA	12	24	20.41	20.47	20.48								
18	TDMA	12	0	20.45	20.47	20.48	21.5	0						
18	TDMA	12	7	20.48	20.48	20.58								
18	TDMA	12	14	20.47	20.45	20.51								
18	TDMA	25	0	20.47	20.48	20.58	20.5	1						
18	TDMA	1	0	19.43	19.33	19.33								
18	TDMA	1	12	19.28	19.41	19.48	20.5	1						
18	TDMA	1	24	19.34	19.44	19.57								
18	TDMA	12	0	19.43	19.44	19.57								
18	TDMA	12	7	19.48	19.48	19.53	20.5	1						
18	TDMA	12	14	19.47	19.45	19.51								
18	TDMA	25	0	19.47	19.48	19.58								
18	TDMA	12	14	19.51	19.56	19.68	20.5	1						
18	TDMA	25	0	19.47	19.48	19.58								
18	TDMA	25	14	19.51	19.56	19.68								
Channel														
Frequency [MHz]														
14	QPSK	1	0	20.37	20.30	20.38	21.5	0						
14	QPSK	1	3	20.41	20.41	20.46								
14	QPSK	1	24	20.34	20.35	20.43								
14	QPSK	3	0	20.39	20.39	20.53	21.5	0						
14	QPSK	3	3	20.42	20.42	20.45								
14	QPSK	3	24	20.40	20.40	20.45								
14	QPSK	8	0	20.48	20.48	20.51	21.5	0						
14	QPSK	8	8	20.50	20.50	20.51								
14	QPSK	8	16	20.45	20.50	20.51								
14	QPSK	1	5	20.37	20.41	20.46	21.5	0						
14	QPSK	1	17	20.39	20.40	20.46								
14	QPSK	1	29	20.27	20.30	20.32								
14	QPSK	3	3	20.21	20.18	20.25	21.5	0						
14	QPSK	3	10	20.24	20.23	20.31								
14	QPSK	3	17	2										

Band 66 DSI 5											
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch. 1 (MHz)	Power Low 150072	Power Main Ch. 1 (MHz)	Power Main 150052	Power High Ch. 1 (MHz)	Power High 150072	Tune-up freq. offset	MPR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	20.40	20.50	20.30					
20	QPSK	1	48	20.23	20.23	20.15				21.5	0
20	QPSK	1	99	20.23	20.15	20.08					
20	QPSK	50	0	20.43	20.48	20.35					
20	QPSK	50	24	20.43	20.40	20.30				21.5	0
20	QPSK	50	50	20.38	20.30	20.20					
20	QPSK	100	0	20.34	20.28	20.17					
20	16QAM	1	0	19.94	19.85	19.31				21.5	0
20	16QAM	1	49	19.86	19.71	19.16					
20	16QAM	1	99	20.00	20.18	20.06					
20	16QAM	50	0	20.41	20.38	20.31					
20	16QAM	50	24	20.47	20.41	20.26				21.5	0
20	16QAM	50	50	20.38	20.32	20.28					
20	16QAM	100	0	20.42	20.37	20.26					
20	16QAM	1	0	19.85	19.12	19.10					
20	16QAM	1	48	20.31	20.31	20.13				21.5	0
20	16QAM	1	99	19.87	20.18	20.04					
20	16QAM	50	0	20.41	20.38	20.31					
20	16QAM	50	24	20.46	20.39	20.31				21.5	0
20	16QAM	50	50	20.39	20.31	20.27					
20	16QAM	100	0	20.43	20.37	20.24					
20	25QAM	1	0	19.32	19.40	19.48					
20	25QAM	1	49	19.27	19.10	19.17				20.5	1
20	25QAM	1	99	19.30	19.07	19.00					
20	25QAM	50	0	19.33	19.49	19.47					
20	25QAM	50	24	19.34	19.39	19.25				20.5	1
20	25QAM	50	50	19.25	19.21	19.17					
20	25QAM	100	0	19.29	19.32	19.24					
Channel											
Frequency (MHz)											
15	QPSK	1	0	20.22	20.23	20.23					
15	QPSK	1	37	20.09	20.18	20.18				21.5	0
15	QPSK	1	74	20.09	20.13	20.04					
15	QPSK	38	0	20.32	20.30	20.10					
15	QPSK	38	20	20.29	20.37	20.22				21.5	0
15	QPSK	38	38	20.21	20.25	20.14					
15	QPSK	75	0	20.24	20.31	20.11					
15	16QAM	1	0	20.47	20.47	20.43					
15	16QAM	1	37	20.49	20.49	20.28				21.5	0
15	16QAM	1	74	20.51	20.40	20.24					
15	16QAM	38	0	20.32	20.28	20.12					
15	16QAM	38	20	20.34	20.34	20.22				21.5	0
15	16QAM	38	38	20.27	20.28	20.14					
15	16QAM	75	0	20.28	20.32	20.10					
15	16QAM	1	0	19.99	20.02	20.00					
15	16QAM	1	37	20.00	20.18	20.00				21.5	0
15	16QAM	1	74	19.94	20.07	19.87					
15	16QAM	38	0	20.25	20.25	20.11					
15	16QAM	38	20	20.25	20.31	20.23				21.5	0
15	16QAM	38	38	20.26	20.23	20.13					
15	25QAM	1	0	19.29	19.21	19.32					
15	25QAM	1	37	19.08	19.22	19.03				20.5	1
15	25QAM	1	74	19.15	19.16	19.04					
15	25QAM	38	0	19.43	19.28	19.10					
15	25QAM	38	20	19.20	19.32	19.12				20.5	1
15	25QAM	38	38	19.15	19.27	19.28					
15	25QAM	75	0	19.33	19.35	19.09					
Channel											
Frequency (MHz)											
10	QPSK	1	0	20.19	20.32	20.31					
10	QPSK	1	20	20.17	20.28	20.15				21.5	0
10	QPSK	1	48	20.14	20.18	20.11					
10	QPSK	25	0	20.33	20.33	20.27					
10	QPSK	25	10	20.31	20.41	20.28				21.5	0
10	QPSK	25	20	20.28	20.33	20.20					
10	QPSK	50	0	20.33	20.37	20.24					
10	16QAM	1	0	20.23	20.27	20.20					
10	16QAM	1	20	20.13	20.19	20.20				21.5	0
10	16QAM	1	48	20.10	20.10	20.09					
10	16QAM	25	0	20.35	20.31	20.30					
10	16QAM	25	12	20.31	20.36	20.27				21.5	0
10	16QAM	25	25	20.21	20.32	20.20					
10	16QAM	50	0	20.31	20.37	20.27					
10	16QAM	1	0	20.30	20.28	20.24				21.5	0
10	16QAM	1	20	20.25	20.34	20.28					
10	16QAM	1	48	20.28	20.28	20.28					
10	16QAM	25	0	20.32	20.34	20.29					
10	16QAM	25	12	20.26	20.40	20.20				21.5	0
10	16QAM	25	25	20.25	20.27	20.28					
10	25QAM	50	0	20.29	20.32	20.24					
10	25QAM	1	0	19.06	19.25	19.21					
10	25QAM	1	20	19.16	19.23	19.08				20.5	1
10	25QAM	1	48	19.02	19.21	19.10					
10	25QAM	25	0	19.28	19.40	19.20					
10	25QAM	25	12	19.27	19.38	19.18				20.5	1
10	25QAM	25	25	19.34	19.43	19.28					
10	25QAM	50	0	19.42	19.24	19.13					
Channel											
Frequency (MHz)											
5	QPSK	1	0	20.17	20.13	20.00					
5	QPSK	1	12	20.18	20.13	20.06				21.5	0
5	QPSK	1	24	20.07	20.11	19.94					
5	QPSK	12	0	20.30	20.18	20.15					
5	QPSK	12	7	20.30	20.28	20.18				21.5	0
5	QPSK	12	14	20.23	20.18	20.11					
5	QPSK	24	0	20.23	20.18	20.11					
5	16QAM	1	0	20.48	20.34	20.34					
5	16QAM	1	12	20.39	20.33	20.31				21.5	0
5	16QAM	1	24	20.39	20.32	20.27					
5	16QAM	12	0	20.29	20.21	20.20					
5	16QAM	12	7	20.32	20.27	20.20				21.5	0
5	16QAM	12	14	20.27	20.19	20.14					
5	16QAM	24	0	20.24	20.19	20.18					
5	16QAM	1	0	20.40	20.30	20.28				21.5	0
5	16QAM	1	12	20.38	20.32	20.22					
5	16QAM	1	24	20.31	20.29	20.20					
5	16QAM	12	0	20.28	20.18	20.16					
5	16QAM	12	7	20.30	20.28	20.22				21.5	0
5	16QAM	12	14	20.24	20.19	20.13					
5	16QAM	24	0	20.29	20.23	20.17					
5	25QAM	1	0	19.17	19.11	19.02					
5	25QAM	1	12	19.14	19.18	19.05				20.5	1
5	25QAM	1	24	19.17	19.20	19.01					
5	25QAM	12	0	19.37	19.20	19.04					
5	25QAM	12	7	19.23	19.20	19.04				20.5	1
5	25QAM	12	14	19.35	19.30	19.07					
5	25QAM	24	0	19.25	19.08	19.03					
Channel											
Frequency (MHz)											
3	QPSK	1	0	20.15	20.09	20.02					
3	QPSK	1	8	20.15	20.12	20.00				21.5	0
3	QPSK	1	14	20.12	20.07	19.94					
3	QPSK	8	0	20.20	20.12	20.11					
3	QPSK	8	4	20.25	20.18	20.11				21.5	0
3	QPSK	8	7	20.20	20.17	20.08					
3	QPSK	15	0	20.19	20.15	20.08					
3	16QAM	1	0	20.04	20.00	20.00					
3	16QAM	1	8	20.14	20.02	19.96				21.5	0
3	16QAM	1	14	20.07	20.03	19.95					
3	16QAM	8	0	20.28	20.16	20.22					
3	16QAM	8	4	20.28	20.20	20.24				21.5	0
3	16QAM	8	7	20.23	20.19	20.16					
3	16QAM	15	0	20.25	20.23	20.10					
3	16QAM	1	0	20.41	20.30	20.20				21.5	0
3	16QAM	1	8	20.34	20.32	20.25					
3	16QAM	1	14	20.37	20.32	20.21					
3	16QAM	8	0	20.25	20.14	20.14				21.5	0
3	16QAM	8	4	20.25	20.17	20.21					
3	16QAM	8	7	20.21	20.18	20.11					
3	16QAM	15	0	20.24	20.20	20.10					
3	16QAM	1	0	19.12	19.07	19.11				20.5	1
3	16QAM	1	8	19.08	19.18	19.05					
3	16QAM	1	14	19.12	19.18	19.03					
3	16QAM	8	0	19.34	19.02	19.00				20.5	1
3	16QAM	8	4	19.15	19.14	19.11					
3	16QAM	8	7	19.15	19.14	19.11				20.5	1
3	16QAM	15	0	19.23	19.02	19.01					
Channel											
Frequency (MHz)											
1.4	QPSK	1	0	20.03	19.98	19.95					
1.4	QPSK	1	20	20.11	20.02	19.98				21.5	0
1.4	QPSK	1	40	20.02	19.94	19.88					
1.4	QPSK	3	0	20.07	19.98	19.85					

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	20.06				
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	19.96	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	20.08	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	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5	21	0		
15	QPSK	1	0	20.03	20.00	19.98				
15	QPSK	1	37	20.08	20.01	19.95	21	0		
15	QPSK	1	74	20.05	20.02	20.00				
15	QPSK	36	0	19.85	19.82	19.86				
15	QPSK	36	20	20.01	19.95	19.94		21	0	
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				
15	16QAM	1	37	19.81	19.84	19.74	21	0		
15	16QAM	1	74	20.05	19.97	19.89				
15	16QAM	36	0	20.15	20.13	20.17				
15	16QAM	36	20	20.18	20.16	20.14		21	0	
15	16QAM	36	39	20.22	20.13	20.11				
15	16QAM	75	0	20.18	20.24	20.17				
15	64QAM	1	0	20.21	20.16	20.11	21	0		
15	64QAM	1	37	20.18	20.10	20.11				
15	64QAM	1	74	20.10	20.07	20.03				
15	64QAM	36	0	20.12	20.07	20.10		21	0	
15	64QAM	36	20	20.17	20.13	20.09				
15	64QAM	36	39	20.15	20.11	20.09				
15	64QAM	75	0	20.11	20.13	20.10		20.5	0.5	
15	256QAM	1	0	19.92	19.95	19.96				
15	256QAM	1	37	20.03	19.97	19.97				
15	256QAM	1	74	20.01	20.04	19.99				
15	256QAM	36	0	19.83	19.76	19.91	20.5	0.5		
15	256QAM	36	20	19.87	19.76	19.87				
15	256QAM	36	39	19.87	19.84	20.00				
15	256QAM	75	0	20.00	19.98	19.97				
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2575	2595	2615	21	0		
10	QPSK	1	0	20.14	20.12	20.12				
10	QPSK	1	25	20.14	20.10	20.06	21	0		
10	QPSK	1	49	20.20	20.18	20.14				
10	QPSK	25	0	19.88	19.83	19.79				
10	QPSK	25	12	20.06	20.01	19.99		21	0	
10	QPSK	25	25	20.02	20.01	19.99				
10	QPSK	50	0	20.04	20.02	19.97				
10	16QAM	1	0	20.04	19.97	20.01	21	0		
10	16QAM	1	25	20.01	19.98	19.93				
10	16QAM	1	49	20.09	20.00	19.97				
10	16QAM	25	0	20.18	20.15	20.16		21	0	
10	16QAM	25	12	20.10	20.04	20.04				
10	16QAM	25	25	20.08	20.03	20.02				
10	16QAM	50	0	20.09	20.06	20.03		21	0	
10	64QAM	1	0	20.02	20.02	20.01				
10	64QAM	1	25	20.03	20.16	20.06				
10	64QAM	1	49	20.17	20.12	20.08		21	0	
10	64QAM	25	0	20.10	20.04	20.03				
10	64QAM	25	12	20.19	20.17	20.16				
10	64QAM	25	25	20.17	20.15	20.11		21	0	
10	64QAM	50	0	20.19	20.10	20.09				
10	256QAM	1	0	19.85	19.75	19.81				
10	256QAM	1	25	19.80	19.86	19.88	20.5	0.5		
10	256QAM	1	49	19.89	19.84	19.89				
10	256QAM	25	0	19.85	19.86	19.90				
10	256QAM	25	12	19.75	19.71	19.81		20.5	0.5	
10	256QAM	25	25	19.75	19.75	19.83				
10	256QAM	50	0	19.73	19.76	19.85				
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5	21	0		
5	QPSK	1	0	20.11	20.03	20.06				
5	QPSK	1	12	20.11	20.08	20.13	21	0		
5	QPSK	1	24	20.09	20.05	20.09				
5	QPSK	12	0	19.93	19.81	19.78				21
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				
5	64QAM	1	12	20.11	20.07	20.15		21	0	
5	64QAM	1	24	19.97	19.97	20.15				
5	64QAM	12	0	20.11	20.01	20.11				
5	64QAM	12	7	20.20	20.17	20.10		21	0	
5	64QAM	12	13	20.15	20.14	20.12				
5	256QAM	1	0	20.15	20.14	20.10				
5	256QAM	1	12	19.85	19.82	19.80				
5	256QAM	1	12	19.80	19.77	19.84		20.5	0.5	
5	256QAM	1	24	19.86	19.87	19.85				
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.	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	19.88	20.04	20.12	19.93	19.99	21	0
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	20.10	19.94	19.99	21	0
20	QPSK	50	24	20.02	20.01	19.98	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	0
20	QPSK	1	0	19.81	19.77	19.92	19.82	19.94		
20	16QAM	1	49	19.74	19.72	19.78	19.68	19.81		
20	16QAM	1	99	19.78	19.73	19.84	19.82	19.85	21	0
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	0
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	0
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	0
20	64QAM	50	50	19.98	19.99	20.04	19.98	20.02		
20	64QAM	100	0	20.08	20.07	20.09	20.09	20.11		
20	256QAM	1	0	20.04	20.03	20.01	20.04	19.99	20.5	0.5
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	0.5
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	Tune-up limit (dBm)	MPR (dB)
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	0
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	0
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	0
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	0
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	0
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	0
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	0
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	0.5
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	19.74	19.77	19.85	19.75	19.81	20.5	0.5
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	0.5
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	2640	2695		
10	QPSK	1	0	19.95	19.90	19.90	19.97	20.05	Tune-up limit (dBm)	MPR (dB)
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	21	0
10	QPSK	25	0	19.96	19.97	20.03	19.96	20.01		
10	QPSK	25	12	20.08	20.05	20.05	20.05	19.99		
10	QPSK	50	0	20.03	20.02	20.03	20.06	20.08	21	0
10	QPSK	50	0	20.05	20.05	20.01	20.04	19.98		
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	21	0
10	16QAM	1	49	20.05	20.07	19.89	20.05	20.08		
10	16QAM	25	0	19.73	19.74	19.85	19.75	19.81		
10	16QAM	25	12	19.88	19.83	19.89	19.98	19.85	21	0
10	16QAM	25	25	19.80	19.81	19.89	19.84	19.89		
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	21	0
10	64QAM	1	25	19.71	19.72	19.75	19.75	19.83		
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	21	0
10	64QAM	25	12	20.07	20.08	20.03	20.07	20.10		
10	64QAM	50	0	20.01	20.02	20.07	20.00	20.07		
10	64QAM	25	0	20.01	20.01	20.01	20.02	20.08	20.5	0.5
10	256QAM	1	0	19.80	19.77	19.84	19.81	19.82		
10	256QAM	25	19.85	19.85	19.87	19.95	19.87	19.91		
10	256QAM	1	49	19.82	19.80	19.81	19.80	19.84	20.5	0.5
10	256QAM	25	0	19.95	19.90	19.94	19.85	19.91		
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	21	0
10	256QAM	50	19.77	19.84	19.77	19.84	19.82	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	0
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	19.99	19.98	19.99	21	0
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	0
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	0
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	0
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	0
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	0
5	64QAM	12	13	20.02	20.01	20.07	19.99	20.08		
5	64QAM	204	0	20.04	20.06	20.04	20.04	20.02		
5	256QAM	1	0	20.03	20.04	20.01	19.81	19.75	20.5	0.5
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	0.5
5	256QAM	12	7	20.08	20.06	19.94	19.82	19.85		
5	256QAM	13	20.14	20.13	20.14	19.81	19.82	19.82		
5	256QAM	25	0	20.03	20.04	20.01	19.87	19.91		



ANT3

		DS1 1		
Band		WCDMA V		
Tx Channel		4132	4182	4232
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	HSPA Subtest-1	21.45	21.53	21.46
3GPP Rel 6	HSPA Subtest-2	19.43	19.49	19.40
3GPP Rel 6	HSPA Subtest-3	20.42	20.49	20.44
3GPP Rel 6	HSPA Subtest-4	19.46	19.47	19.47
3GPP Rel 6	HSPA 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	22.43	22.53	21.5	0
10	QPSK	1	26	22.26	22.33	22.34	22.34	21.5	0
10	QPSK	1	49	22.11	22.10	22.09	22.09	21.5	0
10	QPSK	25	0	22.34	22.33	22.29	22.29	21.5	0
10	QPSK	25	12	22.41	22.25	22.21	22.21	21.5	0
10	QPSK	25	26	22.36	22.21	22.23	22.23	21.5	0
10	QPSK	50	0	22.36	22.22	22.23	22.23	21.5	0
10	16QAM	1	0	22.34	22.45	22.57	22.57	21.5	0
10	16QAM	1	26	22.34	22.57	22.53	22.53	21.5	0
10	16QAM	1	49	22.12	22.12	22.1	22.1	21.5	0
10	16QAM	25	0	21.35	21.38	21.24	21.24	22.5	1
10	16QAM	25	12	21.33	21.34	21.25	21.25	22.5	1
10	16QAM	25	26	21.32	21.34	21.03	21.03	22.5	1
10	16QAM	50	0	21.39	21.23	21.58	21.58	22.5	1
10	16QAM	50	1	21.47	21.45	21.25	21.25	22.5	1
10	16QAM	50	26	21.32	21.47	21.29	21.29	22.5	1
10	16QAM	50	49	21.00	21.22	21.25	21.25	22.5	1
10	16QAM	25	0	21.49	21.28	21.53	21.53	21.5	2
10	16QAM	25	12	20.99	20.48	20.54	20.54	21.5	2
10	16QAM	25	26	20.35	20.38	20.23	20.23	21.5	2
10	16QAM	50	0	20.34	20.40	20.49	20.49	21.5	2
10	256QAM	1	0	17.30	17.48	17.32	17.32	19.5	4
10	256QAM	1	26	17.34	17.39	17.28	17.28	19.5	4
10	256QAM	1	49	17.10	17.20	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	17.28	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	17.23	17.23	19.5	4
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.51	22.51	22.52	22.52	21.5	0
5	QPSK	1	26	22.15	22.38	22.31	22.31	21.5	0
5	QPSK	1	49	22.15	22.18	22.23	22.23	21.5	0
5	QPSK	12	0	22.01	22.41	22.20	22.20	21.5	0
5	QPSK	12	12	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	22.38	22.31	22.31	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	22.25	22.25	21.5	0
5	16QAM	12	0	21.32	21.36	21.39	21.39	22.5	1
5	16QAM	12	7	21.41	21.34	21.27	21.27	22.5	1
5	16QAM	12	13	21.35	21.31	21.25	21.25	22.5	1
5	16QAM	25	0	21.25	21.23	21.31	21.31	22.5	1
5	16QAM	1	0	21.62	21.59	21.51	21.51	22.5	1
5	16QAM	1	12	21.63	21.44	21.65	21.65	22.5	1
5	16QAM	1	26	21.24	21.45	21.62	21.62	22.5	1
5	16QAM	12	0	21.76	21.58	21.62	21.62	21.5	2
5	16QAM	12	7	20.38	20.33	20.47	20.47	21.5	2
5	16QAM	12	13	20.51	20.59	20.50	20.50	21.5	2
5	16QAM	25	0	17.07	17.10	17.19	17.19	19.5	4
5	256QAM	1	0	17.23	17.39	17.24	17.24	19.5	4
5	256QAM	1	12	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	17.25	17.25	19.5	4
5	256QAM	12	13	17.11	17.27	17.13	17.13	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	22.19	22.19	21.5	0
3	QPSK	8	0	22.12	22.27	22.20	22.20	21.5	0
3	QPSK	8	4	22.20	22.30	22.26	22.26	21.5	0
3	QPSK	8	12	22.28	22.33	22.21	22.21	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	22.5	1
3	16QAM	8	4	21.35	21.38	21.29	21.29	22.5	1
3	16QAM	8	7	21.26	21.37	21.29	21.29	22.5	1
3	16QAM	16	0	21.20	21.31	21.25	21.25	22.5	1
3	16QAM	1	0	21.49	21.72	21.69	21.69	22.5	1
3	16QAM	1	8	21.76	21.58	21.62	21.62	21.5	2
3	16QAM	1	14	21.68	21.84	21.59	21.59	21.5	2
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	17.15	17.15	19.5	4
3	256QAM	8	4	17.28	17.38	17.41	17.41	19.5	4
3	256QAM	8	7	17.18	17.27	17.05	17.05	19.5	4
3	256QAM	15	0	17.45	17.50	17.15	17.15	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	22.11	22.11	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	22.23	22.28	22.19	22.19	21.5	0
1.4	16QAM	3	8	22.04	22.14	22.08	22.08	21.5	0
1.4	16QAM	8	0	21.80	21.29	21.27	21.27	22.5	1
1.4	16QAM	8	3	21.74	21.64	21.68	21.68	22.5	1
1.4	16QAM	1	0	21.58	21.54	21.49	21.49	22.5	1
1.4	16QAM	3	1	21.19	21.66	21.65	21.65	22.5	1
1.4	16QAM	3	11	21.24	21.53	21.50	21.50	22.5	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	17.20	17.20	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	20.15	21.5	0
20	QPSK	1	49	20.07	20.13	20.08	20.08	21.5	0
20	QPSK	1	99	20.16	20.23	20.17	20.17	21.5	0
20	QPSK	50	0	20.16	20.08	20.13	20.13	21.5	0
20	QPSK	50	24	20.13	20.18	20.08	20.08	21.5	0
20	QPSK	50	50	20.09	20.15	20.09	20.09	21.5	0
20	QPSK	100	0	20.10	20.16	20.05	20.05	21.5	0
20	16QAM	1	0	20.30	20.35	20.28	20.28	21.5	0
20	16QAM	1	49	20.12	20.15	20.10	20.10	21.5	0
20	16QAM	1	99	20.30	20.35	20.30	20.30	21.5	0
20	16QAM	50	0	20.16	20.21	20.16	20.16	21.5	0
20	16QAM	50	24	20.13	20.18	20.12	20.12	21.5	0
20	16QAM	50	50	20.21	20.27	20.21	20.21	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	21.5	0
20	16QAM	100	0	20.19	20.25	20.17	20.17	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	17.80	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	17.79							
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	17.60	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									
Tx Channel		Burst Average Power (dBm)				Frame Average Power (dBm)			
Frequency (MHz)		510.2	661	810	Time-up	510.2	661	810	Time-up
		Limit	Limit	Limit	Limit	Limit	Limit	Limit	Limit
GSM 1 Tx slot		29.02	29.17	28.96	29.50	20.02	20.17	19.96	20.50
GPRS 1 Tx slot		29.01	29.15	28.94	29.50	20.01	20.15	19.94	20.50
GPRS 2 Tx slots		25.88	25.93	25.69	26.00	19.88	19.93	19.69	20.00
GPRS 3 Tx slots		23.63	23.98	23.86	24.50	19.37	19.72	19.60	20.24
GPRS 4 Tx slots		22.61	22.75	22.62	23.50	19.61	19.75	19.62	20.50
EDGE 1 Tx slot		25.17	25.01	24.89	26.00	16.17	16.01	15.89	17.00
EDGE 2 Tx slots		21.64	21.66	21.24	22.00	15.64	15.66	15.24	16.00
EDGE 3 Tx slots		19.40	19.43	19.15	20.00	15.14	15.17	14.89	15.74
EDGE 4 Tx slots		17.44	17.43	17.21	18.00	14.44	14.43	14.21	15.00

DSI 5									
GSM1900									
Burst Average Power (dBm)					Frame Average Power (dBm)				
TX Channel		512	661	810	Limit	512	661	810	Limit
Frequency (MHz)		1602.2	1610	1618.6		1502.2	1510	1518.6	
GSM 1 Tx slot		27.07	27.18	27.37	27.50	18.07	18.18	18.37	18.50
GPRS 1 Tx slot		27.07	27.15	27.37	27.50	18.07	18.15	18.37	18.50
GPRS 2 Tx slots		24.23	24.65	24.63	24.00	16.23	16.65	16.63	16.00
GPRS 3 Tx slots		20.68	20.83	20.83	22.50	16.42	16.57	16.57	18.24
GPRS 4 Tx slots		20.20	20.11	20.30	21.50	17.20	17.11	17.30	18.50
EDGE 1 Tx slot		22.98	22.78	22.64	24.00	13.98	13.78	13.64	15.00
EDGE 2 Tx slots		19.61	19.75	19.57	20.00	13.61	13.75	13.57	14.00
EDGE 3 Tx slots		18.08	18.04	17.99	18.00	13.82	13.78	13.73	13.74
EDGE 4 Tx slots		16.61	16.84	16.62	16.00	13.61	13.84	13.62	13.00

		WCDMA 1/5					DSI 1/5				
Burst		Tune-up					Tune-up				
TX Channel		9602	9600	9538	Time-down	1312	1413	1513	Time-up		
RX Channel		9602	9600	9938	Limit	1537	1638	1738	Limit	(dBm)	
Frequency (MHz)		1624.1	1600	1076.6	Limit	1412.4	1723.1	1723.1	Limit	(dBm)	
3GPP Rel 99	AMC 12_3gpps	20.11	20.20	20.19	21.00	21.20	21.23	21.23	21.33	22.00	
3GPP Rel 99	RMC 12_3gpps	20.12	20.23	20.21	21.00	21.34	21.36	21.34	21.33	22.00	
3GPP Rel 6	HS-DSPA Subtest-1	19.22	19.35	19.21	20.00	20.36	20.41	20.38	21.00		
3GPP Rel 6	HS-DSPA Subtest-2	19.27	19.36	19.27	20.00	20.37	20.37	20.36	21.00		
3GPP Rel 6	HS-DSPA Subtest-3	18.36	18.45	18.75	19.50	19.84	19.89	19.89	20.50		
3GPP Rel 6	HS-DSPA Subtest-4	18.64	18.80	18.72	19.50	19.84	19.89	19.87	20.50		
3GPP Rel 6	DC-HSDSPA Subtest-1	19.19	19.33	19.17	20.00	20.32	20.38	20.36	21.00		
3GPP Rel 6	DC-HSDSPA Subtest-2	19.24	19.34	19.23	20.00	20.33	20.34	20.34	21.00		
3GPP Rel 6	DC-HSDSPA Subtest-3	18.33	18.43	18.71	19.50	19.80	19.86	19.87	20.50		
3GPP Rel 6	DC-HSDSPA Subtest-4	18.61	18.78	18.68	19.50	19.80	19.86	19.85	20.50		
3GPP Rel 6	HSUPA Subtest-1	19.19	19.31	19.22	20.00	20.34	20.37	20.35	21.00		
3GPP Rel 6	HSUPA Subtest-2	17.21	17.31	17.22	18.00	18.33	18.34	18.38	19.00		
3GPP Rel 6	HSUPA Subtest-3	18.23	18.32	18.21	19.00	19.31	19.41	19.35	20.00		
3GPP Rel 6	HSUPA Subtest-4	17.19	17.34	17.20	18.00	18.36	18.39	18.33	19.00		
3GPP Rel 6	HSUPA Subtest-5	19.10	19.30	19.20	20.00	20.40	20.40	20.30	21.00		



Band 2 DSI 1/5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 1800	Power Mids Ch./Freq. 1850	Power High Ch./Freq. 1900	Tune-up (dB)	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	18.24	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	49	18.33	18.41	18.46			
20	64QAM	1	99	18.01	18.07	18.02			
20	64QAM	50	0	18.29	18.27	18.24			
20	64QAM	50	24	18.30	18.30	18.24	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	18.26			
20	256QAM	100	0	18.24	18.29	18.29			
Channel									
Frequency (MHz)									
15	QPSK	1	0	18.05	18.06	18.06			
15	QPSK	1	37	18.01	18.07	18.02	20.5	0	
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			
15	QPSK	36	39	18.01	18.03	18.03			
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	20.5	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	20.5	0	
15	16QAM	36	39	18.43	18.50	18.46			
15	16QAM	75	0	18.45	18.44	18.46			
15	64QAM	1	0	18.08	18.06	18.07	20.5	0	
15	64QAM	1	37	18.01	18.03	18.01			
15	64QAM	1	74	18.04	18.03	18.05			
15	64QAM	36	0	18.46	18.42	18.40			
15	64QAM	36	20	18.44	18.44	18.50	20.5	0	
15	64QAM	36	39	18.45	18.51	18.48			
15	64QAM	75	0	18.46	18.45	18.44			
15	256QAM	1	0	18.06	18.06	18.07	20.5	0	
15	256QAM	1	37	18.01	18.03	18.02			
15	256QAM	1	74	18.48	18.53	18.45			
15	256QAM	36	0	18.31	18.37	18.39	20.5	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			
10	QPSK	1	26	18.02	18.08	18.04	20.5	0	
10	QPSK	1	49	18.04	18.06	18.02			
10	QPSK	1	99	18.06	18.06	18.01			
10	QPSK	26	12	18.09	18.07	18.03	20.5	0	
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	20.5	0	
10	16QAM	1	49	18.42	18.53	18.55			
10	16QAM	25	0	18.47	18.42	18.37			
10	16QAM	25	12	18.47	18.44	18.51	20.5	0	
10	16QAM	25	25	18.46	18.56	18.56			
10	16QAM	50	0	18.50	18.42	18.50			
10	64QAM	1	0	18.01	18.06	18.01	20.5	0	
10	64QAM	1	25	18.01	18.07	18.01			
10	64QAM	1	49	18.42	18.53	18.55			
10	64QAM	25	0	18.47	18.42	18.37			
10	64QAM	25	12	18.50	18.42	18.50	20.5	0	
10	64QAM	25	25	18.51	18.51	18.51			
10	64QAM	50	0	18.51	18.57	18.51			
Channel									
Frequency (MHz)									
5	QPSK	1	0	18.08	18.04	18.02			
5	QPSK	1	12	18.73	18.05	18.73	20.5	0	
5	QPSK	1	24	18.04	18.06	18.73			
5	QPSK	12	0	18.05	18.05	18.01			
5	QPSK	12	7	18.04	18.09	18.02	20.5	0	
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	20.5	0	
5	16QAM	12	7	18.16	18.47	18.39			
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	20.5	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	18.49	18.41	20.5	0	
5	64QAM	12	7	18.03	18.49	18.41			
5	64QAM	12	15	18.48	18.55	18.56			
5	64QAM	25	0	18.47	18.48	18.47			
5	256QAM	1	0	18.09	18.04	18.02			
5	256QAM	1	12	18.39	18.44	18.42	20.5	0	
5	256QAM	1	24	18.37	18.44	18.42			
5	256QAM	12	0	18.03	18.50	18.52			
5	256QAM	12	15	18.58	18.54	18.60	20.5	0	
5	256QAM	1	24	18.40	18.54	18.60			
5	256QAM	12	0	18.40	18.36	18.34			
5	256QAM	12	7	18.37	18.41	18.37	20.5	0	
5	256QAM	12	15	18.57	18.47	18.51			
5	256QAM	25	0	18.52	18.49	18.41			
Channel									
Frequency (MHz)									
3	QPSK	1	0	18.02	18.05	18.02			
3	QPSK	1	8	18.04	18.05	18.00	20.5	0	
3	QPSK	8	0	18.05	18.05	18.00			
3	QPSK	8	0	18.04	18.03	18.02			
3	QPSK	8	4	18.09	18.06	18.73	20.5	0	
3	QPSK	8	7	18.05	18.06	18.06			
3	QPSK	15	0	18.04	18.02	18.02			
3	16QAM	1	0	18.40	18.47	18.41	20.5	0	
3	16QAM	1	8	18.47	18.48	18.46			
3	16QAM	1	14	18.39	18.44	18.50			
3	16QAM	8	0	18.08	18.55	18.56	20.5	0	
3	16QAM	8	4	18.04	18.58	18.58			
3	16QAM	8	7	18.07	18.61	18.62			
3	64QAM	1	0	18.01	18.53	18.54	20.5	0	
3	64QAM	1	8	18.42	18.52	18.49			
3	64QAM	1	8	18.03	18.63	18.61			
3	64QAM	8	4	18.60	18.64	18.68	20.5	0	
3	64QAM	8	7	18.58	18.66	18.68			
3	64QAM	15	0	18.06	18.59	18.57			
3	256QAM	1	0	18.47	18.56	18.56	20.5	0	
3	256QAM	1	8	18.39	18.44	18.50			
3	256QAM	1	14	18.05	18.55	18.56			
3	256QAM	8	0	18.03	18.63	18.59	20.5	0	
3	256QAM	8	4	18.42	18.52	18.49			
3	256QAM	8	7	18.63	18.60	18.61			
3	256QAM	15	0	18.50	18.54	18.58			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	18.02	18.01	18.20			
1.4	QPSK	1	3	18.32	18.39	18.39	20.5	0	
1.4	QPSK	3	0	18.03	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			
1.4	QPSK	3	3	18.40	18.56	18.56			
1.4	QPSK	3	6	18.53	18.59	18.59			
1.4	QPSK	3	9	18.58	18.64	18.64	20.5	0	
1.4	QPSK	3	12	18.63	18.69	18.69			
1.4	QPSK	3	15	18.68	18.74	18.74			
1.4	QPSK	3	18	18.73	18.79	18.79	20.5	0	
1.4	QPSK	3	21	18.78	18.84	18.84			
1.4	QPSK	3	24	18.83	18.89	18.89			
1.4	QPSK	3	27	18.88	18.94	18.94	20.5	0	
1.4	QPSK	3	30	18.93	18.99	18.99			
1.4	QPSK	3	33	18.98	19.04	19.04			
1.4	QPSK	3	36	19.03	19.09	19.09	20.5	0	
1.4	QPSK	3	39	19.08	19.14	19.14			
1.4	QPSK	3	42	19.13	19.19	19.19			
1.4	QPSK	3	45	19.18	19.24	19.24	20.5	0	
1.4	QPSK	3	48	19.23	19.29	19.29			
1.4	QPSK	3	51	19.28	19.34	19.34			
1.4	QPSK	3	54	19.33	19.39	19.39	20.5	0	
1.4	QPSK	3	57	19.38	19.44	19.44			

Band 66 DSI 1/5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq. 1330792	Power High Ch. 1 Freq. 1330792	Power Low Ch. 2 Freq. 1330792	Power High Ch. 2 Freq. 1330792	Tune-up limit (dBm)	APR3 (dB)	
Channel				Frequency (MHz)		Frequency (MHz)				
20	QPSK	1	0	20.70	20.77	20.88	20.98	21.5	0	
20	QPSK	1	49	20.68	20.62	20.51	20.51			
20	QPSK	1	99	20.53	20.45	20.38	20.38			
20	QPSK	50	0	20.63	20.66	20.76	20.76			
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	20.56	20.67	20.67			
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			
20	16QAM	50	0	20.41	20.38	20.31	20.31	21.5	0	
20	16QAM	50	24	20.46	20.39	20.39	20.39			
20	16QAM	50	50	20.38	20.32	20.29	20.29			
20	16QAM	100	0	20.43	20.37	20.34	20.34			
20	64QAM	1	0	20.71	20.49	20.58	20.58			
20	64QAM	1	49	20.68	20.68	20.56	20.56	21.5	0	
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	20.39	20.39	20.39			
20	64QAM	50	50	20.39	20.31	20.27	20.27			
20	64QAM	100	0	20.43	20.37	20.34	20.34	20.5	1	
20	256QAM	1	0	19.59	19.57	19.61	19.61			
20	256QAM	1	49	19.56	19.63	19.63	19.63			
20	256QAM	1	99	19.57	19.55	19.61	19.61			
20	256QAM	50	0	19.45	19.47	19.49	19.49			
20	256QAM	50	24	19.42	19.49	19.45	19.45	20.5	1	
20	256QAM	50	50	19.44	19.48	19.42	19.42			
20	256QAM	100	0	19.47	19.42	19.37	19.37			
Channel				Frequency (MHz)		Frequency (MHz)		Tune-up limit (dBm)	APR3 (dB)	
15	QPSK	1	0	20.52	20.53	20.63	20.63	21.5	0	
15	QPSK	1	37	20.39	20.46	20.49	20.49			
15	QPSK	1	74	20.39	20.43	20.34	20.34			
15	QPSK	36	0	20.52	20.50	20.35	20.35			
15	QPSK	36	20	20.49	20.57	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	20.19	20.19			
15	64QAM	1	0	20.38	20.39	20.39	20.39			
15	64QAM	1	37	20.37	20.50	20.27	20.27	21.5	0	
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			
15	64QAM	75	0	20.28	20.31	20.15	20.15	20.5	1	
15	256QAM	1	0	19.48	19.51	19.46	19.46			
15	256QAM	1	37	19.50	19.42	19.50	19.50			
15	256QAM	1	74	19.51	19.36	19.50	19.50			
15	256QAM	36	0	19.51	19.57	19.51	19.51			
15	256QAM	36	20	19.42	19.53	19.55	19.55	20.5	1	
15	256QAM	36	39	19.53	19.51	19.44	19.44			
15	256QAM	75	0	19.58	19.53	19.58	19.58			
Channel				Frequency (MHz)		Frequency (MHz)		Tune-up limit (dBm)	APR3 (dB)	
10	QPSK	1	0	20.49	20.62	20.61	20.61	21.5	0	
10	QPSK	1	26	20.47	20.66	20.45	20.45			
10	QPSK	1	49	20.44	20.48	20.41	20.41			
10	QPSK	25	0	20.53	20.53	20.47	20.47			
10	QPSK	25	12	20.51	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	20.53	20.57	20.44	20.44			
10	16QAM	1	0	20.60	20.64	20.60	20.60			
10	16QAM	1	25	20.50	20.56	20.57	20.57			
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	19.65	19.66	19.70	19.70			
10	256QAM	25	0	19.64	19.62	19.62	19.62	20.5	1	
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	19.43	19.50	19.50			
Channel				Frequency (MHz)		Frequency (MHz)		Tune-up limit (dBm)	APR3 (dB)	
5	QPSK	1	0	20.47	20.43	20.50	20.50	21.5	0	
5	QPSK	1	12	20.48	20.43	20.36	20.36			
5	QPSK	1	24	20.37	20.41	20.34	20.34			
5	QPSK	12	0	20.50	20.38	20.35	20.35			
5	QPSK	12	7	20.50	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	20.31	20.31			
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	20.15	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			
5	64QAM	1	12	20.38	20.32	20.22	20.22	21.5	0	
5	64QAM	1	24	20.31	20.29	20.23	20.23			
5	64QAM	12	0	20.36	20.18	20.18	20.18			
5	64QAM	12	7	20.30	20.20	20.22	20.22			
5	64QAM	12	19	20.24	20.19	20.13	20.13			
5	64QAM	25	0	20.30	20.23	20.17	20.17	20.5	1	
5	256QAM	1	0	19.46	19.51	19.46	19.46			
5	256QAM	1	12	19.50	19.42	19.50	19.50			
5	256QAM	1	24	19.51	19.56	19.57	19.57			
5	256QAM	12	0	19.51	19.57	19.51	19.51			
5	256QAM	12	7	19.42	19.53	19.45	19.45	20.5	1	
5	256QAM	12	19	19.53	19.51	19.44	19.44			
5	256QAM	25	0	19.58	19.53	19.58	19.58			
Channel				Frequency (MHz)		Frequency (MHz)		Tune-up limit (dBm)	APR3 (dB)	
3	QPSK	1	0	20.45	20.35	20.35	20.35	21.5	0	
3	QPSK	1	8	20.46	20.42	20.34	20.34			
3	QPSK	1	16	20.42	20.37	20.24	20.24			
3	QPSK	8	0	20.42	20.32	20.31	20.31			
3	QPSK	8	8	20.38	20.32	20.21	20.21			
3	QPSK	8	16	20.40	20.37	20.28	20.28	21.5	0	
3	QPSK	16	0	20.39	20.35	20.28	20.28			
3	QPSK	16	8	20.37	20.34	20.25	20.25			
3	QPSK	16	16	20.51	20.38	20.33	20.33			
3	16QAM	1	0	20.44	20.40	20.32	20.32			
3	16QAM	1	8	20.44	20.40	20.32	20.32	21.5	0	
3	16QAM	1	16	20.38	20.18	20.20	20.20			
3	16QAM	8	0	20.38	20.20	20.20	20.20			
3	16QAM	8	8	20.28	20.20	20.14	20.14			
3	16QAM	8	16	20.23	20.19	20.16	20.16			
3	16QAM	16	0	20.41	20.30	20.30	20.30	21.5	0	
3	16QAM	16	8	20.34	20.22	20.29	20.29			
3	16QAM	16	16	20.27	20.18	20.17	20.17			
3	64QAM	1	0	20.46	20.44	20.38	20.38			
3	64QAM	1	8	20.47	20.56	20.48	20.48			
3	64QAM	8	0	20.47	20.56	20.48	20.48	20.5	1	
3	64QAM	8	8	20.37	20.38	20.36	20.36			
3	64QAM	8	16	20.36	20.32	20.29	20.29			
3	256QAM	1	0	19.46	19.48	19.51	19.51			
3	256QAM	1	8	19.47	19.50	19.53	19.53			
Channel				Frequency (MHz)		Frequency (MHz)		Tune-up limit (dBm)	APR3 (dB)	
1.4	QPSK	1	0	20.31	20.28	20.23	20.23	21.5	0	
1.4	QPSK	1	0.5	20.31	20.35	20.28	20.28			
1.4	QPSK	1	1	20.32	20.24	20.24	20.24			
1.4	QPSK	3	0	20.27	20.18	20.17	20.17			
1.4	QPSK	3	1	20.26	20.19	20.17	20.17			
1.4	QPSK	3	2	20.40	20.37	20.28	20.28	21.5	0	
1.4	QPSK	6	0	20.31	20.29	20.22	20.22			
1.4	QPSK	6	0.5	20.31	20.37	20.30	20.30			
1.4	QPSK	1	3	20.42	20.44	20.35	20.35			
1.4	QPSK	1	3.5	20.42	20.46	20.36	20.36			
1.4	QPSK	3	1	20.12	20.05	20.05	20.05	21.5	0	
1.4	QPSK	3	1.5	20.15	20.09	20.05	20.05			
1.4	QPSK	3	2	20.12	20.02	20.06	20.06			
1.4	QPSK	6	0	20.23	20.15	20.09	20.09			
1.4	QPSK									

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	Tune-up limit (dBm)	MPR (dB)	
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	19.20			
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	19.32	19.31	19.25	20.5	0	
20	64QAM	50	50	19.36	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	19.45	19.32	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	Tune-up limit (dBm)	MPR (dB)	
Channel				37925	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	19.45	19.41	19.44			
15	QPSK	1	37	19.50	19.42	19.41	20.5	0	
15	QPSK	1	74	19.50	19.46	19.47			
15	QPSK	36	0	19.30	19.24	19.34			
15	QPSK	36	20	19.34	19.34	19.32	20.5	0	
15	QPSK	36	39	19.33	19.32	19.35			
15	QPSK	75	0	19.28	19.32	19.35			
15	16QAM	1	0	19.33	19.24	19.25	20.5	0	
15	16QAM	1	37	19.22	19.09	19.12			
15	16QAM	1	74	19.34	19.32	19.32			
15	16QAM	36	0	19.27	19.21	19.26	20.5	0	
15	16QAM	36	20	19.32	19.29	19.31			
15	16QAM	36	39	19.34	19.29	19.32			
15	16QAM	75	0	19.31	19.34	19.37	20.5	0	
15	64QAM	1	0	19.14	19.06	19.11			
15	64QAM	1	37	19.09	19.30	19.30			
15	64QAM	1	74	19.06	19.26	19.22	20.5	0	
15	64QAM	36	0	19.30	19.27	19.36			
15	64QAM	36	20	19.33	19.34	19.35			
15	64QAM	36	39	19.37	19.32	19.34	20.5	0	
15	64QAM	75	0	19.32	19.39	19.38			
15	256QAM	1	0	19.29	19.29	19.33			
15	256QAM	1	37	19.40	19.39	19.44	20.5	0	
15	256QAM	1	74	19.39	19.40	19.40			
15	256QAM	36	0	19.41	19.40	19.45			
15	256QAM	36	20	19.35	19.35	19.30	20.5	0	
15	256QAM	36	39	19.28	19.22	19.37			
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	19.39	19.40	19.40			
10	16QAM	50	0	19.41	19.40	19.45			
10	64QAM	1	0	19.35	19.35	19.35	20.5	0	
10	64QAM	1	25	19.28	19.22	19.37			
10	64QAM	1	49	19.32	19.32	19.38			
10	64QAM	25	0	19.29	19.27	19.25	20.5	0	
10	64QAM	25	12	19.39	19.34	19.37			
10	64QAM	25	25	19.37	19.39	19.36			
10	64QAM	50	0	19.32	19.32	19.35	20.5	0	
10	256QAM	1	0	19.12	19.14	19.16			
10	256QAM	1	25	19.13	19.11	19.15			
10	256QAM	1	49	19.19	19.17	19.19	20.5	0	
10	256QAM	25	0	19.05	19.05	19.08			
10	256QAM	25	12	19.11	19.12	19.16			
10	256QAM	25	25	19.15	19.14	19.16	20.5	0	
10	256QAM	50	0	19.29	19.26	19.29			
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			
5	64QAM	1	12	19.11	19.12	19.16	20.5	0	
5	64QAM	1	24	19.15	19.14	19.16			
5	64QAM	12	0	19.29	19.26	19.29			
5	64QAM	12	7	19.38	19.35	19.35	20.5	0	
5	64QAM	12	13	19.33	19.31	19.34			
5	64QAM	25	0	19.35	19.30	19.36			
5	256QAM	1	0	19.36	19.37	19.41	20.5	0	
5	256QAM	1	12	19.31	19.33	19.40			
5	256QAM	1	24	19.31	19.32	19.35			
5	256QAM	12	0	19.18	19.18	19.20	20.5	0	
5	256QAM	12	7	19.25	19.29	19.18			
5	256QAM	12	13	19.21	19.20	19.28			
5	256QAM	25	0	19.13	19.10	19.08			

Band 41 DSI 1/5										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	19.46	19.50	19.76	19.49	19.64	20.5	0
20	QPSK	1	49	19.53	19.59	19.43	19.50	19.61		
20	QPSK	1	99	19.54	19.63	19.54	19.55	19.62		
20	QPSK	1	0	19.26	19.30	19.45	19.58	19.64		
20	QPSK	50	24	19.47	19.55	19.52	19.56	19.65	20.5	0
20	QPSK	50	50	19.47	19.53	19.59	19.65	19.68		
20	QPSK	100	0	19.47	19.53	19.67	19.54	19.66		
20	16QAM	1	0	19.37	19.44	19.59	19.62	19.66		
20	16QAM	1	49	19.35	19.48	19.48	19.54	19.62	20.5	0
20	16QAM	1	99	19.35	19.42	19.59	19.61	19.72		
20	16QAM	50	0	19.33	19.49	19.52	19.58	19.67		
20	16QAM	50	24	19.45	19.56	19.55	19.62	19.66		
20	16QAM	50	50	19.46	19.56	19.68	19.66	19.71	20.5	0
20	16QAM	100	0	19.43	19.56	19.55	19.59	19.75		
20	64QAM	1	0	19.18	19.17	19.42	19.44	19.53		
20	64QAM	1	49	19.11	19.32	19.45	19.46	19.38		
20	64QAM	1	99	19.34	19.38	19.37	19.41	19.40	20.5	0
20	64QAM	50	0	19.29	19.43	19.48	19.53	19.60		
20	64QAM	50	24	19.38	19.48	19.48	19.55	19.61		
20	64QAM	50	50	19.38	19.47	19.64	19.64	19.64		
20	256QAM	100	0	19.46	19.58	19.58	19.61	19.64	20.5	0
20	256QAM	1	0	19.35	19.42	19.58	19.61	19.72		
20	256QAM	1	49	19.33	19.49	19.52	19.58	19.67		
20	256QAM	1	99	19.45	19.56	19.56	19.62	19.66		
20	256QAM	50	0	19.46	19.56	19.68	19.66	19.71	20.5	0
20	256QAM	50	24	19.43	19.56	19.56	19.63	19.70		
20	256QAM	50	50	19.18	19.17	19.42	19.44	19.53		
20	256QAM	100	0	19.29	19.43	19.48	19.53	19.60		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	19.19	19.35	19.40	19.44	19.55	20.5	0
15	QPSK	1	37	19.23	19.33	19.45	19.42	19.50		
15	QPSK	1	74	19.26	19.47	19.55	19.55	19.62		
15	QPSK	36	0	19.30	19.43	19.50	19.53	19.64		
15	QPSK	36	20	19.41	19.52	19.51	19.61	19.62	20.5	0
15	QPSK	36	39	19.40	19.49	19.58	19.62	19.69		
15	QPSK	75	0	19.41	19.53	19.50	19.59	19.63		
15	QPSK	1	0	19.35	19.44	19.59	19.59	19.61		
15	16QAM	1	37	19.27	19.40	19.51	19.51	19.65	20.5	0
15	16QAM	1	74	19.30	19.58	19.65	19.69	19.76		
15	16QAM	36	0	19.25	19.35	19.45	19.54	19.61		
15	16QAM	36	20	19.34	19.42	19.45	19.61	19.58		
15	16QAM	1	37	19.36	19.47	19.58	19.60	19.65	20.5	0
15	16QAM	75	0	19.42	19.50	19.51	19.66	19.65		
15	64QAM	1	0	19.16	19.29	19.35	19.58	19.50		
15	64QAM	1	37	19.21	19.34	19.36	19.46	19.48		
15	64QAM	1	74	19.15	19.46	19.40	19.64	19.54	20.5	0
15	64QAM	36	0	19.31	19.41	19.51	19.56	19.64		
15	64QAM	36	20	19.38	19.49	19.48	19.60	19.63		
15	64QAM	36	39	19.39	19.47	19.58	19.64	19.69		
15	64QAM	75	0	19.38	19.52	19.53	19.66	19.65	20.5	0
15	256QAM	1	0	19.38	19.47	19.64	19.64	19.64		
15	256QAM	1	37	19.46	19.58	19.59	19.61	19.76		
15	256QAM	1	74	19.35	19.42	19.58	19.61	19.72		
15	256QAM	36	0	19.40	19.49	19.58	19.62	19.69	20.5	0
15	256QAM	36	20	19.41	19.53	19.50	19.66	19.63		
15	256QAM	36	39	19.35	19.44	19.56	19.59	19.76		
15	256QAM	75	0	19.27	19.40	19.51	19.51	19.65		
Channel				39760	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507	25412	2593	2639	2687		
10	QPSK	1	0	19.24	19.37	19.40	19.50	19.65	20.5	0
10	QPSK	1	25	19.29	19.43	19.48	19.55	19.62		
10	QPSK	1	49	19.39	19.44	19.48	19.53	19.61		
10	QPSK	25	0	19.31	19.46	19.52	19.57	19.64		
10	QPSK	25	12	19.42	19.53	19.54	19.70	19.75	20.5	0
10	QPSK	25	25	19.41	19.52	19.61	19.69	19.73		
10	QPSK	50	0	19.42	19.53	19.55	19.68	19.72		
10	16QAM	1	0	19.38	19.46	19.59	19.66	19.76		
10	16QAM	1	25	19.40	19.50	19.58	19.64	19.77	20.5	0
10	16QAM	1	49	19.44	19.49	19.55	19.67	19.73		
10	16QAM	25	0	19.30	19.43	19.52	19.50	19.62		
10	16QAM	25	12	19.45	19.60	19.58	19.73	19.76		
10	16QAM	25	25	19.39	19.52	19.64	19.69	19.73	20.5	0
10	16QAM	50	0	19.44	19.57	19.57	19.73	19.77		
10	64QAM	1	0	19.34	19.40	19.51	19.53	19.66		
10	64QAM	1	25	19.30	19.45	19.46	19.59	19.64		
10	64QAM	1	49	19.34	19.47	19.47	19.63	19.66	20.5	0
10	64QAM	25	0	19.28	19.42	19.52	19.55	19.64		
10	64QAM	25	12	19.40	19.51	19.56	19.69	19.68		
10	64QAM	25	25	19.37	19.48	19.52	19.63	19.72		
10	64QAM	50	0	19.38	19.50	19.50	19.65	19.73	20.5	0
10	256QAM	1	0	19.15	19.46	19.40	19.64	19.54		
10	256QAM	1	25	19.31	19.42	19.51	19.56	19.64		
10	256QAM	1	49	19.38	19.49	19.46	19.60	19.63		
10	256QAM	25	0	19.39	19.47	19.58	19.64	19.69	20.5	0
10	256QAM	25	12	19.38	19.52	19.53	19.66	19.65		
10	256QAM	25	25	19.39	19.47	19.64	19.64	19.64		
10	256QAM	50	0	19.15	19.46	19.40	19.64	19.54		
Channel				39675	40148	40620	41003	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	19.28	19.31	19.49	19.52	19.58	20.5	0
5	QPSK	1	12	19.31	19.43	19.51	19.53	19.62		
5	QPSK	1	24	19.28	19.36	19.50	19.55	19.62		
5	QPSK	1	0	19.39	19.46	19.49	19.59	19.68		
5	QPSK	12	7	19.42	19.52	19.59	19.70	19.72	20.5	0
5	QPSK	12	13	19.43	19.52	19.60	19.65	19.73		
5	QPSK	25	0	19.40	19.48	19.53	19.65	19.69		
5	16QAM	1	0	19.38	19.47	19.63	19.65	19.71		
5	16QAM	1	12	19.42	19.47	19.67	19.75	19.68	20.5	0
5	16QAM	1	24	19.45	19.60	19.58	19.75	19.76		
5	16QAM	12	0	19.37	19.43	19.53	19.60	19.63		
5	16QAM	12	7	19.42	19.48	19.64	19.67	19.73		
5	16QAM	12	13	19.37	19.47	19.63	19.64	19.69	20.5	0
5	16QAM	25	0	19.44	19.52	19.57	19.68	19.77		
5	16QAM	1	0	19.12	19.22	19.38	19.41	19.47		
5	16QAM	1	12	19.20	19.33	19.36	19.46	19.55		
5	64QAM	1	24	19.23	19.28	19.39	19.46	19.55	20.5	0
5	64QAM	12	0	19.35	19.40	19.54	19.59	19.66		
5	64QAM	12	7	19.39	19.53	19.57	19.66	19.71		
5	64QAM	12	13	19.39	19.48	19.59	19.61	19.71		
5	256QAM	25	0	19.29	19.44	19.45	19.65	19.68	20.5	0
5	256QAM	1	0	19.44	19.49	19.55	19.67	19.73		
5	256QAM	1	12	19.30	19.43	19.52	19.60	19.67		
5	256QAM	1	24	19.45	19.60	19.58	19.73	19.76		
5	256QAM	12	0	19.39	19.52	19.64	19.69	19.73	20.5	0
5	256QAM	12	7	19.44	19.57	19.57	19.73	19.76		
5	256QAM	24	13	19.34	19.40	19.51	19.53	19.66		
5	256QAM	25	0	19.30	19.45	19.46	19.59	19.64		

UL CA

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	
20850		21048		QPSK		1		0 0 0	
								16.31	
21100		20902		QPSK		1		0 1 99	
								16.37	
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	RB Offset	Band	(MHz)	Freq	Channel	Band	(MHz)	Freq	Channel	Tx. Power	Tx. Power		
				(MHz)							(MHz)				(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		
CA_4A-7C	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		
	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		
CA_5A-7C	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_2A-7A-7A	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		
CA_2A-4A-7A	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		
	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		
CA_2A-4A-7A	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		
CA_2A-4A-7A	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		
	Band7	Ant7	20M	2535	21100	QPSK	1	0	Band2	20M	1960	900	Band4	20M	2132.5	2175	20.11	20.13		

4CA DL

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

Configure		POC								SCC1				SCC2				SCC3				Power	
		LTE	Antenna Port	BW	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx Power (dBm)	Without CA Tx Power (dBm)
		Band		(MHz)																			
	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	20.03	20.13
	CA_5A-7A-66A-66A	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	24.1	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	24.52	24.66
		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 7	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	22.84	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	20.11	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	23.0	2.5	
20	8QAM	1	1	24.04	23.94	24.16			
20	8QAM	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 166800	Power Middle Ch / Freq 167300	Power High Ch / Freq 167800	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	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	22.0	2.5	
20	8QAM	1	1	23.37	23.26	23.22			
20	8QAM	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	64QAM	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				505000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
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)				2512.5	2535	2557.5			
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)				2510	2535	2550			
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)				2507.5	2535	2562.5			
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)				2505	2535	2565			
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)				2492.5	2535	2567.5			
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				505500	507000	509000				
Frequency (MHz)				2625	2635	2645				
50	PI2 BPSK	1	1	22.10	22.12	22.12		23.5	0.0	
50	PI2 BPSK	1	137	22.02	22.04	22.04				
50	PI2 BPSK	1	271	21.76	21.98	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		
50	PI2 BPSK	135	138	22.01	22.03	22.03	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	
50	QPSK	1	271	21.88	21.97	21.84				
50	QPSK	135	0	21.01	21.07	21.01	22.5	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		
50	QPSK	270	0	20.87	20.85	20.89				
50	16QAM	1	1	21.14	21.15	21.14	22.5	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		
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		

Ant 3 n7 SA										
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				2625	2635	2645				
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		
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	
50	QPSK	1	271	22.12	22.42	22.01				
50	QPSK	135	0	20.13	20.44	20.65	23.0	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		
50	QPSK	270	0	21.23	21.45	21.34				
50	16QAM	1	1	21.23	21.12	21.22	23.0	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		
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		

Ant 3 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				2655	2655	2645				
Frequency (MHz)										
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		24.0	0.5	
50	PI2 BPSK	135	0	24.10	24.10	24.03				
50	PI2 BPSK	135	69	24.43	24.59	24.55	25.5	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	24.83	24.88				
50	QPSK	1	137	24.54	24.63	24.44		25.5	0.0	
50	QPSK	1	271	24.44	24.70	24.65				
50	QPSK	135	0	23.65	23.56	23.65	24.5	1.0		
50	QPSK	135	69	24.54	24.68	24.54	25.5			
50	QPSK	135	138	24.68	24.65	24.55	24.5	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		
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		
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
40	QPSK	1	1	24.44	24.65	24.66	25.5	0.0		
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
30	QPSK	1	1	24.55	24.65	24.56	0.0	0.0		
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
25	QPSK	1	1	24.55	24.67	24.72	0.0	0.0		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
20	QPSK	1	1	24.79	24.92	24.79	25.5	0.0		
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
15	QPSK	1	1	24.74	24.74	24.81	25.5	0.0		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
10	QPSK	1	1	24.87	24.77	24.70	25.5	0.0		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
5	QPSK	1	1	24.81	24.65	24.65	25.5	0.0		

Ant 4 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									
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	0.0	
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	1.0	
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	2.5	
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)	
				25.05	25.55	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)	
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)	
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)	
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)	
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)	
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)	
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)				505000	507000	509000			
				22.05	22.05	22.65			
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	22.39	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	21.56	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	17.99	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	22.36	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	

Ant 7 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									
	Frequency (MHz)			500000	507000	506000			
				25.05	25.05	25.45			
50	PI2 BPSK	1	1	19.05	19.32	19.20	20.5	0.0	0.0
50	PI2 BPSK	1	137	19.06	19.38	19.30			
50	PI2 BPSK	1	271	19.27	19.54	19.18			
50	PI2 BPSK	135	0	18.88	18.97	19.04	20.0	0.5	0.5
50	PI2 BPSK	135	69	19.08	19.37	19.37	20.5	0.0	0.0
50	PI2 BPSK	135	138	19.10	19.35	19.17	20.0	0.5	0.5
50	PI2 BPSK	270	0	18.76	18.63	18.49	20.5	0.0	0.0
50	QPSK	1	1	19.63	19.78	19.59			
50	QPSK	1	137	19.05	19.40	19.40			
50	QPSK	1	271	19.06	19.47	19.19	19.5	1.0	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	1.0
50	QPSK	270	0	18.38	18.45	18.41	19.0	2.5	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	4.5
Channel									
Frequency (MHz)				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	19.17	19.10	19.37	20.5	0.0	0.0
Channel									
Frequency (MHz)				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	19.05	19.11	19.40	0.0	0.0	0.0
Channel									
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	18.99	19.00	19.22	0.0	0.0	0.0
Channel									
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	19.60	19.54	19.71	20.5	0.0	0.0
Channel									
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	19.57	19.53	19.63	20.5	0.0	0.0
Channel									
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	19.81	19.76	19.69	20.5	0.0	0.0
Channel									
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	19.82	19.71	19.72	20.5	0.0	0.0

Ant 7 n7 NSA									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 500000	Power Middle Ch. / Freq. 507000	Power High Ch. / Freq. 509000	Tune-up limit (dBm)	MPR (dB)	
Channel				500000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PI2 BPSK	1	1	21.90	22.10	21.81	22.5	0.0	
50	PI2 BPSK	1	137	22.01	22.04	21.92			
50	PI2 BPSK	1	271	21.69	21.59	21.67			
50	PI2 BPSK	135	0	21.46	21.54	21.44	22.0	0.5	
50	PI2 BPSK	135	69	21.80	21.97	21.87	22.5	0.0	
50	PI2 BPSK	135	138	21.78	21.94	21.98	22.0	0.5	
50	PI2 BPSK	270	0	21.81	21.50	21.56			
50	QPSK	1	1	21.95	22.17	21.76			
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	21.09	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	21.5	1.0	
50	16QAM	1	1	21.03	21.08	21.14			
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			
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	1	21.90	21.70	21.70	22.5	0.0	
Channel				503000	507000	511000			
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	21.80	21.80	21.70	0.0	0.0	
Channel				502500	507000	511500			
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	21.58	21.79	21.81	0.0	0.0	
Channel				502000	507000	512000			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	21.70	21.68	21.68	22.5	0.0	
Channel				501500	507000	512500			
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			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	21.90	21.80	21.84	22.5	0.0	
Channel				500500	507000	513500			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	21.70	21.69	21.69	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				506202	518598	528000			
Frequency (MHz)				2541.01	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	270	0	23.65	23.86	23.87	24.5	1.0	
100	QPSK	135	136	23.51	23.55	23.52	24.5	1.0	
100	16QAM	1	1	23.19	23.36	23.19			
100	16QAM	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)				2511.01	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	2674.98			
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.)	Turn-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	16QAM	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	22.45	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	22.56	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	256QAM	1	1	18.00	18.01	17.92	19.5	4.5	
Channel				506200	518598	528998			
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	22.69	22.67	22.70	24.0	0.0	
Channel				505200	518598	531998			
Frequency (MHz)				2506.02	2592.99	2659.99			
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	518898	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	518898	528996		MPR		
Frequency (MHz)				2541	2592.99	2644.98		(dB)		
90	QPSK	120	60	24.55	24.22	24.43	25.5	0.0		
Channel				507204	518898	529998		Tune-up limit		
Frequency (MHz)				2536.02	2592.99	2649.99		(dB)		
80	QPSK	108	54	24.65	24.55	24.53	25.5	0.0		
Channel				505200	518898	531996		Tune-up limit		
Frequency (MHz)				2526	2592.99	2659.98		(dBm)		
60	QPSK	81	40	24.45	24.56	24.43	25.5	0.0		
Channel				2522.04	518598	532098		MPR		
Frequency (MHz)				2521.02	2592.99	2664.99		(dB)		
50	QPSK	64	32	24.66	24.66	24.67	25.5	0.0		
Channel				503202	518898	534000		MPR		
Frequency (MHz)				2416.01	2592.99	2670		(dB)		
40	QPSK	50	25	24.55	24.53	24.53	25.5	0.0		
Channel				502200	518898	534996		Tune-up limit		
Frequency (MHz)				2411	2592.99	2674.98		(dB)		
30	QPSK	36	18	24.56	24.65	24.67	25.5	0.0		
Channel				501204	518898	535996		MPR		
Frequency (MHz)				2506.02	2592.99	2679.99		(dB)		
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	518898	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	23.89	23.94	23.89	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	22.78	22.85	24.5	1.0		
100	64QAM	1	1	20.54	20.68	20.56	23.0	2.5		
100	256QAM	1	1	19.45	19.27	19.20	21.0	4.5		
Channel				506200	518898	528996		MPR		
Frequency (MHz)				2541	2592.99	2644.98		(dB)		
90	QPSK	1	1	24.43	24.43	24.45	25.5	0.0		
Channel				507204	518898	529998		Tune-up limit		
Frequency (MHz)				2536.02	2592.99	2649.99		(dB)		
80	QPSK	1	1	24.34	24.44	24.43	25.5	0.0		
Channel				505200	518898	531996		Tune-up limit		
Frequency (MHz)				2526	2592.99	2659.98		(dBm)		
60	QPSK	1	1	24.54	24.53	24.51	25.5	0.0		
Channel				505204	518598	532098		MPR		
Frequency (MHz)				2521.02	2592.99	2664.99		(dB)		
50	QPSK	1	1	24.56	24.53	24.56	25.5	0.0		
Channel				503202	518898	534000		MPR		
Frequency (MHz)				2416.01	2592.99	2670		(dB)		
40	QPSK	1	1	24.67	24.66	24.67	25.5	0.0		
Channel				502200	518898	534996		Tune-up limit		
Frequency (MHz)				2411	2592.99	2674.98		(dB)		
30	QPSK	1	1	24.54	24.55	24.54	25.5	0.0		
Channel				501204	518898	535996		MPR		
Frequency (MHz)				2506.02	2592.99	2679.99		(dB)		
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				506202	518898	528000				
Frequency (MHz)				2566.01	2592.99	2640				
17.50	100	Pi2 BPSK	1	1	21.56	21.44	21.65			
	100	Pi2 BPSK	1	137	21.67	21.54	21.66	22.5	0.0	0.0
	100	Pi2 BPSK	1	271	21.66	21.72	21.62			
	100	Pi2 BPSK	135	0	21.61	21.64	21.61	22.0	0.5	0.5
	100	Pi2 BPSK	135	69	21.76	21.82	21.65	22.5	0.0	0.0
	100	Pi2 BPSK	135	138	21.77	21.89	21.66	22.0	0.5	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	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	1.0
	100	QPSK	135	69	21.34	21.68	21.46	22.5	0.0	0.0
100	QPSK	135	138	21.77	21.87	21.66	21.5	1.0	1.0	
100	QPSK	270	0	20.85	20.97	20.78	21.5	1.0	1.0	
100	16QAM	1	1	20.01	20.05	20.01	21.5	1.0	1.0	
100	64QAM	1	1	19.45	19.65	19.54	20.0	2.5	2.5	
100	256QAM	1	1	17.77	17.82	17.66	18.0	4.5	4.5	
Channel				506200	518898	528996		MPR (dB)		
Frequency (MHz)				2541	2592.99	2644.98		(dB)		
90	QPSK	120	60	21.56	21.45	21.22	22.5	0.0	0.0	
Channel				507204	518898	529998		Tune-up limit (dB)		
Frequency (MHz)				2536.02	2592.99	2649.99		(dB)		
80	QPSK	108	54	21.54	21.65	21.51	22.5	0.0	0.0	
Channel				505200	518898	531996		Tune-up limit (dB)		
60	QPSK	81	40	21.55	21.47	21.60	22.5	0.0	0.0	
Channel				504204	518898	526998		Tune-up limit (dB)		
40	QPSK	54	27	21.57	21.55	21.56	22.5	0.0	0.0	
Channel				503202	518898	534000		Tune-up limit (dB)		
20	QPSK	54	27	21.57	21.55	21.56	22.5	0.0	0.0	
Channel				501204	518898	536000		Tune-up limit (dB)		
10	QPSK	54	27	21.57	21.55	21.56	22.5	0.0	0.0	
Channel				500202	518898	538000		Tune-up limit (dB)		
5	QPSK	54	27	21.57	21.55	21.56	22.5	0.0	0.0	
Channel				498204	518898	540000		Tune-up limit (dB)		
5	QPSK	26	12	21.45	21.44	21.51	22.5	0.0	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)	
Frequency (MHz)				2521.02	2592.99	2664.99			
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)	
Channel				502000	518568	534996			
Frequency (MHz)				2509	2592.99	2674.99			
30	QPSK	1	1	19.93	19.76	19.72	20.5	0.0	
Channel				501204	518568	533998			
Frequency (MHz)				2506.02	2592.99	2675.99	17mT1	MPR (dB)	
Channel				501204	518568	533998			
Frequency (MHz)				2506.02	2592.99	2675.99			
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)	
Frequency (MHz)				2521.02	2592.99	2664.99			
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)	
Channel				502000	518568	534996			
Frequency (MHz)				2509	2592.99	2674.99			
40	QPSK	1	1	22.91	22.89	23.01	23.5	0.0	
Channel				502200	518568	534996			
Frequency (MHz)				2509	2592.99	2674.99			
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)	
Channel				501204	518568	533998			
Frequency (MHz)				2506.02	2592.99	2675.99			
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				649668	656000	662334	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	25.5	0.0	
Channel				649000	656000	663334			
Frequency (MHz)				3730.02	3840	3950.01	Tune-up limit (dBm)	MPR	
80	QPSK	1	1	24.56	24.45	24.52	25.5	0.0	
Channel				648551	656000	663668			
Frequency (MHz)				3725.01	3840	3955.02	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	24.59	24.50	24.55	25.5	0.0	
Channel				647500	656000	663534			
Frequency (MHz)				3715.02	3840	3965.01	Tune-up limit (dBm)	MPR	
30	QPSK	1	1	24.63	24.64	24.65	25.5	0.0	
Channel				647000	656000	663000			
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	3440	3600			
100	Pl2 BPSK	1	1	26.15	26.17	26.12		27.5	0.0
100	Pl2 BPSK	1	137	26.21	26.29	26.21			
100	Pl2 BPSK	1	271	26.12	26.37	26.33			
100	Pl2 BPSK	136	0	26.11	26.76	26.93		27.5	0.0
100	Pl2 BPSK	136	69	26.21	26.24	26.11			
100	Pl2 BPSK	136	136	26.96	26.75	26.72			
100	Pl2 BPSK	270	0	25.83	25.67	25.86	27.0	0.5	
100	QPSK	1	1	26.21	26.36	26.22		27.5	0.0
100	QPSK	1	137	26.21	26.23	26.21			
100	QPSK	1	271	26.12	26.24	26.32			
100	QPSK	136	0	25.03	25.06	25.02		27.5	0.0
100	QPSK	136	69	26.11	26.25	26.22			
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 (dBm)	MPR	
Frequency (MHz)				3163.02	3440	3623.01	(dBm)		
90	QPSK	1	1	26.21	26.07	26.10	27.5	0.0	
Channel				648334	656000	662668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)		
80	QPSK	1	1	26.11	26.10	26.18	27.5	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)		
60	QPSK	1	1	26.11	26.06	26.07	27.5	0.0	
Channel				648334	656000	662668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)		
50	QPSK	1	1	26.16	26.18	26.10	27.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3730	3840	3940	(dBm)		
40	QPSK	1	1	26.07	26.14	26.10	27.5	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3710.02	3840	3953.01	(dBm)		
30	QPSK	1	1	26.16	26.19	26.20	27.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)		
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	3440	3600			
100	Pl2 BPSK	1	1	22.43	22.37	22.33		23.0	0.0
100	Pl2 BPSK	1	137	21.77	22.36	22.29			
100	Pl2 BPSK	1	271	22.09	22.40	22.37			
100	Pl2 BPSK	136	0	22.06	22.15	22.36		23.0	0.0
100	Pl2 BPSK	136	69	21.89	22.20	22.10			
100	Pl2 BPSK	136	136	22.15	22.13	22.17			
100	Pl2 BPSK	270	0	22.07	22.08	22.21	22.5	0.5	
100	QPSK	1	1	22.25	22.46	22.05		23.0	0.0
100	QPSK	1	137	22.00	22.12	22.18			
100	QPSK	1	271	21.90	22.07	22.17			
100	QPSK	136	0	21.88	22.00	22.05		23.0	0.0
100	QPSK	136	69	22.02	22.07	21.97			
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 (dBm)	MPR	
Frequency (MHz)				3163.02	3440	3623.01	(dBm)		
90	QPSK	1	1	22.32	22.08	22.10	23.0	0.0	
Channel				648334	656000	662668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)		
80	QPSK	1	1	22.22	22.11	22.18	23.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)		
60	QPSK	1	1	22.22	22.01	22.07	23.0	0.0	
Channel				648334	656000	662668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)		
50	QPSK	1	1	22.27	22.19	22.10	23.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3730	3840	3940	(dBm)		
40	QPSK	1	1	22.18	22.15	22.10	23.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3710.02	3840	3953.01	(dBm)		
30	QPSK	1	1	22.29	22.20	22.20	23.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)		
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	3440	3600			
100	Pl2 BPSK	1	1	20.60	20.54	20.50		21.0	0.0
100	Pl2 BPSK	1	137	19.94	20.53	20.46			
100	Pl2 BPSK	1	271	20.26	20.67	20.54			
100	Pl2 BPSK	136	0	20.22	20.32	20.52		21.0	0.0
100	Pl2 BPSK	136	69	20.06	20.37	20.27			
100	Pl2 BPSK	136	136	20.32	20.30	20.34			
100	Pl2 BPSK	270	0	20.24	20.25	20.38	20.5	0.5	
100	QPSK	1	1	20.40	20.65	20.22		21.0	0.0
100	QPSK	1	137	20.17	20.29	20.35			
100	QPSK	1	271	20.07	20.24	20.34			
100	QPSK	136	0	20.05	20.17	20.22		21.0	0.0
100	QPSK	136	69	20.19	20.44	20.14			
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 (dBm)	MPR	
Frequency (MHz)				3163.02	3440	3623.01	(dBm)		
90	QPSK	1	1	20.49	20.25	20.27	21.0	0.0	
Channel				648334	656000	662668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)		
80	QPSK	1	1	20.39	20.29	20.35	21.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)		
60	QPSK	1	1	20.39	20.18	20.24	21.0	0.0	
Channel				648334	656000	662668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)		
50	QPSK	1	1	20.44	20.36	20.27	21.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3730	3840	3940	(dBm)		
40	QPSK	1	1	20.35	20.32	20.27	21.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3710.02	3840	3953.01	(dBm)		
30	QPSK	1	1	20.46	20.37	20.37	21.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)		
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	19.96	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	19.98	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				649968	650000	650234	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3745.02	3840	3933.01	(dBm)	(dB)		
90	QPSK	1	1	20.12	19.98	20.01	21.5	0.0		
Channel				649334	650000	650968	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				649968	650000	650334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)		
60	QPSK	1	1	20.07	20.08	20.01	21.5	0.0		
Channel				647334	650000	650968	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	650000	654000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3724	3840	3960	(dBm)	(dB)		
40	QPSK	1	1	20.09	20.10	20.11	21.5	0.0		
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3713.02	3840	3953.01	(dBm)	(dB)		
30	QPSK	1	1	20.08	20.08	20.12	21.5	0.0		
Channel				647334	650000	654968	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	650000	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	20.45	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	20.89	20.65	20.89				
100	QPSK	135	138	20.32	20.11	20.12				
100	QPSK	270	0	19.92	19.91	19.98	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				649968	650000	650234	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	650000	650968	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				649968	650000	650334	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	650000	650968	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	650000	654000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)		
40	QPSK	1	1	20.62	20.58	20.57	22.0	0.0		
Channel				647668	650000	654334	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	650000	654968	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	650000	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	0.0		
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	0.0		
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				649968	650000	650234	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3745.02	3840	3933.01	(dBm)	(dB)		
90	QPSK	1	1	18.68	18.62	18.54	20.0	0.0		
Channel				649334	650000	650968	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)		
80	QPSK	1	1	18.58	18.58	18.62	20.0	0.0		
Channel				649698	650000	650334	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3742.02	3840	3950.01	(dBm)	(dB)		
60	QPSK	1	1	18.63	18.65	18.65	20.0	0.0		
Channel				649334	650000	650968	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3726.01	3840	3955.02	(dBm)	(dB)		
50	QPSK	1	1	18.40	18.57	18.57	20.0	0.0		
Channel				649000	650000	650000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)		
40	QPSK	1	1	18.46	18.66	18.75	20.0	0.0		
Channel				649200	650000	650334	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				649234	650000	649968	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3702.02	3840	3970.02	(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	16.60	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		18.5	
100	256QAM	1	1	16.68	16.62	16.40			
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				647766	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	3910.02	(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)				2160	2160	2160			
100	Pi2 BPSK	1	1	19.29	19.57	19.37			
100	Pi2 BPSK	1	137	19.41	19.70	19.71	20.0		
100	Pi2 BPSK	1	271	19.52	19.87	19.69			
100	Pi2 BPSK	136	0	19.36	19.56	19.55			
100	Pi2 BPSK	136	69	19.24	19.63	19.46	20.0		
100	Pi2 BPSK	136	136	19.42	19.78	19.61			
100	Pi2 BPSK	270	0	19.07	19.06	19.01	19.5		
100	QPSK	1	1	19.56	19.66	19.67			
100	QPSK	1	137	19.32	19.67	19.60	20.0		
100	QPSK	1	271	19.61	19.87	19.73			
100	QPSK	136	0	19.37	19.62	19.45			
100	QPSK	136	69	19.35	19.73	19.56	20.0		
100	QPSK	136	136	19.54	19.72	19.67			
100	QPSK	270	0	18.43	18.64	18.45	19.0		
100	16QAM	1	1	18.19	18.44	18.32	19.0		
100	64QAM	1	1	17.22	17.07	17.06	17.5		
100	256QAM	1	1	15.14	15.02	15.04	15.5		
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		
Channel				648334	656000	662668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	19.41	19.77	19.82	20.0		
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		
Channel				3725.01	3840	3955.02	Tune-up limit	MPR	
Frequency (MHz)				19.78	19.80	19.74	20.0		
50	QPSK	1	1	19.78	19.80	19.74	20.0		
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		
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		
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		

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)				2160	2160	2160			
100	Pi2 BPSK	1	1	16.98	17.26	17.06			
100	Pi2 BPSK	1	137	17.10	17.39	17.40	18.0		
100	Pi2 BPSK	1	271	17.21	17.56	17.38			
100	Pi2 BPSK	136	0	17.05	17.27	17.24			
100	Pi2 BPSK	136	69	16.93	17.32	17.15	18.0		
100	Pi2 BPSK	136	136	17.11	17.47	17.30			
100	Pi2 BPSK	270	0	17.06	17.35	17.30	17.5		
100	QPSK	1	1	17.26	17.67	17.36			
100	QPSK	1	137	17.01	17.36	17.29	18.0		
100	QPSK	1	271	17.30	17.56	17.42			
100	QPSK	136	0	17.06	17.31	17.14			
100	QPSK	136	69	17.04	17.42	17.25	18.0		
100	QPSK	136	136	17.23	17.41	17.36			
100	QPSK	270	0	16.12	16.33	16.14	17.0		
100	16QAM	1	1	16.08	16.13	16.01	17.0		
100	64QAM	1	1	15.01	15.16	15.06	15.5		
100	256QAM	1	1	13.03	13.21	13.03	13.5		
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		
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		
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		
Channel				3725.01	3840	3955.02	Tune-up limit	MPR	
Frequency (MHz)				17.47	17.49	17.43	18.0		
50	QPSK	1	1	17.47	17.49	17.43	18.0		
Channel				648000	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		
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	19.0		
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		

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			
100	Pi2 BPSK	1	137	19.66	19.51	19.41	21.5	0.0	
100	Pi2 BPSK	1	271	19.53	19.46	19.55			
100	Pi2 BPSK	136	0	19.35	19.37	19.63			
100	Pi2 BPSK	136	69	19.31	19.32	19.52	21.5	0.0	
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			
100	QPSK	1	137	19.33	19.38	19.22	21.5	0.0	
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				648334	656000	663668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3955.02	(dBm)	(dB)	
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				647668	656000	664334	Tune-up limit	MPR	
Frequency (MHz)				3112.02	3160	3203.01	(dBm)	(dB)	
30	QPSK	1	1	19.46	19.42	19.41	21.5	0.0	
Channel				647334	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3110.01	3840	3970.02	(dBm)	(dB)	
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				649334	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				649334	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	20.0	1.0	
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)				3745.02	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				649334	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	17.89	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	17.86	17.89	17.74			
50	64QAM	1	1	17.93	18.08	17.75	19.5	0.0	
50	256QAM	1	1	17.82	17.88	17.63			
Channel				504000	504000	510000			
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)				252000	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Channel				25612.5	5335	25612.5	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	17.58	17.59	17.66	19.5	0.0	
Channel									
Frequency (MHz)				504000	504000	510000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	17.62	17.63	17.45	19.5	0.0	
Channel									
Frequency (MHz)				2567.5	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)				504000	504000	510000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	17.56	17.63	17.66	19.5	0.0	
Channel									
Frequency (MHz)				25602.5	507000	512000	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	25355	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	64QAM	1	1	14.12	13.20	14.01			
50	256QAM	1	1	14.11	14.12	14.15	15.5	0.0	
Channel									
				500000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2530	2535	2550			
40	QPSK	1	1	14.11	14.01	14.22	15.5	0.0	
Channel									
				500000	25355	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									
				925500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				25412 <td>2535</td> <td>2567.5</td> <th colspan="3"></th>	2535	2567.5			
25	QPSK	1	1	14.17	14.18	14.05	15.5	0.0	
Channel									
				500000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2535 <td>2535</td> <td>2567.5</td> <th colspan="3"></th>	2535	2567.5			
20	QPSK	1	1	14.21	14.22	14.04	15.5	0.0	
Channel									
				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2567.5 <td>2535</td> <td>2562.5</td> <th colspan="3"></th>	2535	2562.5			
15	QPSK	1	1	14.22	14.11	14.18	15.5	0.0	
Channel									
				500000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2562.5 <td>2535</td> <td>2567.5</td> <th colspan="3"></th>	2535	2567.5			
10	QPSK	1	1	14.15	14.22	14.05	15.5	0.0	
Channel									
				505500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2562.5 <td>2535</td> <td>2567.5</td> <th colspan="3"></th>	2535	2567.5			
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	2557			
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	2560			
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			
				2525	2535	2545			
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)				2510	2535	2557			
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)				2505	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)				2500	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				508000	509000	508000			
Frequency (MHz)				2525	2535	2545			
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	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)				2515	2535	2555			
30	QPSK	1	1	16.66	16.48	16.42	17.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
25	QPSK	1	1	16.34	16.55	16.45	17.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
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)				2500	2535	2565.5			
15	QPSK	1	1	16.41	16.49	16.48	17.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2495	2535	2570.5			
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)				2490	2535	2575.5			
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				2425	2535	2545				
Frequency (MHz)				50500	50700	50900				
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		14.5	0.0	
50	Pl2 BPSK	135	0	13.85	14.00	13.96				
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				
50	Pl2 BPSK	270	0	13.91	13.84	13.71		14.5	0.0	
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				
50	QPSK	135	0	13.84	13.97	13.92		14.5	0.0	
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				
50	16QAM	1	1	13.84	13.99	13.84		14.5	0.0	
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 (dBm)	MPR (dB)		
Frequency (MHz)				2520	2535	2550				
40	QPSK	1	1	13.73	13.72	13.82		14.5	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2515	2535	2555				
30	QPSK	1	1	13.84	13.82	13.83		14.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2512.5	2535	2557.5				
25	QPSK	1	1	13.76	13.75	13.70		14.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2510	2535	2560				
20	QPSK	1	1	13.71	13.75	13.73		14.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2507.5	2535	2562.5				
15	QPSK	1	1	13.75	13.92	13.94		14.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2505	2535	2565				
10	QPSK	1	1	13.92	13.91	13.73		14.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2502.5	2535	2567.5				
5	QPSK	1	1	13.72	13.73	13.84		14.5	0.0	
Channel										

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		14.5	0.0	
50	Pl2 BPSK	135	0	13.92	14.01	13.98				
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				
50	Pl2 BPSK	270	0	13.92	13.85	13.72		14.5	0.0	
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				
50	QPSK	135	0	13.83	13.99	13.93		14.5	0.0	
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				
50	16QAM	1	1	13.85	14.01	13.90		14.5	0.0	
50	8QAM	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 (dB)		
Frequency (MHz)				2420	2435	2450				
40	QPSK	1	1	13.70	13.73	13.84		14.5	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2515	2535	2555				
30	QPSK	1	1	13.69	13.74	13.86		14.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2512.5	2535	2557.5				
25	QPSK	1	1	13.89	13.92	13.75		14.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2610	2635	2660				
20	QPSK	1	1	13.72	13.93	13.96		14.5	0.0	
Channel				501500	507000	513000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2507.5	2535	2562.5				
15	QPSK	1	1	13.88	13.76	13.75		14.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2445	2435	2445				
10	QPSK	1	1	13.73	13.76	13.72		14.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2502.5	2535	2567.5				
5	QPSK	1	1	13.81	13.83	13.85		14.5	0.0	
Channel										

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				504000	507000	509000				
Frequency (MHz)				2525	2535	2545				
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	16.96	17.64		18.5	0.0	
50	Pl2 BPSK	135	0	17.34	17.42	17.47				
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				
50	Pl2 BPSK	270	0	17.28	17.34	16.98		18.5	0.0	
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				
50	QPSK	135	0	16.73	16.48	16.54		18.5	0.0	
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				
50	16QAM	1	1	16.17	16.33	16.08		18.5	0.0	
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 (dB)		
Frequency (MHz)				2520	2535	2550				
40	QPSK	1	1	18.17	18.12	18.06		18.5	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2515	2535	2555				
30	QPSK	1	1	18.03	18.06	18.10		18.5	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2512.5	2535	2557.5				
25	QPSK	1	1	18.11	18.21	18.11		18.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2610	2635	2660				
20	QPSK	1	1	18.19	18.20	17.86		18.5	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2507.5	2535	2562.5				
15	QPSK	1	1	18.03	18.05	17.99		18.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2505	2535	2565				
10	QPSK	1	1	17.91	17.84	17.82		18.5	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2502.5	2535	2567.5				
5	QPSK	1	1	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				501000	507000	513000		
Frequency (MHz)				2495	2435	2465		
10	QPSK	1	1	19.80	19.83	19.71	21.5	0.0
Channel				509500	507000	513500		
Frequency (MHz)				2592.5	2630	2567.5		
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	Pl2 BPSK	1	1	20.33	20.46	20.11			
100	Pl2 BPSK	1	137	20.49	20.42	20.24			
100	Pl2 BPSK	1	271	20.10	19.99	20.15	21.5		
100	Pl2 BPSK	136	0	20.36	20.17	20.10			
100	Pl2 BPSK	136	69	20.11	20.38	20.27	21.5		
100	Pl2 BPSK	136	136	20.14	20.42	20.21			
100	Pl2 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	2562.99	2569.99			
80	QPSK	1	1	20.10	20.08	20.02	21.5		
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506	2562.99	2669.98			
60	QPSK	1	1	20.19	20.13	20.13	21.5		
Channel				502203	518598	532999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2562.99	2664.99			
50	QPSK	1	1	20.13	20.19	20.27	21.5		
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2546.01	2569.99	2670			
40	QPSK	1	1	20.10	20.10	20.12	21.5		
Channel				502200	518598	534999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2562.475	2574.475			
30	QPSK	1	1	20.29	20.20	20.24	21.5		
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2562.99	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	Pl2 BPSK	1	1	16.55	16.69	16.32			
100	Pl2 BPSK	1	137	16.83	16.57	16.42	17.5		
100	Pl2 BPSK	1	271	16.32	16.22	16.36			
100	Pl2 BPSK	136	0	16.52	16.39	16.33			
100	Pl2 BPSK	136	69	16.33	16.52	16.42	17.5		
100	Pl2 BPSK	136	136	16.36	16.65	16.44			
100	Pl2 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	2562.99	2569.99			
80	QPSK	1	1	16.42	16.35	16.42	17.5		
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506	2562.99	2669.98			
60	QPSK	1	1	16.33	16.35	16.36	17.5		
Channel				502203	518598	532999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2562.99	2664.99			
50	QPSK	1	1	16.32	16.33	16.35	17.5		
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2546.01	2569.99	2670			
40	QPSK	1	1	16.35	16.33	16.42	17.5		
Channel				502200	518598	534999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2562.475	2574.475			
30	QPSK	1	1	16.32	16.31	16.23	17.5		
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2562.99	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	Pl2 BPSK	1	1	18.05	18.08	18.07			
100	Pl2 BPSK	1	137	18.12	18.05	17.85	19.0		
100	Pl2 BPSK	1	271	17.71	17.86	17.87			
100	Pl2 BPSK	136	0	18.15	18.12	18.02			
100	Pl2 BPSK	136	69	17.98	17.93	17.87	19.0		
100	Pl2 BPSK	136	136	18.06	17.89	17.76			
100	Pl2 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	528999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2552.48	2564.48			
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	2562.99	2569.99			
80	QPSK	1	1	18.11	18.15	18.05	19.0		
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506	2562.99	2669.98			
60	QPSK	1	1	18.09	18.09	18.05	19.0		
Channel				502203	518598	532999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2562.99	2664.99			
50	QPSK	1	1	18.09	18.08	18.07	19.0		
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2546.01	2569.99	2674.99			
40	QPSK	1	1	18.07	18.09	18.17	19.0		
Channel				502200	518598	534999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2562.48	2574.48			
30	QPSK	1	1	17.97	18.08	18.09	19.0		
Channel				507204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2546.02	2569.99	2679.98			
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	14.56	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				505022	518998	526000			
Frequency (MHz)				2546.01	2592.99	2600			
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				507020	518998	528996	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2643.98	(dBm)	(dB)	
90	QPSK	1	1	18.02	17.99	18.03	18.5	0.0	
Channel				506024	518998	529996	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)	
80	QPSK	1	1	18.01	17.52	17.57	18.5	0.0	
Channel				505020	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				504024	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				502022	518998	535000	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)	
30	QPSK	1	1	18.00	18.02	17.90	18.5	0.0	
Channel				501024	518998	536000	Tune-up limit	MPR	
Frequency (MHz)				2504.99	2592.99	2684.98	(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	2680			
100	Pi2 BPSK	1	1	16.71	16.83	16.81			
100	Pi2 BPSK	1	137	16.56	16.78	16.95	17.5	0.0	
100	Pi2 BPSK	1	271	16.78	16.63	16.78			
100	Pi2 BPSK	136	0	16.26	16.41	16.53			
100	Pi2 BPSK	136	69	16.58	16.80	16.47	17.5	0.0	
100	Pi2 BPSK	136	136	16.46	16.32	16.39			
100	Pi2 BPSK	270	0	17.02	16.48	17.04	17.5	0.0	
100	QPSK	1	1	17.17	17.16	17.15			
100	QPSK	1	137	16.98	17.05	16.83	17.5	0.0	
100	QPSK	1	271	16.67	16.83	16.80			
100	QPSK	136	0	15.93	15.82	15.82	17.5	0.0	
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	0.0	
100	16QAM	1	1	16.81	16.76	16.75	17.5	0.0	
100	16QAM	1	1	16.22	17.14	17.14	17.5	0.0	
100	256QAM	1	1	17.04	17.13	16.63	17.5	0.0	
Channel				506200	518598	528999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2684.85	(dBm)		
90	QPSK	1	1	17.13	17.10	17.14	17.5	0.0	
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	0.0	
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	0.0	
Channel				502203	518598	530998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.98	(dBm)		
50	QPSK	1	1	17.07	17.01	17.04	17.5	0.0	
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	0.0	
Channel				502200	518598	534999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)		
30	QPSK	1	1	17.11	17.13	17.01	17.5	0.0	
Channel				501204	518598	530998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.98	(dBm)		
20	QPSK	1	1	17.03	16.96	17.01	17.5	0.0	

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	2680			
100	Pi2 BPSK	1	1	15.92	16.26	16.01			
100	Pi2 BPSK	1	137	15.99	16.19	16.21	17.5	0.0	
100	Pi2 BPSK	1	271	15.89	16.26	16.22			
100	Pi2 BPSK	136	0	16.05	16.25	16.15			
100	Pi2 BPSK	136	69	15.93	16.22	16.32	17.5	0.0	
100	Pi2 BPSK	136	136	16.11	16.16	16.28			
100	Pi2 BPSK	270	0	16.21	16.26	16.42	17.5	0.5	
100	QPSK	1	1	16.36	16.44	16.32	17.5	0.0	
100	QPSK	1	137	16.21	16.22	16.23			
100	QPSK	1	271	16.05	16.08	16.24			
100	QPSK	136	0	16.21	16.24	16.22	17.5	0.0	
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	1.0	
100	16QAM	1	1	16.26	16.23	16.23	17.5	1.0	
100	16QAM	1	1	16.32	16.22	16.32	17.5	2.5	
100	256QAM	1	1	16.22	16.26	16.22	17.5	4.5	
Channel				506200	518598	528999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2684.85	(dBm)		
90	QPSK	1	1	16.21	16.22	16.32	17.5	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.98	(dBm)		
80	QPSK	1	1	16.32	16.35	16.25	17.5	0.0	
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	0.0	
Channel				502203	518598	530998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.98	(dBm)		
50	QPSK	1	1	16.32	16.33	16.35	17.5	0.0	
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	0.0	
Channel				502200	518598	534999	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)		
30	QPSK	1	1	16.21	16.05	16.32	17.5	0.0	
Channel				501204	518598	530998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.98	(dBm)		
20	QPSK	1	1	16.04	16.03	16.21	17.5	0.0	

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	2680			
100	Pi2 BPSK	1	1	13.99	13.71	13.70			
100	Pi2 BPSK	1	137	13.95	13.57	13.57	14.5	0.0	
100	Pi2 BPSK	1	271	13.82	13.40	13.35			
100	Pi2 BPSK	136	0	14.00	13.61	13.64	14.5	0.0	
100	Pi2 BPSK	136	69	13.90	13.48	13.51	14.5	0.0	
100	Pi2 BPSK	136	136	13.84	13.44	13.39	14.5	0.0	
100	Pi2 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	0.0	
100	QPSK	1	271	13.73	13.31	13.32			
100	QPSK	136	0	13.90	13.52	13.41	14.5	0.0	
100	QPSK	136	69	13.93	14.06	13.32	14.5	0.0	
100	QPSK	136	136	13.90	13.48	13.22	14.5	0.0	
100	QPSK	270	0	13.90	13.44	13.40	14.5	0.0	
100	16QAM	1	1	13.79	13.78	13.71	14.5	0.0	
100	16QAM	1	1	13.99	13.67	13.72	14.5	0.0	
100	256QAM	1	1	14.08	13.72	13.71	14.5	0.0	
Channel				506200	518598	528998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2684.85	(dBm)		
90	QPSK	120	60	13.40	13.35	13.90	14.5	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.98	(dBm)		
80	QPSK	108	54	13.31	13.32	13.73	14.5	0.0	
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	0.0	
Channel				502203	518598	530998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.98	(dBm)		
50	QPSK	64	32	13.87	13.72	13.32	14.5	0.0	
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	0.0	
Channel				502200	518598	533998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)		
30	QPSK	36	18	13.44	13.40	13.32	14.5	0.0	
Channel				507202	518598	528998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.00	2592.99	2679.98	(dBm)		
20	QPSK	1	1	13.72	13.71	13.40	14.5	0.0	

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				506202	518958	528000				
Frequency (MHz)				2551.01	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)				2551	2592.99	2641.99	(dBm)			
80	QPSK	1	1	18.30	18.31	18.41	19.5	0.0		
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)				2572.17	2592.99	2664.99	(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)				2511	2592.99	2671.99	(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			
100	QPSK	1	137	20.92	21.12	20.71			
100	QPSK	1	271	20.82	20.94	20.83	22.5	0.0	
100	QPSK	136	0	20.83	20.93	20.85			
100	QPSK	136	69	20.85	21.34	20.73			
100	QPSK	136	136	20.80	20.82	20.84	22.5	0.0	
100	QPSK	270	0	20.75	20.62	20.83			
100	16QAM	1	1	20.72	20.83	20.85			
100	64QAM	1	1	20.85	20.71	20.89	22.5	0.0	
100	256QAM	1	1	20.83	20.94	20.82			
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3173.02	3460	3753.01	(dBm)		
80	QPSK	1	1	20.83	20.82	20.75	22.5	0.0	
Channel				649334	656000	660668	Tune-up limit (dBm)	MPR (dB)	
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 (dBm)	MPR (dB)	
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 (dBm)	MPR (dB)	
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 (dBm)	MPR (dB)	
Frequency (MHz)				3120	3460	3860	(dBm)		
40	QPSK	1	1	20.71	20.72	20.82	22.5	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3113.02	3460	3953.01	(dBm)		
30	QPSK	1	1	20.12	20.83	20.85	22.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3110.01	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)				3173.02	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	660999	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)				3120	3460	3860	(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)				3113.02	3460	3953.01	(dBm)			
30	QPSK	1	1	16.33	16.31	16.43	17.0	0.0		
Channel				652729	656000	658858	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)				3794	3840	3890				
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	3840	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	3933.01				
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)				3794	3840	3890				
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	12.96	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	3840	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	664998	Tune-up limit (dBm)	MPR		
Frequency (MHz)				3725.01	3840	3955.02				
50	QPSK	1	1	12.96	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	3933.01				
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)				3790	3840	3900				
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	15.90	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	664998	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	664034	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	13.42	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	656000	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	656000	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	15.48	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	15.55				
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	15.65	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)				3743.02	3840	3933.01				
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				
60	QPSK	1	1	15.50	15.44	15.48	17.0	0.0		
Channel				648334	656000	663698	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3720.01	3840	3960.01				
50	QPSK	1	1	15.53	15.44	15.91	17.0	0.0		
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3720	3840	3960				
40	QPSK	1	1	15.43	15.35	15.55	17.0	0.0		
Channel				647698	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				647334	656000	663698	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			Ant5		
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH100	2402	16.83	14.87	14.93
	CH130	2441	17.75	15.78	15.86
	CH176	2480	15.48	13.61	13.68
Tune-up Limit			18	18	18

BT EDR			Ant7		
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH100	2402	14.67	14.67	12.97
	CH130	2441	15.74	15.74	14.00
	CH176	2480	14.18	14.18	12.89
Tune-up Limit			18	18	14.5

BT LE			Ant5		
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			GFSK		
LE	CH100	2402	5.72		
	CH130	2440	6.05		
	CH136	2480	5.54		
Tune-up Limit			8		

BT LE			Ant7		
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			GFSK		
LE	CH100	2402	5.39		
	CH130	2440	5.84		
	CH136	2480	4.67		
Tune-up Limit			7		

BT LE v5.0			Ant5		
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			Ant7		
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		