



DASY/EASY – Parameters of Probe: EX3DV4 – SN:3826

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc ($k=2$)
Norm($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	0.48	0.41	0.36	$\pm 10.0\%$
DCP(mV) ^B	100.2	99.8	103.2	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Unc ^E ($k=2$)
0	CW	X	0.0	0.0	1.0	0.00	160.2	$\pm 2.7\%$
		Y	0.0	0.0	1.0		141.6	
		Z	0.0	0.0	1.0		130.8	

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor $k=2$, which for a normal distribution Corresponds to a coverage probability of approximately 95%.

^A The uncertainties of Norm X, Y, Z do not affect the E²-field uncertainty inside TSL (see Page 4).

^B Numerical linearization parameter; uncertainty not required.

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



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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 ^G (mm)	Unct. (k=2)
750	41.9	0.89	9.37	9.37	9.37	0.40	0.80	±12.1%
835	41.5	0.90	9.12	9.12	9.12	0.17	1.26	±12.1%
900	41.5	0.97	9.10	9.10	9.10	0.18	1.30	±12.1%
1750	40.1	1.37	7.98	7.98	7.98	0.19	1.14	±12.1%
1900	40.0	1.40	7.67	7.67	7.67	0.22	1.14	±12.1%
2000	40.0	1.40	7.77	7.77	7.77	0.24	1.10	±12.1%
2300	39.5	1.67	7.35	7.35	7.35	0.51	0.73	±12.1%
2450	39.2	1.80	7.12	7.12	7.12	0.53	0.72	±12.1%
2600	39.0	1.96	6.94	6.94	6.94	0.45	0.85	±12.1%
3500	37.9	2.91	6.62	6.62	6.62	0.39	0.98	±13.3%
5250	35.9	4.71	5.09	5.09	5.09	0.45	1.30	±13.3%
5600	35.5	5.07	4.66	4.66	4.66	0.45	1.40	±13.3%
5750	35.4	5.22	4.68	4.68	4.68	0.45	1.40	±13.3%

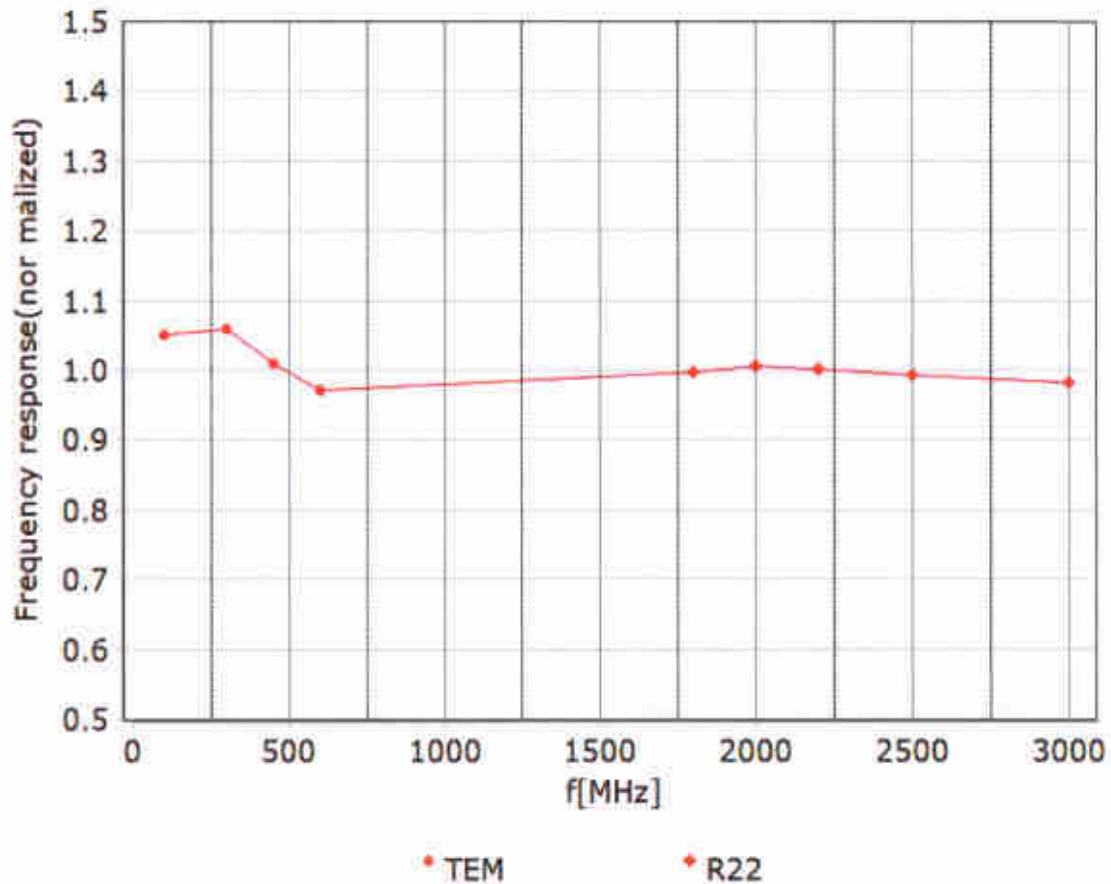
^C Frequency validity above 300 MHz of ±100MHz only applies for DASY v4.4 and higher (Page 2), else it is restricted to ±50MHz. The uncertainty is the RSS of ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25,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

^F At frequency 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 the 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: $\pm 7.4\%$ ($k=2$)

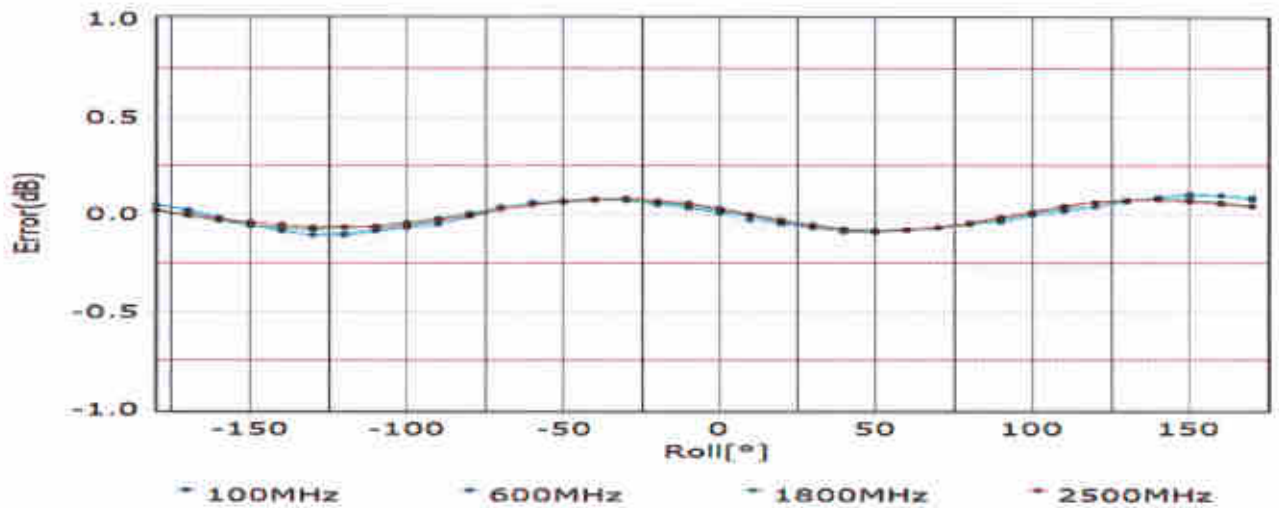
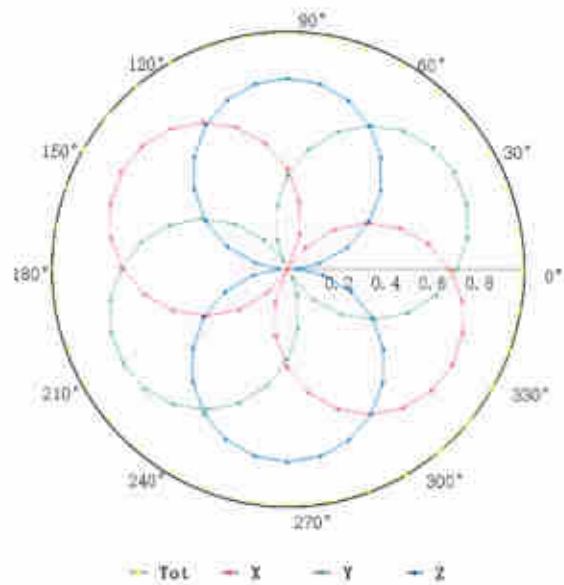
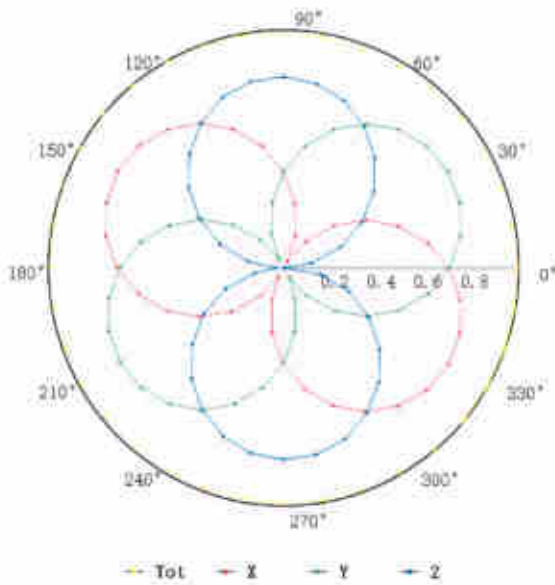


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Receiving Pattern (Φ), $\theta=0^\circ$

f=600 MHz, TEM

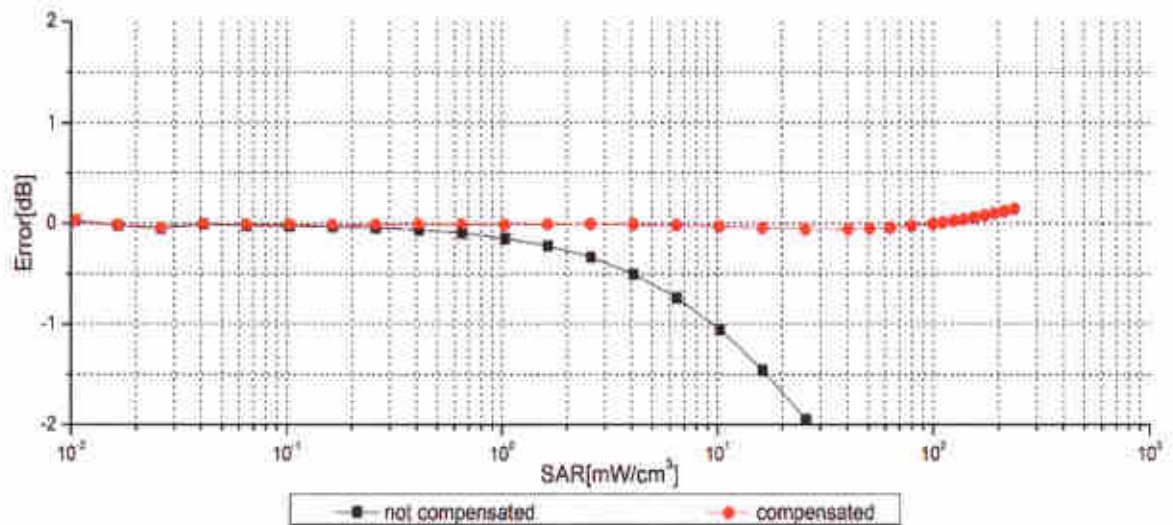
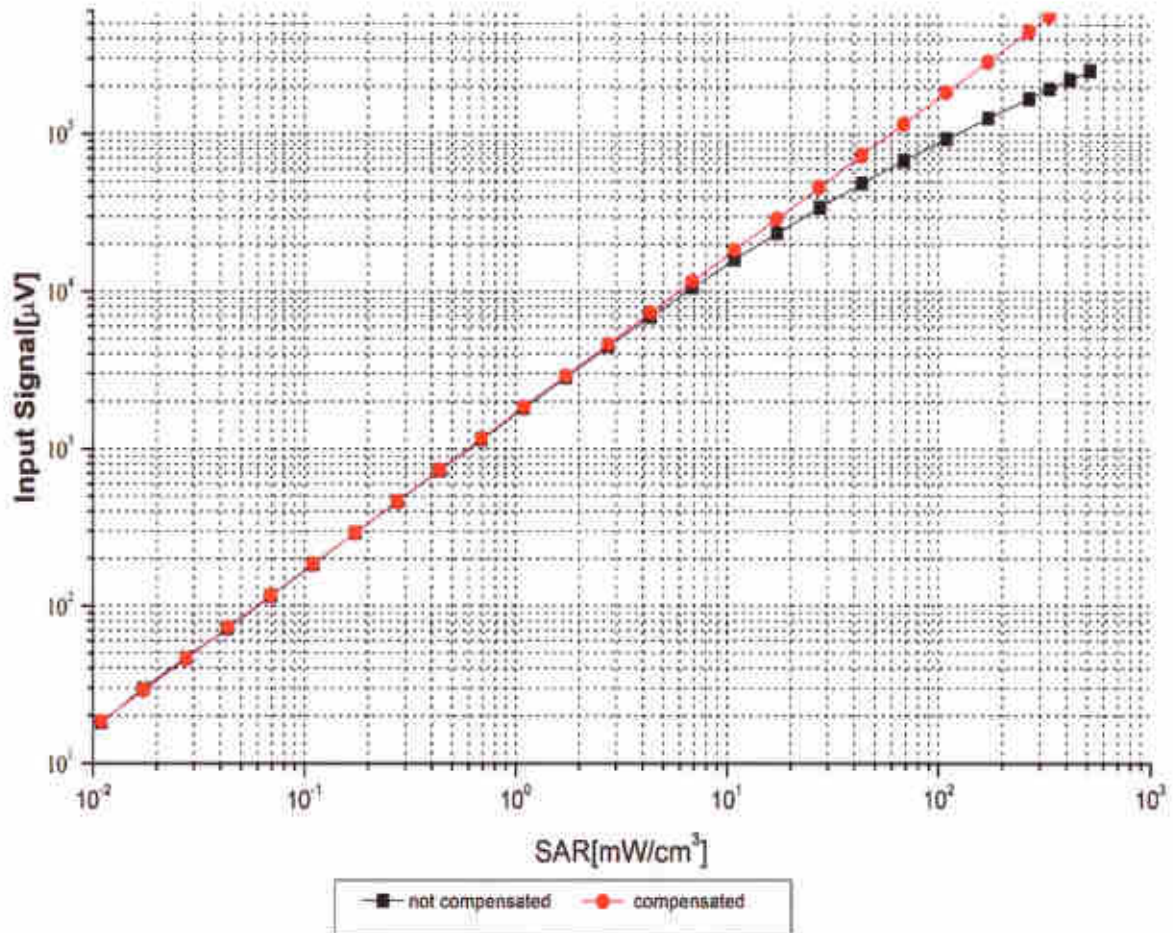
f=1800 MHz, R22



Uncertainty of Axial Isotropy Assessment: $\pm 1.2\%$ ($k=2$)



Dynamic Range f(SAR_{head}) (TEM cell, f = 900 MHz)



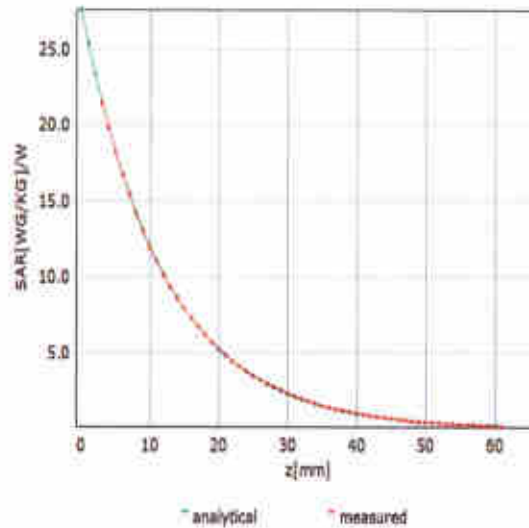
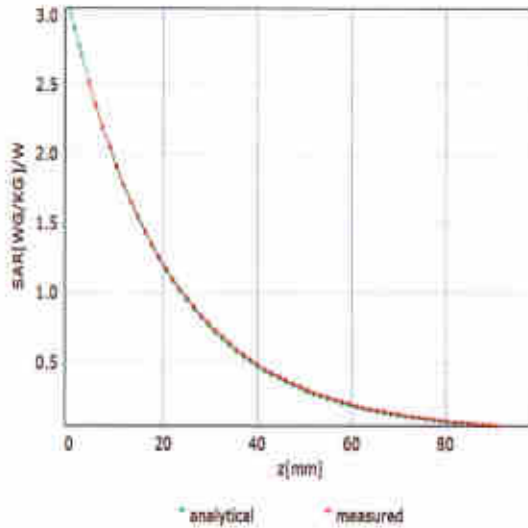
Uncertainty of Linearity Assessment: ±0.9% (k=2)



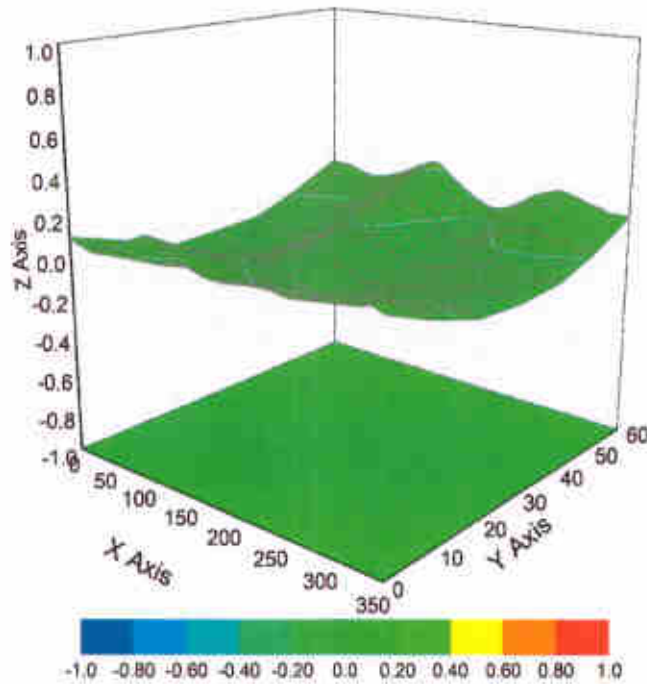
Conversion Factor Assessment

f=750 MHz,WGLS R9(H_convF)

f=1750 MHz,WGLS R22(H_convF)



Deviation from Isotropy in Liquid



Uncertainty of Spherical Isotropy Assessment: $\pm 3.2\%$ ($k=2$)



DASY/EASY – Parameters of Probe: EX3DV4 – SN:3826

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	51.5
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disable
Probe Overall Length	337mm
Probe Body Diameter	10mm
Tip Length	10mm
Tip Diameter	2.5mm
Probe Tip to Sensor X Calibration Point	1mm
Probe Tip to Sensor Y Calibration Point	1mm
Probe Tip to Sensor Z Calibration Point	1mm
Recommended Measurement Distance from Surface	1.4mm



Appendix E. Conducted RF Output Power Table

The detailed power table are shown as follows.



Full Power Mode for LAT

(DS12,DS14,DS16)							
TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)		
	526	534	551		526	534	551
Frequency (MHz)	854.2	858.4	868.8	854.2	858.4	868.8	
GSM 1 Tx slot	32.11	32.04	31.98	33.50	23.11	23.04	22.98
GPRS 1 Tx slot	32.02	31.95	31.87	33.50	23.02	22.95	22.87
GPRS 2 Tx slots	30.74	30.78	30.65	32.50	24.74	24.78	24.65
GPRS 3 Tx slots	29.35	29.30	29.65	31.00	25.27	25.44	25.39
GPRS 4 Tx slots	28.01	27.98	27.92	29.50	25.01	24.98	24.92
EDGE 1 Tx slot	25.05	25.21	25.16	26.50	16.05	16.21	16.16
EDGE 2 Tx slots	23.68	23.79	23.82	25.00	17.68	17.79	17.82
EDGE 3 Tx slots	21.64	21.71	21.59	23.00	17.38	17.45	17.33
EDGE 4 Tx slots	19.58	19.67	19.62	21.00	16.58	16.67	16.62

(DS12,DS14)							
TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)		
	512	661	810		512	661	810
Frequency (MHz)	1352	1620	1923	1352	1620	1923	
GSM 1 Tx slot	29.67	29.47	29.32	30.50	20.67	20.47	20.32
GPRS 1 Tx slot	29.59	29.26	29.23	30.50	20.59	20.26	20.23
GPRS 2 Tx slots	28.22	28.02	27.81	29.50	22.22	22.02	21.81
GPRS 3 Tx slots	27.03	26.53	26.57	28.00	22.77	22.67	22.21
GPRS 4 Tx slots	25.27	25.41	25.03	26.50	22.27	22.41	22.03
EDGE 1 Tx slot	25.47	25.08	25.21	26.50	18.47	18.08	18.21
EDGE 2 Tx slots	24.45	24.17	24.14	25.50	18.45	18.17	18.14
EDGE 3 Tx slots	22.31	22.34	22.08	24.00	18.08	18.08	17.82
EDGE 4 Tx slots	21.23	21.32	21.12	22.50	18.23	18.32	18.12

Band	(DS12,DS14)			(DS12,DS14)			(DS12,DS14)			Tune-up Limit (dBm)
	WCDMA	WCDMA	WCDMA	WCDMA IV	WCDMA IV	WCDMA IV	WCDMA V	WCDMA V	WCDMA V	
TX Channel	926	950	958	1312	1413	1513	1923	4132	4162	4233
Rx Channel	966	980	998	1537	1638	1738	1923	4367	4407	4458
Frequency (MHz)	1824	1860	1907.6	1742.4	1732.6	1752.6	24.00	626.4	638.4	646.6
3GPP Rel 99	AMA 12.2kbps	23.13	23.04	22.77	24.00	22.95	23.07	22.81	24.00	22.79
3GPP Rel 99	RMC 12.2kbps	23.16	23.08	22.81	24.00	23.02	23.11	22.95	24.00	22.82
3GPP Rel 6	HSDPA Subtest-1	22.12	22.08	21.82	23.00	21.96	22.10	21.96	23.00	21.84
3GPP Rel 6	HSDPA Subtest-2	22.13	22.11	21.88	23.00	21.98	22.12	21.92	23.00	21.85
3GPP Rel 6	HSDPA Subtest-3	21.64	21.61	21.16	22.50	21.51	21.68	21.48	22.50	21.32
3GPP Rel 6	HSDPA Subtest-4	21.65	21.60	21.30	22.50	21.48	21.60	21.45	22.50	21.37
3GPP Rel 6	DC-HSDPA Subtest-1	22.07	21.93	21.69	23.00	21.91	22.07	21.87	23.00	21.80
3GPP Rel 6	DC-HSDPA Subtest-2	22.04	22.02	21.71	23.00	21.80	22.00	21.81	23.00	21.72
3GPP Rel 6	DC-HSDPA Subtest-3	21.46	21.57	21.08	22.50	21.44	21.45	21.31	22.50	21.04
3GPP Rel 6	DC-HSDPA Subtest-4	21.52	21.57	21.23	22.50	21.44	21.56	21.42	22.50	21.29
3GPP Rel 6	HSUPA Subtest-1	22.16	22.12	21.83	23.00	21.99	22.22	22.02	23.00	21.84
3GPP Rel 6	HSUPA Subtest-2	20.17	20.16	19.84	21.00	20.00	20.13	19.97	21.00	19.81
3GPP Rel 6	HSUPA Subtest-3	21.06	21.08	20.82	22.00	20.96	21.16	20.97	22.00	20.85
3GPP Rel 6	HSUPA Subtest-4	20.14	20.11	19.82	21.00	19.98	20.16	19.94	21.00	19.83
3GPP Rel 6	HSUPA Subtest-5	22.20	22.10	21.80	23.00	22.00	22.20	21.93	23.00	21.80

Band	(DS12,DS14,DS16)			(DS12,DS14)			(DS12,DS14,DS16)			Tune-up Limit (dBm)
	CDMA BC1	CDMA BC1	CDMA BC1	CDMA BC1	CDMA BC1	CDMA BC1	CDMA BC10	CDMA BC10	CDMA BC10	
TX Channel	1013	384	777	25	600	1175	478	580	684	
Frequency (MHz)	2347	3352	3451	181.25	188	189.75	317.8	303.5	323	
RC1 S055	23.73	23.74	23.58	25.00	23.91	23.84	23.77	25.00	23.81	
RC3 S055	23.75	23.78	23.61	25.00	23.94	23.86	23.80	25.00	23.83	
RC3 S032 (F-SCH)	23.74	23.76	23.58	25.00	23.92	23.85	23.78	25.00	23.79	
RC3 S032 (H-SCH)	23.65	23.69	23.54	25.00	23.81	23.77	23.69	25.00	23.73	
RTAP 153.9kbps	23.60	23.62	23.51	25.00	23.78	23.74	23.66	25.00	23.63	
RETAP 40968ts	23.56	23.59	23.48	25.00	23.76	23.71	23.62	25.00	23.60	



Band 2 (1900MHz Band) Part 24E (DS12,DS14)										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power High Ch./Freq	Power High Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.74	22.57	22.45	24	0		
20	QPSK	1	49	22.63	22.47	22.35	24	0		
20	QPSK	1	99	22.49	22.38	22.38	24	0		
20	QPSK	50	0	21.82	21.68	21.56	23	1		
20	QPSK	50	24	21.76	21.63	21.56	23	1		
20	QPSK	50	50	21.68	21.56	21.49	23	1		
20	QPSK	100	0	21.75	21.63	21.54	23	1		
20	16QAM	1	0	22.03	21.89	21.78	23	1		
20	16QAM	1	49	21.92	21.84	21.84	23	1		
20	16QAM	1	99	21.81	21.72	21.59	23	1		
20	16QAM	50	0	20.80	20.69	20.59	22	2		
20	16QAM	50	24	20.76	20.64	20.56	22	2		
20	16QAM	50	50	20.67	20.57	20.48	22	2		
20	16QAM	100	0	20.76	20.61	20.55	22	2		
20	84QAM	1	0	20.95	20.81	20.78	22	2		
20	84QAM	1	49	20.79	20.65	20.57	22	2		
20	84QAM	1	99	20.72	20.64	20.60	22	2		
20	84QAM	50	0	19.80	19.67	19.60	21	3		
20	84QAM	50	24	19.75	19.64	19.53	21	3		
20	84QAM	50	50	19.67	19.59	19.50	21	3		
20	84QAM	100	0	19.74	19.59	19.57	21	3		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.71	22.58	22.46	24	0		
15	QPSK	1	37	22.65	22.51	22.45	24	0		
15	QPSK	1	74	22.56	22.44	22.38	24	0		
15	QPSK	36	0	21.82	21.68	21.55	23	1		
15	QPSK	36	28	21.78	21.60	21.50	23	1		
15	QPSK	36	39	21.68	21.60	21.49	23	1		
15	QPSK	75	0	21.75	21.62	21.51	23	1		
15	16QAM	1	0	22.10	21.89	21.74	23	1		
15	16QAM	1	37	21.84	21.84	21.66	23	1		
15	16QAM	1	74	21.81	21.69	21.67	23	1		
15	16QAM	36	0	20.78	20.69	20.56	22	2		
15	16QAM	36	20	20.73	20.61	20.54	22	2		
15	16QAM	36	39	20.73	20.56	20.49	22	2		
15	16QAM	75	0	20.77	20.64	20.51	22	2		
15	84QAM	1	0	21.03	20.78	20.62	22	2		
15	84QAM	1	37	20.87	20.66	20.55	22	2		
15	84QAM	1	74	20.79	20.66	20.57	22	2		
15	84QAM	36	0	19.85	19.69	19.55	21	3		
15	84QAM	36	20	19.78	19.64	19.53	21	3		
15	84QAM	36	39	19.70	19.57	19.55	21	3		
15	84QAM	75	0	19.75	19.64	19.51	21	3		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.71	22.66	22.46	24	0		
10	QPSK	1	25	22.65	22.53	22.52	24	0		
10	QPSK	1	49	22.54	22.55	22.42	24	0		
10	QPSK	25	0	21.87	21.76	21.64	23	1		
10	QPSK	25	12	21.86	21.70	21.58	23	1		
10	QPSK	25	25	21.75	21.65	21.54	23	1		
10	QPSK	50	0	21.81	21.69	21.57	23	1		
10	16QAM	1	0	22.10	21.89	21.83	23	1		
10	16QAM	1	25	22.00	21.86	21.68	23	1		
10	16QAM	1	49	21.89	21.77	21.63	23	1		
10	16QAM	25	0	20.93	20.81	20.64	22	2		
10	16QAM	25	12	20.86	20.78	20.65	22	2		
10	16QAM	25	25	20.78	20.65	20.52	22	2		
10	16QAM	50	0	20.83	20.75	20.62	22	2		
10	84QAM	1	0	20.93	20.86	20.66	22	2		
10	84QAM	1	25	20.82	20.80	20.50	22	2		
10	84QAM	1	49	20.73	20.75	20.61	22	2		
10	84QAM	25	0	19.91	19.78	19.68	21	3		
10	84QAM	25	12	19.88	19.74	19.64	21	3		
10	84QAM	25	25	19.80	19.69	19.57	21	3		
10	84QAM	50	0	19.82	19.72	19.62	21	3		
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.71	22.62	22.42	24	0		
5	QPSK	1	12	22.69	22.59	22.47	24	0		
5	QPSK	1	24	22.67	22.49	22.33	24	0		
5	QPSK	12	0	21.89	21.69	21.60	23	1		
5	QPSK	12	7	21.83	21.67	21.59	23	1		
5	QPSK	12	13	21.73	21.61	21.49	23	1		
5	QPSK	25	0	21.82	21.66	21.55	23	1		
5	16QAM	1	0	22.12	21.91	21.79	23	1		
5	16QAM	1	12	22.00	21.94	21.78	23	1		
5	16QAM	1	24	21.97	21.86	21.67	23	1		
5	16QAM	12	0	20.92	20.75	20.62	22	2		
5	16QAM	12	7	20.86	20.70	20.58	22	2		
5	16QAM	12	13	20.78	20.64	20.52	22	2		
5	16QAM	25	0	20.89	20.71	20.57	22	2		
5	84QAM	1	0	21.09	20.84	20.83	22	2		
5	84QAM	1	12	21.02	20.85	20.75	22	2		
5	84QAM	1	24	20.93	20.74	20.69	22	2		
5	84QAM	12	0	19.97	19.75	19.68	21	3		
5	84QAM	12	7	19.90	19.76	19.65	21	3		
5	84QAM	12	13	19.80	19.65	19.53	21	3		
5	84QAM	25	0	19.85	19.68	19.56	21	3		
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.73	22.63	22.46	24	0		
3	QPSK	1	8	22.71	22.57	22.42	24	0		
3	QPSK	1	14	22.61	22.45	22.33	24	0		
3	QPSK	8	0	21.89	21.68	21.59	23	1		
3	QPSK	8	4	21.81	21.69	21.56	23	1		
3	QPSK	8	7	21.75	21.60	21.48	23	1		
3	QPSK	15	0	21.81	21.65	21.56	23	1		
3	16QAM	1	0	22.19	22.14	22.04	23	1		
3	16QAM	1	8	22.14	21.93	21.98	23	1		
3	16QAM	1	14	21.97	21.82	21.77	23	1		
3	16QAM	8	0	20.94	20.75	20.67	22	2		
3	16QAM	8	4	20.88	20.70	20.60	22	2		
3	16QAM	8	7	20.81	20.66	20.54	22	2		
3	16QAM	15	0	21.06	20.88	20.87	22	2		
3	84QAM	1	0	21.06	20.99	20.87	22	2		
3	84QAM	1	8	20.96	20.93	20.79	22	2		
3	84QAM	1	14	20.83	20.71	20.63	22	2		
3	84QAM	8	0	19.93	19.76	19.60	21	3		
3	84QAM	8	4	19.89	19.73	19.59	21	3		
3	84QAM	8	7	19.80	19.65	19.55	21	3		
3	84QAM	15	0	19.88	19.72	19.58	21	3		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.72	22.57	22.44	24	0		
1.4	QPSK	1	3	22.67	22.57	22.44	24	0		
1.4	QPSK	1	5	22.68	22.47	22.35	24	0		
1.4	QPSK	3	0	22.68	22.64	22.45	24	0		
1.4	QPSK	3	1	22.71	22.64	22.50	24	0		
1.4	QPSK	3	3	22.66	22.55	22.41	24	0		
1.4	QPSK	6	0	21.85	21.68	21.53	23	1		
1.4	16QAM	1	0	22.13	21.93	21.77	23	1		
1.4	16QAM	1	3	22.10	21.94	21.76	23	1		
1.4	16QAM	1	5	22.00	21.86	21.72	23	1		
1.4	16QAM	3	0	21.85	21.70	21.57	23	1		
1.4	16QAM	3	1	21.89	21.70	21.65	23	1		
1.4	16QAM	3	3	21.77	21.58	21.53	23	1		
1.4	16QAM	6	0	20.90	20.73	20.59	22	2		
1.4	84QAM	1	0	20.94	20.82	20.74	22	2		
1.4	84QAM	1	3	20.96	20.72	20.74	22	2		
1.4	84QAM	1	5	20.84	20.65	20.63	22	2		
1.4	84QAM	3	0	21.00	20.88	20.78	22	2		
1.4	84QAM	3	1	21.05	20.88	20.72	22	2		
1.4	84QAM	3	3	20.90	20.77	20.64	22	2		
1.4	84Q									



Band 7 (2600MHz Band) Part 27 (DS12,DS14)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				2510	2535	2560				
Frequency (MHz)				2510	2535	2560				
20	QPSK	1	0	22.24	22.38	22.57			24	0
20	QPSK	1	49	22.28	22.48	22.60				
20	QPSK	1	99	22.36	22.58	22.71				
20	QPSK	50	0	21.30	21.48	21.58				
20	QPSK	50	24	21.39	21.50	21.63			23	1
20	QPSK	50	50	21.41	21.61	21.72				
20	QPSK	100	0	21.41	21.53	21.64				
10	16QAM	1	0	21.48	21.59	21.80				
10	16QAM	1	49	21.49	21.73	21.92			23	1
10	16QAM	1	99	21.83	21.88	21.91				
20	16QAM	50	0	20.29	20.50	20.57				
20	16QAM	50	24	20.41	20.53	20.63			22	2
20	16QAM	50	50	20.44	20.64	20.72				
20	16QAM	100	0	20.40	20.54	20.62				
20	16QAM	1	0	20.44	20.51	20.61				
20	16QAM	1	49	20.39	20.63	20.76			22	2
20	16QAM	1	99	20.48	20.76	20.82				
20	16QAM	50	0	19.31	19.50	19.59				
20	16QAM	50	24	19.44	19.54	19.64			21	3
20	16QAM	50	50	19.45	19.63	19.74				
20	16QAM	100	0	19.41	19.53	19.66				
Channel				20625	21100	21375	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				20625	20635	20625				
15	QPSK	1	0	22.21	22.37	22.44			24	0
15	QPSK	1	37	22.22	22.41	22.57				
15	QPSK	1	74	22.25	22.44	22.61				
15	QPSK	36	0	21.30	21.51	21.61				
15	QPSK	36	20	21.34	21.57	21.63			23	1
15	QPSK	36	39	21.39	21.72	21.71				
15	QPSK	75	0	21.28	21.44	21.60				
15	16QAM	1	0	21.24	21.47	21.39				
15	16QAM	1	37	21.70	21.41	21.33			23	1
15	16QAM	1	74	21.72	21.63	21.49				
15	16QAM	36	0	20.32	20.41	20.60				
15	16QAM	36	20	20.38	20.55	20.71			22	2
15	16QAM	36	39	20.35	20.59	20.69				
15	16QAM	75	0	20.31	20.53	20.59				
15	16QAM	1	0	20.42	20.60	20.46				
15	16QAM	1	37	20.49	20.50	20.64			22	2
15	16QAM	1	74	20.50	20.88	20.62				
15	16QAM	36	0	19.34	19.41	19.57				
15	16QAM	36	20	19.30	19.69	19.60			21	3
15	16QAM	36	39	19.31	19.60	19.66				
15	16QAM	75	0	19.28	19.54	19.52				
Channel				20600	21100	21400	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				20605	20635	20665				
10	QPSK	1	0	22.27	22.69	22.68			24	0
10	QPSK	1	25	22.29	22.37	22.68				
10	QPSK	1	49	22.34	22.52	22.48				
10	QPSK	25	0	21.39	21.65	21.79				
10	QPSK	25	12	21.51	21.70	21.86			23	1
10	QPSK	25	25	21.46	21.69	21.83				
10	QPSK	50	0	21.41	21.64	21.78				
10	16QAM	1	0	21.79	21.98	21.85				
10	16QAM	1	25	21.90	21.81	21.75			23	1
10	16QAM	1	49	21.98	22.01	21.98				
10	16QAM	25	0	20.53	20.57	20.83				
10	16QAM	25	12	20.47	20.83	20.85			22	2
10	16QAM	25	25	20.51	20.70	20.93				
10	16QAM	50	0	20.41	20.61	20.75				
10	16QAM	1	0	20.81	20.72	20.94				
10	16QAM	1	25	20.79	20.61	21.10			22	2
10	16QAM	1	49	20.71	21.07	21.04				
10	16QAM	25	0	19.49	19.62	19.73				
10	16QAM	25	12	19.44	19.65	19.76			21	3
10	16QAM	25	25	19.44	19.69	19.83				
10	16QAM	50	0	19.44	19.63	19.69				
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				20775	20785	20757.5				
5	QPSK	1	0	22.44	22.55	22.64			24	0
5	QPSK	1	12	22.47	22.64	22.56				
5	QPSK	1	24	22.45	22.68	22.51				
5	QPSK	12	0	21.46	21.51	21.70				
5	QPSK	12	7	21.40	21.71	21.86			23	1
5	QPSK	12	13	21.47	21.66	21.88				
5	QPSK	25	0	21.38	21.56	21.80				
5	16QAM	1	0	21.60	21.74	21.98				
5	16QAM	1	12	21.60	21.87	22.06			23	1
5	16QAM	1	24	21.64	21.82	22.09				
5	16QAM	12	0	20.42	20.60	20.80				
5	16QAM	12	7	20.48	20.80	20.89			22	2
5	16QAM	12	13	20.45	20.76	20.92				
5	16QAM	25	0	20.39	20.63	20.82				
5	16QAM	1	0	20.80	20.74	21.12				
5	16QAM	1	12	20.77	20.79	21.18			22	2
5	16QAM	1	24	20.78	20.85	21.21				
5	16QAM	12	0	19.56	19.58	19.81				
5	16QAM	12	7	19.57	19.85	19.94			21	3
5	16QAM	12	13	19.52	19.74	19.98				
5	16QAM	25	0	19.48	19.67	19.88				

Band 12 (700MHz Low Band) Part 27F(only on channel required) (DS12,DS13,DS14,DS16)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				23060	23095	23130				
Frequency (MHz)				704	707.5	711				
10	QPSK	1	0	22.84	22.87	22.83			24	0
10	QPSK	1	25	22.86	22.88	22.82				
10	QPSK	1	49	22.90	22.93	22.88				
10	QPSK	25	0	22.11	22.13	22.10				
10	QPSK	25	12	22.17	22.23	22.14			23	1
10	QPSK	25	25	22.20	22.24	22.21				
10	QPSK	50	0	22.11	22.13	22.07				
10	16QAM	1	0	22.42	22.38	22.32				
10	16QAM	1	25	22.38	22.29	22.37			23	1
10	16QAM	1	49	22.44	22.38	22.33				
10	16QAM	25	0	21.16	21.16	21.11				
10	16QAM	25	12	21.22	21.17	21.23			22	2
10	16QAM	25	25	21.19	21.26	21.25				
10	16QAM	50	0	21.19	21.13	21.22				
10	16QAM	1	0	21.24	21.29	21.21				
10	16QAM	1	25	21.17	21.29	21.24			22	2
10	16QAM	1	49	21.27	21.34	21.30				
10	16QAM	25	0	20.16	20.15	20.14				
10	16QAM	25	12	20.23	20.20	20.28			21	3
10	16QAM	25	25	20.24	20.28	20.29				
10	16QAM	50	0	20.26	20.11	20.19				
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				701.5	707.5	713.5				
5	QPSK	1	0	22.77	22.78	22.82				
5	QPSK	1	12	22.88	22.88	22.85			24	0
5	QPSK	1	24	22.87	22.90	22.81				
5	QPSK	12	0	22.16	22.13	22.10				
5	QPSK	12	7	22.15	22.13	22.08			23	1
5	QPSK	12	13	22.13	22.17	22.12				
5	QPSK	25	0	22.11	22.12	22.05				
5	16QAM	1	0	22.26	22.30	22.28				
5	16QAM	1	12	22.33	22.42	22.34			23	1
5	16QAM	1	24	22.37	22.43	22.34				
5	16QAM	12	0	21.16	21.14	21.11				
5	16QAM	12	7	21.17	21.15	21.13			22	2
5	16QAM	12	13	21.17	21.20	21.15				



Band 14 (700MHz Band) (DS12,DS14,DS16)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2330					
Frequency (MHz)				763					
10	QPSK	1	0	22.72			24	0	
10	QPSK	1	25	22.77					
10	QPSK	1	49	22.76					
10	QPSK	25	0	21.80			23	1	
10	QPSK	25	12	21.83					
10	QPSK	25	25	21.84					
10	QPSK	50	0	21.77			23	1	
10	16QAM	1	0	22.15					
10	16QAM	1	25	22.06					
10	16QAM	1	49	22.04			22	2	
10	16QAM	25	0	20.83					
10	16QAM	25	12	20.84					
10	16QAM	25	25	20.87					
10	16QAM	50	0	20.83			22	2	
10	64QAM	1	0	21.03					
10	64QAM	1	25	20.99			21	3	
10	64QAM	1	49	21.00					
10	64QAM	25	0	19.87					
10	64QAM	25	12	19.80					
10	64QAM	25	25	19.88					
10	64QAM	50	0	19.80					
Channel				23305					
Frequency (MHz)				793					
5	QPSK	1	0	22.70	22.76	22.74	24	0	
5	QPSK	1	12	22.77	22.74	22.77			
5	QPSK	1	24	22.70	22.70	22.83			
5	QPSK	12	0	21.83	21.80	21.83	23	1	
5	QPSK	12	7	21.84	21.78	21.82			
5	QPSK	12	13	21.78	21.74	21.74			
5	QPSK	25	0	21.82	21.74	21.74	23	1	
5	16QAM	1	0	21.97	21.99	22.11			
5	16QAM	1	12	21.94	21.97	22.00			
5	16QAM	1	24	21.95	22.01	22.02	22	2	
5	16QAM	12	0	20.84	20.80	20.86			
5	16QAM	12	7	20.85	20.80	20.87			
5	16QAM	12	13	20.79	20.76	20.73	22	2	
5	16QAM	25	0	20.81	20.76	20.79			
5	64QAM	1	0	20.93	20.95	21.01	22	2	
5	64QAM	1	12	20.96	20.99	20.95			
5	64QAM	1	24	20.99	20.93	20.89	21	3	
5	64QAM	12	0	19.89	19.88	19.87			
5	64QAM	12	7	19.89	19.83	19.87			
5	64QAM	12	13	19.85	19.82	19.79			
5	64QAM	25	0	19.83	19.76	19.82			

Band 17 (700MHz Band) Part 27H(only on channel required) (DS12,DS13,DS14,DS16)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23780					
Frequency (MHz)				709					
10	QPSK	1	0	22.89	22.84	22.80	24	0	
10	QPSK	1	25	22.37	22.89	22.94			
10	QPSK	1	49	22.90	22.87	22.81			
10	QPSK	25	0	22.12	22.10	22.09	23	1	
10	QPSK	25	12	22.24	22.22	22.18			
10	QPSK	25	25	22.21	22.20	22.16			
10	QPSK	50	0	22.20	22.05	22.04	23	1	
10	16QAM	1	0	22.37	22.36	22.33			
10	16QAM	1	25	22.37	22.42	22.23	22	2	
10	16QAM	1	49	22.38	22.35	22.27			
10	16QAM	25	0	21.10	21.14	21.15	22	2	
10	16QAM	25	12	21.28	21.19	21.24			
10	16QAM	25	25	21.25	21.21	21.17			
10	16QAM	50	0	21.18	21.10	21.11	22	2	
10	64QAM	1	0	21.22	21.23	21.20			
10	64QAM	1	25	21.35	21.19	21.24	22	2	
10	64QAM	1	49	21.31	21.35	21.27			
10	64QAM	25	0	20.18	20.17	20.19	21	3	
10	64QAM	25	12	20.25	20.20	20.28			
10	64QAM	25	25	20.22	20.22	20.21			
10	64QAM	50	0	20.16	20.07	20.09			
Channel				23755					
Frequency (MHz)				706.5					
5	QPSK	1	0	22.88	22.83	22.84	24	0	
5	QPSK	1	12	22.79	22.80	22.74			
5	QPSK	1	24	22.81	22.80	22.73			
5	QPSK	12	0	22.20	22.13	22.08	23	1	
5	QPSK	12	7	22.18	22.08	21.99			
5	QPSK	12	13	22.11	22.06	22.04			
5	QPSK	25	0	22.18	22.05	22.02	23	1	
5	16QAM	1	0	22.37	22.35	22.34			
5	16QAM	1	12	22.33	22.31	22.24	22	2	
5	16QAM	1	24	22.27	22.35	22.26			
5	16QAM	12	0	21.23	21.16	21.10	22	2	
5	16QAM	12	7	21.19	21.10	21.02			
5	16QAM	12	13	21.10	21.09	21.05			
5	16QAM	25	0	21.14	21.09	21.06	21	3	
5	64QAM	1	0	21.37	21.29	21.22			
5	64QAM	1	12	21.31	21.26	21.16			
5	64QAM	1	24	21.25	21.24	21.22	21	3	
5	64QAM	12	0	20.27	20.18	20.15			
5	64QAM	12	7	20.25	20.14	20.10			
5	64QAM	12	13	20.19	20.13	20.07			
5	64QAM	25	0	20.23	20.12	20.05			

Band 25 (1900MHz Band) Part 24E (DS12,DS14)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				26140					
Frequency (MHz)				1660					
20	QPSK	1	0	22.27	22.75	22.56	24	0	
20	QPSK	1	49	22.73	22.82	22.76			
20	QPSK	1	99	22.65	22.58	22.44			
20	QPSK	50	0	21.94	21.85	21.87	23	1	
20	QPSK	50	24	21.91	21.83	21.70			
20	QPSK	50	50	21.80	21.77	21.63			
20	QPSK	100	0	21.81	21.73	21.73	23	1	
20	16QAM	1	0	22.24	22.02	21.79			
20	16QAM	1	49	22.02	22.01	21.82	22	1	
20	16QAM	1	99	21.89	21.83	21.80			
20	16QAM	50	0	20.93	20.88	20.70	22	2	
20	16QAM	50	24	20.92	20.89	20.69			
20	16QAM	50	50	20.76	20.80	20.66			
20	16QAM	100	0	20.80	20.83	20.69	22	2	
20	64QAM	1	0	21.02	20.99	20.78			
20	64QAM	1	49	20.95	20.92	20.71	22	2	
20	64QAM	1	99	20.78	20.80	20.66			
20	64QAM	50	0	19.96	19.90	19.72	21	3	
20	64QAM	50	24	19.94	19.87	19.71			
20	64QAM	50	50	19.78	19.82	19.67			
20	64QAM	100	0	19.82	19.85	19.71			
Channel				26115					
Frequency (MHz)				1857.5					
15	QPSK	1	0	22.81	22.70	22.54	24	0	
15	QPSK	1	37	22.85	22.62	22.42			
15	QPSK	1	74	22.84	22.84	22.43			
15	QPSK	38	0	21.94	21.79	21.63	23	1	
15	QPSK	38	20	21.93	21.89	21.63			
15	QPSK	38	39	21.92	21.71	21.64			
15	QPSK	75	0	21.91	21.76	21.70	23	1	
15	16QAM	1	0	21.87	22.32	22.01			
15	16QAM	1	37	21.89	22.16	22.01			
15	16QAM	1	74	21.96	22.23	22.01	22	2	
15	16QAM	38	20	20.92	20.76	20.65			
15	16QAM	38	20	20.92	20.80	20.80			
15	16QAM	38	39	20.94	20.84	20.58	22	2	
15	16QAM	75	0	20.83	20.79	20.65			
15	64QAM	1	0	20.94	21.06	21.05	22	2	
15	64QAM	1	37	20.90	20.94	20.67			
15	64QAM	1	74	20.93	20.63	20.58	21	3	
15	64QAM	38	0	19.95	19.84	19.63			
15	64QAM	38	20	19.99	19.88	19.64			
15	64QAM	38	39	19.94	19.76	19.65	21	3	
15	64QAM	75	0	19.92	19.78	19.66			
Channel				26090					
Frequency (MHz)				1855					
10	QPSK	1	0	22.79	22.82	22.71	24	0	
10	QPSK	1	25	22.85	22.76	22.65			
10	QPSK	1	49	22.82	22.79	22.82			
10	QPSK	25	0	22.12	22.02	21.76	23	1	
10	QPSK	25	12	22.03	21.96	21.74			
10	QPSK	25	25	21.97	21.90	21.73			



Band 26 for FCC (only on channel required) (DS12,DS14,DS16)										
BW (MHz)	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)				821.5	831.5	841.5				
15	QPSK	1	0	22.54	22.49	22.45			24	0
15	QPSK	1	37	22.51	22.48	22.43				
15	QPSK	1	74	22.49	22.41	22.37				
15	QPSK	36	0	21.69	21.62	21.60				
15	QPSK	36	20	21.66	21.60	21.58			23	1
15	QPSK	36	39	21.60	21.58	21.55				
15	QPSK	75	0	21.67	21.57	21.55				
15	16QAM	1	0	21.81	21.76	21.81				
15	16QAM	1	37	21.89	21.76	21.79			23	1
15	16QAM	1	74	21.79	21.74	21.78				
15	16QAM	36	0	20.61	20.59	20.56				
15	16QAM	36	20	20.69	20.56	20.57			22	2
15	16QAM	36	39	20.64	20.62	20.64				
15	16QAM	75	0	20.69	20.56	20.55				
15	64QAM	1	0	20.70	20.66	20.72				
15	64QAM	1	37	20.71	20.70	20.66			22	2
15	64QAM	1	74	20.75	20.68	20.63				
15	64QAM	36	0	19.61	19.60	19.62				
15	64QAM	36	20	19.66	19.54	19.56			21	3
15	64QAM	36	39	19.66	19.61	19.65				
15	64QAM	75	0	19.69	19.55	19.58				
Channel										
Frequency (MHz)				2674.0	2686.5	2699.0				
10	QPSK	1	0	22.44	22.38	22.46			24	0
10	QPSK	1	25	22.42	22.40	22.37				
10	QPSK	1	49	22.38	22.32	22.31				
10	QPSK	25	0	21.54	21.43	21.46				
10	QPSK	25	12	21.53	21.43	21.45			23	1
10	QPSK	25	25	21.52	21.48	21.45				
10	QPSK	50	0	21.54	21.42	21.37				
10	16QAM	1	0	21.80	21.74	21.74				
10	16QAM	1	25	21.68	21.66	21.71			23	1
10	16QAM	1	49	21.76	21.69	21.71				
10	16QAM	25	0	20.87	20.83	20.79				
10	16QAM	25	12	20.58	20.48	20.47			22	2
10	16QAM	25	25	20.58	20.50	20.48				
10	16QAM	50	0	20.56	20.45	20.44				
10	64QAM	1	0	20.70	20.55	20.55				
10	64QAM	1	25	20.62	20.55	20.55			22	2
10	64QAM	1	49	20.86	20.58	20.52				
10	64QAM	25	0	19.52	19.49	19.50				
10	64QAM	25	12	19.58	19.47	19.50			21	3
10	64QAM	25	25	19.57	19.51	19.54				
10	64QAM	50	0	19.62	19.48	19.43				
Channel										
Frequency (MHz)				2671.5	2686.5	2701.5				
5	QPSK	1	0	22.45	22.37	22.40			24	0
5	QPSK	1	12	22.51	22.42	22.34				
5	QPSK	1	24	22.49	22.41	22.28				
5	QPSK	12	0	21.60	21.45	21.45				
5	QPSK	12	7	21.62	21.49	21.48			23	1
5	QPSK	12	13	21.56	21.47	21.44				
5	QPSK	25	0	21.61	21.44	21.48				
5	16QAM	1	0	21.85	21.72	21.71				
5	16QAM	1	12	21.86	21.72	21.66			23	1
5	16QAM	1	24	21.82	21.74	21.65				
5	16QAM	12	0	20.64	20.48	20.47				
5	16QAM	12	7	20.61	20.52	20.48			22	2
5	16QAM	12	13	20.57	20.45	20.51				
5	64QAM	1	0	20.76	20.65	20.69				
5	64QAM	1	12	20.79	20.71	20.61			22	2
5	64QAM	1	24	20.76	20.69	20.60				
5	64QAM	12	0	19.66	19.54	19.51				
5	64QAM	12	7	19.64	19.55	19.51			21	3
5	64QAM	12	13	19.64	19.54	19.50				
5	64QAM	25	0	19.56	19.47	19.49				
Channel										
Frequency (MHz)				2670.5	2686.5	2702.5				
3	QPSK	1	0	22.50	22.36	22.34			24	0
3	QPSK	1	8	22.49	22.51	22.39				
3	QPSK	1	14	22.48	22.42	22.33				
3	QPSK	8	0	21.59	21.46	21.43				
3	QPSK	8	4	21.61	21.52	21.45			23	1
3	QPSK	8	7	21.56	21.46	21.38				
3	QPSK	15	0	21.59	21.44	21.42				
3	16QAM	1	0	21.77	21.75	21.72				
3	16QAM	1	8	21.90	22.03	21.77			23	1
3	16QAM	1	14	21.86	21.76	21.73				
3	16QAM	8	0	20.61	20.48	20.48				
3	16QAM	8	4	20.66	20.57	20.48			22	2
3	16QAM	8	7	20.60	20.52	20.43				
3	16QAM	15	0	20.59	20.45	20.48				
3	64QAM	1	0	20.81	20.64	20.61				
3	64QAM	1	8	20.93	20.72	20.70			22	2
3	64QAM	1	14	20.80	20.69	20.56				
3	64QAM	8	0	19.60	19.47	19.48				
3	64QAM	8	4	19.66	19.54	19.52			21	3
3	64QAM	8	7	19.61	19.50	19.46				
3	64QAM	15	0	19.60	19.45	19.49				
Channel										
Frequency (MHz)				2669.7	2686.5	2703.3				
1.4	QPSK	1	0	22.44	22.36	22.25			24	0
1.4	QPSK	1	3	22.50	22.39	22.33				
1.4	QPSK	1	5	22.43	22.33	22.26				
1.4	QPSK	3	0	22.47	22.34	22.26				
1.4	QPSK	3	1	22.45	22.41	22.32				
1.4	QPSK	3	3	22.46	22.36	22.32			23	1
1.4	QPSK	6	0	21.55	21.37	21.33				
1.4	16QAM	1	0	21.81	21.64	21.68				
1.4	16QAM	1	3	21.86	21.74	21.75			23	1
1.4	16QAM	1	5	21.76	21.68	21.66				
1.4	16QAM	3	0	21.60	21.42	21.41				
1.4	16QAM	3	1	21.65	21.54	21.42				
1.4	16QAM	3	3	21.58	21.46	21.35			22	2
1.4	16QAM	6	0	20.61	20.44	20.42				
1.4	64QAM	1	0	20.71	20.54	20.53				
1.4	64QAM	1	3	20.66	20.66	20.59				
1.4	64QAM	1	5	20.67	20.54	20.44			22	2
1.4	64QAM	3	0	20.72	20.50	20.56				
1.4	64QAM	3	1	20.77	20.55	20.59				
1.4	64QAM	6	0	20.67	20.54	20.53				
1.4	64QAM	6	0	19.60	19.42	19.36			21	3

Band 30 (DS12,DS14)										
BW (MHz)	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)				2310						
10	QPSK	1	0	22.42					24	0
10	QPSK	1	25	22.78						
10	QPSK	1	49	22.60						
10	QPSK	25	0	21.70						
10	QPSK	25	12	21.80					23	1
10	QPSK	25	25	21.76						
10	QPSK	50	0	22.21						
10	16QAM	1	25	22.18					23	1
10	16QAM	1	49	22.20						
10	16QAM	25	0	20.87						
10	16QAM	25	12	20.81					22	2
10	16QAM	25	25	20.80						
10	16QAM	50	0	20.74						
10	64QAM	1	0	20.63						
10	64QAM	1	25	20.79					22	2
10	64QAM	1	49	20.84						
10	64QAM	25	0	19.84						
10	64QAM	25	12	19.78					21	3
10	64QAM	25	25	19.67						
10	64QAM	50	0	19.65						
Channel										
Frequency (MHz)				2785.5	2771.0					



Band 71 (DS12,DS13,DS14,DS16)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				133222	133322	133372			
Frequency (MHz)				673	683	688			
20	QPSK	1	0	22.82	22.86	22.79			
20	QPSK	1	49	22.76	22.78	22.74		24	0
20	QPSK	1	99	22.71	22.73	22.64			
20	QPSK	50	0	21.89	21.86	21.83			
20	QPSK	50	24	21.87	21.91	21.85		23	1
20	QPSK	50	50	21.87	21.88	21.78			
20	QPSK	100	0	21.83	21.85	21.79			
20	16QAM	1	0	22.06	22.06	22.02			
20	16QAM	1	49	21.94	22.05	21.91		23	1
20	16QAM	1	99	21.91	21.94	21.86			
20	16QAM	50	0	20.89	20.91	20.83			
20	16QAM	50	24	20.83	20.76	20.79		22	2
20	16QAM	50	50	20.84	20.85	20.81			
20	16QAM	100	0	20.86	20.87	20.81			
20	64QAM	1	0	21.02	21.16	21.10			
20	64QAM	1	49	20.98	21.04	20.94		22	2
20	64QAM	1	99	21.01	20.96	20.89			
20	64QAM	50	0	19.90	19.92	19.91			
20	64QAM	50	24	19.91	19.89	19.92		21	3
20	64QAM	50	50	19.89	19.90	19.84			
20	64QAM	100	0	19.88	19.86	19.93			
Channel				133197	133297	133397			
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	0	22.76	22.72	22.76			
15	QPSK	1	37	22.63	22.56	22.67		24	0
15	QPSK	1	74	22.67	22.69	22.43			
15	QPSK	36	0	21.74	21.91	21.62			
15	QPSK	36	20	21.81	21.75	21.79		23	1
15	QPSK	36	39	21.69	21.79	21.62			
15	QPSK	75	0	21.65	21.81	21.63			
15	16QAM	1	0	22.03	21.93	21.94			
15	16QAM	1	37	21.90	21.87	21.78		23	1
15	16QAM	1	74	21.77	21.81	21.69			
15	16QAM	36	0	20.76	20.87	20.58			
15	16QAM	36	20	20.63	20.54	20.67		22	2
15	16QAM	36	39	20.79	20.83	20.77			
15	16QAM	75	0	20.68	20.85	20.64			
15	64QAM	1	0	20.94	21.00	21.08			
15	64QAM	1	37	20.82	20.96	20.82		22	2
15	64QAM	1	74	20.83	20.89	20.80			
15	64QAM	36	0	19.87	19.84	19.77			
15	64QAM	36	20	19.78	19.77	19.74		21	3
15	64QAM	36	39	19.69	19.87	19.80			
15	64QAM	75	0	19.76	19.74	19.80			
Channel				133172	133272	133422			
Frequency (MHz)				668	678	683			
10	QPSK	1	0	22.79	22.83	22.68			
10	QPSK	1	25	22.60	22.60	22.60		24	0
10	QPSK	1	49	22.49	22.60	22.42			
10	QPSK	25	0	21.70	21.74	21.69			
10	QPSK	25	12	21.72	21.74	21.82		23	1
10	QPSK	25	25	21.84	21.67	21.64			
10	QPSK	50	0	21.76	21.82	21.73			
10	16QAM	1	0	21.90	22.06	21.91			
10	16QAM	1	25	21.86	21.85	21.70		23	1
10	16QAM	1	49	21.75	21.85	21.69			
10	16QAM	25	0	20.85	20.70	20.75			
10	16QAM	25	12	20.76	20.54	20.60		22	2
10	16QAM	25	25	20.70	20.70	20.74			
10	16QAM	50	0	20.74	20.76	20.59			
10	64QAM	1	0	20.94	21.11	20.97			
10	64QAM	1	25	20.81	20.91	20.90		22	2
10	64QAM	1	49	20.95	20.79	20.84			
10	64QAM	25	0	19.88	19.84	19.85			
10	64QAM	25	12	19.71	19.86	19.90		21	3
10	64QAM	25	25	19.82	19.90	19.82			
10	64QAM	50	0	19.77	19.79	19.86			
Channel				133147	133247	133447			
Frequency (MHz)				665.5	675.5	685.5			
5	QPSK	1	0	22.62	22.81	22.62			
5	QPSK	1	12	22.67	22.68	22.63		24	0
5	QPSK	1	24	22.59	22.62	22.42			
5	QPSK	12	0	21.83	21.77	21.63			
5	QPSK	12	7	21.69	21.69	21.68		23	1
5	QPSK	12	13	21.67	21.69	21.69			
5	QPSK	25	0	21.78	21.83	21.77			
5	16QAM	1	0	22.04	21.86	21.96			
5	16QAM	1	12	21.73	22.01	21.84		23	1
5	16QAM	1	24	21.83	21.75	21.84			
5	16QAM	12	0	20.74	20.77	20.71			
5	16QAM	12	7	20.77	20.71	20.71		22	2
5	16QAM	12	13	20.65	20.73	20.64			
5	16QAM	25	0	20.64	20.65	20.76			
5	64QAM	1	0	20.97	21.00	21.06			
5	64QAM	1	12	20.93	20.98	20.82		22	2
5	64QAM	1	24	20.95	20.76	20.85			
5	64QAM	12	0	19.88	19.71	19.87			
5	64QAM	12	7	19.77	19.79	19.77		21	3
5	64QAM	12	13	19.85	19.69	19.74			
5	64QAM	25	0	19.75	19.67	19.85			



Band 38(only on channel required) (DS1,DS14,DS16)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Frac)	Power Middle Ch. (Frac)	Power High Ch. (Frac)	Tune-up limit (dBm)	MPR (dB)		
Channel										
				37850	38000	38150				
Frequency (MHz)										
20	QPSK	1	0	22.44	22.28	22.49	24	0		
20	QPSK	1	0	22.44	22.28	22.49				
20	QPSK	1	99	22.64	22.48	22.69				
20	QPSK	50	0	21.49	21.45	21.59	23	1		
20	QPSK	50	24	21.53	21.41	21.86				
20	QPSK	100	0	21.67	21.64	21.74				
20	QPSK	100	0	21.58	21.56	21.62				
20	16QAM	1	0	21.64	21.60	21.75	23	1		
20	16QAM	1	49	21.60	21.55	21.73				
20	16QAM	1	99	21.65	21.62	21.79				
20	16QAM	50	0	20.62	20.48	20.61	22	2		
20	16QAM	50	24	20.75	20.47	20.67				
20	16QAM	50	50	20.74	20.62	20.76				
20	16QAM	100	0	20.62	20.50	20.65	22	2		
20	16QAM	100	0	20.29	20.13	20.44				
20	16QAM	1	49	20.44	20.37	20.30				
20	16QAM	1	99	20.21	20.18	20.26				
20	64QAM	50	0	19.99	19.90	19.60	21	3		
20	64QAM	50	24	19.71	19.39	19.72				
20	64QAM	50	50	19.66	19.67	19.78				
20	64QAM	100	0	19.61	19.53	19.60				
Channel										
				37775	37925	38075				
Frequency (MHz)										
15	QPSK	1	0	22.48	22.27	22.62	24	0		
15	QPSK	1	97	22.45	22.30	22.61				
15	QPSK	1	74	22.50	22.44	22.54				
15	QPSK	36	0	21.61	21.42	21.53	23	1		
15	QPSK	36	20	21.69	21.57	21.64				
15	QPSK	36	20	21.59	21.68	21.67				
15	QPSK	75	0	21.87	21.85	21.82	23	1		
15	16QAM	1	0	21.73	21.60	21.78				
15	16QAM	1	37	21.53	21.50	21.60				
15	16QAM	1	74	21.72	21.69	21.83	22	2		
15	16QAM	36	0	20.58	20.42	20.59				
15	16QAM	36	20	20.66	20.46	20.72				
15	16QAM	36	39	20.66	20.48	20.70				
15	16QAM	75	0	20.61	20.50	20.63	22	2		
15	16QAM	1	0	20.76	20.20	20.44				
15	16QAM	36	20	20.53	20.56	20.30				
15	16QAM	1	74	20.20	20.44	20.45	21	3		
15	64QAM	36	0	19.99	19.31	19.68				
15	64QAM	36	20	19.71	19.19	19.66				
15	64QAM	36	39	19.68	19.54	19.75				
15	64QAM	75	0	19.65	19.55	19.66				
Channel										
				37700	37850	37925				
Frequency (MHz)										
10	QPSK	1	0	22.49	22.35	22.38	24	0		
10	QPSK	1	25	22.49	22.37	22.65				
10	QPSK	1	49	22.62	22.47	22.51				
10	QPSK	25	0	21.81	21.83	21.76	23	1		
10	QPSK	25	12	21.80	21.59	21.84				
10	QPSK	25	25	21.74	21.59	21.79				
10	QPSK	50	0	21.82	21.81	21.72	23	1		
10	16QAM	1	0	21.82	21.84	21.71				
10	16QAM	1	25	21.82	21.83	21.87				
10	16QAM	1	49	21.70	21.73	21.88	22	2		
10	16QAM	25	0	20.68	20.37	20.80				
10	16QAM	25	12	20.66	20.46	20.70				
10	16QAM	25	25	20.65	20.59	20.83				
10	16QAM	50	0	20.84	20.63	20.78	22	2		
10	16QAM	1	0	20.69	20.46	20.66				
10	16QAM	1	25	20.42	20.37	20.59				
10	64QAM	1	49	20.69	20.54	20.79	21	3		
10	64QAM	25	0	19.85	19.70	19.88				
10	64QAM	25	12	19.87	19.83	19.85				
10	64QAM	25	25	19.76	19.80	19.97				
10	64QAM	50	0	19.85	19.74	19.80				
Channel										
				37725	37875	38025				
Frequency (MHz)										
5	QPSK	1	0	22.29	22.54	22.61	24	0		
5	QPSK	1	12	22.63	22.53	22.65				
5	QPSK	1	24	22.49	22.56	22.60				
5	QPSK	12	0	21.78	21.54	21.80	23	1		
5	QPSK	12	7	21.77	21.64	21.74				
5	QPSK	12	13	21.77	21.66	21.80				
5	QPSK	25	0	21.79	21.52	21.76	23	1		
5	16QAM	1	0	21.89	21.65	21.80				
5	16QAM	1	12	21.89	21.65	22.03	23	1		
5	16QAM	1	24	21.9	21.72	21.94				
5	16QAM	12	0	20.74	20.51	20.73				
5	16QAM	12	7	20.75	20.5	20.77	22	2		
5	16QAM	12	13	20.75	20.58	20.61				
5	16QAM	25	0	20.8	20.66	20.69				
5	64QAM	1	0	20.96	20.4	20.69	22	2		
5	64QAM	1	12	20.53	20.37	20.49				
5	64QAM	1	24	20.65	20.48	20.87				
5	64QAM	12	0	19.74	19.62	19.80	21	3		
5	64QAM	12	7	19.84	19.69	19.80				
5	64QAM	12	13	19.88	19.67	19.87				
5	64QAM	25	0	19.84	19.66	19.72				

Band 41 (2.6G Band) -class 3 (DS1, DS14, DS16)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Frac)	Power Middle Ch. (Frac)	Power High Ch. (Frac)	Tune-up limit (dBm)	MPR (dB)		
Channel										
				39750	40185	40620				
Frequency (MHz)										
20	QPSK	1	0	22.23	22.54	22.38	24	0		
20	QPSK	1	0	22.44	22.38	22.64				
20	QPSK	1	99	22.41	22.62	22.53				
20	QPSK	50	0	22.10	22.22	22.12	23	1		
20	QPSK	50	24	22.13	22.44	22.23				
20	QPSK	100	0	22.15	22.90	22.33				
20	QPSK	100	0	22.19	22.38	22.26				
20	16QAM	1	0	22.02	22.27	22.07	23	1		
20	16QAM	1	49	22.04	22.17	22.05				
20	16QAM	1	99	22.04	22.20	22.19				
20	16QAM	50	0	21.03	21.16	21.02	23	1		
20	16QAM	50	24	21.08	21.30	21.29				
20	16QAM	50	50	21.04	21.31	21.20				
20	16QAM	100	0	21.07	21.29	21.05	22	2		
20	16QAM	100	0	20.70	20.89	20.83				
20	64QAM	1	49	20.68	20.85	20.80				
20	64QAM	1	99	20.82	21.03	20.96				
20	64QAM	50	0	20.00	20.21	20.05	21	3		
20	64QAM	50	24	20.06	20.23	20.18				
20	64QAM	50	50	20.00	20.29	20.16				
20	64QAM	100	0	20.05	20.40	20.12				
Channel										
				39725	40160	40595				
Frequency (MHz)										
15	QPSK	1	0	22.15	22.53	22.39	24	0		
15	QPSK	1	37	22.17	22.46	22.40				
15	QPSK	1	74	22.13	22.53	22.47				
15	QPSK	36	0	22.12	22.28	22.18	23	1		
15	QPSK	36	20	22.08	22.29	22.14				
15	QPSK	36	20	22.07	22.30	22.15				
15	QPSK	75	0	22.03	22.34	22.13	23	1		
15	16QAM	1	0	22.05	22.41	22.19				
15	16QAM	1	37	22.04	22.32	22.24				
15	16QAM	1	74	22.03	22.28	22.23	22	2		
15	16QAM	36	0	21.04	21.21	21.13				
15	16QAM	36	20	21.00	21.21	21.15				
15	16QAM	36	39	20.97	21.21	21.11				
15	16QAM	75	0	21.09	21.29	21.17	22	2		
15	16QAM	1	0	20.76	21.03	20.91				
15	16QAM	1	37	20.66	20.88	20.72				
15	64QAM	1	74	20.72	20.99	20.83	21	3		
15	64QAM	36	0	20.00	20.10	20.11				
15	64QAM	36	20	20.06	20.46	20.12				
15	64QAM	36	39	19.99	20.29	20.14				
15	64QAM	75	0	20.07	20.26	2				



DS13 for body worn for LAT

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	126	189		251	126	189	
Frequency (MHz)	854.2	858.4	862.6		854.2	858.4	862.6	
GSM 1 Tx slot	32.11	32.04	31.98	33.50	23.11	23.04	22.98	24.50
GPRS 1 Tx slot	32.02	31.95	31.87	33.50	23.02	22.95	22.87	24.50
GPRS 2 Tx slots	29.76	29.96	29.81	30.90	23.76	23.96	23.81	24.90
GPRS 3 Tx slots	28.41	28.50	28.05	29.40	23.15	23.24	23.79	25.14
GPRS 4 Tx slots	28.28	28.21	25.92	27.90	23.28	23.21	22.92	24.90
EDGE 1 Tx slot	24.78	24.68	24.79	24.90	15.78	15.68	15.79	15.90
EDGE 2 Tx slots	22.95	22.92	22.98	23.40	16.95	16.92	16.98	17.40
EDGE 3 Tx slots	21.00	20.89	21.04	21.40	16.74	16.63	16.78	17.14
EDGE 4 Tx slots	19.08	18.88	19.10	19.40	16.08	15.88	16.10	16.40

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	512	661		810	512	661	
Frequency (MHz)	1850.2	1860	1909.8		1850.2	1860	1909.8	
GSM 1 Tx slot	27.77	27.75	27.74	28.70	18.77	18.75	18.74	19.70
GPRS 1 Tx slot	27.89	27.88	27.80	28.70	18.89	18.88	18.80	19.70
GPRS 2 Tx slots	24.81	24.95	24.82	25.70	18.81	18.95	18.82	19.70
GPRS 3 Tx slots	23.40	23.35	23.22	24.20	19.14	19.09	18.98	19.94
GPRS 4 Tx slots	21.81	21.62	21.50	22.70	18.81	18.62	18.50	19.70
EDGE 1 Tx slot	25.93	26.64	25.53	26.50	19.93	19.64	19.53	17.50
EDGE 2 Tx slots	24.12	23.98	24.06	25.50	18.12	17.98	18.06	19.50
EDGE 3 Tx slots	23.03	22.58	22.81	24.00	18.77	18.30	18.35	19.74
EDGE 4 Tx slots	21.24	21.32	20.55	22.50	18.24	18.32	17.55	19.50

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
	TX Channel	6932	8400		9538	1312	1413		1513	4132	4182	
Frequency (MHz)	8692	8900	9308		1537	1638	1738	4597	4607	4655		
Frequency (MHz)	1852.4	1860	1907.8		1712.4	1722.6	1752.6	826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	16.50	16.42	16.17	17.40	17.58	17.71	17.58	18.70	21.38	21.47	21.48
3GPP Rel 99	RM-C 12.2Kbps	18.52	18.49	18.21	17.40	17.80	17.72	17.80	18.70	21.40	21.52	21.50
3GPP Rel 6	HS-PA Subtest-1	15.53	15.30	15.20	16.40	16.92	16.90	16.83	17.70	20.45	20.54	20.60
3GPP Rel 6	HS-PA Subtest-2	15.56	15.52	15.22	16.40	16.84	16.83	16.58	17.70	20.45	20.55	20.50
3GPP Rel 6	HS-PA Subtest-3	15.05	15.04	14.69	15.90	16.04	16.22	16.08	17.20	19.93	20.01	20.01
3GPP Rel 6	HS-PA Subtest-4	14.99	14.85	14.69	15.90	16.10	16.24	16.11	17.20	19.96	20.03	20.08
3GPP Rel 6	DC-HSDPA Subtest-1	15.81	15.82	15.33	16.40	16.73	16.92	16.71	17.70	20.52	20.61	20.74
3GPP Rel 6	DC-HSDPA Subtest-2	15.83	15.58	15.28	16.40	16.68	16.90	16.82	17.70	20.50	20.59	20.62
3GPP Rel 6	DC-HSDPA Subtest-3	15.12	15.08	14.73	15.90	16.10	16.33	16.18	17.20	20.05	20.14	20.20
3GPP Rel 6	DC-HSDPA Subtest-4	15.05	15.02	14.70	15.90	16.12	16.32	16.15	17.20	20.12	20.15	20.18
3GPP Rel 6	HS-UPA Subtest-1	15.56	15.52	15.27	16.40	16.66	16.76	16.60	17.70	20.48	20.51	20.58
3GPP Rel 6	HS-UPA Subtest-2	13.59	13.50	13.39	14.40	14.83	14.71	14.55	15.70	18.54	18.42	18.53
3GPP Rel 6	HS-UPA Subtest-3	14.48	14.53	14.35	15.40	15.58	15.80	15.58	16.70	19.42	19.48	19.44
3GPP Rel 6	HS-UPA Subtest-4	13.82	13.54	13.42	14.40	14.80	14.67	14.51	15.70	18.51	18.50	18.48
3GPP Rel 6	HS-UPA Subtest-5	15.60	15.58	15.30	16.40	16.61	16.69	16.55	17.70	20.55	20.56	20.52

Band	CDMA BC0			Tune-up Limit (dBm)	CDMA BC1			Tune-up Limit (dBm)	CDMA BC10			Tune-up Limit (dBm)
	TX Channel	1013	384		777	25	600		1175	476	580	
Frequency (MHz)	824.7	836.52	848.31		1851.25	1860	1908.75	817.9	820.5	823.1		
RC1 S055	21.44	21.48	21.39	22.60	17.11	17.07	16.92	18.30	21.83	21.81	21.79	
RC3 S058	21.53	21.54	21.40	22.60	17.13	17.11	16.97	18.30	21.84	22.07	21.92	
RC3 S032 (F-SCH)	21.41	21.46	21.38	22.60	17.12	17.09	16.96	18.30	21.88	22.00	21.99	
RC3 S032 (H-SCH)	21.33	21.35	21.23	22.60	17.04	17.01	16.90	18.30	21.77	21.89	21.75	
RTAP 153.6Kbps	21.22	21.30	21.15	22.60	16.97	17.02	16.90	18.30	21.80	21.81	21.87	
RTAP 409.6Kbps	21.30	21.40	21.28	22.60	16.75	16.90	16.65	18.30	21.51	21.52	21.41	



Band 2 (1900MHz Band) Part 24E										
BW (MHz)	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	16.92	16.86	16.80				
20	QPSK	1	49	16.83	16.81	16.67	17.9	0		
20	QPSK	1	99	16.77	16.70	16.63				
20	QPSK	50	0	16.87	16.70	16.64				
20	QPSK	50	24	16.82	16.82	16.85	17.9	0		
20	QPSK	50	50	16.57	16.45	16.43				
20	QPSK	100	0	16.58	16.56	16.47				
20	16QAM	1	0	16.77	16.76	16.67				
20	16QAM	1	49	16.80	16.73	16.56	17.9	0		
20	16QAM	1	99	16.69	16.61	16.55				
20	16QAM	50	0	16.65	16.58	16.53				
20	16QAM	50	24	16.62	16.49	16.47	17.9	0		
20	16QAM	50	50	16.55	16.49	16.43				
20	16QAM	100	0	16.63	16.51	16.49				
20	64QAM	1	0	16.66	16.66	16.69				
20	64QAM	1	49	16.74	16.77	16.56	17.9	0		
20	64QAM	1	99	16.55	16.58	16.38				
20	64QAM	50	0	16.71	16.60	16.54				
20	64QAM	50	24	16.67	16.58	16.51	17.9	0		
20	64QAM	50	50	16.61	16.47	16.47				
20	64QAM	100	0	16.64	16.56	16.52				
Channel										
Frequency (MHz)										
15	QPSK	1	0	16.54	16.52	16.39				
15	QPSK	1	37	16.48	16.46	16.24	17.9	0		
15	QPSK	1	74	16.39	16.37	16.29				
15	QPSK	36	0	16.68	16.55	16.49				
15	QPSK	36	20	16.64	16.51	16.44	17.9	0		
15	QPSK	36	39	16.53	16.48	16.40				
15	QPSK	75	0	16.62	16.54	16.47				
15	16QAM	1	0	16.85	16.85	16.89				
15	16QAM	1	37	16.74	16.69	16.51	17.9	0		
15	16QAM	1	74	16.77	16.66	16.57				
15	16QAM	36	0	16.65	16.54	16.45				
15	16QAM	36	20	16.59	16.51	16.46	17.9	0		
15	16QAM	36	39	16.55	16.45	16.38				
15	16QAM	75	0	16.62	16.52	16.44				
15	64QAM	1	0	16.72	16.64	16.67				
15	64QAM	1	37	16.74	16.68	16.54	17.9	0		
15	64QAM	1	74	16.73	16.52	16.52				
15	64QAM	36	0	16.70	16.57	16.50				
15	64QAM	36	20	16.66	16.54	16.47	17.9	0		
15	64QAM	36	39	16.60	16.51	16.46				
15	64QAM	75	0	16.65	16.57	16.45				
Channel										
Frequency (MHz)										
10	QPSK	1	0	16.70	16.64	16.48				
10	QPSK	1	25	16.68	16.53	16.40	17.9	0		
10	QPSK	1	49	16.55	16.48	16.37				
10	QPSK	25	0	16.76	16.66	16.54				
10	QPSK	25	12	16.67	16.63	16.52	17.9	0		
10	QPSK	25	25	16.69	16.54	16.45				
10	QPSK	50	0	16.68	16.59	16.48				
10	16QAM	1	0	16.75	16.74	16.74				
10	16QAM	1	25	16.71	16.88	16.62	17.9	0		
10	16QAM	1	49	16.83	16.75	16.66				
10	16QAM	25	0	16.77	16.77	16.53	17.9	0		
10	16QAM	25	12	16.77	16.77	16.53				
10	16QAM	25	25	16.68	16.57	16.52				
10	16QAM	50	0	16.72	16.66	16.52				
10	64QAM	1	0	16.75	16.85	16.68				
10	64QAM	1	25	16.72	16.81	16.67	17.9	0		
10	64QAM	1	49	16.83	16.75	16.61				
10	64QAM	25	0	16.81	16.81	16.61				
10	64QAM	25	12	16.82	16.79	16.57	17.9	0		
10	64QAM	25	25	16.75	16.65	16.50				
10	64QAM	50	0	16.80	16.66	16.56				
Channel										
Frequency (MHz)										
5	QPSK	1	0	16.68	16.57	16.37				
5	QPSK	1	12	16.66	16.47	16.42	17.9	0		
5	QPSK	1	24	16.58	16.47	16.31				
5	QPSK	12	0	16.77	16.71	16.49				
5	QPSK	12	7	16.76	16.68	16.45	17.9	0		
5	QPSK	12	13	16.65	16.62	16.38				
5	QPSK	25	0	16.72	16.62	16.42				
5	16QAM	1	0	16.75	16.75	16.75				
5	16QAM	1	12	16.74	16.76	16.81	17.9	0		
5	16QAM	1	24	16.76	16.78	16.69				
5	16QAM	12	0	16.81	16.77	16.55				
5	16QAM	12	7	16.77	16.70	16.51	17.9	0		
5	16QAM	12	13	16.68	16.61	16.41				
5	16QAM	25	0	16.73	16.69	16.47				
5	64QAM	1	0	16.80	16.71	16.52				
5	64QAM	1	12	16.70	16.71	16.72	17.9	0		
5	64QAM	1	24	16.77	16.79	16.66				
5	64QAM	12	0	16.85	16.80	16.58				
5	64QAM	12	7	16.85	16.77	16.55	17.9	0		
5	64QAM	12	13	16.77	16.68	16.47				
5	64QAM	25	0	16.77	16.70	16.51				
Channel										
Frequency (MHz)										
3	QPSK	1	0	16.72	16.64	16.42				
3	QPSK	1	8	16.65	16.56	16.38	17.9	0		
3	QPSK	1	14	16.53	16.44	16.22				
3	QPSK	8	0	16.77	16.67	16.47				
3	QPSK	8	4	16.73	16.66	16.45	17.9	0		
3	QPSK	8	7	16.64	16.56	16.39				
3	QPSK	15	0	16.73	16.67	16.47				
3	16QAM	1	0	16.80	16.72	16.81				
3	16QAM	1	8	16.71	16.72	16.81	17.9	0		
3	16QAM	1	14	16.77	16.76	16.59				
3	16QAM	8	0	16.85	16.79	16.58				
3	16QAM	8	4	16.79	16.72	16.56	17.9	0		
3	16QAM	8	7	16.74	16.66	16.45				
3	16QAM	15	0	16.72	16.67	16.48				
3	64QAM	1	0	16.75	16.75	16.79				
3	64QAM	1	8	16.73	16.74	16.75	17.9	0		
3	64QAM	1	14	16.84	16.86	16.60				
3	64QAM	8	0	16.81	16.78	16.53				
3	64QAM	8	4	16.85	16.76	16.55	17.9	0		
3	64QAM	8	7	16.71	16.69	16.47				
3	64QAM	15	0	16.81	16.74	16.52				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	16.62	16.52	16.32				
1.4	QPSK	1	3	16.64	16.53	16.32	17.9	0		
1.4	QPSK	1	5	16.53	16.44	16.24				
1.4	QPSK	3	0	16.59	16.50	16.28				
1.4	QPSK	3	1	16.63	16.57	16.37	17.9	0		
1.4	QPSK	3	3	16.52	16.48	16.25				
1.4	QPSK	6	0	16.67	16.58	16.35				
1.4	16QAM	1	0	16.77	16.66	16.69				
1.4	16QAM	1	3	16.72	16.74	16.52	17.9	0		
1.4	16QAM	1	5	16.85	16.79	16.58				
1.4	16QAM	3	0	16.77	16.66	16.48				
1.4	16QAM	3	1	16.81	16.66	16.47	17.9	0		
1.4	16QAM	3	3	16.67	16.61	16.38				
1.4	16QAM	6	0	16.73	16.62	16.39				
1.4	64QAM	1	0	16.75	16.78	16.61				
1.4	64QAM	1	3	16.86	16.82	16.61	17.9	0		
1.4	64QAM	1	5	16.81	16.68	16.48				
1.4	64QAM	3	0	16.85	16.80	16.59				
1.4	64QAM	3	1	16.79	16.85	16.55	17.9	0		
1.4	64QAM	3	3	16.83	16.78	16.55				
1.4	64QAM	6	0	16.70	16.66	16.45				



Band 7 (2600MHz Band) Part 27									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2050	2100	2150			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	16.22	16.42	16.47	17.6	0	
20	QPSK	1	49	16.23	16.44	16.58			
20	QPSK	1	99	16.34	16.53	16.61			
20	QPSK	50	0	15.95	16.17	16.23	17.6	0	
20	QPSK	50	24	16.06	16.25	16.32			
20	QPSK	50	50	16.10	16.29	16.43			
20	QPSK	100	0	16.05	16.23	16.28			
20	16QAM	1	0	16.12	16.32	16.32	17.6	0	
20	16QAM	1	49	16.18	16.40	16.37			
20	16QAM	1	99	16.24	16.34	16.21			
20	16QAM	50	0	15.99	16.17	16.26	17.6	0	
20	16QAM	50	24	16.11	16.24	16.32			
20	16QAM	50	50	16.12	16.32	16.41			
20	16QAM	100	0	16.06	16.27	16.29			
20	64QAM	1	0	15.93	16.22	16.25	17.6	0	
20	64QAM	1	49	16.12	16.38	16.31			
20	64QAM	1	99	16.12	16.31	16.35			
20	64QAM	50	0	15.98	16.22	16.27	17.6	0	
20	64QAM	50	24	16.06	16.23	16.34			
20	64QAM	50	50	16.09	16.33	16.42			
20	64QAM	100	0	16.06	16.26	16.30			
Channel				20625	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	15.81	15.99	16.09	17.6	0	
15	QPSK	1	37	15.81	16.05	16.22			
15	QPSK	1	74	15.92	16.08	16.20			
15	QPSK	36	0	16.00	16.15	16.28	17.6	0	
15	QPSK	36	20	16.02	16.26	16.31			
15	QPSK	36	39	16.04	16.26	16.37			
15	QPSK	75	0	16.00	16.26	16.30			
15	16QAM	1	0	16.12	16.37	16.16	17.6	0	
15	16QAM	1	37	16.19	16.35	16.35			
15	16QAM	1	74	16.31	16.30	16.21			
15	16QAM	36	0	15.98	16.20	16.23	17.6	0	
15	16QAM	36	20	16.03	16.30	16.30			
15	16QAM	36	39	16.07	16.28	16.38			
15	16QAM	75	0	16.02	16.28	16.31			
15	64QAM	1	0	15.93	16.14	16.20	17.6	0	
15	64QAM	1	37	16.10	16.28	16.35			
15	64QAM	1	74	16.06	16.41	16.27			
15	64QAM	36	0	16.01	16.18	16.33	17.6	0	
15	64QAM	36	20	16.09	16.29	16.34			
15	64QAM	36	39	16.08	16.31	16.36			
15	64QAM	75	0	16.02	16.30	16.30			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	16.05	16.20	16.32	17.6	0	
10	QPSK	1	25	16.02	16.24	16.36			
10	QPSK	1	49	16.04	16.39	16.21			
10	QPSK	25	0	16.10	16.35	16.42	17.6	0	
10	QPSK	25	12	16.16	16.38	16.18			
10	QPSK	25	25	16.16	16.41	16.27			
10	QPSK	50	0	16.12	16.40	16.35	17.6	0	
10	16QAM	1	0	16.02	16.25	16.33			
10	16QAM	1	25	15.99	16.24	16.33			
10	16QAM	1	49	16.11	16.30	16.40			
10	16QAM	25	0	15.77	16.03	16.10	17.6	0	
10	16QAM	25	12	15.83	16.05	16.17			
10	16QAM	25	25	15.82	16.08	16.26			
10	16QAM	50	0	15.84	16.07	16.12	17.6	0	
10	64QAM	1	0	15.85	16.07	16.23			
10	64QAM	1	25	15.88	16.25	16.36	17.6	0	
10	64QAM	1	49	16.04	16.27	16.33			
10	64QAM	25	0	15.78	16.04	16.16	17.6	0	
10	64QAM	25	12	15.84	16.07	16.19			
10	64QAM	25	25	15.85	16.13	16.26			
10	64QAM	50	0	15.84	16.10	16.18			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	16.05	16.19	16.39	17.6	0	
5	QPSK	1	12	16.14	16.32	16.14			
5	QPSK	1	24	16.17	16.36	16.18			
5	QPSK	12	0	16.12	16.30	16.34	17.6	0	
5	QPSK	12	7	16.20	16.42	16.25			
5	QPSK	12	13	16.22	16.34	16.25			
5	QPSK	25	0	16.20	16.38	16.20			
5	16QAM	1	0	16.09	16.25	16.34	17.6	0	
5	16QAM	1	12	16.07	16.21	16.40			
5	16QAM	1	24	16.08	16.32	16.20			
5	16QAM	12	0	15.84	15.95	16.16	17.6	0	
5	16QAM	12	7	15.91	16.11	16.26			
5	16QAM	12	13	15.93	16.12	16.26			
5	16QAM	25	0	15.85	16.03	16.19	17.6	0	
5	16QAM	25	1	16.03	16.18	16.35			
5	64QAM	1	12	16.01	16.23	16.36			
5	64QAM	1	24	16.05	16.27	16.33			
5	64QAM	12	0	15.88	16.00	16.19	17.6	0	
5	64QAM	12	7	15.93	16.14	16.31			
5	64QAM	12	13	16.00	16.19	16.30			
5	64QAM	25	0	15.87	16.08	16.19			

Band 13(700MHz Band) Part 27F									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23200	23250				
Frequency (MHz)				782					
10	QPSK	1	0	20.61			22.2	0	
10	QPSK	1	25	20.80					
10	QPSK	1	49	20.93					
10	QPSK	25	0	20.83			22.2	0	
10	QPSK	25	12	20.85					
10	QPSK	25	25	20.91					
10	QPSK	50	0	20.75					
10	16QAM	1	0	20.77			22.2	0	
10	16QAM	1	25	20.82					
10	16QAM	1	49	20.81					
10	16QAM	25	0	20.61			22	0.2	
10	16QAM	25	12	20.70					
10	16QAM	25	25	20.78					
10	16QAM	50	0	20.70					
10	64QAM	1	0	20.77			22	0.2	
10	64QAM	1	25	20.80					
10	64QAM	1	49	20.84					
10	64QAM	25	0	19.74			21	1.2	
10	64QAM	25	12	19.72					
10	64QAM	25	25	19.71					
10	64QAM	50	0	19.93					
Channel				23205	23230	23255			
Frequency (MHz)				779.5	782	784.5			
5	QPSK	1	0	20.77	20.76	20.71	22.2	0	
5	QPSK	1	12	20.88	20.82	20.89			
5	QPSK	1	24	20.88	20.77	20.80			
5	QPSK	12	0	20.70	20.84	20.78			
5	QPSK	12	7	20.87	20.85	20.89	22.2	0	
5	QPSK	12	13	20.88	20.91	20.90			
5	QPSK	25	0	20.84	20.85	20.86			
5	16QAM	1	0	20.64	20.96	20.61	22.2	0	
5	16QAM	1	12	20.55	20.75	20.90			
5	16QAM	1	24	20.81	20.60	20.79			
5	16QAM	12	0	20.66	20.63	20.65			
5	16QAM	12	7	20.78	20.65	20.69	22	0.2	
5	16QAM	12	13	20.72	20.70	20.70			
5	16QAM	25	0	20.59	20.69	20.81			
5	64QAM	1	0	20.46	20.46	20.88	22	0.2	
5	64QAM	1	12	20.77	20.62	20.84			
5	64QAM	1	24	20.79	20.48	20.89			
5	64QAM	12	0	19.56	19.76	19.67	21	1.2	
5	64QAM	12	7	20.14	19.68	19.72			
5	64QAM	12	13	19.74	19.86	19.75			
5	64QAM	25	0	19.75	19.63	19.70			

Band 14 (700MHz Band)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	



Band 25 (1900MHz Band) Part 24E												
BW (MHz)	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	16.94	16.80	16.63	17.9	0				
20	QPSK	1	49	16.82	16.79	16.62						
20	QPSK	1	99	16.75	16.68	16.50						
20	QPSK	50	0	16.87	16.73	16.71						
20	QPSK	50	24	16.87	16.44	16.41	17.9	0				
20	QPSK	50	50	16.57	16.45	16.37						
20	QPSK	100	0	16.95	16.47	16.42						
20	16QAM	1	0	16.85	16.83	16.53						
20	16QAM	1	49	16.85	16.71	16.47	17.9	0				
20	16QAM	1	99	16.58	16.63	16.45						
20	16QAM	50	24	16.70	16.57	16.42						
20	16QAM	50	24	16.65	16.55	16.42						
20	16QAM	50	50	16.58	16.50	16.41	17.9	0				
20	16QAM	100	0	16.60	16.50	16.40						
20	16QAM	1	0	16.66	16.66	16.47						
20	16QAM	1	49	16.68	16.65	16.43						
20	16QAM	1	99	16.56	16.50	16.28	17.9	0				
20	16QAM	50	24	16.71	16.59	16.46						
20	16QAM	50	24	16.68	16.55	16.44						
20	16QAM	50	50	16.60	16.52	16.42						
20	16QAM	100	0	16.64	16.53	16.43	17.9	0				
Channel												
Frequency (MHz)												
15	QPSK	1	0	16.57	16.45	16.28			17.9	0		
15	QPSK	1	49	16.45	16.36	16.15						
15	QPSK	1	74	16.37	16.31	16.11						
15	QPSK	36	0	16.63	16.47	16.36						
15	QPSK	36	20	16.59	16.49	16.37	17.9	0				
15	QPSK	36	39	16.57	16.42	16.32						
15	QPSK	75	0	16.60	16.46	16.33						
15	16QAM	1	0	16.71	16.61	16.61						
15	16QAM	1	37	16.62	16.70	16.45	17.9	0				
15	16QAM	1	74	16.63	16.68	16.43						
15	16QAM	36	0	16.64	16.49	16.37						
15	16QAM	36	20	16.63	16.49	16.39						
15	16QAM	36	39	16.56	16.46	16.32	17.9	0				
15	16QAM	75	0	16.60	16.52	16.40						
15	16QAM	1	0	16.82	16.66	16.51						
15	16QAM	1	37	16.80	16.66	16.41						
15	16QAM	1	74	16.69	16.52	16.40	17.9	0				
15	16QAM	36	0	16.69	16.61	16.41						
15	16QAM	36	20	16.68	16.53	16.44						
15	16QAM	36	39	16.62	16.53	16.39						
15	16QAM	75	0	16.62	16.50	16.38	17.9	0				
Channel												
Frequency (MHz)												
10	QPSK	1	0	16.61	16.51	16.30			17.9	0		
10	QPSK	1	25	16.60	16.47	16.21						
10	QPSK	1	49	16.56	16.47	16.28						
10	QPSK	25	0	16.75	16.58	16.42						
10	QPSK	25	12	16.73	16.61	16.46	17.9	0				
10	QPSK	25	25	16.65	16.62	16.42						
10	QPSK	50	0	16.70	16.56	16.38						
10	16QAM	1	0	16.73	16.76	16.62						
10	16QAM	1	25	16.86	16.82	16.49	17.9	0				
10	16QAM	1	49	16.79	16.76	16.58						
10	16QAM	25	0	16.80	16.64	16.44						
10	16QAM	25	12	16.78	16.63	16.48						
10	16QAM	25	25	16.74	16.64	16.36	17.9	0				
10	16QAM	50	0	16.77	16.62	16.44						
10	16QAM	1	0	16.76	16.68	16.62						
10	16QAM	1	25	16.78	16.72	16.38						
10	16QAM	1	49	16.76	16.68	16.56	17.9	0				
10	16QAM	25	0	16.83	16.68	16.48						
10	16QAM	25	12	16.80	16.64	16.53						
10	16QAM	25	25	16.74	16.70	16.43						
10	16QAM	50	0	16.78	16.62	16.41	17.9	0				
Channel												
Frequency (MHz)												
5	QPSK	1	0	16.71	16.53	16.25			17.9	0		
5	QPSK	1	12	16.62	16.51	16.27						
5	QPSK	1	24	16.63	16.56	16.26						
5	QPSK	12	0	16.77	16.58	16.38						
5	QPSK	12	7	16.70	16.60	16.39	17.9	0				
5	QPSK	12	13	16.68	16.61	16.33						
5	QPSK	25	0	16.70	16.53	16.31						
5	16QAM	1	0	16.84	16.61	16.60						
5	16QAM	1	12	16.74	16.79	16.61	17.9	0				
5	16QAM	1	24	16.84	16.68	16.49						
5	16QAM	12	0	16.76	16.63	16.39						
5	16QAM	12	7	16.77	16.63	16.40						
5	16QAM	12	13	16.74	16.62	16.37	17.9	0				
5	16QAM	25	0	16.74	16.67	16.42						
5	16QAM	1	0	16.71	16.80	16.56						
5	16QAM	1	12	16.82	16.73	16.57						
5	16QAM	1	24	16.86	16.84	16.57	17.9	0				
5	16QAM	12	0	16.84	16.65	16.47						
5	16QAM	12	7	16.81	16.70	16.42						
5	16QAM	12	13	16.80	16.65	16.44						
5	16QAM	25	0	16.78	16.57	16.42	17.9	0				
Channel												
Frequency (MHz)												
3	QPSK	1	0	16.62	16.50	16.25			17.9	0		
3	QPSK	1	8	16.67	16.55	16.27						
3	QPSK	1	14	16.63	16.51	16.25						
3	QPSK	8	0	16.68	16.52	16.30						
3	QPSK	8	4	16.71	16.62	16.34	17.9	0				
3	QPSK	8	7	16.69	16.59	16.32						
3	QPSK	15	0	16.69	16.51	16.37						
3	16QAM	1	0	16.82	16.85	16.62						
3	16QAM	1	8	16.78	16.78	16.65	17.9	0				
3	16QAM	1	14	16.75	16.84	16.61						
3	16QAM	8	0	16.76	16.56	16.45						
3	16QAM	8	4	16.77	16.66	16.39						
3	16QAM	8	7	16.77	16.65	16.37	17.9	0				
3	16QAM	15	0	16.75	16.59	16.38						
3	16QAM	1	0	16.80	16.69	16.57						
3	16QAM	1	8	16.88	16.79	16.56						
3	16QAM	1	14	16.81	16.73	16.80	17.9	0				
3	16QAM	8	0	16.80	16.62	16.37						
3	16QAM	8	4	16.83	16.69	16.47						
3	16QAM	8	7	16.73	16.63	16.39						
3	16QAM	15	0	16.74	16.58	16.42	17.9	0				
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	16.50	16.45	16.14			17.9	0		
1.4	QPSK	1	3	16.56	16.46	16.24						
1.4	QPSK	1	5	16.50	16.43	16.14						
1.4	QPSK	3	0	16.55	16.45	16.17						
1.4	QPSK	3	1	16.60	16.47	16.23	17.9	0				
1.4	QPSK	3	3	16.56	16.43	16.16						
1.4	QPSK	6	0	16.51	16.51	16.24						
1.4	16QAM	1	0	16.84	16.77	16.57						
1.4	16QAM	1	3	16.71	16.79	16.53	17.9	0				
1.4	16QAM	1	5	16.77	16.79	16.54						
1.4	16QAM	3	0	16.69	16.55	16.30						
1.4	16QAM	3	1	16.71	16.60	16.33						
1.4	16QAM	3	3	16.67	16.52	16.29	17.9	0				
1.4	16QAM	6	0	16.73	16.64	16.28						
1.4	16QAM	1	0	16.84	16.69	16.44						
1.4	16QAM	1	3	16.70	16.79	16.41						
1.4	16QAM	1	5	16.78	16.69	16.44	17.9	0				
1.4	16QAM	3	0	16.74	16.63	16.48						
1.4	16QAM	3	1	16.88	16.66	16.51						
1.4	16QAM	3	3	16.74	16.65	16.42						
1.4	16QAM	6	0	16.66	16.59	16.28	17.9	0				

Band 26 for FCC (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)										
15	QPSK	1	0	20.60	20.30	20.23	21.6	0		
15	QPSK	1	37	20.33	20.36	20.35				
15	QPSK	1	74	20.30	20.28	20.14				
15	QPSK	36	0	20.40	20.20	20.25				
15	QPSK	36	20	20.23	20.19	20.20	21.6	0		
15	QPSK	36	39	20.23	20.23	20.31				
15	QPSK	75	0	20.30	20.27	20.15				
15	16QAM	1	0	20.38	20.01	20.35				
15	16QAM	1	37	20.10	20.07	20.31				



Band 66									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up	MPR	
				Low	Middle	High			
Channel				Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	limit	(dB)	
Frequency (MHz)				13202	13202	13202			
20	QPSK	1	0	17.20	17.65	17.19			
20	QPSK	1	49	17.18	17.60	17.15	18.8	0	
20	QPSK	1	99	17.29	17.24	17.28			
20	QPSK	50	0	17.24	17.37	17.19			
20	QPSK	50	24	17.30	17.45	17.16	18.8	0	
20	QPSK	50	50	17.28	17.41	17.20			
20	QPSK	100	0	17.28	17.34	17.16			
20	16QAM	1	0	17.47	17.63	17.54			
20	16QAM	1	49	17.47	17.60	17.47	18.8	0	
20	16QAM	1	99	17.36	17.59	17.41			
20	16QAM	50	0	17.21	17.39	17.21			
20	16QAM	50	24	17.30	17.37	17.16	18.8	0	
20	16QAM	50	50	17.24	17.41	17.21			
20	16QAM	100	0	17.25	17.36	17.17			
20	64QAM	1	0	17.42	17.46	17.29			
20	64QAM	1	49	17.44	17.58	17.40	18.8	0	
20	64QAM	1	99	17.34	17.59	17.28			
20	64QAM	50	0	17.24	17.38	17.22			
20	64QAM	50	24	17.32	17.39	17.23	18.8	0	
20	64QAM	50	50	17.27	17.44	17.23			
20	64QAM	100	0	17.29	17.36	17.19			
Channel				132047	132322	132597	Tune-up	MPR	
Frequency (MHz)				1717.5	1745	1772.5	limit	(dB)	
15	QPSK	1	0	17.22	17.29	17.20			
15	QPSK	1	37	17.20	17.33	17.13	18.8	0	
15	QPSK	1	74	17.18	17.25	17.09			
15	QPSK	36	0	17.31	17.37	17.17			
15	QPSK	36	20	17.29	17.35	17.15	18.8	0	
15	QPSK	36	39	17.26	17.39	17.19			
15	QPSK	75	0	17.28	17.35	17.13			
15	16QAM	1	0	17.44	17.64	17.51			
15	16QAM	1	37	17.50	17.58	17.50	18.8	0	
15	16QAM	1	74	17.49	17.63	17.47			
15	16QAM	36	0	17.25	17.36	17.16			
15	16QAM	36	20	17.27	17.31	17.21	18.8	0	
15	16QAM	36	39	17.23	17.37	17.20			
15	16QAM	75	0	17.28	17.34	17.14			
15	64QAM	1	0	17.37	17.44	17.35			
15	64QAM	1	37	17.37	17.51	17.36	18.8	0	
15	64QAM	1	74	17.40	17.52	17.40			
15	64QAM	36	0	17.37	17.41	17.24			
15	64QAM	36	20	17.34	17.39	17.20	18.8	0	
15	64QAM	36	39	17.29	17.44	17.24			
15	64QAM	75	0	17.30	17.30	17.16			
Channel				132022	132322	132622	Tune-up	MPR	
Frequency (MHz)				1715	1745	1775	limit	(dB)	
10	QPSK	1	0	17.24	17.48	17.28			
10	QPSK	1	25	17.21	17.38	17.24	18.8	0	
10	QPSK	1	49	17.23	17.35	17.15			
10	QPSK	25	0	17.42	17.47	17.33			
10	QPSK	25	12	17.39	17.46	17.34	18.8	0	
10	QPSK	25	25	17.36	17.45	17.29			
10	QPSK	50	0	17.38	17.41	17.32			
10	16QAM	1	0	17.29	17.41	17.25			
10	16QAM	1	25	17.17	17.37	17.19	18.8	0	
10	16QAM	1	49	17.23	17.40	17.24			
10	16QAM	25	0	17.11	17.21	17.06			
10	16QAM	25	12	17.08	17.16	17.06	18.8	0	
10	16QAM	25	25	17.06	17.19	17.02			
10	16QAM	50	0	17.10	17.18	17.07			
10	64QAM	1	0	17.21	17.31	17.18			
10	64QAM	1	25	17.24	17.33	17.05	18.8	0	
10	64QAM	1	49	17.16	17.27	17.17			
10	64QAM	25	0	17.19	17.24	17.12			
10	64QAM	25	12	17.15	17.20	17.50	18.8	0	
10	64QAM	25	25	17.11	17.26	17.20			
10	64QAM	50	0	17.13	17.16	17.08			
Channel				131997	132322	132647	Tune-up	MPR	
Frequency (MHz)				1712.5	1745	1777.5	limit	(dB)	
5	QPSK	1	0	17.32	17.38	17.22			
5	QPSK	1	12	17.26	17.44	17.21	18.8	0	
5	QPSK	1	24	17.30	17.45	17.16			
5	QPSK	12	0	17.40	17.45	17.30			
5	QPSK	12	7	17.40	17.51	17.28	18.8	0	
5	QPSK	12	13	17.33	17.50	17.28			
5	QPSK	25	0	17.36	17.43	17.27			
5	16QAM	1	0	17.38	17.45	17.23			
5	16QAM	1	12	17.30	17.37	17.22	18.8	0	
5	16QAM	1	24	17.36	17.49	17.18			
5	16QAM	12	0	17.10	17.19	17.02			
5	16QAM	12	7	17.14	17.25	17.02	18.8	0	
5	16QAM	12	13	17.12	17.22	17.01			
5	16QAM	25	0	17.06	17.18	17.03			
5	64QAM	1	0	17.38	17.33	17.16			
5	64QAM	1	12	17.31	17.36	17.04	18.8	0	
5	64QAM	1	24	17.29	17.31	17.04			
5	64QAM	12	0	17.16	17.28	17.01			
5	64QAM	12	7	17.21	17.35	17.09	18.8	0	
5	64QAM	12	13	17.14	17.27	17.07			
5	64QAM	25	0	17.13	17.21	17.04			
Channel				131987	132322	132657	Tune-up	MPR	
Frequency (MHz)				1711.5	1745	1778.5	limit	(dB)	
3	QPSK	1	0	17.27	17.38	17.25			
3	QPSK	1	8	17.39	17.45	17.25	18.8	0	
3	QPSK	1	14	17.25	17.39	17.19			
3	QPSK	8	0	17.38	17.44	17.29			
3	QPSK	8	4	17.43	17.53	17.28	18.8	0	
3	QPSK	8	7	17.36	17.49	17.29			
3	QPSK	15	0	17.38	17.43	17.25			
3	16QAM	1	0	17.36	17.38	17.28			
3	16QAM	1	8	17.34	17.52	17.24	18.8	0	
3	16QAM	1	14	17.48	17.42	17.22			
3	16QAM	8	0	17.12	17.20	17.03			
3	16QAM	8	4	17.14	17.30	17.04	18.8	0	
3	16QAM	8	7	17.11	17.25	17.04			
3	16QAM	15	0	17.10	17.20	17.04			
3	64QAM	1	0	17.39	17.33	17.05			
3	64QAM	1	8	17.45	17.35	17.18	18.8	0	
3	64QAM	1	14	17.26	17.30	17.15			
3	64QAM	8	0	17.17	17.18	17.07			
3	64QAM	8	4	17.17	17.35	17.08	18.8	0	
3	64QAM	8	7	17.18	17.25	17.07			
3	64QAM	15	0	17.14	17.20	17.01			
Channel				131979	132322	132685	Tune-up	MPR	
Frequency (MHz)				1710.7	1745	1779.3	limit	(dB)	
1.4	QPSK	1	0	17.23	17.33	17.06			
1.4	QPSK	1	3	17.33	17.44	17.15	18.8	0	
1.4	QPSK	1	5	17.22	17.35	17.06			
1.4	QPSK	3	0	17.19	17.34	17.15			
1.4	QPSK	3	1	17.29	17.38	17.19			
1.4	QPSK	3	3	17.19	17.38	17.14	18.8	0	
1.4	QPSK	6	0	17.30	17.44	17.20			
1.4	16QAM	1	0	17.27	17.46	17.14			
1.4	16QAM	1	3	17.20	17.47	17.19	18.8	0	
1.4	16QAM	1	5	17.26	17.28	17.14			
1.4	16QAM	3	0	17.01	17.22	16.93			
1.4	16QAM	3	1	17.09	17.25	16.93			
1.4	16QAM	3	3	17.03	17.18	16.90	18.8	0	
1.4	16QAM	6	0	17.05	17.21	17.04			
1.4	64QAM	1	0	17.20	17.27	17.02			
1.4	64QAM	1	3	17.30	17.44	17.07	18.8	0	
1.4	64QAM	1	5	17.17	17.44	17.05			
1.4	64QAM	3	0	17.14	17.32	17.02			
1.4	64QAM	3	1	17.17	17.27	17.05			
1.4	64QAM	3	3	17.15	17.31	17.02	18.8	0	
1.4	64QAM	6	0	17.04	17.20	16.93			



Band 38(only on channel required)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Frac)	Power Middle Ch. (Frac)	Power High Ch. (Frac)	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				37850	38000	38150				
20	QPSK	1	0	18.77	18.69	18.81	20	0		
20	QPSK	1	99	18.78	18.61	18.93				
20	QPSK	50	0	18.74	18.75	18.80				
20	QPSK	50	24	18.78	18.72	18.82				
20	QPSK	50	24	18.72	18.83	18.87				
20	QPSK	100	0	18.80	18.71	18.86				
20	16QAM	1	0	18.71	18.65	18.69				
20	16QAM	1	49	18.56	18.54	18.59				
20	16QAM	1	99	18.69	18.57	18.78				
20	16QAM	50	0	18.65	18.67	18.77				
20	16QAM	50	24	18.38	18.65	18.52				
20	16QAM	50	50	18.51	18.43	18.58				
20	16QAM	100	0	18.61	18.54	18.70				
20	16QAM	1	0	18.62	18.61	18.72				
20	16QAM	1	49	18.61	18.69	18.68				
20	16QAM	1	99	18.30	18.18	18.29				
20	16QAM	50	0	18.44	18.19	18.46				
20	16QAM	50	24	18.38	18.65	18.52				
20	16QAM	50	50	18.50	18.52	18.57				
20	16QAM	100	0	18.64	18.62	18.68				
Channel										
Frequency (MHz)				37775	37925	38075				
15	QPSK	1	0	18.73	18.67	18.72	20	0		
15	QPSK	1	97	18.56	18.65	18.80				
15	QPSK	1	74	18.76	18.53	18.81				
15	QPSK	36	0	18.71	18.65	18.75				
15	QPSK	36	20	18.76	18.69	18.74				
15	QPSK	36	39	18.67	18.64	18.62				
15	QPSK	75	0	18.79	18.65	18.87				
15	16QAM	1	0	18.72	18.58	18.62				
15	16QAM	1	37	18.59	18.50	18.55				
15	16QAM	1	74	18.69	18.49	18.77				
15	16QAM	36	0	18.66	18.66	18.69				
15	16QAM	36	20	18.29	18.50	18.41				
15	16QAM	36	39	18.51	18.43	18.50				
15	16QAM	75	0	18.59	18.55	18.70				
15	16QAM	1	0	18.62	18.51	18.72				
15	16QAM	1	37	18.57	18.50	18.56				
15	16QAM	1	74	18.20	18.12	18.24				
15	16QAM	36	0	18.37	18.11	18.47				
15	16QAM	36	20	18.38	18.45	18.53				
15	16QAM	36	39	18.40	18.49	18.54				
15	16QAM	75	0	18.56	18.48	18.59				
Channel										
Frequency (MHz)				37700	37850	38000				
10	QPSK	1	0	18.71	18.65	18.78	20	0		
10	QPSK	1	25	18.54	18.50	18.84				
10	QPSK	1	49	18.72	18.62	18.84				
10	QPSK	25	0	18.71	18.69	18.78				
10	QPSK	25	12	18.69	18.68	18.81				
10	QPSK	25	25	18.73	18.65	18.80				
10	QPSK	50	0	18.75	18.64	18.76				
10	16QAM	1	0	18.65	18.55	18.69				
10	16QAM	1	25	18.53	18.54	18.50				
10	16QAM	1	49	18.65	18.55	18.75				
10	16QAM	25	0	18.62	18.59	18.72				
10	16QAM	25	12	18.69	18.66	18.73				
10	16QAM	25	25	18.42	18.34	18.52				
10	16QAM	50	0	18.55	18.48	18.66				
10	16QAM	1	0	18.60	18.59	18.72				
10	16QAM	1	25	18.51	18.41	18.59				
10	16QAM	1	49	18.28	18.11	18.20				
10	16QAM	25	0	18.41	18.14	18.36				
10	16QAM	25	12	18.30	18.45	18.53				
10	16QAM	25	25	18.43	18.48	18.58				
10	16QAM	50	0	18.60	18.47	18.60				

Band 41 (2.6G Band)-class 3											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Frac)	Power Middle Ch. (Frac)	Power High Ch. (Frac)	Power High Ch. (Frac)	Time-up limit (dBm)	MPR (dB)		
Channel											
Frequency (MHz)				39750	40185	40620	41055	41490			
20	QPSK	1	0	18.55	18.82	18.84	18.98	19.02	20	0	
20	QPSK	1	99	18.52	18.92	18.90	19.05	19.04			
20	QPSK	50	0	18.48	18.70	18.68	18.83	18.89			
20	QPSK	50	24	18.51	18.81	18.67	18.95	18.86			
20	QPSK	50	24	18.52	18.81	18.77	18.86	18.92			
20	QPSK	100	0	18.51	18.79	18.65	18.92	18.88			
20	16QAM	1	0	18.23	18.56	18.58	18.67	18.67			
20	16QAM	1	49	18.26	18.54	18.50	18.63	18.63			
20	16QAM	1	99	18.31	18.58	18.57	18.76	18.71			
20	16QAM	50	0	18.22	18.48	18.45	18.63	18.60			
20	16QAM	50	24	18.34	18.61	18.47	18.71	18.61			
20	16QAM	50	50	18.25	18.60	18.51	18.73	18.72			
20	16QAM	100	0	18.29	18.59	18.43	18.70	18.66			
20	16QAM	1	0	18.07	18.16	18.00	18.32	18.27			
20	16QAM	1	49	18.08	18.20	18.11	18.28	18.30			
20	16QAM	1	99	18.19	18.28	18.24	18.38	18.39			
20	16QAM	50	0	18.22	18.48	18.44	18.59	18.61			
20	16QAM	50	24	18.34	18.61	18.47	18.71	18.61			
20	16QAM	50	50	18.29	18.58	18.53	18.68	18.70			
20	16QAM	100	0	18.31	18.59	18.40	18.64	18.61			
Channel											
Frequency (MHz)				39675	39825	39975	40125	40275			
15	QPSK	1	0	18.56	18.74	18.80	18.99	18.99	20	0	
15	QPSK	1	97	18.49	18.72	18.67	18.87	18.91			
15	QPSK	1	74	18.46	18.63	18.63	19.03	19.04			
15	QPSK	36	0	18.40	18.60	18.66	18.74	18.67			
15	QPSK	36	20	18.51	18.80	18.64	18.90	18.78			
15	QPSK	36	39	18.49	18.71	18.78	18.94	18.86			
15	QPSK	75	0	18.51	18.77	18.68	18.82	18.86			
15	16QAM	1	0	18.13	18.51	18.54	18.65	18.63			
15	16QAM	1	37	18.28	18.40	18.31	18.45	18.45			
15	16QAM	1	74	18.24	18.52	18.57	18.77	18.71			
15	16QAM	36	0	18.15	18.45	18.40	18.64	18.60			
15	16QAM	36	20	18.29	18.50	18.41	18.65	18.58			
15	16QAM	36	39	18.16	18.61	18.46	18.63	18.73			
15	16QAM	75	0	18.28	18.57	18.37	18.70	18.57			
15	16QAM	1	0	18.07	18.13	18.12	18.27	18.17			
15	16QAM	1	37	18.05	18.13	18.06	18.25	18.27			
15	16QAM	1	74	18.12	18.28	18.23	18.37	18.33			
15	16QAM	36	0	18.15	18.39	18.40	18.56	18.51			
15	16QAM	36	20	18.27	18.48	18.47	18.70	18.70			
15	16QAM	36	39	18.30	18.57	18.46	18.68	18.71			
15	16QAM	75	0	18.26	18.56	18.41	18.60	18.52			
Channel											
Frequency (MHz)				39600	39750	39900	40050	40200			
10	QPSK	1	0	18.45	18.78	18.77	18.99	18.99	20	0	
10	QPSK	1	25	18.48	18.74	18.72	18.88	18.84			
10	QPSK	1	49	18.53	18.84	18.88	18.95	18.97			
10	QPSK	25	0	18.45	18.64	18.58	18.83	18.83			
10	QPSK	25	12	18.50	18.75	18.61	18.89	18.86			
10	QPSK	25	25	18.42	18.80	18.68	18.67	18.85			
10	QPSK	50	0	18.51	18.73	18.61	18.82	18.87			
10	16QAM	1	0	18.16	18.48	18.53	18.68	18.57			
10	16QAM	1	25	18.29	18.46	18.43	18.59	18.60			
10	16QAM	1	49	18.23	18.53	18.47	18.76	18.63			
10	16QAM	25	0	18.18	18.42	18.37	18.57	18.51			
10	16QAM	25	12	18.26	18.57	18.36	18.68	18.67			
10	16QAM	25	25	18.22							



DS13 Sim-Tx for Body-worn for LAT

GSM850 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	526	189	251		526	189	251	
	824.2	836.4	848.6		824.2	836.4	848.6	
GSM 1 Tx slot	32.11	32.04	31.98	33.50	23.11	23.04	22.98	24.50
GPRS 1 Tx slot	32.02	31.95	31.87	33.50	23.02	22.95	22.87	24.50
GPRS 2 Tx slots	23.76	23.98	29.81	30.90	23.76	23.98	23.81	24.90
GPRS 3 Tx slots	28.41	28.50	28.05	29.40	24.15	24.24	23.79	25.14
GPRS 4 Tx slots	28.28	26.21	25.92	27.90	23.28	23.21	22.92	24.90
EDGE 1 Tx slot	24.78	24.68	24.79	24.90	15.78	15.68	15.79	15.90
EDGE 2 Tx slots	22.95	22.92	22.98	22.80	16.95	16.92	16.98	17.40
EDGE 3 Tx slots	21.00	20.89	21.04	21.40	16.74	16.63	16.78	17.14
EDGE 4 Tx slots	19.06	18.88	19.10	19.40	16.06	15.88	16.10	16.40

GSM1900 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
	1850.2	1860	1909.8		1850.2	1860	1909.8	
GSM 1 Tx slot	27.04	27.45	27.25	27.80	18.04	18.45	18.25	18.80
GPRS 1 Tx slot	27.05	27.47	27.28	27.80	18.05	18.47	18.28	18.80
GPRS 2 Tx slots	23.02	24.25	23.80	24.80	17.02	18.25	17.80	18.80
GPRS 3 Tx slots	22.40	22.39	22.30	23.30	18.14	18.13	18.04	19.04
GPRS 4 Tx slots	20.21	20.24	19.95	21.80	17.21	17.24	16.95	19.80
EDGE 1 Tx slot	25.10	25.08	25.70	26.50	16.10	16.08	16.70	17.50
EDGE 2 Tx slots	22.67	23.60	23.00	24.50	16.67	17.60	17.00	18.50
EDGE 3 Tx slots	20.86	21.40	20.80	22.50	16.80	17.14	16.54	18.24
EDGE 4 Tx slots	19.50	19.90	19.30	21.00	16.50	16.90	16.30	18.00

Band TX Channel Frequency (MHz)	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
	9262	8400	9538		1312	1413	1513		4132	4182	4233	
	8602	8600	8600		1537	1638	1738		4567	4607	4668	
	1852.4	1860	1907.8		1712.4	1732.6	1752.8		826.4	836.4	846.8	
3GPP Rel 99	AMR 12.2Kbps	14.51	14.47	14.21	15.40	15.88	16.00	16.90	21.38	21.47	21.48	22.50
3GPP Rel 99	RMTC 12.2Kbps	14.55	14.50	14.22	15.40	15.90	16.03	16.90	21.40	21.52	21.50	22.50
3GPP Rel 6	HSDPA Subtest-1	13.53	13.50	13.23	14.40	14.93	15.08	14.91	19.45	20.54	20.60	21.50
3GPP Rel 6	HSDPA Subtest-2	13.57	13.51	13.24	14.40	14.84	15.08	14.83	19.45	20.55	20.50	21.50
3GPP Rel 6	HSDPA Subtest-3	13.03	12.95	12.80	13.90	14.40	14.53	14.42	19.40	19.93	20.01	20.01
3GPP Rel 6	HSDPA Subtest-4	13.06	13.01	12.86	13.90	14.42	14.48	14.33	19.96	20.03	20.08	21.00
3GPP Rel 6	DC-HSDPA Subtest-1	13.55	13.52	13.34	14.40	14.98	15.12	14.90	20.52	20.61	20.74	21.50
3GPP Rel 6	DC-HSDPA Subtest-2	13.62	13.58	13.28	14.40	14.88	15.08	14.80	20.50	20.59	20.62	21.50
3GPP Rel 6	DC-HSDPA Subtest-3	12.98	12.93	12.78	13.90	14.46	14.57	14.41	19.40	20.05	20.14	20.20
3GPP Rel 6	DC-HSDPA Subtest-4	12.95	12.81	12.89	13.90	14.44	14.51	14.28	20.12	20.15	20.18	21.00
3GPP Rel 6	HSUPA Subtest-1	13.59	13.56	13.52	14.40	14.96	15.15	14.92	20.48	20.51	20.68	21.50
3GPP Rel 6	HSUPA Subtest-2	11.57	11.52	11.48	12.40	12.92	13.13	12.88	13.90	18.54	18.42	18.53
3GPP Rel 6	HSUPA Subtest-3	12.62	12.66	12.61	13.40	13.95	14.08	13.93	14.90	19.42	19.48	19.44
3GPP Rel 6	HSUPA Subtest-4	11.56	11.51	11.54	12.40	12.96	13.16	12.90	13.90	18.51	18.50	18.48
3GPP Rel 6	HSUPA Subtest-5	13.57	13.59	13.52	14.40	14.92	15.11	14.94	20.55	20.56	20.52	21.50

Band TX Channel Frequency (MHz)	CDMA BC0			Tune-up Limit (dBm)	CDMA BC1			Tune-up Limit (dBm)	CDMA BC10			Tune-up Limit (dBm)
	1013	384	777		25	600	1175		476	580	664	
	824.7	836.52	848.31		1851.25	1860	1908.75		817.9	820.5	823.1	
RC1 S055	20.84	20.88	20.76	22.00	15.28	15.25	15.07	16.40	21.53	21.53	21.48	22.70
RC3 S055	20.91	20.94	20.76	22.00	15.27	15.24	15.09	16.40	21.55	21.56	21.51	22.70
RC3 S032 (F-SCH)	20.81	20.86	20.73	22.00	15.24	15.23	15.08	16.40	21.54	21.55	21.50	22.70
RC3 S032 (H-SCH)	20.70	20.80	20.63	22.00	15.16	15.13	14.98	16.40	21.48	21.37	21.42	22.70
RTAP 150.8Kbps	20.50	20.55	20.45	22.00	14.93	14.84	14.73	16.40	21.40	21.42	21.38	22.70
RTAP 406.6Kbps	20.48	20.59	20.54	22.00	15.03	14.98	14.86	16.40	21.37	21.36	21.20	22.70



Band 2 (1900MHz Band) Part 24E										
BW (MHz)	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	15.15	15.14	15.04				
20	QPSK	1	49	15.08	15.07	14.92	16.3	0		
20	QPSK	1	99	14.99	14.99	14.90				
20	QPSK	50	0	15.10	15.00	14.97				
20	QPSK	50	24	15.07	15.00	14.98	16.3	0		
20	QPSK	50	50	15.03	14.92	14.93				
20	QPSK	100	0	15.07	15.04	14.96				
20	16QAM	1	0	15.07	15.00	14.90				
20	16QAM	1	49	14.87	14.98	14.71	16.3	0		
20	16QAM	1	99	14.92	14.79	14.72				
20	16QAM	50	0	14.83	14.77	14.67				
20	16QAM	50	24	14.75	14.72	14.69	16.3	0		
20	16QAM	50	50	14.72	14.65	14.63				
20	16QAM	100	0	14.79	14.68	14.68				
20	64QAM	1	0	14.52	14.87	14.73				
20	64QAM	1	49	14.50	14.88	14.76	16.3	0		
20	64QAM	1	99	14.81	14.62	14.59				
20	64QAM	50	0	14.85	14.77	14.74				
20	64QAM	50	24	14.80	14.75	14.68	16.3	0		
20	64QAM	50	50	14.75	14.65	14.62				
20	64QAM	100	0	14.79	14.73	14.66				
Channel										
Frequency (MHz)										
15	QPSK	1	0	15.13	15.11	15.00				
15	QPSK	1	37	15.04	15.02	14.87	16.3	0		
15	QPSK	1	74	14.97	14.90	14.90				
15	QPSK	36	0	15.04	14.98	14.96				
15	QPSK	36	20	15.01	14.95	14.88	16.3	0		
15	QPSK	36	39	14.97	14.82	14.88				
15	QPSK	75	0	15.03	14.98	14.87				
15	16QAM	1	0	14.88	14.77	14.74				
15	16QAM	1	37	14.79	14.90	14.84	16.3	0		
15	16QAM	1	74	14.84	14.80	14.68				
15	16QAM	36	0	14.79	14.73	14.68				
15	16QAM	36	20	14.66	14.63	14.70	16.3	0		
15	16QAM	36	39	14.69	14.62	14.63				
15	16QAM	75	0	14.79	14.63	14.59				
15	64QAM	1	0	14.83	14.77	14.63				
15	64QAM	1	37	14.89	14.81	14.68	16.3	0		
15	64QAM	1	74	14.72	14.62	14.58				
15	64QAM	36	0	14.85	14.70	14.68				
15	64QAM	36	20	14.78	14.75	14.61	16.3	0		
15	64QAM	36	39	14.76	14.66	14.59				
15	64QAM	75	0	14.75	14.65	14.59				
Channel										
Frequency (MHz)										
10	QPSK	1	0	15.11	15.09	15.02				
10	QPSK	1	25	15.03	15.07	14.90	16.3	0		
10	QPSK	1	49	14.93	14.99	14.86				
10	QPSK	25	0	15.03	15.00	14.88				
10	QPSK	25	12	15.02	14.93	14.89	16.3	0		
10	QPSK	25	25	15.01	14.82	14.89				
10	QPSK	50	0	15.08	15.05	14.97				
10	16QAM	1	0	14.98	14.95	14.86				
10	16QAM	1	25	14.81	14.92	14.70	16.3	0		
10	16QAM	1	49	14.84	14.76	14.63				
10	16QAM	25	0	14.77	14.64	14.63				
10	16QAM	25	12	14.67	14.64	14.62	16.3	0		
10	16QAM	25	25	14.70	14.58	14.57				
10	16QAM	50	0	14.73	14.64	14.61				
10	64QAM	1	0	14.91	14.81	14.73				
10	64QAM	1	25	14.87	14.87	14.70	16.3	0		
10	64QAM	1	49	14.71	14.63	14.50				
10	64QAM	25	0	14.83	14.72	14.59				
10	64QAM	25	12	14.77	14.75	14.59	16.3	0		
10	64QAM	25	25	14.69	14.55	14.53				
10	64QAM	50	0	14.75	14.68	14.65				
Channel										
Frequency (MHz)										
5	QPSK	1	0	15.14	15.04	15.01				
5	QPSK	1	12	15.06	15.06	14.98	16.3	0		
5	QPSK	1	24	14.98	15.00	14.91				
5	QPSK	12	0	15.10	14.91	14.90				
5	QPSK	12	7	15.03	15.00	14.96	16.3	0		
5	QPSK	12	13	15.02	14.89	14.91				
5	QPSK	25	0	15.08	15.00	14.87				
5	16QAM	1	0	15.08	15.01	14.98				
5	16QAM	1	12	14.80	14.97	14.88	16.3	0		
5	16QAM	1	24	14.87	14.71	14.66				
5	16QAM	12	0	14.77	14.67	14.67				
5	16QAM	12	7	14.67	14.71	14.69	16.3	0		
5	16QAM	12	13	14.65	14.58	14.62				
5	16QAM	25	0	14.71	14.64	14.69				
5	64QAM	1	0	14.59	14.53	14.68				
5	64QAM	1	12	14.82	14.87	14.71	16.3	0		
5	64QAM	1	24	14.80	14.57	14.57				
5	64QAM	12	0	14.83	14.70	14.68				
5	64QAM	12	7	14.80	14.72	14.67	16.3	0		
5	64QAM	12	13	14.74	14.57	14.59				
5	64QAM	25	0	14.80	14.65	14.66				
Channel										
Frequency (MHz)										
3	QPSK	1	0	15.06	15.10	14.97				
3	QPSK	1	8	15.03	15.02	14.89	16.3	0		
3	QPSK	1	14	14.90	14.90	14.90				
3	QPSK	8	0	15.01	14.97	14.97				
3	QPSK	8	4	15.07	14.98	14.87	16.3	0		
3	QPSK	8	7	14.96	14.87	14.85				
3	QPSK	15	0	14.99	15.02	14.89				
3	16QAM	1	0	15.00	15.00	14.80				
3	16QAM	1	8	14.87	14.91	14.69	16.3	0		
3	16QAM	1	14	14.87	14.70	14.68				
3	16QAM	8	0	14.82	14.78	14.60				
3	16QAM	8	4	14.65	14.73	14.64	16.3	0		
3	16QAM	8	7	14.68	14.58	14.54				
3	16QAM	15	0	14.75	14.69	14.67				
3	64QAM	1	0	14.91	14.77	14.72				
3	64QAM	1	8	14.84	14.83	14.77	16.3	0		
3	64QAM	1	14	14.72	14.58	14.58				
3	64QAM	8	0	14.76	14.70	14.66				
3	64QAM	8	4	14.71	14.70	14.62	16.3	0		
3	64QAM	8	7	14.67	14.56	14.59				
3	64QAM	15	0	14.74	14.71	14.66				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	15.11	15.14	15.04				
1.4	QPSK	1	3	15.02	15.04	14.92	16.3	0		
1.4	QPSK	1	5	14.93	14.89	14.89				
1.4	QPSK	3	0	15.04	14.98	14.98				
1.4	QPSK	3	1	15.01	14.90	14.92				
1.4	QPSK	3	3	14.97	14.87	14.83	16.3	0		
1.4	QPSK	6	0	15.01	14.98	14.91				
1.4	16QAM	1	0	14.87	14.86	14.85				
1.4	16QAM	1	3	14.82	14.87	14.61	16.3	0		
1.4	16QAM	1	5	14.86	14.77	14.71				
1.4	16QAM	3	0	14.73	14.75	14.68				
1.4	16QAM	3	1	14.73	14.66	14.66				
1.4	16QAM	3	3	14.72	14.55	14.53	16.3	0		
1.4	16QAM	6	0	14.70	14.59	14.67				
1.4	64QAM	1	0	14.68	14.81	14.71				
1.4	64QAM	1	3	14.85	14.82	14.67	16.3	0		
1.4	64QAM	1	5	14.79	14.56	14.57				
1.4	64QAM	3	0	14.77	14.68	14.65				
1.4	64QAM	3	1	14.80	14.67	14.67				
1.4	64QAM	3	3	14.68	14.59	14.61	16.3	0		
1.4	64QAM	6	0	14.77	14.63	14.64				

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Band 7 (2600MHz Band) Part 27									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2050	2100	2150			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	14.07	14.25	14.34	15.5	0	
20	QPSK	1	49	14.14	14.31	14.42			
20	QPSK	1	99	14.22	14.43	14.64			
20	QPSK	50	0	14.23	14.42	14.54	15.5	0	
20	QPSK	50	24	14.33	14.50	14.81			
20	QPSK	50	50	14.35	14.53	14.83			
20	QPSK	100	0	14.32	14.47	14.59	15.5	0	
20	16QAM	1	0	14.04	14.15	14.30			
20	16QAM	1	49	14.10	14.28	14.37			
20	16QAM	1	99	14.20	14.39	14.49	15.5	0	
20	16QAM	50	0	13.93	14.13	14.20			
20	16QAM	50	24	14.00	14.20	14.26			
20	16QAM	50	50	14.05	14.23	14.34	15.5	0	
20	16QAM	100	0	13.97	14.18	14.21			
20	64QAM	1	0	13.76	13.99	14.09			
20	64QAM	1	49	13.95	14.21	14.23	15.5	0	
20	64QAM	1	99	14.07	14.26	14.37			
20	64QAM	50	0	13.94	14.06	14.14			
20	64QAM	50	24	13.96	14.12	14.17	15.5	0	
20	64QAM	50	50	13.97	14.18	14.29			
20	64QAM	100	0	13.94	14.12	14.13			
Channel				20625	21100	21575			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	13.97	14.16	14.27	15.5	0	
15	QPSK	1	37	14.15	14.30	14.34			
15	QPSK	1	74	14.19	14.42	14.63			
15	QPSK	36	0	14.13	14.39	14.47	15.5	0	
15	QPSK	36	20	14.29	14.43	14.59			
15	QPSK	36	39	14.29	14.43	14.59			
15	QPSK	75	0	14.28	14.43	14.59	15.5	0	
15	16QAM	1	0	13.99	14.13	14.26			
15	16QAM	1	37	14.11	14.26	14.32			
15	16QAM	1	74	14.14	14.31	14.46	15.5	0	
15	16QAM	36	0	13.94	14.08	14.12			
15	16QAM	36	20	14.01	14.19	14.25			
15	16QAM	36	39	13.98	14.19	14.29	15.5	0	
15	16QAM	75	0	13.95	14.08	14.21			
15	64QAM	1	0	13.71	13.96	14.08			
15	64QAM	1	37	13.91	14.18	14.19	15.5	0	
15	64QAM	1	74	14.03	14.23	14.28			
15	64QAM	36	0	13.74	13.98	14.07			
15	64QAM	36	20	13.94	14.04	14.10	15.5	0	
15	64QAM	36	39	13.93	14.16	14.22			
15	64QAM	75	0	13.88	14.03	14.06			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	14.00	14.17	14.31	15.5	0	
10	QPSK	1	25	14.06	14.29	14.35			
10	QPSK	1	49	14.21	14.38	14.59			
10	QPSK	25	0	14.18	14.43	14.54	15.5	0	
10	QPSK	25	12	14.26	14.42	14.59			
10	QPSK	25	25	14.32	14.49	14.59			
10	QPSK	50	0	14.33	14.47	14.50	15.5	0	
10	16QAM	1	0	14.03	14.06	14.22			
10	16QAM	1	25	14.06	14.25	14.37			
10	16QAM	1	49	14.14	14.30	14.41	15.5	0	
10	16QAM	25	0	13.83	14.06	14.14			
10	16QAM	25	12	13.82	14.12	14.19			
10	16QAM	25	25	14.03	14.17	14.31	15.5	0	
10	16QAM	50	0	13.89	14.16	14.12			
10	64QAM	1	0	13.70	14.00	14.06			
10	64QAM	1	25	13.93	14.18	14.24	15.5	0	
10	64QAM	1	49	14.01	14.20	14.31			
10	64QAM	25	0	13.84	14.02	14.13			
10	64QAM	25	12	13.98	14.03	14.09	15.5	0	
10	64QAM	25	25	13.92	14.13	14.22			
10	64QAM	50	0	13.86	14.06	14.08			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	14.05	14.23	14.25	15.5	0	
5	QPSK	1	12	14.15	14.29	14.39			
5	QPSK	1	24	14.20	14.38	14.60			
5	QPSK	12	0	14.20	14.32	14.44	15.5	0	
5	QPSK	12	7	14.24	14.46	14.62			
5	QPSK	12	13	14.32	14.49	14.62			
5	QPSK	25	0	14.31	14.44	14.52	15.5	0	
5	16QAM	1	0	13.95	14.16	14.26			
5	16QAM	1	12	14.10	14.27	14.34			
5	16QAM	1	24	14.18	14.31	14.39	15.5	0	
5	16QAM	12	0	13.90	14.14	14.15			
5	16QAM	12	7	14.01	14.13	14.27			
5	16QAM	12	13	14.05	14.16	14.28	15.5	0	
5	16QAM	25	0	13.88	14.17	14.13			
5	64QAM	1	0	13.66	13.90	14.03			
5	64QAM	1	12	13.85	14.19	14.20	15.5	0	
5	64QAM	1	24	14.01	14.23	14.30			
5	64QAM	12	0	13.82	14.06	14.04			
5	64QAM	12	7	13.89	14.10	14.11	15.5	0	
5	64QAM	12	13	13.87	14.09	14.20			
5	64QAM	25	0	13.86	14.02	14.07			

Band 13(700MHz Band) Part 27F									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23205	23255				
Frequency (MHz)				782					
10	QPSK	1	0	20.61			22.2	0	
10	QPSK	1	25	20.80					
10	QPSK	1	49	20.93					
10	QPSK	25	0	20.83			22.2	0	
10	QPSK	25	12	20.85					
10	QPSK	25	25	20.91					
10	QPSK	50	0	20.75			22.2	0	
10	16QAM	1	0	20.77					
10	16QAM	1	25	20.82					
10	16QAM	1	49	20.81			22	0.2	
10	16QAM	25	0	20.61					
10	16QAM	25	12	20.70					
10	16QAM	25	25	20.78			21	1.2	
10	16QAM	50	0	20.70					
10	64QAM	1	0	20.77					
10	64QAM	1	25	20.80			22	0.2	
10	64QAM	1	49	20.84					
10	64QAM	25	0	19.74					
10	64QAM	25	12	19.72			21	1.2	
10	64QAM	25	25	19.71					
10	64QAM	50	0	19.83					
Channel				23205	23230	23255			
Frequency (MHz)				779.5	782	784.5			
5	QPSK	1	0	20.77	20.76	20.71	22.2	0	
5	QPSK	1	12	20.88	20.82	20.89			
5	QPSK	1	24	20.88	20.77	20.80			
5	QPSK	12	0	20.70	20.84	20.78	22.2	0	
5	QPSK	12	7	20.87	20.85	20.89			
5	QPSK	12	13	20.88	20.91	20.90			
5	QPSK	25	0	20.84	20.85	20.86	22.2	0	
5	16QAM	1	0	20.64	20.90	20.61			
5	16QAM	1	12	20.55	20.75	20.90			
5	16QAM	1	24	20.81	20.60	20.79	22	0.2	
5	16QAM	12	0	20.66	20.63	20.65			
5	16QAM	12	7	20.78	20.65	20.69			
5	16QAM	12	13	20.72	20.70	20.70	22	0.2	
5	16QAM	25	0	20.59	20.69	20.81			
5	64QAM	1	0	20.46	20.46	20.88			
5	64QAM	1	12	20.57	20.62	20.84	22	0.2	
5	64QAM	1	24	20.79	20.48	20.89			
5	64QAM	12	0	19.56	19.76	19.67			
5	64QAM	12	7	20.14	19.68	19.72	21	1.2	
5	64QAM	12	13	19.74	19.86	19.75			
5	64QAM	25	0	19.75	19.63	19.70			

Band 14 (700MHz Band)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23305	23330				
Frequency (MHz)				793					
10	QPSK	1	0	20.39			21.5	0	
10	QPSK	1	25	20.31					
10	QPSK	1	49	20.40					
10	QPSK	25	0	20.24			21.5	0	
10	QPSK	25	12	20.21					
10	QPSK	25	25	20.25					
10	QPSK	50	0	20.15			21.5	0	
10	16QAM	1	0	20.39					
10	16QAM	1	25	20.24					
10	16QAM	1	49	20.34			21.5	0	
10	16QAM	25	0	20.22					
10	16QAM	25	12	20.32					
10									



Band 25 (1900MHz Band) Part 24E										
BW (MHz)	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	15.21	15.11	15.02	16.3	0		
20	QPSK	1	49	15.18	15.13	14.90				
20	QPSK	1	99	15.08	14.99	14.85				
20	QPSK	50	0	15.19	15.09	14.99				
20	QPSK	50	24	15.07	15.03	14.95				
20	QPSK	50	50	15.08	15.00	14.90				
20	QPSK	100	0	15.13	15.01	14.96				
20	16QAM	1	0	15.07	14.91	14.76				
20	16QAM	1	49	14.89	14.91	14.68				
20	16QAM	1	99	14.76	14.75	14.68				
20	16QAM	50	0	14.85	14.76	14.94				
20	16QAM	50	24	14.83	14.72	14.92				
20	16QAM	50	50	14.76	14.70	14.60				
20	16QAM	100	0	14.81	14.70	14.63				
20	64QAM	1	0	14.91	14.76	14.56				
20	64QAM	1	49	14.88	14.77	14.68				
20	64QAM	1	99	14.69	14.63	14.52				
20	64QAM	50	0	14.90	14.75	14.63				
20	64QAM	50	24	14.86	14.74	14.62				
20	64QAM	50	50	14.77	14.71	14.63				
20	64QAM	100	0	14.82	14.71	14.62				
Channel										
Frequency (MHz)										
15	QPSK	1	0	15.17	15.09	14.92	16.3	0		
15	QPSK	1	37	15.11	15.09	14.99				
15	QPSK	1	74	14.98	14.99	14.93				
15	QPSK	36	0	15.19	15.06	14.88				
15	QPSK	36	20	15.18	15.01	14.89				
15	QPSK	36	39	15.03	14.99	14.88				
15	QPSK	75	0	15.03	15.01	14.95				
15	16QAM	1	0	14.89	14.88	14.77				
15	16QAM	1	37	14.88	14.92	14.66				
15	16QAM	1	74	14.71	14.66	14.58				
15	16QAM	36	0	14.79	14.89	14.55				
15	16QAM	36	20	14.75	14.68	14.54				
15	16QAM	36	39	14.67	14.62	14.61				
15	16QAM	75	0	14.80	14.63	14.54				
15	64QAM	1	0	14.85	14.87	14.46				
15	64QAM	1	37	14.82	14.75	14.62				
15	64QAM	1	74	14.66	14.60	14.50				
15	64QAM	36	0	14.83	14.89	14.53				
15	64QAM	36	20	14.76	14.70	14.62				
15	64QAM	36	39	14.77	14.62	14.59				
15	64QAM	75	0	14.81	14.69	14.64				
Channel										
Frequency (MHz)										
10	QPSK	1	0	15.17	15.11	14.97	16.3	0		
10	QPSK	1	25	15.17	15.11	14.88				
10	QPSK	1	49	15.03	15.00	14.85				
10	QPSK	25	0	15.13	15.10	14.99				
10	QPSK	25	12	15.12	15.03	14.85				
10	QPSK	25	25	15.02	14.94	14.90				
10	QPSK	50	0	15.03	15.02	14.92				
10	16QAM	1	0	15.01	14.94	14.72				
10	16QAM	1	25	14.89	14.89	14.69				
10	16QAM	1	49	14.74	14.68	14.65				
10	16QAM	25	0	14.85	14.79	14.62				
10	16QAM	25	12	14.79	14.84	14.63				
10	16QAM	25	25	14.69	14.71	14.52				
10	16QAM	50	0	14.80	14.63	14.63				
10	64QAM	1	0	14.85	14.72	14.56				
10	64QAM	1	25	14.80	14.73	14.66				
10	64QAM	1	49	14.80	14.58	14.47				
10	64QAM	25	0	14.80	14.88	14.59				
10	64QAM	25	12	14.83	14.71	14.58				
10	64QAM	25	25	14.71	14.63	14.56				
10	64QAM	50	0	14.81	14.67	14.56				
Channel										
Frequency (MHz)										
5	QPSK	1	0	15.17	15.06	14.97	16.3	0		
5	QPSK	1	12	15.16	15.04	14.94				
5	QPSK	1	24	15.07	14.95	14.85				
5	QPSK	12	0	15.09	15.08	14.91				
5	QPSK	12	7	15.07	14.94	14.89				
5	QPSK	12	13	15.05	14.94	14.81				
5	QPSK	25	0	15.06	14.95	14.89				
5	16QAM	1	0	15.09	14.91	14.71				
5	16QAM	1	12	14.79	14.84	14.64				
5	16QAM	1	24	14.66	14.67	14.60				
5	16QAM	12	0	14.77	14.75	14.61				
5	16QAM	12	7	14.81	14.73	14.55				
5	16QAM	12	13	14.67	14.67	14.59				
5	16QAM	25	0	14.75	14.81	14.59				
5	64QAM	1	0	14.87	14.77	14.55				
5	64QAM	1	12	14.79	14.71	14.58				
5	64QAM	1	24	14.62	14.53	14.50				
5	64QAM	12	0	14.81	14.70	14.53				
5	64QAM	12	7	14.85	14.73	14.52				
5	64QAM	12	13	14.74	14.68	14.58				
5	64QAM	25	0	14.80	14.65	14.63				
Channel										
Frequency (MHz)										
3	QPSK	1	0	15.12	15.05	15.00	16.3	0		
3	QPSK	1	8	15.16	15.13	14.85				
3	QPSK	1	14	15.00	14.98	14.81				
3	QPSK	8	0	15.13	15.08	14.98				
3	QPSK	8	4	15.07	14.97	14.91				
3	QPSK	8	7	15.00	14.95	14.85				
3	QPSK	15	0	15.11	14.95	14.88				
3	16QAM	1	0	15.08	14.92	14.72				
3	16QAM	1	8	14.85	14.85	14.68				
3	16QAM	1	14	14.77	14.73	14.66				
3	16QAM	8	0	14.83	14.76	14.55				
3	16QAM	8	4	14.76	14.66	14.57				
3	16QAM	8	7	14.70	14.63	14.59				
3	16QAM	15	0	14.74	14.62	14.59				
3	64QAM	1	0	14.83	14.68	14.51				
3	64QAM	1	8	14.80	14.72	14.61				
3	64QAM	1	14	14.83	14.56	14.47				
3	64QAM	8	0	14.90	14.71	14.60				
3	64QAM	8	4	14.87	14.71	14.53				
3	64QAM	8	7	14.78	14.61	14.64				
3	64QAM	15	0	14.76	14.64	14.52				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	15.11	15.03	15.01	16.3	0		
1.4	QPSK	1	3	15.13	15.07	14.91				
1.4	QPSK	1	5	15.00	14.99	14.77				
1.4	QPSK	3	0	15.12	15.01	14.96				
1.4	QPSK	3	1	15.15	14.93	14.96				
1.4	QPSK	3	3	14.98	14.97	14.82				
1.4	QPSK	6	0	15.14	15.02	14.90				
1.4	16QAM	1	0	15.05	14.96	14.75				
1.4	16QAM	1	3	14.90	14.89	14.69				
1.4	16QAM	1	5	14.73	14.65	14.64				
1.4	16QAM	3	0	14.75	14.77	14.65				
1.4	16QAM	3	1	14.75	14.72	14.59				
1.4	16QAM	3	3	14.71	14.62	14.54				
1.4	16QAM	6	0	14.81	14.71	14.64				
1.4	64QAM	1	0	14.89	14.74	14.56				
1.4	64QAM	1	3	14.80	14.70	14.69				
1.4	64QAM	1	5	14.59	14.57	14.48				
1.4	64QAM	3	0	14.84	14.76	14.58				
1.4	64QAM	3	1	14.87	14.75	14.52				
1.4	64QAM	3	3	14.76	14.65	14.55				
1.4	64QAM	6	0	14.76	14.68	14.63				

Band 26 for FCC (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)										
15	QPSK	1	0	20.60	20.30	20.23	21.6	0		
15	QPSK	1	37	20.33	20.36	20.35				
15	QPSK	1	74	20.30	20.28	20.14				
15	QPSK	36	0	20.40	20.20	20.25				
15	QPSK	36	20	20.23	20.19	20.20				
15	QPSK	36	39	20.23	20.23	20.31				
15	QPSK	75	0	20.30	20.27	20.15				
15	16QAM	1	0	20.38	20.01	20.35				
15	16QAM	1	37	20.10	20.07	20.21				
15	16QAM	1	74	20.38	20.27	20.31				
15	16QAM	36	0	20.19	20.16	20.28				
15	16QAM	36	20	20.32	20.18	20.17				
15	16QAM	36	39	20.27	20.23	20.27				
15	16QAM	75	0	20.29	20.22	20.24				
15	64QAM	1	0	20.18	20.18	20.36				
15	64QAM	1	37	20.21	20.38	20.38				
15	64QAM	1	74	20.38	20.29	20.18				
15	64QAM	36	0	19.66	19.71	19.64				
15	64QAM	36	20	19.55	19.67	19.65				
15	64QAM	36	39	19.69	19.67	19.72				
15	64QAM	75	0	19.74	19.55	19.61				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.55	20.29	20.22	21.6	0		
10	QPSK	1	25	20.31	20.35	20.26				
10	QPSK	1	49	20.28	20.21	20.13				
10	QPSK	25	0	20.28	20.19	20.22				
10	QPSK	25	12	20.22	20.19	20.10				
10	QPSK	25	25	20.23	20.25	20.31				
10	QPSK	50	0	20.26	20.25	20.10				
10	16QAM	1	0	20.31	20.26	20.26				
10	16QAM	1	25	20.04	20.06	20.30				
10	16QAM	1	49	20.29	20.25	20.11				
10	16QAM	25	0							



Band 66										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				132072	132072	132072				
Frequency (MHz)				1720	1745	1770				
20	QPSK	1	0	16.58	16.68	16.54				
20	QPSK	1	49	16.44	16.61	16.37	17.7	0		
20	QPSK	1	99	16.41	16.52	16.36				
20	QPSK	50	0	16.13	16.23	16.07				
20	QPSK	50	24	16.15	16.36	16.15	17.7	0		
20	QPSK	50	50	16.16	16.28	16.06				
20	QPSK	100	0	16.18	16.22	16.04				
20	16QAM	1	0	16.24	16.32	16.17				
20	16QAM	1	49	16.18	16.35	16.12	17.7	0		
20	16QAM	1	99	16.14	16.28	16.10				
20	16QAM	50	0	16.13	16.26	16.10				
20	16QAM	50	24	16.22	16.25	16.07	17.7	0		
20	16QAM	50	50	16.13	16.28	16.09				
20	16QAM	100	0	16.17	16.22	16.05				
20	64QAM	1	0	16.03	16.13	16.00				
20	64QAM	1	49	16.11	16.14	16.00	17.7	0		
20	64QAM	1	99	16.04	16.18	16.00				
20	64QAM	50	0	16.13	16.27	16.06				
20	64QAM	50	24	16.20	16.27	16.06	17.7	0		
20	64QAM	50	50	16.15	16.31	16.14				
20	64QAM	100	0	16.19	16.22	16.07				
Channel				132047	132322	132597				
Frequency (MHz)				1717.5	1745	1772.5				
15	QPSK	1	0	16.49	16.64	16.44				
15	QPSK	1	37	16.43	16.52	16.35	17.7	0		
15	QPSK	1	74	16.31	16.46	16.33				
15	QPSK	36	0	16.04	16.14	15.98				
15	QPSK	36	20	16.13	16.30	16.10	17.7	0		
15	QPSK	36	39	16.10	16.25	15.96				
15	QPSK	75	0	16.15	16.21	15.99				
15	16QAM	1	0	16.24	16.31	16.07				
15	16QAM	1	37	16.15	16.29	16.07	17.7	0		
15	16QAM	1	74	16.06	16.22	16.06				
15	16QAM	36	0	16.12	16.20	16.06				
15	16QAM	36	20	16.18	16.18	16.06	17.7	0		
15	16QAM	36	39	16.14	16.28	16.10				
15	16QAM	75	0	16.15	16.14	16.06				
15	64QAM	1	0	15.97	16.08	15.96				
15	64QAM	1	37	16.07	16.10	15.96	17.7	0		
15	64QAM	1	74	15.96	16.16	15.95				
15	64QAM	36	0	16.14	16.21	16.03				
15	64QAM	36	20	16.13	16.18	16.07	17.7	0		
15	64QAM	36	39	16.12	16.23	16.13				
15	64QAM	75	0	16.20	16.15	16.03				
Channel				132022	132322	132627				
Frequency (MHz)				1715	1745	1775				
10	QPSK	1	0	16.59	16.60	16.44				
10	QPSK	1	25	16.36	16.56	16.33	17.7	0		
10	QPSK	1	49	16.31	16.51	16.32				
10	QPSK	25	0	16.11	16.15	16.01				
10	QPSK	25	12	16.05	16.31	16.12	17.7	0		
10	QPSK	25	25	16.17	16.29	16.04				
10	QPSK	50	0	16.10	16.15	15.98				
10	16QAM	1	0	16.16	16.22	16.13				
10	16QAM	1	25	16.19	16.28	16.12	17.7	0		
10	16QAM	1	49	16.06	16.25	16.06				
10	16QAM	25	0	16.12	16.17	16.07				
10	16QAM	25	12	16.16	16.26	16.06	17.7	0		
10	16QAM	25	25	16.08	16.25	16.02				
10	16QAM	50	0	16.16	16.22	16.05				
10	64QAM	1	0	16.04	16.03	15.94				
10	64QAM	1	25	16.02	16.10	15.93	17.7	0		
10	64QAM	1	49	16.04	16.15	16.00				
10	64QAM	25	0	16.08	16.20	16.06				
10	64QAM	25	12	16.17	16.25	16.00	17.7	0		
10	64QAM	25	25	16.09	16.22	16.13				
10	64QAM	50	0	16.09	16.16	15.99				
Channel				131997	132322	132647				
Frequency (MHz)				1712.5	1745	1777.5				
5	QPSK	1	0	16.52	16.61	16.55				
5	QPSK	1	12	16.36	16.56	16.32	17.7	0		
5	QPSK	1	24	16.37	16.48	16.30				
5	QPSK	12	0	16.06	16.19	16.02				
5	QPSK	12	7	16.10	16.29	16.10	17.7	0		
5	QPSK	12	13	16.17	16.23	16.06				
5	QPSK	25	0	16.13	16.18	16.05				
5	16QAM	1	0	16.21	16.33	16.08				
5	16QAM	1	12	16.15	16.30	16.05	17.7	0		
5	16QAM	1	24	16.05	16.20	16.01				
5	16QAM	12	0	16.11	16.16	16.08				
5	16QAM	12	7	16.15	16.15	15.99	17.7	0		
5	16QAM	12	13	16.06	16.24	16.08				
5	16QAM	25	0	16.07	16.12	16.04				
5	64QAM	1	0	15.97	16.06	15.96				
5	64QAM	1	12	16.08	16.09	15.97	17.7	0		
5	64QAM	1	24	15.99	16.11	16.01				
5	64QAM	12	0	16.10	16.21	16.00				
5	64QAM	12	7	16.20	16.24	16.02	17.7	0		
5	64QAM	12	13	16.07	16.28	16.06				
5	64QAM	25	0	16.15	16.19	16.04				
Channel				131987	132322	132657				
Frequency (MHz)				1711.5	1745	1778.5				
3	QPSK	1	0	16.48	16.65	16.49				
3	QPSK	1	8	16.38	16.55	16.33	17.7	0		
3	QPSK	1	14	16.39	16.48	16.33				
3	QPSK	8	0	16.06	16.16	16.02				
3	QPSK	8	4	16.05	16.34	16.11	17.7	0		
3	QPSK	8	7	16.06	16.19	16.03				
3	QPSK	15	0	16.18	16.21	16.03				
3	16QAM	1	0	16.25	16.27	16.17				
3	16QAM	1	8	16.14	16.27	16.04	17.7	0		
3	16QAM	1	14	16.11	16.22	16.09				
3	16QAM	8	0	16.07	16.16	16.05				
3	16QAM	8	4	16.20	16.26	15.99	17.7	0		
3	16QAM	8	7	16.10	16.22	16.10				
3	16QAM	15	0	16.09	16.21	16.05				
3	64QAM	1	0	16.04	16.08	15.92				
3	64QAM	1	8	16.06	16.11	15.93	17.7	0		
3	64QAM	1	14	16.00	16.15	15.96				
3	64QAM	8	0	16.12	16.28	16.01				
3	64QAM	8	4	16.19	16.24	16.03	17.7	0		
3	64QAM	8	7	16.14	16.22	16.10				
3	64QAM	15	0	16.11	16.23	16.07				
Channel				131979	132322	132685				
Frequency (MHz)				1710.7	1745	1779.3				
1.4	QPSK	1	0	16.52	16.62	16.46				
1.4	QPSK	1	3	16.41	16.52	16.38	17.7	0		
1.4	QPSK	1	5	16.41	16.47	16.31				
1.4	QPSK	3	0	16.06	16.17	16.00				
1.4	QPSK	3	1	16.11	16.36	16.09				
1.4	QPSK	3	3	16.15	16.18	16.07	17.7	0		
1.4	QPSK	6	0	16.10	16.18	16.05				
1.4	16QAM	1	0	16.22	16.24	16.17				
1.4	16QAM	1	3	16.13	16.31	16.07	17.7	0		
1.4	16QAM	1	5	16.05	16.25	16.11				
1.4	16QAM	3	0	16.13	16.19	16.04				
1.4	16QAM	3	1	16.15	16.17	16.01				
1.4	16QAM	3	3	16.11	16.19	16.04	17.7	0		
1.4	64QAM	1	0	16.07	16.12	15.99				
1.4	64QAM	1	0	15.96	16.13	16.00				



Band 38(only on channel required)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Frac)	Power Middle Ch. (Frac)	Power High Ch. (Frac)	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				37850	38000	38150				
20	QPSK	1	0	17.16	16.93	17.29				
20	QPSK	1	1	17.17	16.94	17.30				
20	QPSK	1	99	17.17	17.09	17.30				
20	QPSK	50	0	17.13	17.10	17.11				
20	QPSK	50	24	17.25	17.10	17.26				
20	QPSK	50	24	17.17	17.09	17.25				
20	QPSK	100	0	17.18	17.08	17.25				
20	16QAM	1	0	16.92	16.97	17.03				
20	16QAM	1	49	16.91	16.80	16.85				
20	16QAM	1	99	17.01	16.76	17.05				
20	16QAM	50	0	16.99	16.95	16.99				
20	16QAM	50	24	16.90	16.82	16.76				
20	16QAM	50	50	16.77	16.75	16.85				
20	16QAM	100	0	17.03	16.89	17.04				
20	16QAM	1	0	17.00	16.99	16.99				
20	16QAM	1	49	16.84	16.83	16.87				
20	16QAM	1	99	16.63	16.50	16.59				
20	16QAM	50	0	16.65	16.66	16.77				
20	16QAM	50	24	16.50	16.52	16.76				
20	16QAM	50	50	16.76	16.82	16.77				
20	16QAM	100	0	17.05	16.89	16.94				
Channel										
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	17.08	16.85	17.29				
15	QPSK	1	1	17.09	16.86	17.29				
15	QPSK	1	74	17.10	16.99	17.27				
15	QPSK	36	0	17.14	17.00	17.09				
15	QPSK	36	20	17.20	17.09	17.17				
15	QPSK	36	39	17.11	17.08	17.25				
15	QPSK	75	0	17.10	17.09	17.21				
15	16QAM	1	0	16.91	16.94	17.00				
15	16QAM	1	37	16.92	16.93	17.00				
15	16QAM	1	74	17.02	16.99	16.90				
15	16QAM	36	0	17.00	16.96	16.92				
15	16QAM	36	20	16.87	16.78	16.84				
15	16QAM	36	39	16.70	16.72	16.84				
15	16QAM	75	0	17.03	16.88	17.01				
15	16QAM	1	0	16.96	16.95	16.96				
15	16QAM	1	37	16.83	16.83	16.90				
15	16QAM	1	74	16.83	16.47	16.50				
15	16QAM	36	0	16.65	16.60	16.71				
15	16QAM	36	20	16.51	16.61	16.71				
15	16QAM	36	39	16.69	16.70	16.72				
15	16QAM	75	0	17.02	16.89	16.89				
Channel										
Frequency (MHz)				2977.5	2995	3012.5				
10	QPSK	1	0	17.09	16.90	17.19				
10	QPSK	1	25	17.10	17.02	17.20				
10	QPSK	1	49	17.11	17.08	17.29				
10	QPSK	25	0	17.08	17.09	17.01				
10	QPSK	25	12	17.23	17.07	17.27				
10	QPSK	25	25	17.02	17.01	17.25				
10	QPSK	50	0	17.13	16.99	17.16				
10	16QAM	1	0	16.84	16.90	17.01				
10	16QAM	1	25	16.82	16.80	16.79				
10	16QAM	1	49	16.95	16.70	16.85				
10	16QAM	25	0	16.94	16.85	16.90				
10	16QAM	25	12	17.16	16.86	16.94				
10	16QAM	25	25	16.92	16.86	16.83				
10	16QAM	50	0	16.94	16.87	16.86				
10	16QAM	1	0	16.99	16.92	16.92				
10	16QAM	1	25	16.77	16.86	16.87				
10	16QAM	1	49	16.61	16.50	16.51				
10	16QAM	25	0	16.61	16.61	16.76				
10	16QAM	25	12	16.85	16.80	16.80				
10	16QAM	25	25	16.78	16.82	16.77				
10	16QAM	50	0	17.05	16.89	16.89				

Band 41 (2.6G Band)-class 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Frac)	Power Middle Ch. (Frac)	Power High Ch. (Frac)	Power High Ch. (Frac)	Time-up limit (dBm)	MPR (dB)	
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
20	QPSK	1	0	16.90	16.75	17.20	17.29	17.02		
20	QPSK	1	1	16.96	16.76	17.29	17.39	17.27		
20	QPSK	1	99	17.00	17.39	17.36	17.41	17.33		
20	QPSK	50	0	16.87	17.14	17.08	17.25	16.97		
20	QPSK	50	24	16.94	17.16	17.04	17.30	17.31		
20	QPSK	50	24	16.92	17.29	17.28	17.39	17.27		
20	QPSK	100	0	16.87	17.16	17.07	17.30	17.27		
20	16QAM	1	0	16.84	16.80	16.90	17.08	17.15		
20	16QAM	1	49	16.82	16.76	16.89	17.09	17.00		
20	16QAM	1	99	16.98	17.22	16.89	17.05	17.06		
20	16QAM	50	0	16.86	16.94	16.81	17.07	17.15		
20	16QAM	50	24	16.70	16.96	16.83	17.08	17.10		
20	16QAM	50	50	16.63	16.91	16.90	17.15	17.16		
20	16QAM	100	0	16.77	16.92	16.81	17.13	17.09		
20	16QAM	1	0	16.31	16.99	16.81	16.81	16.86		
20	16QAM	1	49	16.39	16.94	16.84	16.75	16.75		
20	16QAM	1	99	16.39	16.78	16.63	16.63	16.62		
20	16QAM	50	0	16.63	16.62	16.79	16.85	17.06		
20	16QAM	50	24	16.74	16.96	16.83	17.03	17.03		
20	16QAM	50	50	16.70	17.01	16.85	17.11	17.08		
20	16QAM	100	0	16.72	16.90	16.82	16.76	17.02		
Channel										
Frequency (MHz)				2901.5	2943.3	2985.1	3027.8	3070.5		
15	QPSK	1	0	16.80	16.70	17.10	17.27	16.92		
15	QPSK	1	37	16.91	17.19	17.20	17.26	17.34		
15	QPSK	1	74	16.94	17.26	17.23	17.25	17.29		
15	QPSK	36	0	16.86	17.08	17.03	17.15	16.90		
15	QPSK	36	20	16.92	17.09	16.98	17.30	17.22		
15	QPSK	36	39	16.95	17.26	17.13	17.20	17.26		
15	QPSK	75	0	16.87	17.10	17.07	17.27	17.17		
15	16QAM	1	0	16.59	16.70	16.80	16.99	17.07		
15	16QAM	1	37	16.49	16.80	16.87	16.97	17.03		
15	16QAM	1	74	16.51	17.23	16.79	16.98	17.03		
15	16QAM	36	0	16.67	16.92	16.82	17.06	17.10		
15	16QAM	36	20	16.67	16.90	16.71	17.02	17.11		
15	16QAM	36	39	16.58	16.87	16.82	17.08	17.14		
15	16QAM	75	0	16.73	16.84	16.72	17.11	17.00		
15	16QAM	1	0	16.32	16.90	16.90	16.74	16.84		
15	16QAM	1	37	16.29	16.93	16.37	16.68	16.71		
15	16QAM	1	74	16.33	16.74	16.50	16.67	16.76		
15	16QAM	36	0	16.62	16.62	16.78	16.84	16.86		
15	16QAM	36	20	16.78	16.90	16.73	17.02	17.04		
15	16QAM	36	39	16.67	16.98	16.77	17.00	17.04		
15	16QAM	75	0	16.70	16.84	16.80	16.75	16.93		
Channel										
Frequency (MHz)				2901.5	2943.3	2985.1	3027.8	3070.5		
10	QPSK	1	0	16.88	16.71	17.13	17.20	17.01		
10	QPSK	1	25	16.91	17.16	17.22	17.32	17.20		
10	QPSK	1	49	17.01	17.21	17.23	17.32	17.30		
10	QPSK	25	0	16.88	17.06	17.01	17.23	16.96		
10	QPSK	25	12	16.95	17.12	17.00	17.28	17.27		
10	QPSK	25	25	16.84	17.26	17.06	17.20	17.26		
10	QPSK	50	0	16.80	17.15	16.99	17.29	17.02		
10	16QAM	1	0	16.63	16.76	16.89	17.07	17.16		
10	16QAM	1	25	16.65	16.71	16.80	17.06	17.04		
10	16QAM	1	49	16.58	17.12	16.81	16.96	17.05		
10	16QAM	25	0	16.62	16.93	16.71	17.04			



DSI3 Sim-Tx for Hotspot for LAT

GSM850 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	526	189	251		526	189	251	
	824.2	838.4	848.8		824.2	838.4	848.8	
GSM 1 Tx slot	32.11	32.04	31.98	33.50	23.11	23.04	22.98	24.50
GPRS 1 Tx slot	32.02	31.95	31.87	33.50	23.02	22.95	22.87	24.50
GPRS 2 Tx slots	23.76	23.98	29.81	30.90	23.76	23.98	23.81	24.90
GPRS 3 Tx slots	28.41	28.50	28.05	29.40	24.15	24.24	23.79	25.14
GPRS 4 Tx slots	28.28	26.21	25.92	27.90	23.28	23.21	22.92	24.90
EDGE 1 Tx slot	24.78	24.68	24.79	24.90	15.78	15.68	15.79	15.90
EDGE 2 Tx slots	22.95	22.92	22.98	22.90	16.95	16.92	16.98	17.40
EDGE 3 Tx slots	21.00	20.89	21.04	21.40	16.74	16.63	16.78	17.14
EDGE 4 Tx slots	19.06	18.88	19.10	19.40	16.06	15.88	16.10	16.40

GSM1900 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
	1850.2	1860	1909.8		1850.2	1860	1909.8	
GSM 1 Tx slot	27.04	27.45	27.25	27.80	18.04	18.45	18.25	18.80
GPRS 1 Tx slot	27.05	27.47	27.28	27.80	18.05	18.47	18.28	18.80
GPRS 2 Tx slots	23.02	24.25	23.80	24.80	17.02	18.25	17.80	18.80
GPRS 3 Tx slots	22.40	22.39	22.30	23.30	18.14	18.13	18.04	19.04
GPRS 4 Tx slots	20.21	20.24	19.95	21.80	17.21	17.24	16.95	19.80
EDGE 1 Tx slot	25.10	25.08	25.70	26.50	16.10	16.08	16.70	17.50
EDGE 2 Tx slots	22.87	23.60	23.00	24.50	16.87	17.60	17.00	18.50
EDGE 3 Tx slots	20.86	21.40	20.80	22.50	16.80	17.14	16.54	18.24
EDGE 4 Tx slots	19.50	19.90	19.30	21.00	16.50	16.90	16.30	18.00

Band TX Channel Frequency (MHz)	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
	9262	8400	9538		1312	1413	1513		4132	4182	4233	
	8602	8600	8600		1537	1638	1738		4567	4607	4648	
	1852.4	1860	1907.6		1712.4	1732.6	1752.8		826.4	836.4	846.8	
3GPP Rel 99	AMR 12.2Kbps	14.51	14.47	14.21	15.40	15.88	16.00	16.90	21.38	21.47	21.48	22.50
3GPP Rel 99	RMTC 12.2Kbps	14.55	14.50	14.22	15.40	15.90	16.03	16.90	21.40	21.52	21.50	22.50
3GPP Rel 6	HSDPA Subtest-1	13.53	13.50	13.23	14.40	14.93	15.08	14.91	19.45	20.54	20.60	21.50
3GPP Rel 6	HSDPA Subtest-2	13.57	13.51	13.24	14.40	14.84	15.08	14.83	19.45	20.55	20.50	21.50
3GPP Rel 6	HSDPA Subtest-3	13.03	12.95	12.80	13.90	14.40	14.53	14.42	19.40	19.93	20.01	21.00
3GPP Rel 6	HSDPA Subtest-4	13.06	13.01	12.86	13.90	14.42	14.48	14.33	19.98	20.03	20.08	21.00
3GPP Rel 6	DC-HSDPA Subtest-1	13.55	13.52	13.34	14.40	14.98	15.12	14.90	20.52	20.61	20.74	21.50
3GPP Rel 6	DC-HSDPA Subtest-2	13.62	13.58	13.28	14.40	14.88	15.08	14.80	20.50	20.59	20.62	21.50
3GPP Rel 6	DC-HSDPA Subtest-3	12.98	12.93	12.78	13.90	14.46	14.57	14.41	20.05	20.14	20.20	21.00
3GPP Rel 6	DC-HSDPA Subtest-4	12.95	12.81	12.89	13.90	14.44	14.51	14.28	20.12	20.15	20.18	21.00
3GPP Rel 6	HSUPA Subtest-1	13.59	13.56	13.52	14.40	14.96	15.15	14.92	20.48	20.51	20.68	21.50
3GPP Rel 6	HSUPA Subtest-2	11.57	11.52	11.48	12.40	12.92	13.13	12.88	13.90	18.54	18.42	18.53
3GPP Rel 6	HSUPA Subtest-3	12.82	12.66	12.61	13.40	13.95	14.08	13.93	14.90	19.42	19.48	19.44
3GPP Rel 6	HSUPA Subtest-4	11.58	11.51	11.54	12.40	12.96	13.16	12.90	13.90	18.51	18.50	18.48
3GPP Rel 6	HSUPA Subtest-5	13.57	13.59	13.52	14.40	14.92	15.11	14.94	20.55	20.56	20.52	21.50

Band TX Channel Frequency (MHz)	CDMA BC3			Tune-up Limit (dBm)	CDMA BC1			Tune-up Limit (dBm)	CDMA BC10			Tune-up Limit (dBm)
	1013	354	777		25	500	1175		476	580	884	
	824.7	838.52	848.31		1851.25	1890	1908.75		817.9	830.5	823.1	
RC1 S05S	20.84	20.88	20.76	22.00	15.26	15.25	15.07	16.40	21.53	21.53	21.48	22.70
RC3 S05S	20.91	20.84	20.76	22.00	15.27	15.24	15.09	16.40	21.55	21.56	21.51	22.70
RC3 S03S (F-SCH)	20.91	20.88	20.73	22.00	15.24	15.23	15.08	16.40	21.54	21.55	21.50	22.70
RC3 S03S (H-SCH)	20.70	20.80	20.63	22.00	15.18	15.13	14.98	16.40	21.48	21.37	21.42	22.70
RTAP 153.6Kbps	20.50	20.55	20.45	22.00	14.93	14.84	14.73	16.40	21.45	21.42	21.38	22.70
RETAP 40368Kts	20.48	20.59	20.54	22.00	15.03	14.88	14.96	16.40	21.37	21.36	21.20	22.70



Band 2 (1900MHz Band) Part 24E										
BW (MHz)	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	15.15	15.14	15.04				
20	QPSK	1	49	15.08	15.07	14.92	16.3	0		
20	QPSK	1	99	14.99	14.99	14.90				
20	QPSK	50	0	15.10	15.00	14.97				
20	QPSK	50	24	15.07	15.00	14.98	16.3	0		
20	QPSK	50	50	15.03	14.92	14.93				
20	QPSK	100	0	15.07	15.04	14.96				
20	16QAM	1	0	15.07	15.00	14.90				
20	16QAM	1	49	14.87	14.98	14.71	16.3	0		
20	16QAM	1	99	14.92	14.79	14.72				
20	16QAM	50	0	14.83	14.77	14.67				
20	16QAM	50	24	14.75	14.72	14.69	16.3	0		
20	16QAM	50	50	14.72	14.65	14.63				
20	16QAM	100	0	14.79	14.68	14.68				
20	64QAM	1	0	14.52	14.87	14.73				
20	64QAM	1	49	14.50	14.88	14.76	16.3	0		
20	64QAM	1	99	14.81	14.62	14.59				
20	64QAM	50	0	14.85	14.77	14.74				
20	64QAM	50	24	14.80	14.75	14.68	16.3	0		
20	64QAM	50	50	14.75	14.65	14.62				
20	64QAM	100	0	14.79	14.73	14.66				
Channel										
Frequency (MHz)										
15	QPSK	1	0	15.13	15.11	15.00				
15	QPSK	1	37	15.04	15.02	14.87	16.3	0		
15	QPSK	1	74	14.97	14.90	14.90				
15	QPSK	36	0	15.04	14.98	14.96				
15	QPSK	36	20	15.01	14.95	14.88	16.3	0		
15	QPSK	36	39	14.97	14.82	14.88				
15	QPSK	75	0	15.03	14.98	14.87				
15	16QAM	1	0	14.88	14.77	14.74				
15	16QAM	1	37	14.79	14.90	14.84	16.3	0		
15	16QAM	1	74	14.84	14.80	14.68				
15	16QAM	36	0	14.79	14.73	14.68				
15	16QAM	36	20	14.66	14.63	14.70	16.3	0		
15	16QAM	36	39	14.69	14.62	14.63				
15	16QAM	75	0	14.79	14.63	14.59				
15	64QAM	1	0	14.83	14.77	14.63				
15	64QAM	1	37	14.89	14.81	14.68	16.3	0		
15	64QAM	1	74	14.72	14.62	14.58				
15	64QAM	36	0	14.85	14.70	14.68				
15	64QAM	36	20	14.78	14.75	14.61	16.3	0		
15	64QAM	36	39	14.76	14.66	14.59				
15	64QAM	75	0	14.75	14.65	14.59				
Channel										
Frequency (MHz)										
10	QPSK	1	0	15.11	15.09	15.02				
10	QPSK	1	25	15.03	15.07	14.90	16.3	0		
10	QPSK	1	49	14.93	14.99	14.86				
10	QPSK	25	0	15.03	15.00	14.88				
10	QPSK	25	12	15.02	14.93	14.89	16.3	0		
10	QPSK	25	25	15.01	14.82	14.89				
10	QPSK	50	0	15.08	15.05	14.97				
10	16QAM	1	0	14.98	14.95	14.86				
10	16QAM	1	25	14.81	14.92	14.70	16.3	0		
10	16QAM	1	49	14.84	14.76	14.63				
10	16QAM	25	0	14.77	14.64	14.63				
10	16QAM	25	12	14.67	14.64	14.62	16.3	0		
10	16QAM	25	25	14.70	14.56	14.57				
10	16QAM	50	0	14.73	14.64	14.61				
10	64QAM	1	0	14.91	14.81	14.73				
10	64QAM	1	25	14.87	14.87	14.70	16.3	0		
10	64QAM	1	49	14.71	14.63	14.50				
10	64QAM	25	0	14.83	14.72	14.59				
10	64QAM	25	12	14.77	14.75	14.59	16.3	0		
10	64QAM	25	25	14.69	14.55	14.53				
10	64QAM	50	0	14.75	14.68	14.65				
Channel										
Frequency (MHz)										
5	QPSK	1	0	15.14	15.04	15.01				
5	QPSK	1	12	15.06	15.06	14.98	16.3	0		
5	QPSK	1	24	14.98	15.00	14.91				
5	QPSK	12	0	15.10	14.91	14.90				
5	QPSK	12	7	15.03	15.00	14.96	16.3	0		
5	QPSK	12	13	15.02	14.89	14.91				
5	QPSK	25	0	15.08	15.00	14.87				
5	16QAM	1	0	15.08	15.01	14.98				
5	16QAM	1	12	14.80	14.97	14.68	16.3	0		
5	16QAM	1	24	14.87	14.71	14.66				
5	16QAM	12	0	14.77	14.67	14.67				
5	16QAM	12	7	14.67	14.71	14.69	16.3	0		
5	16QAM	12	13	14.65	14.58	14.62				
5	16QAM	25	0	14.71	14.64	14.69				
5	64QAM	1	0	14.59	14.93	14.69				
5	64QAM	1	12	14.82	14.87	14.71	16.3	0		
5	64QAM	1	24	14.80	14.57	14.57				
5	64QAM	12	0	14.83	14.70	14.68				
5	64QAM	12	7	14.80	14.72	14.67	16.3	0		
5	64QAM	12	13	14.74	14.57	14.59				
5	64QAM	25	0	14.80	14.65	14.66				
Channel										
Frequency (MHz)										
3	QPSK	1	0	15.06	15.10	14.97				
3	QPSK	1	8	15.03	15.02	14.89	16.3	0		
3	QPSK	1	14	14.90	14.90	14.90				
3	QPSK	8	0	15.01	14.97	14.97				
3	QPSK	8	4	15.07	14.98	14.87	16.3	0		
3	QPSK	8	7	14.96	14.87	14.85				
3	QPSK	15	0	14.99	15.02	14.89				
3	16QAM	1	0	15.00	15.00	14.80				
3	16QAM	1	8	14.87	14.91	14.69	16.3	0		
3	16QAM	1	14	14.87	14.70	14.68				
3	16QAM	8	0	14.82	14.78	14.60				
3	16QAM	8	4	14.65	14.73	14.64	16.3	0		
3	16QAM	8	7	14.68	14.58	14.54				
3	16QAM	15	0	14.75	14.69	14.67				
3	64QAM	1	0	14.91	14.77	14.72				
3	64QAM	1	8	14.84	14.83	14.77	16.3	0		
3	64QAM	1	14	14.72	14.58	14.58				
3	64QAM	8	0	14.76	14.70	14.66				
3	64QAM	8	4	14.71	14.70	14.62	16.3	0		
3	64QAM	8	7	14.67	14.56	14.59				
3	64QAM	15	0	14.74	14.71	14.66				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	15.11	15.14	15.04				
1.4	QPSK	1	3	15.02	15.04	14.92	16.3	0		
1.4	QPSK	1	5	14.93	14.89	14.89				
1.4	QPSK	3	0	15.04	14.98	14.98				
1.4	QPSK	3	1	15.01	14.90	14.92				
1.4	QPSK	3	3	14.97	14.87	14.83	16.3	0		
1.4	QPSK	6	0	15.01	14.88	14.91				
1.4	16QAM	1	0	14.87	14.86	14.85				
1.4	16QAM	1	3	14.82	14.87	14.61	16.3	0		
1.4	16QAM	1	5	14.86	14.77	14.71				
1.4	16QAM	3	0	14.73	14.75	14.68				
1.4	16QAM	3	1	14.73	14.66	14.66				
1.4	16QAM	3	3	14.72	14.55	14.53	16.3	0		
1.4	16QAM	6	0	14.70	14.59	14.67				
1.4	64QAM	1	0	14.68	14.81	14.71				
1.4	64QAM	1	3	14.85	14.82	14.67				
1.4	64QAM	1	5	14.79	14.56	14.57	16.3	0		
1.4	64QAM	3	0	14.77	14.68	14.65				
1.4	64QAM	3	1	14.80	14.67	14.67				
1.4	64QAM	3	3	14.68	14.59	14.61				
1.4	64QAM	6	0	14.77	14.63	14.64	16.3	0		

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Band 7 (2600MHz Band) Part 27									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				2050	2100	2150			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	14.07	14.25	14.34	15.5	0	
20	QPSK	1	49	14.14	14.31	14.42			
20	QPSK	1	99	14.22	14.43	14.64			
20	QPSK	50	0	14.23	14.42	14.54	15.5	0	
20	QPSK	50	24	14.33	14.50	14.81			
20	QPSK	50	50	14.35	14.53	14.83			
20	QPSK	100	0	14.32	14.47	14.59	15.5	0	
20	16QAM	1	0	14.04	14.15	14.30			
20	16QAM	1	49	14.10	14.28	14.37			
20	16QAM	1	99	14.20	14.39	14.49	15.5	0	
20	16QAM	50	0	13.93	14.13	14.20			
20	16QAM	50	24	14.00	14.20	14.26			
20	16QAM	50	50	14.05	14.23	14.34	15.5	0	
20	16QAM	100	0	13.97	14.18	14.21			
20	64QAM	1	0	13.76	13.99	14.09			
20	64QAM	1	49	13.95	14.21	14.23	15.5	0	
20	64QAM	1	99	14.07	14.26	14.37			
20	64QAM	50	0	13.94	14.06	14.14			
20	64QAM	50	24	13.96	14.12	14.17	15.5	0	
20	64QAM	50	50	13.97	14.18	14.29			
20	64QAM	100	0	13.94	14.12	14.13			
Channel				20625	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	13.97	14.16	14.27	15.5	0	
15	QPSK	1	37	14.15	14.30	14.34			
15	QPSK	1	74	14.19	14.42	14.63			
15	QPSK	36	0	14.13	14.39	14.47	15.5	0	
15	QPSK	36	20	14.29	14.43	14.59			
15	QPSK	36	39	14.29	14.43	14.59			
15	QPSK	75	0	14.28	14.43	14.59	15.5	0	
15	16QAM	1	0	13.99	14.13	14.26			
15	16QAM	1	37	14.11	14.26	14.32			
15	16QAM	1	74	14.14	14.31	14.46	15.5	0	
15	16QAM	36	0	13.94	14.08	14.12			
15	16QAM	36	20	14.01	14.19	14.25			
15	16QAM	36	39	13.98	14.19	14.29	15.5	0	
15	16QAM	75	0	13.95	14.08	14.21			
15	64QAM	1	0	13.71	13.96	14.08			
15	64QAM	1	37	13.91	14.18	14.19	15.5	0	
15	64QAM	1	74	14.03	14.23	14.28			
15	64QAM	36	0	13.74	13.98	14.07			
15	64QAM	36	20	13.94	14.04	14.10	15.5	0	
15	64QAM	36	39	13.93	14.16	14.22			
15	64QAM	75	0	13.88	14.03	14.06			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	14.00	14.17	14.31	15.5	0	
10	QPSK	1	25	14.06	14.29	14.35			
10	QPSK	1	49	14.21	14.38	14.59			
10	QPSK	25	0	14.18	14.43	14.54	15.5	0	
10	QPSK	25	12	14.26	14.42	14.59			
10	QPSK	25	25	14.32	14.49	14.59			
10	QPSK	50	0	14.33	14.47	14.50	15.5	0	
10	16QAM	1	0	14.03	14.06	14.22			
10	16QAM	1	25	14.06	14.25	14.37			
10	16QAM	1	49	14.14	14.30	14.41	15.5	0	
10	16QAM	25	0	13.83	14.06	14.14			
10	16QAM	25	12	13.82	14.12	14.19			
10	16QAM	25	25	14.03	14.17	14.31	15.5	0	
10	16QAM	50	0	13.89	14.16	14.12			
10	64QAM	1	0	13.70	14.00	14.06			
10	64QAM	1	25	13.93	14.18	14.24	15.5	0	
10	64QAM	1	49	14.01	14.20	14.31			
10	64QAM	25	0	13.84	14.02	14.13			
10	64QAM	25	12	13.98	14.03	14.09	15.5	0	
10	64QAM	25	25	13.92	14.13	14.22			
10	64QAM	50	0	13.86	14.06	14.08			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	14.05	14.23	14.25	15.5	0	
5	QPSK	1	12	14.15	14.29	14.39			
5	QPSK	1	24	14.20	14.38	14.60			
5	QPSK	12	0	14.20	14.32	14.44	15.5	0	
5	QPSK	12	7	14.24	14.46	14.62			
5	QPSK	12	13	14.32	14.49	14.62			
5	QPSK	25	0	14.31	14.44	14.52	15.5	0	
5	16QAM	1	0	13.95	14.16	14.26			
5	16QAM	1	12	14.10	14.27	14.34			
5	16QAM	1	24	14.18	14.31	14.39	15.5	0	
5	16QAM	12	0	13.90	14.14	14.15			
5	16QAM	12	7	14.01	14.13	14.27			
5	16QAM	12	13	14.05	14.16	14.28	15.5	0	
5	16QAM	25	0	13.88	14.17	14.13			
5	64QAM	1	0	13.66	13.90	14.03			
5	64QAM	1	12	13.85	14.19	14.20	15.5	0	
5	64QAM	1	24	14.01	14.23	14.30			
5	64QAM	12	0	13.82	14.06	14.04			
5	64QAM	12	7	13.89	14.10	14.11	15.5	0	
5	64QAM	12	13	13.87	14.09	14.20			
5	64QAM	25	0	13.86	14.02	14.07			

Band 13(700MHz Band) Part 27F									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23205	23255				
Frequency (MHz)				782					
10	QPSK	1	0	20.61			22.2	0	
10	QPSK	1	25	20.80					
10	QPSK	1	49	20.93					
10	QPSK	25	0	20.83			22.2	0	
10	QPSK	25	12	20.85					
10	QPSK	25	25	20.91					
10	QPSK	50	0	20.75			22.2	0	
10	16QAM	1	0	20.77					
10	16QAM	1	25	20.82					
10	16QAM	1	49	20.81			22	0.2	
10	16QAM	25	0	20.61					
10	16QAM	25	12	20.70					
10	16QAM	25	25	20.78			21	1.2	
10	16QAM	50	0	20.70					
10	64QAM	1	0	20.77					
10	64QAM	1	25	20.80			22	0.2	
10	64QAM	1	49	20.84					
10	64QAM	25	0	19.74					
10	64QAM	25	12	19.72			21	1.2	
10	64QAM	25	25	19.71					
10	64QAM	50	0	19.83					
Channel				23205	23230	23255			
Frequency (MHz)				779.5	782	784.5			
5	QPSK	1	0	20.77	20.76	20.71	22.2	0	
5	QPSK	1	12	20.88	20.82	20.89			
5	QPSK	1	24	20.88	20.77	20.80			
5	QPSK	12	0	20.70	20.84	20.78	22.2	0	
5	QPSK	12	7	20.87	20.85	20.89			
5	QPSK	12	13	20.88	20.91	20.90			
5	QPSK	25	0	20.84	20.85	20.86	22.2	0	
5	16QAM	1	0	20.64	20.90	20.61			
5	16QAM	1	12	20.55	20.75	20.90			
5	16QAM	1	24	20.81	20.60	20.79	22	0.2	
5	16QAM	12	0	20.66	20.63	20.65			
5	16QAM	12	7	20.78	20.65	20.69			
5	16QAM	12	13	20.72	20.70	20.70	22	0.2	
5	16QAM	25	0	20.59	20.69	20.81			
5	64QAM	1	0	20.46	20.46	20.88			
5	64QAM	1	12	20.57	20.62	20.84	22	0.2	
5	64QAM	1	24	20.79	20.48	20.89			
5	64QAM	12	0	19.56	19.76	19.67			
5	64QAM	12	7	20.14	19.68	19.72	21	1.2	
5	64QAM	12	13	19.74	19.86	19.75			
5	64QAM	25	0	19.75	19.63	19.70			

Band 14 (700MHz Band)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23305	23330				
Frequency (MHz)				793					
10	QPSK	1	0	20.39			21.5	0	
10	QPSK	1	25	20.31					
10	QPSK	1	49	20.40					
10	QPSK	25	0	20.24			21.5	0	
10	QPSK	25	12	20.21					
10	QPSK	25	25	20.25					
10	QPSK	50	0	20.15			21.5	0	
10	16QAM	1	0	20.39					
10	16QAM	1	25	20.24					
10	16QAM	1	49	20.34			21.5	0	
10	16QAM	25	0	20.22					
10	16QAM	25	12	20.32					
10	1								



Band 25 (1900MHz Band) Part 24E										
BW (MHz)	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	15.21	15.11	15.02	16.3	0		
20	QPSK	1	49	15.18	15.13	14.90				
20	QPSK	1	99	15.08	14.99	14.85				
20	QPSK	50	0	15.19	15.09	14.99				
20	QPSK	50	24	15.07	15.03	14.95				
20	QPSK	50	50	15.08	15.00	14.90				
20	QPSK	100	0	15.13	15.01	14.96				
20	16QAM	1	0	15.07	14.91	14.76				
20	16QAM	1	49	14.89	14.91	14.68				
20	16QAM	1	99	14.76	14.75	14.68				
20	16QAM	50	0	14.85	14.76	14.94				
20	16QAM	50	24	14.83	14.72	14.92				
20	16QAM	50	50	14.76	14.70	14.60				
20	16QAM	100	0	14.81	14.70	14.63				
20	64QAM	1	0	14.91	14.76	14.56				
20	64QAM	1	49	14.88	14.77	14.68				
20	64QAM	1	99	14.69	14.63	14.52				
20	64QAM	50	0	14.90	14.75	14.63				
20	64QAM	50	24	14.86	14.74	14.62				
20	64QAM	50	50	14.77	14.71	14.63				
20	64QAM	100	0	14.82	14.71	14.62				
Channel										
Frequency (MHz)										
15	QPSK	1	0	15.17	15.09	14.92	16.3	0		
15	QPSK	1	37	15.11	15.09	14.99				
15	QPSK	1	74	14.98	14.99	14.93				
15	QPSK	36	0	15.19	15.06	14.88				
15	QPSK	36	20	15.18	15.01	14.89				
15	QPSK	36	39	15.03	14.99	14.88				
15	16QAM	75	0	15.03	15.01	14.95				
15	16QAM	1	0	14.89	14.83	14.52				
15	16QAM	1	37	14.88	14.82	14.66				
15	16QAM	1	74	14.71	14.66	14.58				
15	16QAM	36	0	14.79	14.89	14.55				
15	16QAM	36	20	14.75	14.68	14.54				
15	16QAM	36	39	14.67	14.62	14.61				
15	16QAM	75	0	14.80	14.63	14.54				
15	64QAM	1	0	14.85	14.87	14.46				
15	64QAM	1	37	14.82	14.75	14.62				
15	64QAM	1	74	14.66	14.60	14.50				
15	64QAM	36	0	14.83	14.89	14.53				
15	64QAM	36	20	14.76	14.70	14.62				
15	64QAM	36	39	14.77	14.62	14.59				
15	64QAM	75	0	14.81	14.69	14.64				
Channel										
Frequency (MHz)										
10	QPSK	1	0	15.17	15.11	14.97	16.3	0		
10	QPSK	1	25	15.17	15.11	14.88				
10	QPSK	1	49	15.03	15.00	14.85				
10	QPSK	25	0	15.13	15.10	14.99				
10	QPSK	25	12	15.12	15.03	14.85				
10	QPSK	25	25	15.02	14.94	14.90				
10	QPSK	50	0	15.03	15.02	14.92				
10	16QAM	1	0	15.01	14.94	14.72				
10	16QAM	1	25	14.89	14.89	14.69				
10	16QAM	1	49	14.74	14.68	14.65				
10	16QAM	25	0	14.85	14.79	14.62				
10	16QAM	25	12	14.79	14.84	14.83				
10	16QAM	25	25	14.69	14.71	14.52				
10	16QAM	50	0	14.80	14.83	14.83				
10	64QAM	1	0	14.85	14.72	14.56				
10	64QAM	1	25	14.80	14.73	14.66				
10	64QAM	1	49	14.80	14.58	14.47				
10	64QAM	25	0	14.80	14.88	14.59				
10	64QAM	25	12	14.83	14.71	14.58				
10	64QAM	25	25	14.71	14.63	14.56				
10	64QAM	50	0	14.81	14.67	14.56				
Channel										
Frequency (MHz)										
5	QPSK	1	0	15.17	15.06	14.97	16.3	0		
5	QPSK	1	12	15.16	15.04	14.94				
5	QPSK	1	24	15.07	14.95	14.85				
5	QPSK	12	0	15.09	15.08	14.91				
5	QPSK	12	7	15.07	14.94	14.89				
5	QPSK	12	13	15.05	14.94	14.81				
5	QPSK	25	0	15.06	14.95	14.89				
5	16QAM	1	0	15.09	14.91	14.71				
5	16QAM	1	12	14.79	14.84	14.64				
5	16QAM	1	24	14.66	14.67	14.60				
5	16QAM	12	0	14.77	14.75	14.61				
5	16QAM	12	7	14.81	14.73	14.55				
5	16QAM	12	13	14.67	14.67	14.59				
5	16QAM	25	0	14.75	14.81	14.59				
5	64QAM	1	0	14.87	14.77	14.55				
5	64QAM	1	12	14.79	14.71	14.58				
5	64QAM	1	24	14.62	14.53	14.50				
5	64QAM	12	0	14.81	14.70	14.53				
5	64QAM	12	7	14.85	14.73	14.52				
5	64QAM	12	13	14.74	14.66	14.58				
5	64QAM	25	0	14.80	14.65	14.63				
Channel										
Frequency (MHz)										
3	QPSK	1	0	15.12	15.05	15.00	16.3	0		
3	QPSK	1	8	15.16	15.13	14.85				
3	QPSK	1	14	15.00	14.98	14.81				
3	QPSK	8	0	15.13	15.08	14.98				
3	QPSK	8	4	15.07	14.97	14.91				
3	QPSK	8	7	15.00	14.95	14.85				
3	QPSK	15	0	15.11	14.95	14.88				
3	16QAM	1	0	15.08	14.92	14.72				
3	16QAM	1	8	14.85	14.85	14.68				
3	16QAM	1	14	14.77	14.73	14.66				
3	16QAM	8	0	14.83	14.76	14.55				
3	16QAM	8	4	14.76	14.66	14.57				
3	16QAM	8	7	14.70	14.63	14.59				
3	16QAM	15	0	14.74	14.62	14.59				
3	64QAM	1	0	14.83	14.68	14.51				
3	64QAM	1	8	14.80	14.72	14.61				
3	64QAM	1	14	14.83	14.56	14.47				
3	64QAM	8	0	14.90	14.71	14.60				
3	64QAM	8	4	14.87	14.71	14.53				
3	64QAM	8	7	14.78	14.61	14.64				
3	64QAM	15	0	14.76	14.64	14.52				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	15.11	15.03	15.01	16.3	0		
1.4	QPSK	1	3	15.13	15.07	14.91				
1.4	QPSK	1	5	15.00	14.99	14.77				
1.4	QPSK	3	0	15.12	15.01	14.96				
1.4	QPSK	3	1	15.15	14.93	14.96				
1.4	QPSK	3	3	14.98	14.97	14.82				
1.4	QPSK	6	0	15.14	15.02	14.90				
1.4	16QAM	1	0	15.05	14.96	14.75				
1.4	16QAM	1	3	14.90	14.89	14.69				
1.4	16QAM	1	5	14.73	14.65	14.64				
1.4	16QAM	3	0	14.75	14.77	14.65				
1.4	16QAM	3	1	14.75	14.72	14.59				
1.4	16QAM	3	3	14.71	14.62	14.54				
1.4	16QAM	6	0	14.81	14.71	14.64				
1.4	64QAM	1	0	14.89	14.74	14.56				
1.4	64QAM	1	3	14.80	14.70	14.69				
1.4	64QAM	1	5	14.59	14.57	14.48				
1.4	64QAM	3	0	14.84	14.76	14.58				
1.4	64QAM	3	1	14.87	14.75	14.52				
1.4	64QAM	3	3	14.76	14.65	14.55				
1.4	64QAM	6	0	14.76	14.68	14.63				

Band 26 for FCC (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)										
15	QPSK	1	0	20.60	20.30	20.23	21.6	0		
15	QPSK	1	37	20.33	20.36	20.35				
15	QPSK	1	74	20.30	20.28	20.14				
15	QPSK	36	0	20.40	20.20	20.25				
15	QPSK	36	20	20.23	20.19	20.20				
15	QPSK	36	39	20.23	20.23	20.31				
15	QPSK	75	0	20.30	20.27	20.15				
15	16QAM	1	0	20.38	20.01	20.35				
15	16QAM	1	37	20.10	20.07	20.21				
15	16QAM	1	74	20.38	20.27	20.31				
15	16QAM	36	0	20.19	20.16	20.28				
15	16QAM	36	20	20.32	20.18	20.17				
15	16QAM	36	39	20.27	20.23	20.27				
15	16QAM	75	0	20.29	20.22	20.24				
15	64QAM	1	0	20.18	20.18	20.36				
15	64QAM	1	37	20.21	20.38	20.38				
15	64QAM	1	74	20.38	20.29	20.18				
15	64QAM	36	0	19.66	19.71	19.64				
15	64QAM	36	20	19.55	19.67	19.65				
15	64QAM	36	39	19.69	19.67	19.72				
15	64QAM	75	0	19.74	19.55	19.61				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.55	20.29	20.22	21.6	0		
10	QPSK	1	25	20.31	20.35	20.26				
10	QPSK	1	49	20.28	20.21	20.13				
10	QPSK	25	0	20.28	20.19	20.22				
10	QPSK	25	12	20.22	20.19	20.10				
10	QPSK	25	25	20.23	20.25	20.31				
10	QPSK	50	0	20.26	20.25	20.10				
10	16QAM	1	0	20.31	20.26	20.26				
10	16QAM	1	25	20.04	20.06	20.30				
10	16QAM	1	49	20.29	20.25	20.11				
10	16QAM	25	0							



Band 66									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				132072	132072	132072			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	16.58	16.68	16.54			
20	QPSK	1	49	16.44	16.61	16.37	17.7	0	
20	QPSK	1	99	16.41	16.52	16.36			
20	QPSK	50	0	16.13	16.23	16.07			
20	QPSK	50	24	16.15	16.36	16.15	17.7	0	
20	QPSK	50	50	16.16	16.28	16.06			
20	QPSK	100	0	16.18	16.22	16.04			
20	16QAM	1	0	16.24	16.32	16.17			
20	16QAM	1	49	16.18	16.35	16.12	17.7	0	
20	16QAM	1	99	16.14	16.28	16.10			
20	16QAM	50	0	16.13	16.26	16.10			
20	16QAM	50	24	16.22	16.25	16.07	17.7	0	
20	16QAM	50	50	16.13	16.28	16.09			
20	16QAM	100	0	16.17	16.22	16.05			
20	64QAM	1	0	16.03	16.13	16.00			
20	64QAM	1	49	16.11	16.14	16.00	17.7	0	
20	64QAM	1	99	16.04	16.18	16.00			
20	64QAM	50	0	16.13	16.27	16.06			
20	64QAM	50	24	16.20	16.27	16.06	17.7	0	
20	64QAM	50	50	16.15	16.31	16.14			
20	64QAM	100	0	16.19	16.22	16.07			
Channel				132047	132322	132597			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	16.49	16.64	16.44			
15	QPSK	1	37	16.43	16.52	16.35	17.7	0	
15	QPSK	1	74	16.31	16.46	16.33			
15	QPSK	36	0	16.04	16.14	15.98			
15	QPSK	36	20	16.13	16.30	16.10	17.7	0	
15	QPSK	36	39	16.10	16.25	15.96			
15	QPSK	75	0	16.15	16.21	15.99			
15	16QAM	1	0	16.24	16.31	16.07			
15	16QAM	1	37	16.15	16.29	16.07	17.7	0	
15	16QAM	1	74	16.06	16.22	16.06			
15	16QAM	36	0	16.12	16.20	16.06			
15	16QAM	36	20	16.18	16.18	16.06	17.7	0	
15	16QAM	36	39	16.14	16.28	16.10			
15	16QAM	75	0	16.15	16.14	16.06			
15	64QAM	1	0	15.97	16.08	15.96			
15	64QAM	1	37	16.07	16.10	15.96	17.7	0	
15	64QAM	1	74	15.96	16.16	15.95			
15	64QAM	36	0	16.14	16.21	16.03			
15	64QAM	36	20	16.13	16.18	16.07	17.7	0	
15	64QAM	36	39	16.12	16.23	16.13			
15	64QAM	75	0	16.20	16.15	16.03			
Channel				132022	132322	132627			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	0	16.59	16.60	16.44			
10	QPSK	1	25	16.36	16.56	16.33	17.7	0	
10	QPSK	1	49	16.31	16.51	16.32			
10	QPSK	25	0	16.11	16.15	16.01			
10	QPSK	25	12	16.05	16.31	16.12	17.7	0	
10	QPSK	25	25	16.17	16.29	16.04			
10	QPSK	50	0	16.10	16.15	15.98			
10	16QAM	1	0	16.16	16.22	16.13			
10	16QAM	1	25	16.19	16.28	16.12	17.7	0	
10	16QAM	1	49	16.06	16.25	16.06			
10	16QAM	25	0	16.12	16.17	16.07			
10	16QAM	25	12	16.16	16.26	16.06	17.7	0	
10	16QAM	25	25	16.08	16.25	16.02			
10	16QAM	50	0	16.16	16.22	16.05			
10	64QAM	1	0	16.04	16.03	15.94			
10	64QAM	1	25	16.02	16.10	15.93	17.7	0	
10	64QAM	1	49	16.04	16.15	16.00			
10	64QAM	25	0	16.08	16.20	16.06			
10	64QAM	25	12	16.17	16.25	16.00	17.7	0	
10	64QAM	25	25	16.09	16.22	16.13			
10	64QAM	50	0	16.09	16.16	15.99			
Channel				131997	132322	132647			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	0	16.52	16.61	16.55			
5	QPSK	1	12	16.36	16.56	16.32	17.7	0	
5	QPSK	1	24	16.37	16.48	16.30			
5	QPSK	12	0	16.06	16.19	16.02			
5	QPSK	12	7	16.10	16.29	16.10	17.7	0	
5	QPSK	12	13	16.17	16.23	16.06			
5	QPSK	25	0	16.13	16.18	16.05			
5	16QAM	1	0	16.21	16.33	16.08			
5	16QAM	1	12	16.15	16.30	16.05	17.7	0	
5	16QAM	1	24	16.05	16.20	16.01			
5	16QAM	12	0	16.11	16.16	16.08			
5	16QAM	12	7	16.15	16.15	15.99	17.7	0	
5	16QAM	12	13	16.06	16.24	16.08			
5	16QAM	25	0	16.07	16.12	16.04			
5	64QAM	1	0	15.97	16.06	15.96			
5	64QAM	1	12	16.08	16.09	15.97	17.7	0	
5	64QAM	1	24	15.99	16.11	16.01			
5	64QAM	12	0	16.10	16.21	16.00			
5	64QAM	12	7	16.20	16.24	16.02	17.7	0	
5	64QAM	12	13	16.07	16.28	16.06			
5	64QAM	25	0	16.15	16.19	16.04			
Channel				131987	132322	132657			
Frequency (MHz)				1711.5	1745	1778.5			
3	QPSK	1	0	16.48	16.65	16.49			
3	QPSK	1	8	16.38	16.55	16.33	17.7	0	
3	QPSK	1	14	16.39	16.48	16.33			
3	QPSK	8	0	16.06	16.16	16.02			
3	QPSK	8	4	16.05	16.34	16.11	17.7	0	
3	QPSK	8	7	16.06	16.19	16.03			
3	QPSK	15	0	16.18	16.21	16.03			
3	16QAM	1	0	16.25	16.27	16.17			
3	16QAM	1	8	16.14	16.27	16.04	17.7	0	
3	16QAM	1	14	16.11	16.22	16.09			
3	16QAM	8	0	16.07	16.16	16.05			
3	16QAM	8	4	16.20	16.26	15.99	17.7	0	
3	16QAM	8	7	16.10	16.22	16.10			
3	16QAM	15	0	16.09	16.21	16.05			
3	64QAM	1	0	16.04	16.08	15.92			
3	64QAM	1	8	16.06	16.11	15.93	17.7	0	
3	64QAM	1	14	16.00	16.15	15.96			
3	64QAM	8	0	16.12	16.28	16.01			
3	64QAM	8	4	16.19	16.24	16.03	17.7	0	
3	64QAM	8	7	16.14	16.22	16.10			
3	64QAM	15	0	16.11	16.23	16.07			
Channel				131979	132322	132685			
Frequency (MHz)				1710.7	1745	1779.3			
1.4	QPSK	1	0	16.52	16.62	16.46			
1.4	QPSK	1	3	16.41	16.52	16.38	17.7	0	
1.4	QPSK	1	5	16.41	16.47	16.31			
1.4	QPSK	3	0	16.06	16.17	16.00			
1.4	QPSK	3	1	16.11	16.36	16.09			
1.4	QPSK	3	3	16.15	16.18	16.07	17.7	0	
1.4	QPSK	6	0	16.10	16.18	16.05			
1.4	16QAM	1	0	16.22	16.24	16.17			
1.4	16QAM	1	3	16.13	16.31	16.07	17.7	0	
1.4	16QAM	1	5	16.05	16.25	16.11			
1.4	16QAM	3	0	16.13	16.19	16.04			
1.4	16QAM	3	1	16.15	16.17	16.01			
1.4	16QAM	3	3	16.11	16.19	16.04	17.7	0	
1.4	16QAM	6	0	16.07	16.12	15.99			
1.4	64QAM	1	0	15.96	16.13	16.00			
1.4	64QAM	1	3	16.12	16.11	15.93	17.7	0	
1.4	64QAM	1	5	16.00	16.15	15.99			
1.4	64QAM	3	0	16.05	16.23	16.06			
1.4	64QAM	3	1	16.16	16.17	16.01			
1.4	64QAM	3	3	16.14	16.27	16.11	17.7	0	
1.4	64QAM	6	0	16.14	16.16	16.00			



Band 38(only on channel required)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Frac)	Power Middle Ch. (Frac)	Power High Ch. (Frac)	Time-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				37850	38000	38150				
20	QPSK	1	0	17.16	16.93	17.29				
20	QPSK	1	49	17.17	17.09	17.27	18.3	0		
20	QPSK	1	99	17.17	17.09	17.30				
20	QPSK	50	0	17.13	17.10	17.11				
20	QPSK	50	24	17.25	17.10	17.26	18.3	0		
20	QPSK	50	49	17.12	17.09	17.25				
20	QPSK	100	0	17.18	17.08	17.25				
20	16QAM	1	0	16.92	16.97	17.03				
20	16QAM	1	49	16.91	16.80	16.85	18.3	0		
20	16QAM	1	99	17.01	16.76	17.05				
20	16QAM	50	0	16.99	16.95	16.99				
20	16QAM	50	24	16.90	16.82	16.76	18.3	0		
20	16QAM	50	49	16.77	16.75	16.85				
20	16QAM	100	0	17.03	16.89	17.04				
20	16QAM	1	0	17.00	16.99	16.99	18.3	0		
20	16QAM	1	49	16.84	16.83	16.87				
20	16QAM	1	99	16.63	16.50	16.59				
20	16QAM	50	0	16.65	16.66	16.77				
20	16QAM	50	24	16.90	16.82	16.76	18.3	0		
20	16QAM	50	49	16.76	16.82	16.77				
20	16QAM	100	0	17.05	16.89	16.94				
Channel										
Frequency (MHz)				2577.5	2595	2612.5	Time-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	17.08	16.85	17.29				
15	QPSK	1	37	16.92	17.01	17.29	18.3	0		
15	QPSK	1	74	17.10	16.99	17.27				
15	QPSK	36	0	17.14	17.00	17.09				
15	QPSK	36	20	17.20	17.09	17.17	18.3	0		
15	QPSK	36	39	17.11	17.08	17.25				
15	QPSK	75	0	17.10	17.09	17.21				
15	16QAM	1	0	16.91	16.94	17.00				
15	16QAM	1	37	16.92	16.90	16.99	18.3	0		
15	16QAM	1	74	17.02	16.99	16.90				
15	16QAM	36	0	17.00	16.96	16.92				
15	16QAM	36	20	16.87	16.78	16.84	18.3	0		
15	16QAM	36	39	16.70	16.72	16.84				
15	16QAM	75	0	17.03	16.88	17.01				
15	16QAM	1	0	16.96	16.90	16.92	18.3	0		
15	16QAM	1	37	16.83	16.83	16.90				
15	16QAM	1	74	16.83	16.47	16.50				
15	16QAM	36	0	16.65	16.60	16.71				
15	16QAM	36	20	16.91	16.81	16.82	18.3	0		
15	16QAM	36	39	16.69	16.70	16.72				
15	16QAM	75	0	17.02	16.89	16.89				
Channel										
Frequency (MHz)				2977.5	2995	3012.5	Time-up limit (dBm)	MPR (dB)		
10	QPSK	1	0	17.09	16.90	17.19				
10	QPSK	1	25	17.00	17.02	17.20	18.3	0		
10	QPSK	1	49	17.08	17.08	17.29				
10	QPSK	25	0	17.08	17.09	17.01				
10	QPSK	25	12	17.23	17.07	17.27	18.3	0		
10	QPSK	25	25	17.02	17.01	17.25				
10	QPSK	50	0	17.13	16.99	17.16				
10	16QAM	1	0	16.84	16.90	17.01				
10	16QAM	1	25	16.82	16.80	16.79	18.3	0		
10	16QAM	1	49	16.95	16.70	16.85				
10	16QAM	25	0	16.94	16.85	16.90				
10	16QAM	25	12	17.16	16.86	16.94	18.3	0		
10	16QAM	25	25	16.92	16.86	16.83				
10	16QAM	50	0	16.94	16.87	16.86				
10	16QAM	1	0	16.99	16.92	16.92	18.3	0		
10	16QAM	1	25	16.92	16.78	16.87				
10	16QAM	1	49	16.61	16.50	16.51				
10	16QAM	25	0	16.61	16.61	16.76				
10	16QAM	25	12	16.86	16.80	16.80	18.3	0		
10	16QAM	25	25	16.78	16.82	16.77				
10	16QAM	50	0	17.05	16.89	16.89				

Band 41 (2.6G Band)-class 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Frac)	Power Middle Ch. (Frac)	Power High Ch. (Frac)	Power High Ch. (Frac)	Time-up limit (dBm)	MPR (dB)	
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
20	QPSK	1	0	16.90	16.75	17.20	17.29	17.02	18.3	0
20	QPSK	1	49	16.96	16.76	17.29	17.39	17.27		
20	QPSK	1	99	17.00	17.39	17.36	17.41	17.33		
20	QPSK	50	0	16.87	17.14	17.08	17.25	16.97		
20	QPSK	50	24	16.94	17.16	17.04	17.30	17.31	18.3	0
20	QPSK	50	49	16.92	17.29	17.28	17.39	17.27		
20	QPSK	100	0	16.87	17.16	17.07	17.30	17.27		
20	16QAM	1	0	16.84	16.80	16.90	17.08	17.15		
20	16QAM	1	49	16.92	16.76	16.89	17.09	17.00	18.3	0
20	16QAM	1	99	16.98	17.22	16.89	17.05	17.06		
20	16QAM	50	0	16.86	16.94	16.81	17.07	17.15		
20	16QAM	50	24	16.70	16.96	16.83	17.08	17.10	18.3	0
20	16QAM	50	49	16.63	16.91	16.90	17.15	17.16		
20	16QAM	100	0	16.77	16.92	16.81	17.13	17.06		
20	16QAM	1	0	16.31	16.99	16.81	16.81	16.86	18.3	0
20	16QAM	1	49	16.39	16.94	16.84	16.75	16.75		
20	16QAM	1	99	16.39	16.78	16.63	16.63	16.62		
20	16QAM	50	0	16.63	16.62	16.79	16.85	17.06		
20	16QAM	50	24	16.74	16.96	16.83	17.03	17.03	18.3	0
20	16QAM	50	49	16.70	17.01	16.85	17.11	17.08		
20	16QAM	100	0	16.72	16.90	16.82	16.78	17.02		
Channel										
Frequency (MHz)				2901.5	2943.3	2985.1	3026.9	3068.7	Time-up limit (dBm)	MPR (dB)
15	QPSK	1	0	16.80	16.70	17.10	17.27	16.92	18.3	0
15	QPSK	1	37	16.91	17.19	17.20	17.26	17.34		
15	QPSK	1	74	16.94	17.26	17.23	17.23	17.29	18.3	0
15	QPSK	36	0	16.86	17.08	17.03	17.15	16.90		
15	QPSK	36	20	16.92	17.09	16.98	17.30	17.22	18.3	0
15	QPSK	36	39	16.86	17.26	17.13	17.20	17.26		
15	QPSK	75	0	16.87	17.10	17.07	17.27	17.17		
15	16QAM	1	0	16.59	16.70	16.80	16.99	17.07		
15	16QAM	1	37	16.49	16.80	16.87	17.07	17.03	18.3	0
15	16QAM	1	74	16.51	17.23	16.79	16.98	17.03		
15	16QAM	36	0	16.67	16.92	16.82	17.06	17.10		
15	16QAM	36	20	16.67	16.93	16.71	17.02	17.11	18.3	0
15	16QAM	36	39	16.58	16.87	16.82	17.08	17.14		
15	16QAM	75	0	16.73	16.84	16.72	17.11	17.00		
15	16QAM	1	0	16.52	16.90	16.90	16.74	16.84	18.3	0
15	16QAM	1	37	16.59	16.93	16.97	16.88	16.91		
15	16QAM	1	74	16.33	16.74	16.80	16.67	16.76		
15	16QAM	36	0	16.62	16.82	16.78	16.84	16.86	18.3	0
15	16QAM	36	20	16.78	16.90	16.73	17.02	17.06		
15	16QAM	36	39	16.67	16.98	16.77	17.00	17.04		
15	16QAM	75	0	16.70	16.84	16.80	16.75	16.83		
Channel										
Frequency (MHz)				2901.5	2947	2993	3039	3085	Time-up limit (dBm)	MPR (dB)
10	QPSK	1	0	16.88	16.71	17.13	17.20	17.01	18.3	0
10	QPSK	1	25	16.91	17.16	17.22	17.32	17.20		
10	QPSK	1	49	17.01	17.21	17.23	17.32	17.30	18.3	0
10	QPSK	25	0	16.88	17.06	17.01	17.23	16.96		
10	QPSK	25	12	16.95	17.12	17.00	17.28	17.27	18.3	0
10	QPSK	25	25	16.84	17.06	17.06	17.20	17.26		
10	QPSK	50	0	16.80	17.15	16.99	17.29	17.20		
10	16QAM	1	0	16.63	16.76	16.89	17.07	17.16		
10										



DIS6 for Handheld Standalone/Sim-Tx for LAT

GSM1900 TX Channel	Sust. Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	512	661	819		512	661	819	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.91	29.69	29.37	30.50	20.91	20.69	20.37	21.50
GPRS 1 Tx slot	30.11	29.92	29.87	30.50	21.11	20.92	20.87	21.50
GPRS 2 Tx slots	27.59	27.36	27.07	27.60	21.59	21.36	21.07	21.60
GPRS 3 Tx slots	26.00	25.93	25.91	27.10	21.74	21.67	21.65	22.84
GPRS 4 Tx slots	23.94	24.28	23.62	25.60	20.94	21.28	20.62	22.60
EDGE 1 Tx slot	25.47	25.09	25.21	26.36	18.47	18.08	18.21	17.50
EDGE 2 Tx slots	24.45	24.17	24.14	25.50	18.45	18.17	18.14	19.50
EDGE 3 Tx slots	22.31	22.34	22.08	22.00	18.05	18.08	17.82	18.74
EDGE 4 Tx slots	21.23	21.32	21.12	22.50	18.23	18.32	18.12	19.50

Band TX Channel	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)
	9262	9400	9638		1312	1413	1513	
Rx Channel	9662	9800	9638	1537	1638	1738		
Frequency (MHz)	1852.4	1880	1907.6	1522.4	1732.6	1752.6		
3GPP Rel 99 AMR 12.2kbps	19.65	19.60	19.32	20.50	18.73	18.88	18.72	20.00
3GPP Rel 99 RMC 12.2kbps	19.66	19.62	19.35	20.50	18.76	18.90	18.78	20.00
3GPP Rel 6 HSDPA Subtest-1	18.67	18.62	18.26	18.50	17.71	17.80	17.80	19.00
3GPP Rel 6 HSDPA Subtest-2	18.62	18.36	18.01	18.50	17.81	17.89	17.78	19.00
3GPP Rel 6 HSDPA Subtest-3	18.18	17.74	17.83	18.00	17.26	17.42	17.22	18.50
3GPP Rel 6 HSDPA Subtest-4	18.12	18.15	17.84	18.00	17.28	17.42	17.23	18.50
3GPP Rel 6 DC-HSDPA Subtest-1	18.72	18.60	18.22	18.50	17.78	17.75	17.74	19.00
3GPP Rel 6 DC-HSDPA Subtest-2	18.58	18.37	18.00	18.50	17.66	17.84	17.81	19.00
3GPP Rel 6 DC-HSDPA Subtest-3	18.13	17.88	17.81	18.00	17.31	17.27	17.28	18.50
3GPP Rel 6 DC-HSDPA Subtest-4	18.11	18.10	17.77	18.00	17.17	17.14	17.14	18.50
3GPP Rel 6 HSUPA Subtest-1	18.74	18.62	18.26	18.50	17.74	17.73	17.72	19.00
3GPP Rel 6 HSUPA Subtest-2	16.88	16.59	16.27	17.50	15.72	15.68	15.62	17.00
3GPP Rel 6 HSUPA Subtest-3	17.73	17.64	17.22	18.50	17.68	17.59	17.66	18.00
3GPP Rel 6 HSUPA Subtest-4	16.70	16.56	16.34	17.50	15.70	15.67	15.67	17.00
3GPP Rel 6 HSUPA Subtest-5	18.71	18.59	18.21	18.50	17.66	17.61	17.61	19.00

Band TX Channel	CDMA BC1			Tune-up Limit (dBm)
	26	600	1175	
Frequency (MHz)	1851.25	1880	1908.75	
RC1 SO55	19.72	19.70	19.54	20.90
RC1 SO55	19.74	19.71	19.58	20.90
RC1 SO50 (F-SCH)	19.75	19.72	19.58	20.90
RC1 SO52 (F-SCH)	19.69	19.65	19.49	20.90
RTAP 153.8Kbps	20.12	19.98	19.89	20.90
RETAP 4568Hz	20.14	20.00	19.91	20.90



Band 2 (1900MHz Band) Part 24E										
BW (MHz)	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	18.54	18.46	18.38				
20	QPSK	1	49	18.41	18.44	18.28	19.6	0		
20	QPSK	1	99	18.30	18.33	18.22				
20	QPSK	50	0	18.35	18.23	18.22				
20	QPSK	50	24	18.31	18.24	18.15	19.6	0		
20	QPSK	50	50	18.24	18.17	18.14				
20	QPSK	100	0	18.27	18.22	18.20				
20	16QAM	1	0	18.27	18.27	18.19				
20	16QAM	1	49	18.24	18.23	18.15	19.6	0		
20	16QAM	1	99	18.18	18.17	18.13				
20	16QAM	50	0	18.15	18.05	18.02				
20	16QAM	50	24	18.11	18.02	18.00	19.6	0		
20	16QAM	50	50	18.06	17.96	17.94				
20	16QAM	100	0	18.12	18.03	18.00				
20	64QAM	1	0	18.16	18.22	18.07				
20	64QAM	1	49	18.29	18.13	18.05	19.6	0		
20	64QAM	1	99	18.08	18.02	17.83				
20	64QAM	50	0	18.13	18.11	18.04				
20	64QAM	50	24	18.14	18.02	18.04	19.6	0		
20	64QAM	50	50	18.11	18.00	17.96				
20	64QAM	100	0	18.14	18.03	18.00				
Channel										
Frequency (MHz)										
15	QPSK	1	0	18.51	18.41	18.33				
15	QPSK	1	37	18.33	18.46	18.22	19.6	0		
15	QPSK	1	74	18.20	18.24	18.22				
15	QPSK	36	0	18.25	18.24	18.14				
15	QPSK	36	20	18.26	18.21	18.15	19.6	0		
15	QPSK	36	39	18.22	18.11	18.06				
15	QPSK	75	0	18.26	18.12	18.11				
15	16QAM	1	0	18.13	18.11	18.04				
15	16QAM	1	37	18.14	18.24	18.12	19.6	0		
15	16QAM	1	74	18.13	18.10	18.05				
15	16QAM	36	0	18.16	17.98	17.94				
15	16QAM	36	20	18.02	17.99	17.95	19.6	0		
15	16QAM	36	39	18.03	17.95	17.92				
15	16QAM	75	0	18.12	17.94	17.95				
15	16QAM	75	0	18.12	18.00	17.95	19.6	0		
15	64QAM	1	0	18.12	18.09	18.03				
15	64QAM	1	74	17.99	17.95	17.82				
15	64QAM	36	0	18.11	18.01	18.02				
15	64QAM	36	20	18.12	18.02	17.99	19.6	0		
15	64QAM	36	39	18.02	18.01	17.88				
15	64QAM	75	0	18.12	18.00	17.95				
Channel										
Frequency (MHz)										
10	QPSK	1	0	18.53	18.39	18.32				
10	QPSK	1	25	18.36	18.45	18.25	19.6	0		
10	QPSK	1	49	18.27	18.29	18.14				
10	QPSK	25	0	18.36	18.24	18.13				
10	QPSK	25	12	18.31	18.16	18.13	19.6	0		
10	QPSK	25	25	18.23	18.11	18.13				
10	QPSK	50	0	18.20	18.23	18.14				
10	16QAM	1	0	18.27	18.20	18.14				
10	16QAM	1	25	18.23	18.19	18.10	19.6	0		
10	16QAM	1	49	18.19	18.10	18.09				
10	16QAM	25	0	18.01	17.96	17.95				
10	16QAM	25	12	18.09	17.94	17.97	19.6	0		
10	16QAM	25	25	18.00	17.90	17.95				
10	16QAM	50	0	18.08	17.99	17.94				
10	64QAM	1	0	18.07	18.23	18.03				
10	64QAM	1	25	18.25	18.14	17.95	19.6	0		
10	64QAM	1	49	18.02	17.97	17.78				
10	64QAM	25	0	18.13	18.00	18.01				
10	64QAM	25	12	18.09	17.97	18.05	19.6	0		
10	64QAM	25	25	18.07	17.95	17.86				
10	64QAM	50	0	18.07	17.97	17.92				
Channel										
Frequency (MHz)										
5	QPSK	1	0	18.49	18.37	18.30				
5	QPSK	1	12	18.11	18.16	18.13	19.6	0		
5	QPSK	1	24	18.27	18.28	18.17				
5	QPSK	12	0	18.29	18.21	18.16				
5	QPSK	12	7	18.29	18.18	18.09	19.6	0		
5	QPSK	12	13	18.17	18.16	18.11				
5	QPSK	25	0	18.23	18.13	18.17				
5	16QAM	1	0	18.21	18.16	18.13				
5	16QAM	1	12	18.21	18.13	18.05	19.6	0		
5	16QAM	1	24	18.18	18.15	18.13				
5	16QAM	12	0	18.16	18.05	17.95				
5	16QAM	12	7	18.02	18.03	17.98	19.6	0		
5	16QAM	12	13	18.02	17.93	17.87				
5	16QAM	25	0	18.09	18.02	17.95				
5	64QAM	1	0	18.15	18.20	17.97				
5	64QAM	1	12	18.19	18.06	17.97	19.6	0		
5	64QAM	1	24	18.01	18.00	17.80				
5	64QAM	12	0	18.09	18.06	18.02				
5	64QAM	12	7	18.10	18.02	17.98	19.6	0		
5	64QAM	12	13	18.03	18.12	17.95				
5	64QAM	25	0	18.11	18.00	17.90				
Channel										
Frequency (MHz)										
3	QPSK	1	0	18.50	18.46	18.32				
3	QPSK	1	8	18.34	18.41	18.24	19.6	0		
3	QPSK	1	14	18.22	18.30	18.14				
3	QPSK	8	0	18.31	18.23	18.20				
3	QPSK	8	4	18.21	18.14	18.13	19.6	0		
3	QPSK	8	7	18.23	18.15	18.14				
3	QPSK	15	0	18.22	18.20	18.13				
3	16QAM	1	0	18.18	18.19	18.14				
3	16QAM	1	8	18.16	18.13	18.12	19.6	0		
3	16QAM	1	14	18.18	18.12	18.12				
3	16QAM	8	0	18.05	18.03	17.92				
3	16QAM	8	4	18.04	18.01	17.96	19.6	0		
3	16QAM	8	7	18.04	17.89	17.86				
3	16QAM	15	0	18.11	17.96	17.92				
3	64QAM	1	0	18.11	18.15	17.97				
3	64QAM	1	8	18.19	18.10	17.98	19.6	0		
3	64QAM	1	14	18.03	17.93	17.79				
3	64QAM	8	0	18.08	18.12	17.99				
3	64QAM	8	4	18.11	17.99	17.98	19.6	0		
3	64QAM	8	7	18.01	17.96	17.87				
3	64QAM	15	0	18.11	17.96	17.93				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	18.51	18.42	18.39				
1.4	QPSK	1	3	18.39	18.44	18.20	19.6	0		
1.4	QPSK	1	5	18.25	18.28	18.13				
1.4	QPSK	3	0	18.35	18.23	18.14				
1.4	QPSK	3	1	18.26	18.19	18.14	19.6	0		
1.4	QPSK	3	3	18.22	18.12	18.08				
1.4	QPSK	6	0	18.21	18.12	18.10				
1.4	16QAM	1	0	18.17	18.10	18.05				
1.4	16QAM	1	3	18.25	18.22	18.11	19.6	0		
1.4	16QAM	1	5	18.19	18.08	18.11				
1.4	16QAM	3	0	18.13	18.05	17.95				
1.4	16QAM	3	1	18.08	17.95	17.91	19.6	0		
1.4	16QAM	3	3	17.97	17.91	17.86				
1.4	16QAM	6	0	18.06	18.02	17.93				
1.4	64QAM	1	0	18.07	18.19	17.97	19.6	0		
1.4	64QAM	1	3	18.20	18.11	17.97				
1.4	64QAM	1	5	18.02	17.97	17.74	19.6	0		
1.4	64QAM	3	0	18.17	18.02	17.97				
1.4	64QAM	3	1	18.05	17.94	18.05				
1.4	64QAM	3	3	18.09	17.97	17.90	19.6	0		
1.4	64QAM	6	0	18.04	18.01	18.01				

Band										
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Band 25 (1900MHz Band)										
Part 24E										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				2615	2630	2650				
Frequency (MHz)				1860	1880	1900				
20	QPSK	1	0	18.60	18.56	18.38				
20	QPSK	1	49	18.49	18.49	18.32	19.6	0		
20	QPSK	1	99	18.49	18.41	18.24				
20	QPSK	50	0	18.34	18.24	18.13				
20	QPSK	50	24	18.27	18.16	18.15	19.6	0		
20	QPSK	50	50	18.27	18.15	18.08				
20	QPSK	100	0	18.31	18.22	18.15				
20	16QAM	1	0	18.31	18.15	18.10				
20	16QAM	1	49	18.19	18.20	18.06	19.6	0		
20	16QAM	1	99	18.12	18.05	17.93				
20	16QAM	50	0	18.12	18.02	17.90				
20	16QAM	50	24	18.08	18.00	17.92	19.6	0		
20	16QAM	50	50	18.02	17.92	17.87				
20	16QAM	100	0	18.06	17.97	17.92				
20	64QAM	1	0	18.11	18.10	18.06				
20	64QAM	1	49	18.16	18.00	17.86	19.6	0		
20	64QAM	1	99	17.97	17.90	17.83				
20	64QAM	50	0	18.10	18.04	17.92				
20	64QAM	50	24	18.12	18.03	17.92	19.6	0		
20	64QAM	50	50	18.05	17.98	17.86				
20	64QAM	100	0	18.08	17.98	17.90				
Channel				2615	2630	2650				
Frequency (MHz)				1857.5	1880	1907.5	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	18.57	18.54	18.32				
15	QPSK	1	49	18.39	18.43	18.24	19.6	0		
15	QPSK	1	74	18.48	18.37	18.16				
15	QPSK	36	0	18.35	18.19	18.07				
15	QPSK	36	20	18.26	18.17	18.09	19.6	0		
15	QPSK	36	39	18.28	18.07	17.99				
15	QPSK	75	0	18.24	18.17	18.11				
15	16QAM	1	0	18.05	18.06	17.98				
15	16QAM	1	37	18.19	18.20	18.07	19.6	0		
15	16QAM	1	74	18.10	17.96	17.94				
15	16QAM	36	0	18.13	18.01	17.89				
15	16QAM	36	20	18.02	17.96	17.91	19.6	0		
15	16QAM	36	39	17.96	17.91	17.86				
15	16QAM	75	0	17.97	17.94	17.93				
15	64QAM	1	0	18.11	18.08	18.02				
15	64QAM	1	37	18.10	17.91	17.81	19.6	0		
15	64QAM	1	74	17.88	17.84	17.81				
15	64QAM	36	0	18.04	18.03	17.84				
15	64QAM	36	20	18.07	17.95	17.85	19.6	0		
15	64QAM	36	39	17.95	17.99	17.80				
15	64QAM	75	0	18.01	17.90	17.80				
Channel				2600	2630	2650				
Frequency (MHz)				1855	1880	1910	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	0	18.55	18.49	18.34				
10	QPSK	1	25	18.50	18.50	18.23	19.6	0		
10	QPSK	1	49	18.47	18.41	18.15				
10	QPSK	25	0	18.25	18.19	18.08				
10	QPSK	25	25	18.21	18.20	18.07	19.6	0		
10	QPSK	25	25	18.18	18.07	17.98				
10	QPSK	50	0	18.32	18.17	18.09				
10	16QAM	1	0	18.25	18.11	18.00				
10	16QAM	1	25	18.19	18.19	18.05	19.6	0		
10	16QAM	1	49	18.07	18.05	17.89				
10	16QAM	25	0	18.03	18.02	17.83				
10	16QAM	25	12	18.03	17.98	17.91	19.6	0		
10	16QAM	25	25	18.00	17.82	17.80				
10	16QAM	50	0	18.06	17.95	17.82				
10	64QAM	1	0	18.04	18.01	18.01				
10	64QAM	1	25	18.12	17.97	17.87	19.6	0		
10	64QAM	1	49	17.95	17.84	17.73				
10	64QAM	25	0	18.01	17.97	17.87				
10	64QAM	25	12	18.03	17.98	17.85	19.6	0		
10	64QAM	25	25	18.03	17.97	17.86				
10	64QAM	50	0	18.01	17.91	17.89				
Channel				2605	2630	2665				
Frequency (MHz)				1852.5	1880	1912.5	Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	0	18.54	18.57	18.34				
5	QPSK	1	12	18.43	18.45	18.31	19.6	0		
5	QPSK	1	24	18.50	18.42	18.15				
5	QPSK	12	0	18.33	18.24	18.05				
5	QPSK	12	7	18.30	18.09	18.13	19.6	0		
5	QPSK	12	13	18.22	18.11	18.06				
5	QPSK	25	0	18.23	18.18	18.05				
5	16QAM	1	0	18.28	18.13	18.00				
5	16QAM	1	12	18.14	18.21	17.96	19.6	0		
5	16QAM	1	24	18.11	17.96	17.88				
5	16QAM	12	0	18.05	17.92	17.82				
5	16QAM	12	7	18.05	17.82	17.84	19.6	0		
5	16QAM	12	13	18.01	17.82	17.79				
5	16QAM	25	0	18.01	17.89	17.83				
5	64QAM	1	0	18.10	18.02	18.03				
5	64QAM	1	12	18.15	17.95	17.80	19.6	0		
5	64QAM	1	24	17.97	17.88	17.83				
5	64QAM	12	0	18.02	17.97	17.83				
5	64QAM	12	7	18.13	17.96	17.83	19.6	0		
5	64QAM	12	13	18.06	17.91	17.76				
5	64QAM	25	0	17.99	17.90	17.84				
Channel				2605	2630	2667.5				
Frequency (MHz)				1851.5	1880	1913.5	Tune-up limit (dBm)	MPR (dB)		
3	QPSK	1	0	18.59	18.54	18.31				
3	QPSK	1	8	18.41	18.43	18.31	19.6	0		
3	QPSK	1	14	18.43	18.32	18.14				
3	QPSK	8	0	18.28	18.18	18.11				
3	QPSK	8	4	18.25	18.16	18.04	19.6	0		
3	QPSK	8	7	18.22	18.12	18.07				
3	QPSK	15	0	18.21	18.13	18.13				
3	16QAM	1	0	18.32	18.05	18.03				
3	16QAM	1	8	18.19	18.21	18.06	19.6	0		
3	16QAM	1	14	18.02	18.00	17.85				
3	16QAM	8	0	18.02	17.97	17.86				
3	16QAM	8	4	18.01	17.98	17.86	19.6	0		
3	16QAM	8	7	17.93	17.93	17.79				
3	16QAM	15	0	18.03	17.92	17.88				
3	64QAM	1	0	18.12	18.09	18.05				
3	64QAM	1	8	18.13	17.94	17.83	19.6	0		
3	64QAM	1	14	17.94	17.83	17.75				
3	64QAM	8	0	18.07	17.95	17.92				
3	64QAM	8	4	18.11	17.93	17.89	19.6	0		
3	64QAM	8	7	18.02	17.98	17.79				
3	64QAM	15	0	18.02	17.92	17.82				
Channel				2607	2630	2668.3				
Frequency (MHz)				1850.7	1880	1914.3	Tune-up limit (dBm)	MPR (dB)		
1.4	QPSK	1	0	18.51	18.53	18.29				
1.4	QPSK	1	4	18.50	18.48	18.28	19.6	0		
1.4	QPSK	1	5	18.30	18.32	18.25				
1.4	QPSK	3	0	18.29	18.20	18.05				
1.4	QPSK	3	1	18.21	18.09	18.11	19.6	0		
1.4	QPSK	3	3	18.23	18.11	18.05				
1.4	QPSK	6	0	18.32	18.13	18.14				
1.4	16QAM	1	0	18.21	18.13	18.07				
1.4	16QAM	1	3	18.14	18.10	18.01	19.6	0		
1.4	16QAM	1	5	18.08	18.06	17.86				
1.4	16QAM	3	0	18.03	17.99	17.81				
1.4	16QAM	3	1	17.99	17.96	17.82				
1.4	16QAM	3	3	17.93	17.83	17.87	19.6	0		
1.4	16QAM	6	0	18.03	17.97	17.86				
1.4	64QAM	1	0	18.05	18.05	18.03				
1.4	64QAM	1	3	18.09	17.97	17.80	19.6	0		
1.4	64QAM	1	5	17.98	17.86	17.83				
1.4	64QAM	3	0	18.05	17.94	17.82				
1.4	64QAM	3	1	18.11	17.94	17.87	19.6	0		
1.4	64QAM	3	3	18.06	17.90	17.78				
1.4	64QAM	6	0	18.02	17.97	17.86				

Band 30										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				2710	2770	2775				
Frequency (MHz)				2305	2310	2315				
10	QPSK	1	0		20.35					
10	QPSK	1	25		20.40		21.9	0		
10	QPSK	1	49		20.25					
10	QPSK	25	0		20.29					
10	QPSK	25	12		20.35		21.9	0		
10	QPSK	25	25		20.22					
10	QPSK	50	0		20.27					
10	16QAM	1	0		20.32					
10	16QAM	1	25		20.35		21.9	0		
10	16QAM	1	49		20.39					
10	16QAM	25	0		20.06					
10	16QAM	25	12		20.					



Band 41 (2.6G Band)-HPUE										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	24.55	24.79	24.78	24.94	25.05	25.6	0
20	QPSK	1	49	24.53	24.84	24.77	24.95	24.93		
20	QPSK	1	99	24.59	24.93	24.91	25.38	25.07	25.6	0
20	QPSK	50	0	24.68	24.95	24.98	25.22	25.19		
20	QPSK	50	24	24.77	25.10	24.93	25.22	25.21	25.6	0
20	QPSK	50	50	24.78	25.14	25.02	25.25	25.24		
20	QPSK	100	0	24.73	25.08	24.98	25.20	25.19	25.6	0
20	16QAM	1	0	24.48	24.61	24.67	24.80	24.83		
20	16QAM	1	49	24.43	24.60	24.65	24.47	24.49	25.6	0
20	16QAM	1	99	24.42	24.73	24.74	24.64	24.60		
20	16QAM	50	0	23.32	23.48	23.51	23.40	23.33	25	0.6
20	16QAM	50	24	23.35	23.54	23.53	23.46	23.37		
20	16QAM	50	50	23.34	23.51	23.57	23.31	23.44	25	0.6
20	16QAM	190	0	23.33	23.62	23.43	23.45	23.32		
20	64QAM	1	0	24.27	24.41	24.60	24.41	24.40	25	0.6
20	64QAM	1	49	24.34	24.45	24.42	24.32	24.51		
20	64QAM	1	99	24.34	24.50	24.53	24.35	24.44	24	1.6
20	64QAM	50	0	23.16	23.43	23.39	23.37	23.23		
20	64QAM	50	24	23.29	23.50	23.38	23.35	23.30	24	1.6
20	64QAM	50	50	23.24	23.47	23.59	23.29	23.32		
20	64QAM	100	0	23.38	23.64	23.53	23.47	23.35		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2546.3	2593	2637.8	2682.5		
15	QPSK	1	0	24.53	24.74	24.77	24.94	25.02	25.6	0
15	QPSK	1	37	24.45	24.75	24.74	24.87	24.83		
15	QPSK	1	74	24.56	24.90	24.86	25.29	25.08	25.6	0
15	QPSK	36	0	24.65	24.88	24.89	25.14	25.20		
15	QPSK	36	20	24.74	25.05	24.93	25.17	25.14	25.6	0
15	QPSK	36	39	24.76	25.11	24.99	25.25	25.19		
15	QPSK	75	0	24.67	25.03	24.99	25.21	25.17	25.6	0
15	16QAM	1	0	24.45	24.63	24.71	24.65	24.63		
15	16QAM	1	37	24.40	24.63	24.61	24.40	24.48	25.6	0
15	16QAM	1	74	24.46	24.68	24.75	24.62	24.60		
15	16QAM	36	0	23.27	23.44	23.42	23.38	23.35	25	0.6
15	16QAM	36	20	23.33	23.58	23.45	23.41	23.36		
15	16QAM	36	39	23.39	23.58	23.62	23.40	23.44	25	0.6
15	16QAM	75	0	23.42	23.62	23.41	23.37	23.34		
15	64QAM	1	0	24.26	24.49	24.54	24.40	24.31	25	0.6
15	64QAM	1	37	24.27	24.53	24.47	24.39	24.41		
15	64QAM	1	74	24.37	24.56	24.60	24.33	24.45	24	1.6
15	64QAM	36	0	23.21	23.42	23.44	23.38	23.23		
15	64QAM	36	20	23.37	23.46	23.42	23.35	23.36	24	1.6
15	64QAM	36	39	23.25	23.47	23.48	23.29	23.38		
15	64QAM	75	0	23.37	23.67	23.52	23.45	23.33		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	24.44	24.69	24.72	24.85	25.00	25.6	0
10	QPSK	1	25	24.47	24.77	24.75	24.88	24.90		
10	QPSK	1	49	24.59	24.93	24.92	25.25	24.99	25.6	0
10	QPSK	25	0	24.60	24.85	24.90	25.14	25.15		
10	QPSK	25	12	24.69	25.00	24.84	25.15	25.13	25.6	0
10	QPSK	25	25	24.71	25.11	24.97	25.15	25.20		
10	QPSK	50	0	24.70	25.02	24.99	25.14	25.16	25.6	0
10	16QAM	1	0	24.44	24.65	24.66	24.62	24.57		
10	16QAM	1	25	24.48	24.66	24.61	24.44	24.49	25.6	0
10	16QAM	1	49	24.44	24.70	24.70	24.56	24.61		
10	16QAM	25	0	23.23	23.49	23.48	23.40	23.25	25	0.6
10	16QAM	25	12	23.34	23.51	23.53	23.39	23.34		
10	16QAM	25	25	23.42	23.51	23.57	23.33	23.38	25	0.6
10	16QAM	50	0	23.43	23.55	23.46	23.41	23.33		
10	64QAM	1	0	24.31	24.48	24.53	24.42	24.40	25	0.6
10	64QAM	1	25	24.25	24.46	24.45	24.29	24.45		
10	64QAM	1	49	24.32	24.53	24.52	24.40	24.47	24	1.6
10	64QAM	25	0	23.22	23.47	23.40	23.39	23.29		
10	64QAM	25	12	23.37	23.56	23.47	23.35	23.31	24	1.6
10	64QAM	25	25	23.27	23.57	23.56	23.25	23.32		
10	64QAM	50	0	23.43	23.66	23.54	23.41	23.43		
Channel				39675	40148	40620	41093	41555		
Frequency (MHz)				2498.5	2545.8	2593	2640.0	2687.2		
5	QPSK	1	0	24.52	24.70	24.74	24.87	24.96	25.6	0
5	QPSK	1	12	24.44	24.74	24.75	24.85	24.92		
5	QPSK	1	24	24.50	24.82	24.83	25.28	25.00	25.6	0
5	QPSK	12	0	24.65	24.91	24.92	25.22	25.13		
5	QPSK	12	7	24.68	25.11	24.94	25.16	25.21	25.6	0
5	QPSK	12	13	24.74	25.05	24.92	25.24	25.25		
5	QPSK	25	0	24.69	25.00	24.99	25.10	25.13	25.6	0
5	16QAM	1	0	24.53	24.59	24.74	24.66	24.55		
5	16QAM	1	12	24.46	24.64	24.89	24.42	24.49	25.6	0
5	16QAM	1	24	24.50	24.74	24.73	24.55	24.52		
5	16QAM	12	0	23.31	23.53	23.44	23.39	23.36	25	0.6
5	16QAM	12	7	23.39	23.49	23.52	23.38	23.31		
5	16QAM	12	13	23.43	23.51	23.56	23.32	23.41	25	0.6
5	16QAM	25	0	23.40	23.58	23.51	23.40	23.39		
5	64QAM	1	0	24.32	24.48	24.59	24.39	24.41	25	0.6
5	64QAM	1	12	24.28	24.46	24.51	24.29	24.51		
5	64QAM	1	24	24.39	24.49	24.51	24.41	24.49	24	1.6
5	64QAM	12	0	23.17	23.39	23.45	23.36	23.29		
5	64QAM	12	7	23.30	23.49	23.47	23.35	23.29	24	1.6
5	64QAM	12	13	23.29	23.53	23.48	23.32	23.33		
5	64QAM	25	0	23.40	23.61	23.49	23.49	23.33		



Band 2 (1900MHz Band) Part 24E (DS14)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. (MHz)	Power Middle Ch./Freq. (MHz)	Power High Ch./Freq. (MHz)	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.51	22.51	22.51	24	0		
20	QPSK	1	49	22.52	22.43	22.32	24	0		
20	QPSK	1	99	22.40	22.28	22.24	24	0		
20	QPSK	50	0	21.65	21.61	21.46	23	1		
20	QPSK	50	24	21.61	21.57	21.46	23	1		
20	QPSK	50	50	21.57	21.47	21.42	23	1		
20	QPSK	100	0	20.80	20.76	20.68	22	2		
20	16QAM	1	0	21.87	21.79	21.63	23	1		
20	16QAM	1	49	21.82	21.78	21.59	23	1		
20	16QAM	1	99	21.69	21.63	21.45	23	1		
20	16QAM	50	0	20.65	20.62	20.48	22	2		
20	16QAM	50	24	20.64	20.58	20.47	22	2		
20	16QAM	50	50	20.57	20.50	20.43	22	2		
20	16QAM	100	0	20.64	20.57	20.47	22	2		
20	64QAM	1	0	20.83	20.81	20.66	22	2		
20	64QAM	1	49	20.78	20.69	20.51	22	2		
20	64QAM	1	99	20.60	20.58	20.54	21	3		
20	64QAM	50	0	19.70	19.63	19.51	21	3		
20	64QAM	50	24	19.64	19.56	19.49	21	3		
20	64QAM	50	50	19.58	19.49	19.40	21	3		
20	64QAM	100	0	19.62	19.54	19.46	21	3		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.50	22.38	22.25	24	0		
15	QPSK	1	37	22.43	22.31	22.22	24	0		
15	QPSK	1	74	22.41	22.26	22.15	24	0		
15	QPSK	36	0	21.63	21.50	21.41	23	1		
15	QPSK	36	20	21.54	21.44	21.37	23	1		
15	QPSK	36	39	21.48	21.37	21.33	23	1		
15	QPSK	75	0	21.57	21.46	21.36	23	1		
15	16QAM	1	0	21.83	21.84	21.55	23	1		
15	16QAM	1	37	21.77	21.77	21.44	23	1		
15	16QAM	1	74	21.65	21.56	21.40	23	1		
15	16QAM	36	0	20.60	20.47	20.35	22	2		
15	16QAM	36	20	20.56	20.43	20.33	22	2		
15	16QAM	36	39	20.50	20.38	20.29	22	2		
15	16QAM	75	0	20.55	20.45	20.36	22	2		
15	64QAM	1	0	20.79	20.58	20.42	22	2		
15	64QAM	1	37	20.74	20.57	20.42	22	2		
15	64QAM	1	74	20.59	20.44	20.39	22	2		
15	64QAM	36	0	19.61	19.52	19.38	21	3		
15	64QAM	36	20	19.54	19.45	19.36	21	3		
15	64QAM	36	39	19.50	19.43	19.33	21	3		
15	64QAM	75	0	19.54	19.45	19.36	21	3		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.57	22.53	22.47	24	0		
10	QPSK	1	25	22.41	22.46	22.38	24	0		
10	QPSK	1	49	22.38	22.40	22.26	24	0		
10	QPSK	25	0	21.65	21.68	21.57	23	1		
10	QPSK	25	12	21.54	21.64	21.57	23	1		
10	QPSK	25	25	21.44	21.59	21.48	23	1		
10	QPSK	50	0	21.58	21.60	21.49	23	1		
10	16QAM	1	0	22.00	21.88	21.68	23	1		
10	16QAM	1	25	21.86	21.76	21.59	23	1		
10	16QAM	1	49	21.75	21.62	21.57	23	1		
10	16QAM	25	0	20.77	20.72	20.58	22	2		
10	16QAM	25	12	20.74	20.67	20.57	22	2		
10	16QAM	25	25	20.63	20.56	20.46	22	2		
10	16QAM	50	0	20.73	20.64	20.53	22	2		
10	64QAM	1	0	20.88	20.83	20.71	22	2		
10	64QAM	1	25	20.70	20.72	20.52	22	2		
10	64QAM	1	49	20.59	20.67	20.55	22	2		
10	64QAM	25	0	19.71	19.71	19.61	21	3		
10	64QAM	25	12	19.67	19.60	19.50	21	3		
10	64QAM	25	25	19.67	19.57	19.49	21	3		
10	64QAM	50	0	19.68	19.63	19.49	21	3		
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.58	22.45	22.25	24	0		
5	QPSK	1	12	22.49	22.36	22.26	24	0		
5	QPSK	1	24	22.43	22.35	22.13	24	0		
5	QPSK	12	0	21.65	21.53	21.41	23	1		
5	QPSK	12	7	21.61	21.49	21.36	23	1		
5	QPSK	12	13	21.51	21.43	21.27	23	1		
5	QPSK	25	0	21.58	21.46	21.31	23	1		
5	16QAM	1	0	21.87	21.74	21.64	23	1		
5	16QAM	1	12	21.84	21.86	21.63	23	1		
5	16QAM	1	24	21.71	21.59	21.46	23	1		
5	16QAM	12	0	20.67	20.56	20.42	22	2		
5	16QAM	12	7	20.64	20.49	20.40	22	2		
5	16QAM	12	13	20.55	20.44	20.29	22	2		
5	16QAM	25	0	20.63	20.53	20.38	22	2		
5	16QAM	1	0	20.78	20.66	20.61	22	2		
5	64QAM	1	12	20.60	20.63	20.57	22	2		
5	64QAM	1	24	20.71	20.62	20.43	22	2		
5	64QAM	12	0	19.70	19.59	19.48	21	3		
5	64QAM	12	7	19.68	19.58	19.44	21	3		
5	64QAM	12	13	19.55	19.46	19.33	21	3		
5	64QAM	25	0	19.61	19.49	19.39	21	3		
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.60	22.42	22.28	24	0		
3	QPSK	1	8	22.49	22.41	22.23	24	0		
3	QPSK	1	14	22.39	22.25	22.13	24	0		
3	QPSK	8	0	21.63	21.48	21.38	23	1		
3	QPSK	8	4	21.62	21.49	21.33	23	1		
3	QPSK	8	7	21.50	21.43	21.28	23	1		
3	QPSK	15	0	21.56	21.46	21.33	23	1		
3	16QAM	1	0	21.88	21.79	21.71	23	1		
3	16QAM	1	8	21.87	21.72	21.64	23	1		
3	16QAM	1	14	21.66	21.63	21.51	23	1		
3	16QAM	8	0	20.71	20.60	20.44	22	2		
3	16QAM	8	4	20.65	20.56	20.43	22	2		
3	16QAM	8	7	20.57	20.48	20.31	22	2		
3	16QAM	15	0	20.60	20.53	20.31	22	2		
3	64QAM	1	0	20.84	20.70	20.69	22	2		
3	64QAM	1	8	20.85	20.62	20.62	22	2		
3	64QAM	1	14	20.67	20.49	20.48	22	2		
3	64QAM	8	0	19.66	19.55	19.42	21	3		
3	64QAM	8	4	19.65	19.55	19.40	21	3		
3	64QAM	8	7	19.55	19.47	19.33	21	3		
3	64QAM	15	0	19.59	19.51	19.39	21	3		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.50	22.39	22.30	24	0		
1.4	QPSK	1	3	22.54	22.38	22.30	24	0		
1.4	QPSK	3	0	22.43	22.39	22.21	24	0		
1.4	QPSK	3	0	22.56	22.45	22.29	24	0		
1.4	QPSK	3	1	22.57	22.44	22.30	24	0		
1.4	QPSK	3	3	22.51	22.38	22.23	24	0		
1.4	QPSK	6	0	21.63	21.46	21.36	23	1		
1.4	16QAM	1	0	21.95	21.73	21.62	23	1		
1.4	16QAM	1	3	21.89	21.69	21.72	23	1		
1.4	16QAM	1	5	21.85	21.62	21.53	23	1		
1.4	16QAM	3	0	21.64	21.50	21.42	23	1		
1.4	16QAM	3	1	21.63	21.52	21.41	23	1		
1.4	16QAM	3	3	21.57	21.42	21.39	23	1		
1.4	16QAM	6	0	20.71	20.56	20.40	22	2		
1.4	64QAM	1	0	20.75	20.69	20.52	22	2		
1.4	64QAM	1	3	20.77	20.61	20.51	22	2		
1.4	64QAM	1	5	20.67	20.54	20.42	22	2		
1.4	64QAM	3	0	20.83	20.67	20.62	22	2		
1.4	64QAM	3	1	20.82	20.67	20.58	22	2		
1.4	64QAM	3	3	20.72	20.61	20.52	22	2		
1.4										



Band 12 (700MHz Low Band) Part 27F (only on channel required) (DS13,DS14,DS16)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				703	707.5	711			
Frequency (MHz)				703	707.5	711			
10	QPSK	1	0	22.82	22.84	22.58	24	0	
10	QPSK	1	25	22.83	22.66	22.61			
10	QPSK	1	49	22.70	22.71	22.65			
10	QPSK	25	0	21.85	21.86	21.82			
10	QPSK	25	12	21.95	21.97	21.93			
10	QPSK	25	25	21.95	21.99	21.90	23	1	
10	QPSK	50	0	21.93	21.98	21.87			
10	16QAM	1	0	22.11	22.11	22.33			
10	16QAM	1	25	22.10	22.08	22.25	23	1	
10	16QAM	1	49	22.16	22.15	22.24			
10	16QAM	25	0	20.87	20.88	20.90			
10	16QAM	25	12	20.98	20.95	21.01			
10	16QAM	25	25	20.97	21.02	20.97	22	2	
10	16QAM	50	0	20.95	20.91	20.88			
10	64QAM	1	0	20.99	21.04	21.01			
10	64QAM	1	25	21.00	21.04	20.99	22	2	
10	64QAM	1	49	21.03	21.13	21.04			
10	64QAM	25	0	19.90	19.93	19.94			
10	64QAM	25	12	20.01	19.94	20.04			
10	64QAM	25	25	20.02	20.01	20.03	21	3	
10	64QAM	50	0	19.98	19.90	19.97			
Channel				23055	23095	23155			
Frequency (MHz)				23055	23095	23155			
5	QPSK	1	0	22.54	22.53	22.58	24	0	
5	QPSK	1	12	22.58	22.62	22.61			
5	QPSK	1	24	22.84	22.86	22.80			
5	QPSK	12	0	21.88	21.90	21.84			
5	QPSK	12	7	21.92	21.90	21.89	23	1	
5	QPSK	12	13	21.89	21.93	21.93			
5	QPSK	25	0	21.89	21.86	21.83			
5	16QAM	1	0	22.06	22.10	22.12	23	1	
5	16QAM	1	12	22.09	22.19	22.11			
5	16QAM	1	24	22.18	22.21	22.13			
5	16QAM	12	0	20.94	20.90	20.89			
5	16QAM	12	7	20.91	20.90	20.89	22	2	
5	16QAM	12	13	20.89	20.93	20.93			
5	16QAM	25	0	20.83	20.92	20.88			
5	64QAM	1	0	20.97	20.99	21.04			
5	64QAM	1	12	21.05	21.16	21.05	22	2	
5	64QAM	1	24	21.10	21.11	21.06			
5	64QAM	12	0	19.97	19.94	19.90			
5	64QAM	12	7	20.00	19.95	19.94	21	3	
5	64QAM	12	13	19.95	19.97	19.92			
5	64QAM	25	0	19.91	19.92	19.89			
Channel				701.5	707.5	714.5			
Frequency (MHz)				701.5	707.5	714.5			
3	QPSK	1	0	22.85	22.80	22.56	24	0	
3	QPSK	1	8	22.64	22.68	22.64			
3	QPSK	1	14	22.58	22.61	22.58			
3	QPSK	8	0	21.92	21.87	21.85			
3	QPSK	8	4	21.90	21.87	21.91	23	1	
3	QPSK	8	7	21.88	21.92	21.87			
3	QPSK	15	0	21.88	21.86	21.83			
3	16QAM	1	0	22.14	22.13	22.06			
3	16QAM	1	8	22.17	22.23	22.11	23	1	
3	16QAM	1	14	22.11	22.13	22.06			
3	16QAM	8	0	20.97	20.95	20.88			
3	16QAM	8	4	20.97	20.96	20.96	22	2	
3	16QAM	8	7	20.89	20.95	20.87			
3	16QAM	15	0	20.91	20.88	20.84			
3	64QAM	1	0	21.04	21.08	20.99			
3	64QAM	1	8	21.12	21.20	21.04	22	2	
3	64QAM	1	14	21.07	21.07	21.02			
3	64QAM	8	0	19.97	19.94	19.91			
3	64QAM	8	4	19.98	19.94	19.97	21	3	
3	64QAM	8	7	19.94	19.94	19.90			
3	64QAM	15	0	19.95	19.90	19.87			
Channel				23017	23095	23173			
Frequency (MHz)				23017	23095	23173			
1.4	QPSK	1	0	22.52	22.53	22.54	24	0	
1.4	QPSK	1	3	22.57	22.61	22.52			
1.4	QPSK	1	5	22.47	22.51	22.45			
1.4	QPSK	3	0	22.57	22.54	22.55			
1.4	QPSK	3	1	22.62	22.59	22.56			
1.4	QPSK	3	3	22.57	22.57	22.54			
1.4	QPSK	6	0	21.83	21.78	21.78	23	1	
1.4	16QAM	1	0	22.09	22.02	22.04			
1.4	16QAM	1	3	22.07	22.11	22.05			
1.4	16QAM	1	5	22.02	22.04	21.96	23	1	
1.4	16QAM	3	0	21.84	21.83	21.77			
1.4	16QAM	3	1	21.88	21.85	21.80			
1.4	16QAM	3	3	21.79	21.83	21.73			
1.4	16QAM	6	0	20.86	20.87	20.85	22	2	
1.4	64QAM	1	0	20.95	20.97	20.95			
1.4	64QAM	1	3	21.02	21.01	20.97			
1.4	64QAM	1	5	20.93	20.94	20.86	22	2	
1.4	64QAM	3	0	20.99	20.96	20.99			
1.4	64QAM	3	1	21.07	21.04	20.99			
1.4	64QAM	3	3	20.97	21.01	20.91			
1.4	64QAM	6	0	19.85	19.83	19.84	21	3	

Band 13(700MHz Band) Part 27F (DS13,DS13_Sim-Tx,DS14,DS16)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				762	782	784.5			
Frequency (MHz)				762	782	784.5			
10	QPSK	1	0	23.42			24	0	
10	QPSK	1	25	23.67					
10	QPSK	1	49	23.91					
10	QPSK	25	0	22.52					
10	QPSK	25	12	22.71			23	1	
10	QPSK	25	25	22.87					
10	QPSK	50	0	22.68					
10	16QAM	1	0	22.62					
10	16QAM	1	25	22.88			23	1	
10	16QAM	1	49	22.91					
10	16QAM	25	0	21.61					
10	16QAM	25	12	21.79					
10	16QAM	25	25	21.89			22	2	
10	16QAM	50	0	21.71					
10	64QAM	1	0	21.52					
10	64QAM	1	25	21.95			22	2	
10	64QAM	1	49	21.99					
10	64QAM	25	0	20.58					
10	64QAM	25	12	20.76					
10	64QAM	25	25	20.91			21	3	
10	64QAM	50	0	20.82					
Channel				23205	23230	23255			
Frequency (MHz)				23205	23230	23255			
5	QPSK	1	0	23.41	23.45	23.65	24	0	
5	QPSK	1	12	23.47	23.75	23.77			
5	QPSK	1	24	23.72	23.85	23.87			
5	QPSK	12	0	22.32	22.50	22.65			
5	QPSK	12	7	22.47	22.64	22.75	23	1	
5	QPSK	12	13	22.58	22.72	22.80			
5	QPSK	25	0	22.55	22.56	22.72			
5	16QAM	1	0	22.53	22.64	22.94	23	1	
5	16QAM	1	12	22.66	22.80	22.94			
5	16QAM	1	24	22.94	22.98	22.92			
5	16QAM	12	0	21.35	21.52	21.65			
5	16QAM	12	7	21.52	21.64	21.77	22	2	
5	16QAM	12	13	21.59	21.75	21.79			
5	16QAM	25	0	21.46	21.61	21.73			
5	64QAM	1	0	21.41	21.54	21.68			
5	64QAM	1	12	21.61	21.72	21.87	22	2	
5	64QAM	1	24	21.63	21.81	21.81			
5	64QAM	12	0	20.43	20.54	20.66			
5	64QAM	12	7	20.60	20.68	20.83	21	3	
5	64QAM	12	13	20.63	20.82	20.91			
5	64QAM	25	0	20.56	20.84	20.72			

Band 14 (700MHz Band) (DS13,DS14,DS16)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				793	793	793			



Band 17 (700MHz Band) Part 27H(only on channel required) (DS13,DS14,DS16)									
BW [MHz]	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	22.71	22.60	22.68	24	0	
10	QPSK	1	25	22.68	22.59	22.66			
10	QPSK	1	49	22.69	22.61	22.63			
10	QPSK	25	0	21.90	21.83	21.87			
10	QPSK	25	12	22.04	21.92	22.00	23	1	
10	QPSK	25	25	21.97	21.89	21.92			
10	QPSK	50	0	21.97	21.88	21.96			
10	16QAM	1	0	22.21	22.06	22.13			
10	16QAM	1	25	22.16	22.10	22.01	23	1	
10	16QAM	1	49	22.19	22.14	22.07			
10	16QAM	25	0	20.90	20.93	20.93			
10	16QAM	25	12	21.07	20.96	21.03			
10	16QAM	25	25	20.99	20.99	20.94	22	2	
10	16QAM	50	0	20.97	20.89	20.88			
10	64QAM	1	0	21.01	20.99	21.06			
10	64QAM	1	25	20.99	20.96	20.95	22	2	
10	64QAM	1	49	21.15	21.06	21.10			
10	64QAM	25	0	19.95	19.97	19.96			
10	64QAM	25	12	20.06	19.97	20.04			
10	64QAM	25	25	20.00	19.97	19.95	21	3	
10	64QAM	50	0	19.98	19.90	19.83			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.70	22.69	22.65	24	0	
5	QPSK	1	12	22.63	22.62	22.57			
5	QPSK	1	24	22.63	22.61	22.55			
5	QPSK	12	0	22.00	21.96	21.97			
5	QPSK	12	7	22.01	21.92	21.88	23	1	
5	QPSK	12	13	21.90	21.90	21.83			
5	QPSK	25	0	22.00	21.88	21.83			
5	16QAM	1	0	22.19	22.20	22.13	23	1	
5	16QAM	1	12	22.16	22.15	22.11			
5	16QAM	1	24	22.16	22.13	22.11			
5	16QAM	12	0	21.05	20.95	20.94			
5	16QAM	12	7	21.02	20.92	20.88	22	2	
5	16QAM	12	13	20.93	20.94	20.88			
5	16QAM	25	0	20.99	20.93	20.89			
5	64QAM	1	0	21.16	21.11	21.10			
5	64QAM	1	12	21.10	21.05	21.07	22	2	
5	64QAM	1	24	21.05	21.01	21.07			
5	64QAM	12	0	20.10	20.00	19.94			
5	64QAM	12	7	20.05	19.97	19.92	21	3	
5	64QAM	12	13	20.02	19.93	19.91			
5	64QAM	25	0	20.03	19.93	19.89			

Band 25 (1900MHz Band) Part 24E (DS14)									
BW [MHz]	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	22.49	22.46	22.24	24	0	
20	QPSK	1	49	22.41	22.38	22.20			
20	QPSK	1	99	22.29	22.26	22.10			
20	QPSK	50	0	21.56	21.53	21.37			
20	QPSK	50	24	21.53	21.51	21.37	23	1	
20	QPSK	50	50	21.46	21.36	21.33			
20	QPSK	100	0	21.45	21.43	21.35			
20	16QAM	1	0	21.65	21.88	21.47			
20	16QAM	1	49	21.58	21.82	21.51	23	1	
20	16QAM	1	99	21.43	21.61	21.46			
20	16QAM	50	0	20.53	20.55	20.39			
20	16QAM	50	24	20.52	20.58	20.37	22	2	
20	16QAM	50	50	20.46	20.44	20.37			
20	16QAM	100	0	20.48	20.45	20.37			
20	64QAM	1	0	20.69	20.64	20.39			
20	64QAM	1	49	20.57	20.51	20.44	22	2	
20	64QAM	1	99	20.48	20.37	20.38			
20	64QAM	50	0	19.58	19.57	19.43			
20	64QAM	50	24	19.56	19.53	19.40			
20	64QAM	50	50	19.47	19.40	19.35	21	3	
20	64QAM	100	0	19.49	19.46	19.38			
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.35	22.33	22.18	24	0	
15	QPSK	1	37	22.35	22.32	22.08			
15	QPSK	1	74	22.27	22.20	22.07			
15	QPSK	36	0	21.48	21.44	21.27			
15	QPSK	36	20	21.45	21.42	21.27	23	1	
15	QPSK	36	39	21.42	21.38	21.25			
15	QPSK	75	0	21.44	21.43	21.29			
15	16QAM	1	0	21.79	21.68	21.50	23	1	
15	16QAM	1	37	21.68	21.62	21.46			
15	16QAM	1	74	21.66	21.47	21.36			
15	16QAM	36	0	20.50	20.44	20.29			
15	16QAM	36	20	20.50	20.44	20.28	22	2	
15	16QAM	36	39	20.42	20.42	20.24			
15	16QAM	75	0	20.46	20.46	20.29			
15	64QAM	1	0	20.57	20.54	20.50	22	2	
15	64QAM	1	37	20.47	20.45	20.29			
15	64QAM	1	74	20.52	20.40	20.30	22	2	
15	64QAM	1	111	20.52	20.40	20.30			
15	64QAM	36	0	19.52	19.50	19.33			
15	64QAM	36	20	19.49	19.51	19.30	21	3	
15	64QAM	36	39	19.45	19.43	19.27			
15	64QAM	75	0	19.43	19.46	19.29			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.37	22.40	22.18	24	0	
10	QPSK	1	25	22.37	22.34	22.09			
10	QPSK	1	49	22.35	22.38	22.14			
10	QPSK	25	0	21.56	21.53	21.33			
10	QPSK	25	12	21.53	21.51	21.33	23	1	
10	QPSK	25	25	21.51	21.48	21.28			
10	QPSK	50	0	21.53	21.49	21.28			
10	16QAM	1	0	21.74	21.73	21.53	23	1	
10	16QAM	1	25	21.68	21.56	21.40			
10	16QAM	1	49	21.65	21.69	21.40			
10	16QAM	25	0	20.57	20.53	20.34			
10	16QAM	25	12	20.56	20.56	20.33	22	2	
10	16QAM	25	25	20.50	20.50	20.33			
10	16QAM	50	0	20.55	20.50	20.30			
10	64QAM	1	0	20.70	20.58	20.44			
10	64QAM	1	25	20.59	20.50	20.36	22	2	
10	64QAM	1	49	20.53	20.47	20.41			
10	64QAM	25	0	19.60	19.57	19.36			
10	64QAM	25	12	19.61	19.65	19.38	21	3	
10	64QAM	25	25	19.58	19.55	19.34			
10	64QAM	50	0	19.59	19.53	19.35			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.40	22.37	22.12	24	0	
5	QPSK	1	12	22.40	22.28	22.09			
5	QPSK	1	24	22.43	22.35	22.05			
5	QPSK	12	0	21.49	21.47	21.27			
5	QPSK	12	7	21.49	21.46	21.24	23	1	
5	QPSK	12	13	21.48	21.44	21.21			
5	QPSK	25	0	21.50	21.43	21.22			
5	16QAM	1	0	21.76	21.78	21.48	23	1	
5	16QAM	1	12	21.72	21.68	21.36			
5	16QAM	1	24	21.76	21.70	21.43			
5	16QAM	12	0	20.53	20.46	20.28			
5	16QAM	12	7	20.53	20.47	20.26	22	2	
5	16QAM	12	13	20.54	20.46	20.26			
5	16QAM	25	0	20.52	20.45	20.20			
5	64QAM	1	0	20.65	20.62	20.34	22	2	
5	64QAM	1	12	20.56	20.53	20.31			
5	64QAM	1	24	20.57	20.60	20.36			
5	64QAM	12	0	19.55	19.50	19.30			
5	64QAM	12	7	19.56	19.52	19.31	21	3	
5	64QAM	12	13	19.56	19.50	19.30			
5	64QAM	25	0	19.53	19.44	19.28			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.47	22.46	22.18	24	0	
3	QPSK	1	8	22.45	22.42	22.20			
3	QPSK	1							



Band 30 (DS14)									
BW [MHz]	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	22.34			24	0	
10	QPSK	1	25						
10	QPSK	1	49	22.22					
10	QPSK	25	0	21.39					
10	QPSK	25	12	21.46			23	1	
10	QPSK	25	25	21.28					
10	QPSK	50	0	21.34					
10	16QAM	1	0	21.76			23	1	
10	16QAM	1	25	21.64					
10	16QAM	1	49	21.66					
10	16QAM	25	0	20.48					
10	16QAM	25	12	20.40			22	2	
10	16QAM	25	25	20.36					
10	16QAM	50	0	20.41					
10	64QAM	1	0	20.63					
10	64QAM	1	25	20.46			22	2	
10	64QAM	1	49	20.56					
10	64QAM	25	0	19.42					
10	64QAM	25	12	19.32			21	3	
10	64QAM	25	25	19.31					
10	64QAM	50	0	19.28					
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.26	22.30	22.28	24	0	
5	QPSK	1	12	22.27	22.29	22.28			
5	QPSK	1	24	22.26	22.19	22.20			
5	QPSK	12	0	21.47	21.48	21.44			
5	QPSK	12	7	21.47	21.43	21.48	23	1	
5	QPSK	12	13	21.39	21.37	21.39			
5	QPSK	25	0	21.45	21.32	21.40			
5	16QAM	1	0	21.80	21.75	21.61			
5	16QAM	1	12	21.77	21.68	21.59	23	1	
5	16QAM	1	24	21.70	21.57	21.49			
5	16QAM	12	0	20.49	20.48	20.46			
5	16QAM	12	7	20.54	20.45	20.50	22	2	
5	16QAM	12	13	20.45	20.40	20.37			
5	16QAM	25	0	20.48	20.41	20.32			
5	64QAM	1	0	20.74	20.65	20.57			
5	64QAM	1	12	20.63	20.54	20.51	22	2	
5	64QAM	1	24	20.61	20.56	20.46			
5	64QAM	12	0	19.40	19.37	19.42			
5	64QAM	12	7	19.44	19.35	19.44	21	3	
5	64QAM	12	13	19.35	19.30	19.28			
5	64QAM	25	0	19.35	19.30	19.27			

Band 66 (DS14)									
BW [MHz]	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	22.19	22.30	22.27	24	0	
20	QPSK	1	49	22.18	22.35	22.21			
20	QPSK	1	99	22.08	22.28	22.13			
20	QPSK	50	0	21.21	21.39	21.27			
20	QPSK	50	24	21.23	21.41	21.29	23	1	
20	QPSK	50	50	21.18	21.37	21.23			
20	QPSK	100	0	21.11	21.39	21.26			
20	16QAM	1	0	21.54	21.62	21.51			
20	16QAM	1	49	21.59	21.70	21.36	23	1	
20	16QAM	1	99	21.52	21.69	21.36			
20	16QAM	50	0	20.24	20.45	20.24			
20	16QAM	50	24	20.30	20.43	20.20	22	2	
20	16QAM	50	50	20.31	20.37	20.18			
20	16QAM	100	0	20.28	20.39	20.21			
20	64QAM	1	0	20.48	20.58	20.47			
20	64QAM	1	49	20.38	20.68	20.31	22	2	
20	64QAM	1	99	20.34	20.52	20.25			
20	64QAM	50	0	19.25	19.45	19.25			
20	64QAM	50	24	19.35	19.44	19.24	21	3	
20	64QAM	50	50	19.31	19.38	19.16			
20	64QAM	100	0	19.30	19.44	19.23			
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.13	22.28	22.10	24	0	
15	QPSK	1	37	22.08	22.29	22.06			
15	QPSK	1	74	22.07	22.18	22.03			
15	QPSK	36	0	21.12	21.33	21.13	23	1	
15	QPSK	36	20	21.20	21.32	21.11			
15	QPSK	36	39	21.18	21.24	21.04			
15	QPSK	75	0	21.17	21.33	21.10			
15	16QAM	1	0	21.40	21.57	21.37	23	1	
15	16QAM	1	37	21.49	21.60	21.28			
15	16QAM	1	74	21.42	21.54	21.28			
15	16QAM	36	0	20.10	20.34	20.13			
15	16QAM	36	20	20.19	20.36	20.11	22	2	
15	16QAM	36	39	20.19	20.28	20.08			
15	16QAM	75	0	20.20	20.30	20.09			
15	64QAM	1	0	20.19	20.49	20.35	22	2	
15	64QAM	1	37	20.30	20.51	20.29			
15	64QAM	1	74	20.22	20.33	20.03			
15	64QAM	36	0	19.18	19.38	19.16			
15	64QAM	36	20	19.24	19.36	19.17	21	3	
15	64QAM	36	39	19.22	19.31	19.12			
15	64QAM	75	0	19.23	19.32	19.13			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.12	22.31	22.05	24	0	
10	QPSK	1	25	22.07	22.28	22.00			
10	QPSK	1	49	22.03	22.24	22.05			
10	QPSK	25	0	21.20	21.31	21.07			
10	QPSK	25	12	21.19	21.32	21.06	23	1	
10	QPSK	25	25	21.16	21.23	21.03			
10	QPSK	50	0	21.20	21.32	21.04			
10	16QAM	1	0	21.41	21.61	21.25	23	1	
10	16QAM	1	25	21.42	21.58	21.19			
10	16QAM	1	49	21.36	21.52	21.22			
10	16QAM	25	0	20.21	20.34	20.08			
10	16QAM	25	12	20.25	20.36	20.10	22	2	
10	16QAM	25	25	20.23	20.24	20.05			
10	16QAM	50	0	20.23	20.31	20.10			
10	64QAM	1	0	20.34	20.40	20.26			
10	64QAM	1	25	20.34	20.45	20.09	22	2	
10	64QAM	1	49	20.30	20.44	20.20			
10	64QAM	25	0	19.25	19.40	19.14			
10	64QAM	25	12	19.24	19.39	19.13	21	3	
10	64QAM	25	25	19.21	19.33	19.07			
10	64QAM	50	0	19.24	19.31	19.11			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.15	22.23	22.18	24	0	
5	QPSK	1	12	22.09	22.32	22.04			
5	QPSK	1	24	22.07	22.25	22.11			
5	QPSK	12	0	21.16	21.35	21.06			
5	QPSK	12	7	21.15	21.30	21.03	23	1	
5	QPSK	12	13	21.17	21.28	21.02			
5	QPSK	25	0	21.18	21.31	21.02			
5	16QAM	1	0	21.43	21.58	21.29	23	1	
5	16QAM	1	12	21.38	21.58	21.21			
5	16QAM	1	24	21.45	21.52	21.28			
5	16QAM	12	0	20.21	20.34	20.04			
5	16QAM	12	7	20.21	20.31	20.08	22	2	
5	16QAM	12	13	20.16	20.30	20.06			
5	16QAM	25	0	20.16	20.33	20.04			
5	64QAM	1	0	20.36	20.50	20.27	22	2	
5	64QAM	1	12	20.34	20.55	20.20			
5	64QAM	1	24	20.31	20.49	20.16			
5	64QAM	12	0	19.24	19.38	19.10			
5	64QAM	12	7	19.29	19.39	19.13	21	3	
5	64QAM	12	13	19.22	19.35	19.09			
5	64QAM	25	0	19.17	19.34	19.02			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.07	22.22	22.04	24	0	
3	QPSK	1	8	22.09	22.33	22.00			
3	QPSK	1	14	22.02	22.29	22.01			
3	QPSK	8	0	21.14	21.38	21.00			
3	QPSK	8	4	21.16	21.41	21.04	23	1	
3	QPSK	8	7	21.10	21.38	21.09			
3	QPSK	15	0	21.13	21.35	21.08			
3	16QAM	1	0	21.42	21.55	21.24	23	1	
3	16QAM	1	8	21.43	21.63	21.31			



Band 48 (3.5G Band)-FCC (DS12,DS14)

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Low Middle Ch. / Freq.	High Middle Ch. / Freq.	High Ch. / Freq.		
Channel				55840	55830	56150	56640		
Frequency (MHz)				3600	3609	3641	3690		
20	QPSK	1	0	22.58	22.53	22.43	22.50	24	0
20	QPSK	1	49	22.52	22.51	22.40	22.49		
20	QPSK	1	99	22.50	22.49	22.36	22.47	23	1
20	QPSK	50	0	21.77	21.67	21.55	21.64		
20	QPSK	50	24	21.73	21.65	21.53	21.63	22	2
20	QPSK	50	50	21.67	21.62	21.51	21.60		
20	QPSK	100	0	21.66	21.63	21.53	21.60	21	3
20	16QAM	1	0	21.55	21.57	21.43	21.59		
20	16QAM	1	49	21.50	21.53	21.41	21.57	22	2
20	16QAM	1	99	21.34	21.54	21.52	21.60		
20	16QAM	50	0	20.52	20.59	20.56	20.67	21	3
20	16QAM	50	24	20.63	20.60	20.55	20.66		
20	16QAM	50	50	20.70	20.58	20.64	20.75	20	2
20	16QAM	100	0	20.72	20.61	20.56	20.66		
20	64QAM	1	0	20.68	20.55	20.36	20.54	22	2
20	64QAM	1	49	20.60	20.48	20.44	20.58		
20	64QAM	1	99	20.41	20.45	20.50	20.63	21	3
20	64QAM	50	0	19.76	19.70	19.55	19.68		
20	64QAM	50	24	19.73	19.61	19.54	19.64	20	2
20	64QAM	50	50	19.71	19.58	19.65	19.78		
20	64QAM	100	0	19.74	19.52	19.51	19.65		
Channel				55315	55820	56160	56665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3697.5	3608	3642	3692.5		
15	QPSK	1	0	22.53	22.40	22.22	22.49	24	0
15	QPSK	1	37	22.42	22.27	22.29	22.28		
15	QPSK	1	74	22.37	22.31	22.37	22.36	23	1
15	QPSK	36	0	21.67	21.61	21.39	21.46		
15	QPSK	36	20	21.66	21.48	21.50	21.41	22	2
15	QPSK	36	39	21.48	21.49	21.40	21.43		
15	QPSK	75	0	21.59	21.41	21.46	21.49	23	1
15	16QAM	1	0	21.43	21.54	21.32	21.41		
15	16QAM	1	37	21.29	21.49	21.33	21.53	22	2
15	16QAM	1	74	21.15	21.33	21.46	21.47		
15	16QAM	36	0	20.36	20.38	20.40	20.59	21	3
15	16QAM	36	20	20.48	20.45	20.50	20.63		
15	16QAM	36	39	20.53	20.52	20.62	20.72	22	2
15	16QAM	75	0	20.52	20.57	20.46	20.63		
15	64QAM	1	0	20.46	20.42	20.34	20.40	21	3
15	64QAM	1	37	20.43	20.28	20.31	20.37		
15	64QAM	1	74	20.23	20.28	20.45	20.53	20	2
15	64QAM	36	0	19.66	19.61	19.51	19.59		
15	64QAM	36	20	19.63	19.47	19.39	19.51	22	2
15	64QAM	36	39	19.67	19.56	19.60	19.70		
15	64QAM	75	0	19.53	19.36	19.30	19.62		
Channel				55290	55815	56165	56690	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3655	3607.5	3642.5	3695		
10	QPSK	1	0	22.49	22.51	22.25	22.40	24	0
10	QPSK	1	25	22.36	22.31	22.31	22.46		
10	QPSK	1	49	22.46	22.37	22.20	22.29	23	1
10	QPSK	25	0	21.62	21.59	21.41	21.59		
10	QPSK	25	12	21.63	21.40	21.32	21.43	22	2
10	QPSK	25	25	21.47	21.50	21.43	21.62		
10	QPSK	50	0	21.47	21.54	21.49	21.52	21	3
10	16QAM	1	0	21.37	21.36	21.35	21.55		
10	16QAM	1	25	21.33	21.47	21.31	21.55	22	2
10	16QAM	1	49	21.16	21.40	21.43	21.58		
10	16QAM	25	0	20.34	20.55	20.48	20.54	21	3
10	16QAM	25	12	20.49	20.58	20.34	20.53		
10	16QAM	25	25	20.65	20.50	20.50	20.57	22	2
10	16QAM	50	0	20.61	20.53	20.34	20.63		
10	64QAM	1	0	20.57	20.48	20.27	20.33	21	3
10	64QAM	1	25	20.53	20.27	20.41	20.46		
10	64QAM	1	49	20.27	20.40	20.46	20.55	20	2
10	64QAM	25	0	19.72	19.48	19.36	19.56		
10	64QAM	25	12	19.63	19.44	19.42	19.55	22	2
10	64QAM	25	25	19.57	19.37	19.47	19.61		
10	64QAM	50	0	19.60	19.33	19.38	19.55		
Channel				55265	55810	56170	56715	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3522.5	3607	3643	3697.5		
5	QPSK	1	0	22.56	22.47	22.25	22.34	24	0
5	QPSK	1	12	22.41	22.30	22.19	22.37		
5	QPSK	1	24	22.38	22.23	22.38	22.37	23	1
5	QPSK	12	0	21.70	21.62	21.33	21.61		
5	QPSK	12	7	21.65	21.42	21.32	21.58	22	2
5	QPSK	12	13	21.63	21.52	21.37	21.44		
5	QPSK	25	0	21.48	21.53	21.43	21.58	21	3
5	16QAM	1	0	21.35	21.37	21.41	21.38		
5	16QAM	1	12	21.43	21.49	21.27	21.55	22	2
5	16QAM	1	24	21.12	21.50	21.42	21.53		
5	16QAM	12	0	20.33	20.39	20.39	20.63	21	3
5	16QAM	12	7	20.61	20.52	20.44	20.64		
5	16QAM	12	13	20.66	20.41	20.47	20.59	20	2
5	16QAM	25	0	20.55	20.50	20.49	20.53		
5	64QAM	1	0	20.58	20.36	20.27	20.49	22	2
5	64QAM	1	12	20.56	20.28	20.28	20.46		
5	64QAM	1	24	20.22	20.27	20.28	20.52	21	3
5	64QAM	12	0	19.60	19.55	19.44	19.58		
5	64QAM	12	7	19.60	19.54	19.38	19.50	20	2
5	64QAM	12	13	19.53	19.50	19.47	19.56		
5	64QAM	25	0	19.53	19.49	19.32	19.47		



DSI2 standalone for Head for UAT

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Includes sub-headers for Band 2 (1900MHz Band) Part 24E and Band 4 (AWS Band) Part 27L (only on channel required).

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Includes sub-headers for Band 4 (AWS Band) Part 27L (only on channel required) and Band 5 (Cellular Band) Part 22H (only on channel required).

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Includes sub-headers for Band 5 (Cellular Band) Part 22H (only on channel required) and Band 4 (AWS Band) Part 27L (only on channel required).



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	22.35	22.38	22.28	23.3	0	
10	QPSK	1	25	22.34	22.22	22.19			
10	QPSK	1	49	22.30	22.40	22.19			
10	QPSK	25	0	22.23	22.15	22.07	23	0.3	
10	QPSK	25	12	22.29	22.13	22.13			
10	QPSK	25	25	22.26	22.31	22.13			
10	QPSK	50	0	22.26	22.29	22.11	23	0.3	
10	16QAM	1	0	22.24	22.16	22.08			
10	16QAM	1	25	22.09	22.13	21.94			
10	16QAM	1	49	22.07	22.11	21.94	22	1.3	
10	16QAM	25	0	20.91	20.90	20.80			
10	16QAM	25	12	21.04	20.92	20.86			
10	16QAM	25	25	20.98	20.94	20.83	22	1.3	
10	16QAM	50	0	20.99	20.85	20.84			
10	16QAM	50	0	21.04	21.06	20.92			
10	64QAM	1	25	21.06	20.92	20.88	22	1.3	
10	64QAM	1	49	21.06	20.90	20.90			
10	64QAM	25	0	19.99	19.93	19.86			
10	64QAM	25	12	20.06	19.91	19.91	21	2.3	
10	64QAM	25	25	20.00	19.97	19.83			
10	64QAM	50	0	20.03	19.85	19.87			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.34	22.29	22.23	23.3	0	
5	QPSK	1	12	22.28	22.21	22.10			
5	QPSK	1	24	22.29	22.34	22.20			
5	QPSK	12	0	22.20	22.07	22.03	23	0.3	
5	QPSK	12	7	22.22	22.10	22.14			
5	QPSK	12	13	22.25	22.32	22.13			
5	QPSK	25	0	22.20	22.30	22.06	23	0.3	
5	16QAM	1	0	22.20	22.11	22.06			
5	16QAM	1	12	22.09	22.07	21.95			
5	16QAM	1	24	22.02	22.11	21.94	22	1.3	
5	16QAM	12	0	20.83	20.90	20.71			
5	16QAM	12	7	21.05	20.84	20.89			
5	16QAM	12	13	20.93	20.92	20.78	22	1.3	
5	16QAM	25	0	20.96	20.79	20.76			
5	64QAM	1	0	20.99	21.03	20.89			
5	64QAM	1	12	20.98	20.85	20.96	22	1.3	
5	64QAM	1	24	21.00	20.88	20.86			
5	64QAM	12	0	19.98	19.86	19.77			
5	64QAM	12	7	20.01	19.82	19.84	21	2.3	
5	64QAM	12	13	19.95	19.97	19.75			
5	64QAM	25	0	19.94	19.83	19.84			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.27	22.30	22.29	23.3	0	
3	QPSK	1	8	22.33	22.22	22.10			
3	QPSK	1	14	22.24	22.37	22.16			
3	QPSK	8	0	22.22	22.14	21.98	23	0.3	
3	QPSK	8	4	22.24	22.10	22.14			
3	QPSK	8	7	22.25	22.28	22.05			
3	QPSK	15	0	22.21	22.28	22.12	23	0.3	
3	16QAM	1	0	22.22	22.11	22.02			
3	16QAM	1	8	22.03	22.06	21.91			
3	16QAM	1	14	22.06	22.11	21.90	22	1.3	
3	16QAM	8	0	20.85	20.82	20.79			
3	16QAM	8	4	20.97	20.92	20.81			
3	16QAM	8	7	20.92	20.91	20.78	22	1.3	
3	16QAM	15	0	20.92	20.76	20.79			
3	64QAM	1	0	21.05	20.98	20.87			
3	64QAM	1	8	20.97	20.86	20.98	22	1.3	
3	64QAM	1	14	21.07	20.88	20.89			
3	64QAM	8	0	19.94	19.85	19.82			
3	64QAM	8	4	20.04	19.90	19.86	21	2.3	
3	64QAM	8	7	19.97	19.98	19.81			
3	64QAM	15	0	19.95	19.86	19.80			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	22.33	22.38	22.23	23.3	0	
1.4	QPSK	1	3	22.35	22.22	22.19			
1.4	QPSK	1	5	22.25	22.40	22.20			
1.4	QPSK	3	0	22.15	22.14	22.07	23	0.3	
1.4	QPSK	3	1	22.28	22.09	22.14			
1.4	QPSK	3	3	22.18	22.27	22.09			
1.4	QPSK	6	0	22.22	22.25	22.09	23	0.3	
1.4	16QAM	1	0	22.16	22.14	22.02			
1.4	16QAM	1	3	22.00	22.08	21.92			
1.4	16QAM	1	5	22.00	22.08	21.89	22	1.3	
1.4	16QAM	3	0	22.20	22.07	22.05			
1.4	16QAM	3	1	22.06	22.04	21.88			
1.4	16QAM	3	3	22.08	22.11	21.94	22	1.3	
1.4	16QAM	6	0	20.99	20.80	20.76			
1.4	64QAM	1	0	21.03	21.07	20.86			
1.4	64QAM	1	3	20.98	20.87	20.97	22	1.3	
1.4	64QAM	1	5	21.04	20.87	20.85			
1.4	64QAM	3	0	21.04	21.04	20.85			
1.4	64QAM	3	1	20.99	20.86	20.96	21	2.3	
1.4	64QAM	3	3	21.01	20.81	20.85			
1.4	64QAM	6	0	20.01	19.98	19.97			

Band 13(700MHz Band) Part 27F									
BW [MHz]	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		21.78		22.8	0	
10	QPSK	1	25		21.60				
10	QPSK	1	49		21.95				
10	QPSK	25	0		21.62		22.8	0	
10	QPSK	25	12		21.86				
10	QPSK	25	25		21.91				
10	QPSK	50	0		21.85		22.8	0	
10	16QAM	1	0		21.71				
10	16QAM	1	25		21.81				
10	16QAM	1	49		21.56		22	0.8	
10	16QAM	25	0		20.86				
10	16QAM	25	12		21.09				
10	16QAM	25	25		21.35		22	0.8	
10	16QAM	50	0		21.12				
10	16QAM	50	0		20.67				
10	64QAM	1	25		21.26		22	0.8	
10	64QAM	1	49		21.84				
10	64QAM	25	0		19.85				
10	64QAM	25	12		20.13		21	1.8	
10	64QAM	25	25		20.37				
10	64QAM	50	0		20.15				
Channel									
Frequency (MHz)									
5	QPSK	1	0	21.33	21.60	21.90	22.8	0	
5	QPSK	1	12	21.60	21.93	21.86			
5	QPSK	1	24	21.92	21.79	21.80			
5	QPSK	12	0	21.47	21.77	21.88	22.8	0	
5	QPSK	12	7	21.75	21.92	21.84			
5	QPSK	12	13	21.84	21.80	21.76			
5	QPSK	25	0	21.82	21.89	21.78	22.8	0	
5	16QAM	1	0	21.54	21.94	21.73			
5	16QAM	1	12	21.84	21.49	21.75			
5	16QAM	1	24	21.49	21.75	21.89	22	0.8	
5	16QAM	12	0	20.71	21.00	21.21			
5	16QAM	12	7	20.97	21.17	21.34			
5	16QAM	12	13	21.07	21.30	21.49	22	0.8	
5	16QAM	25	0	20.92	21.16	21.33			
5	64QAM	1	0	20.60	21.02	21.29			
5	64QAM	1	12	21.04	21.26	21.52	22	0.8	
5	64QAM	1	24	21.28	21.49	21.64			
5	64QAM	12	0	19.79	20.02	20.27			
5	64QAM	12	7	20.00	20.20	20.40	21	1.8	
5	64QAM	12	13	20.09	20.35	20.54			
5	64QAM	25	0	19.98	20.11	20.33			

0.7

Band 14 (700MHz Band)									
BW [MHz]	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		22.16		23.2	0	
10	QPSK	1	25		22.10				
10	QPSK	1	49		22.03				
10	QPSK	25	0		22.01		23	0.2	
10	QPSK	25	12		22.12				
10	QPSK	25	25		22.05				
10	QPSK	50	0		22.05		23	0.2	
10	16QAM	1	0		21.97				
10	16QAM	1	25		22.02				
10	16QAM	1	49		22.08		22	1.2	
10	16QAM	25	0		21.59				
10	16QAM	25	12		21.70				
10	16QAM	25	25		21.75		22	1.2	
10	16QAM	50	0		21.70				
10	16QAM	50	0		21.75				
10	64QAM	1	25		21.86		22	1.2	
10	64QAM	1	49		21.76				
10	64QAM	25	0		20.63				
10	64QAM	25	12		20.78				



Band 17 (700MHz Band) Part 27H(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	22.11	22.05	22.10	23.3	0				
10	QPSK	1	25	22.12	22.14	22.13						
10	QPSK	1	49	22.14	22.33	22.09						
10	QPSK	25	0	21.98	21.98	21.96	23	0.3				
10	QPSK	25	12	22.07	22.01	22.09						
10	QPSK	25	25	22.03	22.10	22.02						
10	QPSK	50	0	22.04	22.05	21.94	23	0.3				
10	16QAM	1	0	22.06	21.91	21.94						
10	16QAM	1	25	21.86	21.94	21.91						
10	16QAM	1	49	21.95	21.99	21.95	22	1.3				
10	16QAM	25	0	21.01	20.99	21.04						
10	16QAM	25	12	21.13	21.06	21.12						
10	16QAM	25	25	21.09	21.03	21.01	22	1.3				
10	16QAM	50	0	21.04	20.97	20.93						
10	16QAM	50	12	21.19	21.19	21.20						
10	64QAM	1	0	21.19	21.08	21.08	22	1.3				
10	64QAM	1	25	21.19	21.08	21.08						
10	64QAM	1	49	21.20	21.24	21.17						
10	64QAM	25	0	20.02	20.01	20.03	21	2.3				
10	64QAM	25	12	20.15	20.07	20.10						
10	64QAM	25	25	20.06	20.09	20.06						
10	64QAM	50	0	20.07	20.00	19.95	21	2.3				
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.20	22.19	22.13	23.3	0				
5	QPSK	1	12	22.12	22.12	22.06						
5	QPSK	1	24	22.12	22.14	22.05						
5	QPSK	12	0	22.09	22.08	21.97	23	0.3				
5	QPSK	12	7	22.10	22.02	21.92						
5	QPSK	12	13	22.03	21.97	21.93						
5	QPSK	25	0	22.08	21.99	21.93	23	0.3				
5	16QAM	1	0	22.04	22.06	22.02						
5	16QAM	1	12	21.99	21.98	21.99						
5	16QAM	1	24	21.99	22.02	21.92	22	1.3				
5	16QAM	12	0	21.12	21.06	21.01						
5	16QAM	12	7	21.10	21.02	20.91						
5	16QAM	12	13	21.04	21.00	20.93	22	1.3				
5	16QAM	25	0	21.10	21.00	20.97						
5	64QAM	1	0	21.36	21.27	21.27						
5	64QAM	1	12	21.24	21.21	21.12	22	1.3				
5	64QAM	1	24	21.27	21.28	21.12						
5	64QAM	12	0	20.19	20.14	20.07						
5	64QAM	12	7	20.13	20.06	20.01	21	2.3				
5	64QAM	12	13	20.07	20.05	19.98						
5	64QAM	25	0	20.10	20.02	19.96						

Band 25 (1900MHz Band) Part 24E												
BW (MHz)	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	15.97	15.85	15.83	16.8	0				
20	QPSK	1	49	15.80	15.71	15.79						
20	QPSK	1	99	15.78	15.76	15.79						
20	QPSK	50	0	15.80	15.73	15.61	16.8	0				
20	QPSK	50	24	15.76	15.71	15.65						
20	QPSK	50	50	15.81	15.59	15.64						
20	QPSK	100	0	15.76	15.60	15.57	16.8	0				
20	16QAM	1	0	15.74	15.56	15.64						
20	16QAM	1	49	15.70	15.56	15.66						
20	16QAM	1	99	15.79	15.54	15.58	16.8	0				
20	16QAM	50	0	15.81	15.81	15.74						
20	16QAM	50	0	15.80	15.73	15.56						
20	16QAM	50	24	15.75	15.66	15.55	16.8	0				
20	16QAM	100	0	15.79	15.73	15.54						
20	16QAM	100	0	15.76	15.78	15.61						
20	64QAM	1	0	15.65	15.75	15.59	16.8	0				
20	64QAM	1	99	15.76	15.60	15.68						
20	64QAM	50	0	15.80	15.73	15.56						
20	64QAM	50	24	15.82	15.78	15.59	16.8	0				
20	64QAM	50	50	15.67	15.66	15.55						
20	64QAM	100	0	15.79	15.71	15.60						
20	64QAM	100	0	15.79	15.75	15.72	16.8	0				
Channel												
Frequency (MHz)												
15	QPSK	1	0	15.96	15.84	15.76	16.8	0				
15	QPSK	1	37	15.76	15.84	15.74						
15	QPSK	1	74	15.73	15.77	15.71						
15	QPSK	36	0	15.76	15.71	15.54	16.8	0				
15	QPSK	36	20	15.71	15.68	15.58						
15	QPSK	36	39	15.63	15.54	15.58						
15	QPSK	75	0	15.77	15.52	15.55	16.8	0				
15	16QAM	1	0	15.67	15.50	15.58						
15	16QAM	1	37	15.68	15.54	15.61						
15	16QAM	1	74	15.80	15.52	15.53	16.8	0				
15	16QAM	36	0	15.76	15.76	15.75						
15	16QAM	36	20	15.74	15.67	15.51						
15	16QAM	36	39	15.64	15.66	15.52	16.8	0				
15	16QAM	75	0	15.71	15.69	15.49						
15	64QAM	1	0	15.68	15.77	15.58						
15	64QAM	1	37	15.62	15.69	15.57	16.8	0				
15	64QAM	1	74	15.68	15.56	15.67						
15	64QAM	36	0	15.72	15.66	15.52						
15	64QAM	36	20	15.73	15.78	15.53	16.8	0				
15	64QAM	36	39	15.75	15.71	15.58						
15	64QAM	75	0	15.70	15.71	15.64						
Channel												
Frequency (MHz)												
10	QPSK	1	0	15.91	15.77	15.74	16.8	0				
10	QPSK	1	25	15.76	15.72	15.80						
10	QPSK	1	49	15.75	15.67	15.75						
10	QPSK	25	0	15.72	15.74	15.55	16.8	0				
10	QPSK	25	12	15.71	15.67	15.58						
10	QPSK	25	25	15.61	15.60	15.59						
10	QPSK	50	0	15.71	15.61	15.58	16.8	0				
10	16QAM	1	0	15.71	15.53	15.61						
10	16QAM	1	25	15.66	15.55	15.60						
10	16QAM	1	49	15.74	15.48	15.58	16.8	0				
10	16QAM	25	0	15.74	15.60	15.72						
10	16QAM	25	12	15.75	15.74	15.59						
10	16QAM	25	25	15.66	15.66	15.52	16.8	0				
10	16QAM	50	0	15.70	15.72	15.45						
10	16QAM	50	1	15.69	15.76	15.57						
10	64QAM	1	0	15.64	15.76	15.59	16.8	0				
10	64QAM	1	49	15.68	15.51	15.68						
10	64QAM	25	0	15.74	15.64	15.50						
10	64QAM	25	12	15.74	15.72	15.59	16.8	0				
10	64QAM	25	25	15.78	15.67	15.52						
10	64QAM	50	0	15.70	15.75	15.65						
Channel												
Frequency (MHz)												
5	QPSK	1	0	15.94	15.85	15.84	16.8	0				
5	QPSK	1	12	15.74	15.63	15.73						
5	QPSK	1	24	15.73	15.71	15.74						
5	QPSK	12	0	15.77	15.64	15.55	16.8	0				
5	QPSK	12	7	15.69	15.62	15.63						
5	QPSK	12	13	15.68	15.55	15.65						
5	QPSK	25	0	15.69	15.61	15.55	16.8	0				
5	16QAM	1	0	15.68	15.49	15.56						
5	16QAM	1	12	15.68	15.53	15.58						
5	16QAM	1	24	15.77	15.52	15.56	16.8	0				
5	16QAM	12	0	15.74	15.75	15.71						
5	16QAM	12	7	15.67	15.66	15.52						
5	16QAM	12	13	15.59	15.65	15.50	16.8	0				
5	16QAM	25	0	15.73	15.73	15.51						
5	64QAM	1	0	15.70	15.78	15.53						
5	64QAM	1	12	15.62	15.67	15.58	16.8	0				
5	64QAM	1	24	15.75	15.51	15.59						
5	64QAM	12	0	15.73	15.64	15.57						
5	64QAM	12	7	15.82	15.72	15.54	16.8	0				
5	64QAM	12	13	15.74	15.54	15.50						
5	64QAM	25	0	15.76	15.68	15.64						
Channel												
Frequency (MHz)												
3	QPSK	1	0	15.93	15.78	15.77	16.8	0				
3	QPSK	1	8	15.80	15.70	15.77						
3	QPSK	1	14	15.75	15.73	15.80						
3	QPSK	8	0	15.72	15.70	15.54	16.8	0				
3	QPSK	8	4	15.75	15.71	15.58						
3	QPSK	8	7	15.71	15.52	15.64						
3	QPSK	15	0	15.69	15.55	15.55	16.8	0				
3	16QAM	1	0	15.74	15.52	15.61						
3	16QAM	1	8	15.63	15.47	15.66						
3	16QAM	1	14	15.77	15.46	15.52	16.8	0				
3	16QAM	8	0	15.82	15.76	15.71						
3	16QAM	8	4	15.66	15.66	15.49						
3	16QAM	8	7	15.64	15.59	15.50	16.8	0				



Band 30									
BW [MHz]	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	16.01					
10	QPSK	1	25	15.80			17.3	0	
10	QPSK	1	49	15.85					
10	QPSK	25	0	15.62					
10	QPSK	25	12	15.71			17.3	0	
10	QPSK	25	25	15.54					
10	QPSK	50	0	15.67					
10	16QAM	1	0	15.84					
10	16QAM	1	25	15.93			17.3	0	
10	16QAM	1	49	15.89					
10	16QAM	25	0	15.63					
10	16QAM	25	12	15.54					
10	16QAM	25	25	15.59			17.3	0	
10	16QAM	50	0	15.56					
10	64QAM	1	0	15.83					
10	64QAM	1	25	15.91			17.3	0	
10	64QAM	1	49	15.89					
10	64QAM	25	0	15.70					
10	64QAM	25	12	15.61			17.3	0	
10	64QAM	25	25	15.51					
10	64QAM	50	0	15.51					
Channel									
Frequency (MHz)									
5	QPSK	1	0	15.69	15.68	15.64			
5	QPSK	1	12	15.74	15.61	15.96	17.3	0	
5	QPSK	1	24	15.63	15.84	15.50			
5	QPSK	12	0	15.70	15.67	15.67			
5	QPSK	12	7	15.68	15.62	15.69	17.3	0	
5	QPSK	12	13	15.60	15.64	15.63			
5	QPSK	25	0	15.57	15.55	15.59			
5	16QAM	1	0	15.76	15.96	15.53	17.3	0	
5	16QAM	1	12	15.79	15.73	15.59			
5	16QAM	1	24	15.66	15.56	15.51			
5	16QAM	12	0	15.66	15.63	15.61			
5	16QAM	12	7	15.67	15.69	15.63	17.3	0	
5	16QAM	12	13	15.59	15.64	15.61			
5	16QAM	25	0	15.59	15.70	15.94			
5	64QAM	1	0	15.60	15.65	15.63			
5	64QAM	1	12	15.50	15.53	15.53	17.3	0	
5	64QAM	1	24	15.50	15.52	15.61			
5	64QAM	12	0	15.77	15.74	15.76			
5	64QAM	12	7	15.72	15.74	15.83	17.3	0	
5	64QAM	12	13	15.68	15.71	15.59			
5	64QAM	25	0	15.59	15.45	15.65			

Band 66									
BW [MHz]	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	16.82	16.97	16.86			
20	QPSK	1	49	16.83	16.95	16.70	17.9	0	
20	QPSK	1	99	16.77	16.86	16.69			
20	QPSK	50	0	16.73	16.83	16.69			
20	QPSK	50	24	16.81	16.86	16.85	17.9	0	
20	QPSK	50	50	16.81	16.81	16.70			
20	QPSK	100	0	16.61	16.78	16.75			
20	16QAM	1	0	16.82	16.93	16.74			
20	16QAM	1	49	16.82	16.92	16.71	17.9	0	
20	16QAM	1	99	16.69	16.96	16.67			
20	16QAM	50	0	16.70	16.85	16.69			
20	16QAM	50	24	16.83	16.87	16.86	17.9	0	
20	16QAM	50	50	16.74	16.85	16.86			
20	16QAM	100	0	16.76	16.83	16.65			
20	64QAM	1	0	16.76	16.91	16.87			
20	64QAM	1	49	16.84	16.88	16.76	17.9	0	
20	64QAM	1	99	16.84	16.75	16.81			
20	64QAM	50	0	16.70	16.85	16.68			
20	64QAM	50	24	16.84	16.83	16.87	17.9	0	
20	64QAM	50	50	16.75	16.86	16.70			
20	64QAM	100	0	16.78	16.82	16.65			
Channel									
Frequency (MHz)									
15	QPSK	1	0	16.75	16.92	16.84			
15	QPSK	1	37	16.82	16.87	16.71	17.9	0	
15	QPSK	1	74	16.74	16.80	16.70			
15	QPSK	36	0	16.73	16.83	16.82			
15	QPSK	36	20	16.74	16.79	16.78	17.9	0	
15	QPSK	36	39	16.75	16.82	16.82			
15	QPSK	75	0	16.55	16.77	16.69			
15	16QAM	1	0	16.82	16.94	16.71	17.9	0	
15	16QAM	1	37	16.85	16.86	16.68			
15	16QAM	1	74	16.69	16.83	16.59			
15	16QAM	36	0	16.82	16.82	16.68			
15	16QAM	36	20	16.80	16.82	16.57	17.9	0	
15	16QAM	36	39	16.75	16.88	16.64			
15	16QAM	75	0	16.71	16.75	16.60			
15	64QAM	1	0	16.76	16.86	16.86	17.9	0	
15	64QAM	1	37	16.78	16.87	16.76			
15	64QAM	1	74	16.85	16.75	16.74	17.9	0	
15	64QAM	36	0	16.69	16.80	16.63			
15	64QAM	36	20	16.77	16.79	16.88	17.9	0	
15	64QAM	36	39	16.66	16.84	16.70			
15	64QAM	75	0	16.77	16.77	16.61			
Channel									
Frequency (MHz)									
10	QPSK	1	0	16.79	16.96	16.87			
10	QPSK	1	25	16.74	16.93	16.67	17.9	0	
10	QPSK	1	49	16.69	16.83	16.60			
10	QPSK	25	0	16.74	16.79	16.84			
10	QPSK	25	12	16.80	16.86	16.81	17.9	0	
10	QPSK	25	25	16.71	16.74	16.82			
10	QPSK	50	0	16.52	16.70	16.70			
10	16QAM	1	0	16.77	16.92	16.71			
10	16QAM	1	25	16.74	16.86	16.72	17.9	0	
10	16QAM	1	49	16.67	16.88	16.58			
10	16QAM	25	0	16.62	16.77	16.66			
10	16QAM	25	12	16.75	16.78	16.81	17.9	0	
10	16QAM	25	25	16.67	16.85	16.63			
10	16QAM	50	0	16.68	16.82	16.65			
10	64QAM	1	0	16.74	16.90	16.86			
10	64QAM	1	25	16.83	16.80	16.68	17.9	0	
10	64QAM	1	49	16.75	16.72	16.75			
10	64QAM	25	0	16.69	16.78	16.68			
10	64QAM	25	12	16.82	16.83	16.58	17.9	0	
10	64QAM	25	25	16.69	16.81	16.71			
10	64QAM	50	0	16.79	16.81	16.60			
Channel									
Frequency (MHz)									
5	QPSK	1	0	16.73	16.91	16.81			
5	QPSK	1	12	16.83	16.96	16.69	17.9	0	
5	QPSK	1	24	16.77	16.77	16.82			
5	QPSK	12	0	16.71	16.79	16.63			
5	QPSK	12	7	16.76	16.77	16.74	17.9	0	
5	QPSK	12	13	16.72	16.79	16.83			
5	QPSK	25	0	16.60	16.78	16.75			
5	16QAM	1	0	16.73	16.85	16.72	17.9	0	
5	16QAM	1	12	16.81	16.91	16.70			
5	16QAM	1	24	16.61	16.87	16.58			
5	16QAM	12	0	16.64	16.77	16.68			
5	16QAM	12	7	16.76	16.83	16.59	17.9	0	
5	16QAM	12	13	16.70	16.90	16.67			
5	16QAM	25	0	16.77	16.84	16.63			
5	64QAM	1	0	16.72	16.85	16.87			
5	64QAM	1	12	16.83	16.85	16.73	17.9	0	
5	64QAM	1	24	16.77	16.74	16.77			
5	64QAM	12	0	16.64	16.79	16.80			
5	64QAM	12	7	16.85	16.79	16.65	17.9	0	
5	64QAM	12	13	16.76	16.90	16.84			
5	64QAM	25	0	16.77	16.77	16.60			
Channel									
Frequency (MHz)									
3	QPSK	1	0	16.83	16.92	16.81			
3	QPSK	1	8	16.84	16.96	16.67	17.9	0	
3	QPSK	1	14	16.73	16.77	16.70			
3	QPSK	8	0	16.65	16.79	16.67			
3	QPSK	8	4	16.81	16.79	16.76	17.9	0	
3	QPSK	8	7	16.75	16.75	16.68			
3	QPSK	15	0	16.53	16.79	16.73			
3	16QAM	1	0	16.78	16.84	16.65			
3									



DS12 Sim-Tx for Head for UAT

Band 2 (1900MHz Band) Part 24E										
BW (MHz)	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	15.23	15.09	15.08				
20	QPSK	1	49	15.10	15.08	14.91	16	0		
20	QPSK	1	99	14.98	14.97	14.79				
20	QPSK	50	0	15.06	14.98	14.82				
20	QPSK	50	24	14.83	14.84	14.80	16	0		
20	QPSK	50	50	14.88	14.85	14.73				
20	QPSK	100	0	15.01	14.88	14.84				
20	16QAM	1	0	15.07	15.08	15.10				
20	16QAM	1	49	15.19	15.20	15.05	16	0		
20	16QAM	1	99	15.01	15.15	14.99				
20	16QAM	50	0	15.14	15.13	15.09				
20	16QAM	50	24	15.11	15.14	14.99	16	0		
20	16QAM	50	50	14.85	14.87	14.82				
20	16QAM	100	0	14.88	14.97	15.03				
20	64QAM	1	0	15.07	15.17	14.97				
20	64QAM	1	49	15.11	14.93	14.95	16	0		
20	64QAM	1	99	15.01	14.82	14.82				
20	64QAM	50	0	15.00	15.00	15.00				
20	64QAM	50	24	14.97	15.00	15.03	16	0		
20	64QAM	50	50	14.88	14.87	14.94				
20	64QAM	100	0	15.01	14.89	15.08				
Channel Frequency (MHz)										
				18675	18800	19125	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
15	QPSK	1	0	15.18	15.04	15.03				
15	QPSK	1	37	15.05	15.01	14.98	16	0		
15	QPSK	1	74	14.91	14.90	14.72				
15	QPSK	36	0	14.99	14.91	14.80				
15	QPSK	36	20	14.86	14.77	14.73	16	0		
15	QPSK	36	39	14.81	14.78	14.66				
15	QPSK	75	0	14.94	14.91	14.77				
15	16QAM	1	0	15.00	15.01	15.03				
15	16QAM	1	37	15.12	15.14	14.98	16	0		
15	16QAM	1	74	14.94	15.08	14.92				
15	16QAM	36	0	15.07	15.08	15.02				
15	16QAM	36	20	14.94	15.03	14.94	16	0		
15	16QAM	36	39	14.92	14.94	14.89				
15	16QAM	75	0	14.85	14.94	15.00				
15	64QAM	1	0	15.04	15.04	15.04				
15	64QAM	1	37	15.08	14.90	14.92	16	0		
15	64QAM	1	74	14.98	14.79	14.79				
15	64QAM	36	0	15.08	15.11	14.96				
15	64QAM	36	20	14.94	14.97	15.00	16	0		
15	64QAM	36	39	14.85	14.84	14.91				
15	64QAM	75	0	14.86	14.85	15.06				
Channel Frequency (MHz)										
				18650	18800	19150	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
10	QPSK	1	0	15.22	15.08	15.07				
10	QPSK	1	25	15.08	15.04	14.89	16	0		
10	QPSK	1	49	14.96	14.96	14.77				
10	QPSK	25	0	15.03	14.95	14.84				
10	QPSK	25	12	14.80	14.80	14.77	16	0		
10	QPSK	25	25	14.85	14.80	14.70				
10	QPSK	50	0	14.98	14.95	14.81				
10	16QAM	1	0	15.04	15.06	15.07				
10	16QAM	1	25	15.16	15.17	15.02	16	0		
10	16QAM	1	49	14.98	15.12	14.96				
10	16QAM	25	0	15.12	15.11	15.07				
10	16QAM	25	12	14.97	15.06	14.97	16	0		
10	16QAM	25	25	14.92	14.94	14.89				
10	16QAM	50	0	14.85	14.94	15.00				
10	64QAM	1	0	15.05	15.15	14.96				
10	64QAM	1	25	15.09	14.91	14.93	16	0		
10	64QAM	1	49	14.99	14.80	14.80				
10	64QAM	25	0	15.03	14.90	14.96	16	0		
10	64QAM	25	12	14.85	14.88	15.01				
10	64QAM	25	25	14.86	14.85	14.82	16	0		
10	64QAM	50	0	14.99	14.97	15.06				
Channel Frequency (MHz)										
				18625	18800	19175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
5	QPSK	1	0	15.20	15.06	15.075				
5	QPSK	1	12	15.01	14.95	14.85	16	0		
5	QPSK	1	24	14.92	14.91	14.73				
5	QPSK	12	0	14.99	14.91	14.80				
5	QPSK	12	7	14.81	14.77	14.73	16	0		
5	QPSK	12	13	14.81	14.78	14.66				
5	QPSK	25	0	14.96	14.93	14.79				
5	16QAM	1	0	15.00	15.01	15.03				
5	16QAM	1	12	15.12	15.13	14.98	16	0		
5	16QAM	1	24	14.94	15.08	14.92				
5	16QAM	12	0	15.08	15.07	15.03				
5	16QAM	12	7	14.93	15.02	14.93	16	0		
5	16QAM	12	13	14.90	14.92	14.87				
5	16QAM	25	0	14.83	14.82	14.98				
5	64QAM	1	0	15.03	15.13	14.93				
5	64QAM	1	12	15.05	14.87	14.89	16	0		
5	64QAM	1	24	14.95	14.78	14.78				
5	64QAM	12	0	15.05	15.08	14.93				
5	64QAM	12	7	14.93	14.96	14.99	16	0		
5	64QAM	12	13	14.84	14.83	14.90				
5	64QAM	25	0	14.97	14.95	15.04				
Channel Frequency (MHz)										
				18615	18800	19185	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
3	QPSK	1	0	15.21	15.07	15.06				
3	QPSK	1	8	15.05	15.01	14.86	16	0		
3	QPSK	1	14	14.93	14.92	14.74				
3	QPSK	8	0	15.01	14.93	14.82				
3	QPSK	8	4	14.83	14.82	14.75	16	0		
3	QPSK	8	7	14.82	14.77	14.67				
3	QPSK	15	0	14.97	14.94	14.80				
3	16QAM	1	0	15.02	15.03	15.05				
3	16QAM	1	8	15.14	15.15	15.00	16	0		
3	16QAM	1	14	14.96	15.10	14.94				
3	16QAM	8	0	15.10	15.09	15.05				
3	16QAM	8	4	14.95	15.04	14.95	16	0		
3	16QAM	8	7	14.92	14.94	14.89				
3	16QAM	15	0	14.94	14.93	14.99				
3	64QAM	1	0	15.04	15.14	14.94				
3	64QAM	1	8	15.06	14.88	14.90	16	0		
3	64QAM	1	14	14.96	14.77	14.77				
3	64QAM	8	0	15.06	15.09	14.94				
3	64QAM	8	4	14.94	14.97	15.00	16	0		
3	64QAM	8	7	14.85	14.84	14.91				
3	64QAM	15	0	14.97	14.95	15.04				
Channel Frequency (MHz)										
				18607	18800	19193	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
1.4	QPSK	1	0	15.19	15.05	15.04				
1.4	QPSK	1	3	15.03	14.99	14.84	16	0		
1.4	QPSK	1	5	14.91	14.80	14.72				
1.4	QPSK	3	0	14.99	14.91	14.80				
1.4	QPSK	3	1	14.86	14.77	14.73	16	0		
1.4	QPSK	3	3	14.78	14.73	14.63				
1.4	QPSK	6	0	14.93	14.90	14.76				
1.4	16QAM	1	0	15.09	15.09	15.09				
1.4	16QAM	1	3	15.12	15.13	14.98	16	0		
1.4	16QAM	1	5	14.94	15.08	14.92				
1.4	16QAM	3	0	15.10	15.09	15.05				
1.4	16QAM	3	1	14.95	15.04	14.95	16	0		
1.4	16QAM	3	3	14.92	14.94	14.89				
1.4	16QAM	6	0	14.85	14.96	14.96				
1.4	64QAM	1	0	15.06	15.16	14.96				
1.4	64QAM	1	3	15.08	14.90	14.92	16	0		
1.4	64QAM	1	5	14.98	14.79	14.79				
1										



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				23050	23055	23130			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	21.54	21.61	21.34	22.5	0	
10	QPSK	1	25	21.59	21.43	21.34			
10	QPSK	1	49	21.65	21.70	21.37			
10	QPSK	25	0	21.60	21.56	21.48	22.5	0	
10	QPSK	25	12	21.58	21.56	21.54			
10	QPSK	25	25	21.55	21.58	21.54			
10	QPSK	50	0	21.46	21.67	21.52	22.5	0	
10	16QAM	1	0	21.63	21.58	21.51			
10	16QAM	1	25	21.38	21.30	21.54			
10	16QAM	1	49	21.44	21.55	21.46	22	0.5	
10	16QAM	25	0	21.29	21.28	21.11			
10	16QAM	25	12	21.38	21.25	21.16			
10	16QAM	25	25	21.25	21.26	21.13	22	0.5	
10	16QAM	50	0	21.35	21.24	21.20			
10	64QAM	1	0	21.28	21.37	21.20			
10	64QAM	1	25	21.05	21.27	21.42	22	0.5	
10	64QAM	1	49	21.14	21.10	21.04			
10	64QAM	25	0	19.80	19.85	19.89			
10	64QAM	25	12	19.81	19.86	20.05	21	1.5	
10	64QAM	25	25	19.98	20.00	20.00			
10	64QAM	50	0	19.90	19.89	19.87			
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	21.46	21.62	21.34	22.5	0	
5	QPSK	1	12	21.53	21.39	21.32			
5	QPSK	1	24	21.60	21.67	21.32			
5	QPSK	12	0	21.51	21.54	21.43	22.5	0	
5	QPSK	12	7	21.51	21.54	21.52			
5	QPSK	12	13	21.50	21.64	21.47			
5	QPSK	25	0	21.47	21.62	21.51	22.5	0	
5	16QAM	1	0	21.64	21.58	21.43			
5	16QAM	1	12	21.34	21.28	21.55			
5	16QAM	1	24	21.42	21.56	21.44	22	0.5	
5	16QAM	12	0	21.28	21.19	21.09			
5	16QAM	12	7	21.35	21.21	21.16			
5	16QAM	12	13	21.24	21.21	21.04	22	0.5	
5	16QAM	25	0	21.27	21.25	21.19			
5	64QAM	1	0	21.22	21.36	21.11			
5	64QAM	1	12	21.02	21.25	21.38	22	0.5	
5	64QAM	1	24	21.13	21.11	21.01			
5	64QAM	12	0	19.85	19.83	19.85			
5	64QAM	12	7	19.93	19.88	20.05	21	1.5	
5	64QAM	12	13	19.98	19.95	20.01			
5	64QAM	25	0	19.91	19.98	19.97			
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	714.5			
3	QPSK	1	0	21.48	21.62	21.33	22.5	0	
3	QPSK	1	8	21.52	21.44	21.33			
3	QPSK	1	14	21.59	21.66	21.30			
3	QPSK	8	0	21.58	21.55	21.44	22.5	0	
3	QPSK	8	4	21.51	21.54	21.50			
3	QPSK	8	7	21.53	21.69	21.53			
3	QPSK	15	0	21.46	21.58	21.45	22.5	0	
3	16QAM	1	0	21.56	21.57	21.45			
3	16QAM	1	8	21.38	21.29	21.51			
3	16QAM	1	14	21.40	21.55	21.45	22	0.5	
3	16QAM	8	0	21.26	21.20	21.10			
3	16QAM	8	4	21.39	21.19	21.13			
3	16QAM	8	7	21.20	21.19	21.07	22	0.5	
3	16QAM	15	0	21.35	21.23	21.17			
3	64QAM	1	0	21.26	21.35	21.17			
3	64QAM	1	8	21.05	21.26	21.41	22	0.5	
3	64QAM	1	14	21.08	21.09	21.05			
3	64QAM	8	0	19.85	19.91	19.84			
3	64QAM	8	4	19.95	19.89	19.98	21	1.5	
3	64QAM	8	7	19.99	19.92	19.99			
3	64QAM	15	0	19.93	19.85	19.97			
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				699.7	707.5	715.3			
1.4	QPSK	1	0	21.49	21.57	21.30	22.5	0	
1.4	QPSK	1	3	21.53	21.37	21.33			
1.4	QPSK	1	5	21.57	21.62	21.38			
1.4	QPSK	3	0	21.55	21.50	21.45	22.5	0	
1.4	QPSK	3	1	21.59	21.52	21.53			
1.4	QPSK	3	3	21.47	21.68	21.48			
1.4	QPSK	6	0	21.45	21.65	21.52	22.5	0	
1.4	16QAM	1	0	21.57	21.53	21.52			
1.4	16QAM	1	3	21.31	21.21	21.46			
1.4	16QAM	1	5	21.42	21.55	21.47	22.5	0	
1.4	16QAM	3	0	21.21	21.25	21.10			
1.4	16QAM	3	1	21.29	21.20	21.17			
1.4	16QAM	3	3	21.24	21.18	21.04	22	0.5	
1.4	16QAM	6	0	21.34	21.22	21.20			
1.4	64QAM	1	0	21.21	21.35	21.15			
1.4	64QAM	1	3	20.98	21.22	21.33	22	0.5	
1.4	64QAM	1	5	21.13	21.07	20.88			
1.4	64QAM	3	0	20.40	20.18	20.12			
1.4	64QAM	3	1	20.33	20.09	20.06	21	1.5	
1.4	64QAM	3	3	20.38	20.22	20.13			
1.4	64QAM	6	0	19.83	19.97	19.94			

Band 13(700MHz Band) Part 27F									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23205	23220	23255			
Frequency (MHz)				792	792	784.5			
10	QPSK	1	0	20.75			22	0	
10	QPSK	1	25	21.03					
10	QPSK	1	49	21.14					
10	QPSK	25	0	20.85			22	0	
10	QPSK	25	12	21.03					
10	QPSK	25	25	21.05					
10	QPSK	50	0	20.99			22	0	
10	16QAM	1	0	21.00					
10	16QAM	1	25	21.09					
10	16QAM	1	49	20.81			22	0	
10	16QAM	25	0	20.76					
10	16QAM	25	12	20.82					
10	16QAM	25	25	21.05			22	0	
10	16QAM	50	0	20.75					
10	64QAM	1	0	20.47					
10	64QAM	1	25	20.77			22	0	
10	64QAM	1	49	20.79					
10	64QAM	25	0	19.93					
10	64QAM	25	12	20.08			21	1	
10	64QAM	25	25	20.33					
10	64QAM	50	0	19.94					
Channel				23205	23230	23255	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				779.5	782	784.5			
5	QPSK	1	0	20.54	20.79	21.09	22	0	
5	QPSK	1	12	20.78	20.86	21.07			
5	QPSK	1	24	21.06	21.02	21.07			
5	QPSK	12	0	20.65	20.96	21.00	22	0	
5	QPSK	12	7	20.85	21.00	21.00			
5	QPSK	12	13	21.00	21.08	21.09			
5	QPSK	25	0	20.92	21.00	20.97	22	0	
5	16QAM	1	0	20.83	20.90	21.00			
5	16QAM	1	12	21.06	20.95	21.02			
5	16QAM	1	24	20.98	21.02	21.06	22	0	
5	16QAM	12	0	20.77	20.72	20.95			
5	16QAM	12	7	21.01	20.92	21.05			
5	16QAM	12	13	21.08	21.04	21.00	22	0	
5	16QAM	25	0	20.86	20.91	20.98			
5	64QAM	1	0	20.83	20.89	21.07			
5	64QAM	1	12	21.05	21.07	21.00	22	0	
5	64QAM	1	24	21.01	21.06	21.05			
5	64QAM	12	0	19.73	20.10	20.37			
5	64QAM	12	7	20.06	20.25	20.48	21	1	
5	64QAM	12	13	20.10	20.43	20.51			
5	64QAM	25	0	19.94	20.13	20.26			

Band 14 (700MHz Band)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23305	23330	23355			
Frequency (MHz)				793	793	795.5			
10	QPSK	1	0	21.50			22.4	0	
10	QPSK	1	25	21.45					
10	QPSK	1	49	21.43					
10	QPSK	25	0	21.23			22.4	0	
10	QPSK	25	12	21.35					
10	QPSK	25	25	21.24					
10	QPSK	50	0	21.23			22.4	0	
10	16QAM	1	0	21.29					
10	16QAM	1	25	21.27					
10	16QAM	1	49	21.40			22	0.4	
10	16QAM	25	0	21.21					
10	16QAM	25	12	21.39					



Band 17 (700MHz Band) Part 27H(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				2370	2370	2360			
Frequency (MHz)				709	710	711			
10	QPSK	1	0	2143	2142	2138			
10	QPSK	1	25	2139	2139	2132	22.5	0	
10	QPSK	1	49	2138	2158	2128			
10	QPSK	25	0	2152	2153	2147			
10	QPSK	25	12	2144	2147	2140	22.5	0	
10	QPSK	25	25	2145	2154	2140			
10	QPSK	50	0	2138	2144	2136			
10	16QAM	1	0	2148	2150	2144			
10	16QAM	1	25	2136	2140	2141	22.5	0	
10	16QAM	1	49	2141	2137	2137			
10	16QAM	25	0	2117	2110	2104			
10	16QAM	25	12	2115	2106	2099			
10	16QAM	25	25	2108	2109	2102	22	0.5	
10	16QAM	50	0	2114	2101	2102			
10	64QAM	1	0	2137	2134	2124			
10	64QAM	1	25	2130	2122	2119	22	0.5	
10	64QAM	1	49	2130	2126	2114			
10	64QAM	25	0	2021	2014	2008			
10	64QAM	25	12	2021	2012	2019			
10	64QAM	25	25	2010	2004	1991	21	1.5	
10	64QAM	50	0	2014	2006	2007			
Channel				2375	2370	23825	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				706.5	710	713.5			
5	QPSK	1	0	2138	2137	2133			
5	QPSK	1	12	2134	2134	2127	22.5	0	
5	QPSK	1	24	2133	2133	2123			
5	QPSK	12	0	2150	2148	2142			
5	QPSK	12	7	2149	2142	2135	22.5	0	
5	QPSK	12	13	2140	2139	2135			
5	QPSK	25	0	2149	2139	2131			
5	16QAM	1	0	2143	2145	2139	22.5	0	
5	16QAM	1	12	2131	2135	2136			
5	16QAM	1	24	2136	2132	2132			
5	16QAM	12	0	2112	2105	2099			
5	16QAM	12	7	2110	2101	2094	22	0.5	
5	16QAM	12	13	2103	2104	2097			
5	16QAM	25	0	2109	2105	2097			
5	64QAM	1	0	2132	2129	2119			
5	64QAM	1	12	2125	2117	2114	22	0.5	
5	64QAM	1	24	2125	2121	2109			
5	64QAM	12	0	2016	2009	2003			
5	64QAM	12	7	2016	2007	2014	21	1.5	
5	64QAM	12	13	2005	1999	1986			
5	64QAM	25	0	2009	2001	2002			

Band 25 (1900MHz Band) Part 24E									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				26180	26340	26500			
Frequency (MHz)				1880	1900	1920			
20	QPSK	1	0	15.24	15.01	14.97			
20	QPSK	1	49	15.00	14.89	14.89	16	0	
20	QPSK	1	99	15.00	14.96	14.89			
20	QPSK	50	0	15.00	14.88	14.75			
20	QPSK	50	24	14.87	14.83	14.71	16	0	
20	QPSK	50	50	14.85	14.89	14.74			
20	QPSK	100	0	14.86	14.70	14.67			
20	16QAM	1	0	14.84	14.66	14.74			
20	16QAM	1	49	14.82	14.66	14.56	16	0	
20	16QAM	1	99	14.89	14.44	14.48			
20	16QAM	50	0	14.91	14.91	14.84			
20	16QAM	50	24	14.85	14.84	14.68	16	0	
20	16QAM	50	50	14.77	14.76	14.65			
20	16QAM	100	0	14.89	14.83	14.64			
20	64QAM	1	0	14.86	14.88	14.71			
20	64QAM	1	49	14.95	14.85	14.49	16	0	
20	64QAM	1	99	14.86	14.50	14.58			
20	64QAM	50	0	14.90	14.83	14.66			
20	64QAM	50	24	14.92	14.88	14.69	16	0	
20	64QAM	50	50	14.87	14.81	14.70			
20	64QAM	100	0	14.89	14.85	14.82			
Channel				26115	26340	26615	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1907.5			
15	QPSK	1	0	15.20	14.92	14.93			
15	QPSK	1	37	14.97	14.84	14.80	16	0	
15	QPSK	1	74	15.01	14.91	14.70			
15	QPSK	36	0	14.92	14.88	14.76			
15	QPSK	36	20	14.88	14.78	14.64	16	0	
15	QPSK	36	39	14.76	14.64	14.68			
15	QPSK	75	0	14.80	14.66	14.65			
15	16QAM	1	0	14.82	14.60	14.69			
15	16QAM	1	37	14.87	14.83	14.67	16	0	
15	16QAM	1	74	14.88	14.39	14.40			
15	16QAM	36	0	14.82	14.89	14.79			
15	16QAM	36	20	14.84	14.75	14.62	16	0	
15	16QAM	36	39	14.70	14.74	14.61			
15	16QAM	75	0	14.80	14.77	14.65			
15	64QAM	1	0	14.87	14.83	14.67			
15	64QAM	1	37	14.86	14.77	14.43	16	0	
15	64QAM	1	74	14.85	14.47	14.54			
15	64QAM	36	0	14.84	14.83	14.65			
15	64QAM	36	20	14.87	14.83	14.66	16	0	
15	64QAM	36	39	14.81	14.75	14.66			
15	64QAM	75	0	14.85	14.78	14.74			
Channel				26190	26340	26640	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1910			
10	QPSK	1	0	15.23	14.99	14.90			
10	QPSK	1	25	14.93	14.82	14.89	16	0	
10	QPSK	1	49	14.94	14.87	14.82			
10	QPSK	25	0	14.96	14.85	14.66			
10	QPSK	25	12	14.78	14.83	14.66	16	0	
10	QPSK	25	25	14.72	14.68	14.72			
10	QPSK	50	0	14.79	14.65	14.65			
10	16QAM	1	0	14.84	14.63	14.72			
10	16QAM	1	25	14.74	14.63	14.52	16	0	
10	16QAM	1	49	14.83	14.39	14.43			
10	16QAM	25	0	14.80	14.91	14.81			
10	16QAM	25	12	14.86	14.83	14.59	16	0	
10	16QAM	25	25	14.71	14.67	14.65			
10	16QAM	50	0	14.83	14.78	14.63			
10	16QAM	50	1	14.81	14.83	14.67			
10	64QAM	1	25	14.87	14.81	14.43	16	0	
10	64QAM	1	49	14.84	14.47	14.59			
10	64QAM	25	0	14.91	14.84	14.65			
10	64QAM	25	12	14.92	14.80	14.60	16	0	
10	64QAM	25	25	14.82	14.74	14.67			
10	64QAM	50	0	14.87	14.83	14.83			
Channel				26085	26340	26665	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1912.5			
5	QPSK	1	0	15.18	14.98	14.90			
5	QPSK	1	12	14.99	14.86	14.90	16	0	
5	QPSK	1	24	14.99	14.88	14.63			
5	QPSK	12	0	14.93	14.81	14.74			
5	QPSK	12	7	14.88	14.79	14.62	16	0	
5	QPSK	12	13	14.77	14.63	14.73			
5	QPSK	25	0	14.82	14.61	14.63			
5	16QAM	1	0	14.79	14.67	14.69			
5	16QAM	1	12	14.80	14.58	14.48	16	0	
5	16QAM	1	24	14.83	14.36	14.47			
5	16QAM	12	0	14.91	14.82	14.75			
5	16QAM	12	7	14.86	14.82	14.65	16	0	
5	16QAM	12	13	14.73	14.76	14.59			
5	16QAM	25	0	14.81	14.74	14.63			
5	64QAM	1	0	14.86	14.79	14.63			
5	64QAM	1	12	14.89	14.78	14.45	16	0	
5	64QAM	1	24	14.78	14.49	14.49			
5	64QAM	12	0	14.91	14.83	14.67			
5	64QAM	12	7	14.81	14.66	14.67	16	0	
5	64QAM	12	13	14.88	14.73	14.61			
5	64QAM	25	0	14.86	14.80	14.75			
Channel				26055	26340	26675	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1851.5	1880	1913.5			
3	QPSK	1	0	15.19	14.95	14.90			
3	QPSK	1	8	14.98	14.90	14.87	16	0	
3	QPSK	1	14	14.94	14.91	14.67			
3	QPSK	8	0	14.91	14.82	14.76			
3	QPSK	8	4	14.84	14.74	14.66	16	0	
3	QPSK	8	7	14.80	14.64	14.69			
3	QPSK	15	0	14.82	14.70	14.59			
3	16QAM	1	0	14.81	14.58	14.68			
3	16QAM	1	8	14.79	14.66	14.52	16	0	
3	16QAM	1	14	14.84	14.40	14.39			
3	16QAM	8	0	14.88	14.84	14.65			
3	16QAM	8	4	14.75	14.83	14.65	16	0	
3	16QAM	8	7	14.69	14.74	14.65			
3	16QAM	15	0	14.82	14.79	14.58			
3	64QAM	1	0	14.87	14.81	14.66			
3	64QAM	1	8	14.96	14.85	14.48	16	0	
3	64QAM	1	14	14.87	14.43	14.53			
3	64QAM	8	0	14.88	14.79	14.67			
3	64QAM	8	4	14.84	14.85	14.68	16	0	
3	64QAM	8	7	14.83	14.74	14.70			



Band 30									
BW [MHz]	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	15.22					
10	QPSK	1	25	14.86			16.5	0	
10	QPSK	1	49	14.96					
10	QPSK	25	0	14.85					
10	QPSK	25	12	14.86			16.5	0	
10	QPSK	25	25	14.76					
10	QPSK	50	0	14.76					
10	16QAM	1	0	14.78					
10	16QAM	1	25	15.09			16.5	0	
10	16QAM	1	49	14.75					
10	16QAM	25	0	14.67					
10	16QAM	25	12	14.72			16.5	0	
10	16QAM	25	25	14.57					
10	16QAM	50	0	14.52					
10	64QAM	1	0	14.90					
10	64QAM	1	25	14.85			16.5	0	
10	64QAM	1	49	14.94					
10	64QAM	25	0	14.68					
10	64QAM	25	12	14.64			16.5	0	
10	64QAM	25	25	14.54					
10	64QAM	50	0	14.59					
Channel									
Frequency (MHz)									
5	QPSK	1	0	14.73	14.79	14.88			
5	QPSK	1	12	14.76	14.83	14.70	16.5	0	
5	QPSK	1	24	14.70	14.88	14.75			
5	QPSK	12	0	14.85	14.79	14.77			
5	QPSK	12	7	14.52	14.55	14.50	16.5	0	
5	QPSK	12	13	14.71	14.73	14.65			
5	QPSK	25	0	14.77	14.68	14.80			
5	16QAM	1	0	15.16	14.99	15.03	16.5	0	
5	16QAM	1	12	14.78	15.06	14.74			
5	16QAM	1	24	15.10	14.93	14.95			
5	16QAM	12	0	14.60	14.62	14.61			
5	16QAM	12	7	14.58	14.55	14.64	16.5	0	
5	16QAM	12	13	14.58	14.53	14.54			
5	16QAM	25	0	14.57	14.61	14.58			
5	64QAM	1	0	14.78	15.06	14.74			
5	64QAM	1	12	15.09	15.04	14.98	16.5	0	
5	64QAM	1	24	14.97	14.93	14.85			
5	64QAM	12	0	14.71	14.67	14.67			
5	64QAM	12	7	14.59	14.65	14.71	16.5	0	
5	64QAM	12	13	14.58	14.54	14.62			
5	64QAM	25	0	14.55	14.54	14.65			

Band 66									
BW [MHz]	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	15.99	15.75	15.82			
20	QPSK	1	49	15.57	15.88	15.44	16.6	0	
20	QPSK	1	99	15.51	15.66	15.40			
20	QPSK	50	0	15.44	15.54	15.34			
20	QPSK	50	24	15.50	15.50	15.53	16.6	0	
20	QPSK	50	50	15.22	15.54	15.37			
20	QPSK	100	0	15.58	15.64	15.60			
20	16QAM	1	0	15.51	15.53	15.71			
20	16QAM	1	49	15.47	15.54	15.51	16.6	0	
20	16QAM	1	99	15.34	15.67	15.56			
20	16QAM	50	0	15.35	15.48	15.32			
20	16QAM	50	24	15.54	15.57	15.33	16.6	0	
20	16QAM	50	50	15.49	15.56	15.26			
20	16QAM	100	0	15.51	15.51	15.29			
20	64QAM	1	0	15.63	15.72	15.64			
20	64QAM	1	49	15.46	15.71	15.66	16.6	0	
20	64QAM	1	99	15.64	15.61	15.67			
20	64QAM	50	0	15.46	15.58	15.33			
20	64QAM	50	24	15.58	15.64	15.41	16.6	0	
20	64QAM	50	50	15.42	15.58	15.48			
20	64QAM	100	0	15.60	15.66	15.35			
Channel									
Frequency (MHz)									
15	QPSK	1	0	15.51	15.68	15.62			
15	QPSK	1	37	15.51	15.67	15.36	16.6	0	
15	QPSK	1	74	15.47	15.61	15.37			
15	QPSK	36	0	15.45	15.49	15.33			
15	QPSK	36	20	15.46	15.60	15.46	16.6	0	
15	QPSK	36	39	15.50	15.50	15.34			
15	QPSK	75	0	15.52	15.63	15.58			
15	16QAM	1	0	15.42	15.52	15.63			
15	16QAM	1	37	15.46	15.55	15.49	16.6	0	
15	16QAM	1	74	15.30	15.65	15.53			
15	16QAM	36	0	15.27	15.39	15.28			
15	16QAM	36	20	15.51	15.53	15.27	16.6	0	
15	16QAM	36	39	15.42	15.47	15.27			
15	16QAM	75	0	15.45	15.47	15.28			
15	64QAM	1	0	15.62	15.70	15.56			
15	64QAM	1	37	15.37	15.69	15.60	16.6	0	
15	64QAM	1	74	15.55	15.59	15.65			
15	64QAM	36	0	15.40	15.59	15.25			
15	64QAM	36	20	15.51	15.64	15.39	16.6	0	
15	64QAM	36	39	15.42	15.52	15.49			
15	64QAM	75	0	15.40	15.54	15.35			
Channel									
Frequency (MHz)									
10	QPSK	1	0	15.56	15.73	15.60			
10	QPSK	1	25	15.54	15.68	15.37	16.6	0	
10	QPSK	1	49	15.46	15.59	15.40			
10	QPSK	25	0	15.44	15.48	15.27			
10	QPSK	25	12	15.50	15.58	15.51	16.6	0	
10	QPSK	25	25	15.46	15.54	15.29			
10	QPSK	50	0	15.56	15.57	15.53			
10	16QAM	1	0	15.52	15.44	15.71			
10	16QAM	1	25	15.44	15.53	15.42	16.6	0	
10	16QAM	1	49	15.35	15.64	15.52			
10	16QAM	25	0	15.30	15.45	15.27			
10	16QAM	25	12	15.51	15.51	15.28	16.6	0	
10	16QAM	25	25	15.42	15.50	15.20			
10	16QAM	50	0	15.42	15.51	15.25			
10	64QAM	1	0	15.59	15.64	15.56			
10	64QAM	1	25	15.37	15.68	15.63	16.6	0	
10	64QAM	1	49	15.62	15.52	15.58			
10	64QAM	25	0	15.40	15.67	15.28			
10	64QAM	25	12	15.56	15.60	15.35	16.6	0	
10	64QAM	25	25	15.37	15.51	15.46			
10	64QAM	50	0	15.42	15.65	15.31			
Channel									
Frequency (MHz)									
5	QPSK	1	0	15.56	15.70	15.53			
5	QPSK	1	12	15.49	15.66	15.42	16.6	0	
5	QPSK	1	24	15.50	15.57	15.37			
5	QPSK	12	0	15.38	15.48	15.25			
5	QPSK	12	7	15.50	15.57	15.52	16.6	0	
5	QPSK	12	13	15.52	15.53	15.35			
5	QPSK	25	0	15.58	15.61	15.51			
5	16QAM	1	0	15.46	15.45	15.27			
5	16QAM	1	12	15.48	15.52	15.42	16.6	0	
5	16QAM	1	24	15.26	15.67	15.56			
5	16QAM	12	0	15.30	15.46	15.24			
5	16QAM	12	7	15.47	15.58	15.29	16.6	0	
5	16QAM	12	13	15.50	15.51	15.21			
5	16QAM	25	0	15.46	15.45	15.27			
5	64QAM	1	0	15.56	15.63	15.56			
5	64QAM	1	12	15.38	15.70	15.58	16.6	0	
5	64QAM	1	24	15.64	15.62	15.60			
5	64QAM	12	0	15.45	15.60	15.33			
5	64QAM	12	7	15.54	15.59	15.34	16.6	0	
5	64QAM	12	13	15.41	15.54	15.41			
5	64QAM	25	0	15.45	15.62	15.30			
Channel									
Frequency (MHz)									
3	QPSK	1	0	15.54	15.67	15.61			
3	QPSK	1	8	15.54	15.67	15.36	16.6	0	
3	QPSK	1	14	15.52	15.67	15.32			
3	QPSK	8	0	15.35	15.53	15.28			
3	QPSK	8	4	15.43	15.61	15.49	16.6	0	
3	QPSK	8	7	15.52	15.55	15.35			
3	QPSK	15	0	15.49	15.65	15.52			
3	16QAM	1	0	15.42	15.48	15.69			
3	16Q								



DS13 for body worn by UAT

Band 2 (1900MHz Band) Part 24E										
BW (MHz)	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	17.03	17.00	16.64				
20	QPSK	1	49	16.87	16.80	16.65	17.8	0		
20	QPSK	1	99	16.72	16.60	16.47				
20	QPSK	50	0	16.78	16.74	16.68				
20	QPSK	50	24	16.72	16.74	16.62	17.8	0		
20	QPSK	50	50	16.67	16.65	16.60				
20	QPSK	100	0	16.61	16.68	16.69				
20	16QAM	1	0	16.93	16.99	17.00				
20	16QAM	1	49	16.89	17.00	16.94	17.8	0		
20	16QAM	1	99	16.96	16.90	16.97				
20	16QAM	50	0	16.70	16.73	16.80				
20	16QAM	50	24	16.82	16.76	16.80	17.8	0		
20	16QAM	50	50	16.73	16.62	16.67				
20	16QAM	100	0	16.79	16.79	16.72				
20	64QAM	1	0	16.94	16.84	17.00				
20	64QAM	1	49	16.77	16.76	16.86	17.8	0		
20	64QAM	1	99	16.67	16.73	16.83				
20	64QAM	50	0	16.82	16.76	16.80	17.8	0		
20	64QAM	50	24	16.67	16.67	16.69				
20	64QAM	50	50	16.64	16.66	16.69				
20	64QAM	100	0	16.77	16.69	16.69				
Channel Frequency (MHz)										
				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	16.98	16.93	16.64				
15	QPSK	1	37	16.82	16.77	16.60	17.8	0		
15	QPSK	1	74	16.65	16.60	16.46				
15	QPSK	36	0	16.71	16.69	16.59				
15	QPSK	36	20	16.66	16.68	16.60	17.8	0		
15	QPSK	36	39	16.68	16.69	16.57				
15	QPSK	75	0	16.77	16.67	16.70				
15	16QAM	1	0	16.83	16.94	16.91				
15	16QAM	1	37	16.84	16.98	16.95	17.8	0		
15	16QAM	1	74	16.69	16.91	16.97				
15	16QAM	36	0	16.68	16.72	16.77				
15	16QAM	36	20	16.65	16.71	16.61	17.8	0		
15	16QAM	36	39	16.74	16.57	16.58				
15	16QAM	75	0	16.77	16.76	16.73				
15	64QAM	1	0	16.88	16.76	16.97				
15	64QAM	1	37	16.75	16.76	16.89	17.8	0		
15	64QAM	1	74	16.59	16.71	16.81				
15	64QAM	36	0	16.82	16.71	16.80				
15	64QAM	36	20	16.65	16.62	16.66	17.8	0		
15	64QAM	36	39	16.60	16.64	16.62				
15	64QAM	75	0	16.72	16.63	16.70				
Channel Frequency (MHz)										
				18850	18900	19150	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	0	17.01	16.94	16.55				
10	QPSK	1	25	16.78	16.78	16.55	17.8	0		
10	QPSK	1	49	16.70	16.52	16.37				
10	QPSK	25	0	16.73	16.73	16.68				
10	QPSK	25	12	16.73	16.67	16.62	17.8	0		
10	QPSK	25	25	16.68	16.70	16.50				
10	QPSK	50	0	16.81	16.63	16.59				
10	16QAM	1	0	16.83	16.99	16.99				
10	16QAM	1	25	16.90	16.98	16.91	17.8	0		
10	16QAM	1	49	16.86	16.91	16.95				
10	16QAM	25	0	16.71	16.70	16.74				
10	16QAM	25	12	16.70	16.70	16.56	17.8	0		
10	16QAM	25	25	16.65	16.56	16.59				
10	16QAM	50	0	16.80	16.77	16.73				
10	64QAM	1	0	16.88	16.84	16.96				
10	64QAM	1	25	16.67	16.67	16.87	17.8	0		
10	64QAM	1	49	16.67	16.64	16.81				
10	64QAM	25	0	16.74	16.74	16.89				
10	64QAM	25	12	16.62	16.59	16.69	17.8	0		
10	64QAM	25	25	16.61	16.61	16.65				
10	64QAM	50	0	16.75	16.64	16.60				
Channel Frequency (MHz)										
				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	0	17.00	16.98	16.60				
5	QPSK	1	12	16.84	16.85	16.67	17.8	0		
5	QPSK	1	24	16.67	16.50	16.42				
5	QPSK	12	0	16.68	16.71	16.61				
5	QPSK	12	7	16.62	16.64	16.63	17.8	0		
5	QPSK	12	13	16.60	16.71	16.50				
5	QPSK	25	0	16.76	16.66	16.67				
5	16QAM	1	0	16.89	17.00	16.96				
5	16QAM	1	12	16.90	16.96	16.93	17.8	0		
5	16QAM	1	24	16.89	16.83	16.87				
5	16QAM	12	0	16.62	16.66	16.79				
5	16QAM	12	7	16.63	16.72	16.60	17.8	0		
5	16QAM	12	13	16.73	16.60	16.62				
5	16QAM	25	0	16.72	16.80	16.72				
5	64QAM	1	0	16.88	16.80	16.89				
5	64QAM	1	12	16.75	16.69	16.88	17.8	0		
5	64QAM	1	24	16.68	16.63	16.78				
5	64QAM	12	0	16.74	16.73	16.70				
5	64QAM	12	7	16.65	16.62	16.64	17.8	0		
5	64QAM	12	13	16.62	16.56	16.65				
5	64QAM	25	0	16.77	16.65	16.65				
Channel Frequency (MHz)										
				18915	18900	19195	Tune-up limit (dBm)	MPR (dB)		
3	QPSK	1	0	16.99	16.99	16.59				
3	QPSK	1	8	16.88	16.74	16.66	17.8	0		
3	QPSK	1	14	16.67	16.59	16.42				
3	QPSK	8	0	16.73	16.70	16.61				
3	QPSK	8	4	16.63	16.56	16.63	17.8	0		
3	QPSK	8	7	16.62	16.71	16.50				
3	QPSK	15	0	16.78	16.69	16.65				
3	16QAM	1	0	16.85	16.89	16.97				
3	16QAM	1	8	16.82	16.98	16.95	17.8	0		
3	16QAM	1	14	16.89	16.90	16.88				
3	16QAM	8	0	16.62	16.63	16.71				
3	16QAM	8	4	16.62	16.70	16.65	17.8	0		
3	16QAM	8	7	16.66	16.54	16.64				
3	16QAM	15	0	16.72	16.76	16.62				
3	64QAM	1	0	16.91	16.84	16.91				
3	64QAM	1	8	16.73	16.77	16.83	17.8	0		
3	64QAM	1	14	16.62	16.69	16.74				
3	64QAM	8	0	16.72	16.66	16.75				
3	64QAM	8	4	16.62	16.65	16.64	17.8	0		
3	64QAM	8	7	16.57	16.66	16.60				
3	64QAM	15	0	16.74	16.64	16.68				
Channel Frequency (MHz)										
				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)		
1.4	QPSK	1	0	16.94	17.01	16.56				
1.4	QPSK	1	3	16.83	16.75	16.59	17.8	0		
1.4	QPSK	1	5	16.69	16.60	16.48				
1.4	QPSK	3	0	16.72	16.71	16.63				
1.4	QPSK	3	1	16.70	16.66	16.63	17.8	0		
1.4	QPSK	3	3	16.67	16.60	16.50				
1.4	QPSK	6	0	16.71	16.66	16.59	17.8	0		
1.4	16QAM	1	0	16.79	16.99	16.89				
1.4	16QAM	1	3	16.88	16.89	16.95	17.8	0		
1.4	16QAM	3	0	16.61	16.70	16.78				
1.4	16QAM	3	1	16.69	16.67	16.84	17.8	0		
1.4	16QAM	3	3	16.74	16.60	16.57				
1.4	16QAM	6	0	16.77	16.76	16.95	17.8	0		
1.4	64QAM	1	0	16.90	16.75	16.95				
1.4	64QAM	1	3	16.77	16.70	16.86	17.8	0		
1.4	64QAM	3	0	16.64	16.64	16.63				
1.4	64QAM	3	3	16.60	16.56	16.64				
1.4	64QAM	6	0	16.77	16.67	16.64	17.8	0</		



Band 30									
BW (MHz)	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	15.73			16.5	0	
10	QPSK	1	25	15.46					
10	QPSK	1	49	15.49					
10	QPSK	25	0	15.38			16.5	0	
10	QPSK	25	12	15.42					
10	QPSK	25	25	15.27					
10	QPSK	50	0	15.23			16.5	0	
10	16QAM	1	0	15.56					
10	16QAM	1	25	15.53					
10	16QAM	1	49	15.34			16.5	0	
10	16QAM	25	0	15.46					
10	16QAM	25	12	15.39					
10	16QAM	25	25	15.37			16.5	0	
10	16QAM	50	0	15.32					
10	64QAM	1	0	15.64					
10	64QAM	1	25	15.50			16.5	0	
10	64QAM	1	49	15.52					
10	64QAM	25	0	15.41					
10	64QAM	25	12	15.31			16.5	0	
10	64QAM	25	25	15.38					
10	64QAM	50	0	15.27					
Channel				2765	2770	2775	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	0	15.39	15.27	15.25			16.5
5	QPSK	1	12	15.43	15.29	15.34			
5	QPSK	1	24	15.31	15.13	15.24			
5	QPSK	12	0	15.38	15.42	15.32	16.5	0	
5	QPSK	12	7	15.36	15.33	15.41			
5	QPSK	12	13	15.23	15.33	15.26			
5	QPSK	25	0	15.27	15.24	15.34	16.5	0	
5	16QAM	1	0	15.61	15.63	15.43			
5	16QAM	1	12	15.44	15.61	15.57			
5	16QAM	1	24	15.33	15.42	15.35	16.5	0	
5	16QAM	12	0	15.35	15.37	15.38			
5	16QAM	12	7	15.34	15.38	15.40			
5	16QAM	12	13	15.28	15.31	15.34	16.5	0	
5	16QAM	25	0	15.25	15.31	15.39			
5	64QAM	1	0	15.60	15.69	15.57			
5	64QAM	1	12	15.66	15.67	15.38	16.5	0	
5	64QAM	1	24	15.63	15.54	15.35			
5	64QAM	12	0	15.56	15.54	15.38			
5	64QAM	12	7	15.50	15.46	15.41	16.5	0	
5	64QAM	12	13	15.39	15.37	15.32			
5	64QAM	25	0	15.34	15.32	15.37			

Band 66									
BW (MHz)	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	17.43	17.61	17.52	18.4	0	
20	QPSK	1	49	17.44	17.68	17.51			
20	QPSK	1	99	17.29	17.56	17.37			
20	QPSK	50	0	17.34	17.37	17.31	18.4	0	
20	QPSK	50	24	17.39	17.42	17.23			
20	QPSK	50	50	17.29	17.40	17.20			
20	QPSK	100	0	17.28	17.34	17.10	18.4	0	
20	16QAM	1	0	17.79	17.62	17.51			
20	16QAM	1	49	17.75	17.80	17.78			
20	16QAM	1	99	17.74	17.68	17.71	18.4	0	
20	16QAM	50	0	17.31	17.42	17.29			
20	16QAM	50	24	17.26	17.43	17.20			
20	16QAM	50	50	17.24	17.38	17.18	18.4	0	
20	16QAM	100	0	17.36	17.45	17.22			
20	64QAM	1	0	17.56	17.12	17.06			
20	64QAM	1	49	17.62	17.19	17.08	18.4	0	
20	64QAM	1	99	17.48	17.48	16.88			
20	64QAM	50	0	17.17	17.45	17.37			
20	64QAM	50	24	17.68	17.50	17.26	18.4	0	
20	64QAM	50	50	17.30	17.38	17.27			
20	64QAM	100	0	17.31	17.34	17.02			
Channel				132047	132322	132567	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	17.34	17.74	17.46			18.4
15	QPSK	1	37	17.41	17.68	17.42			
15	QPSK	1	74	17.28	17.49	17.30			
15	QPSK	36	0	17.26	17.34	17.30	18.4	0	
15	QPSK	36	20	17.33	17.42	17.18			
15	QPSK	36	39	17.30	17.32	17.10			
15	QPSK	75	0	17.27	17.33	17.00	18.4	0	
15	16QAM	1	0	17.72	17.52	17.45			
15	16QAM	1	37	17.74	17.78	17.68			
15	16QAM	1	74	17.65	17.62	17.68	18.4	0	
15	16QAM	36	0	17.26	17.37	17.22			
15	16QAM	36	20	17.22	17.40	16.96			
15	16QAM	36	39	17.25	17.38	17.14	18.4	0	
15	16QAM	75	0	17.27	17.45	17.17			
15	64QAM	1	0	17.48	17.05	17.07			
15	64QAM	1	37	17.55	17.14	16.99	18.4	0	
15	64QAM	1	74	17.44	17.44	16.80			
15	64QAM	36	0	17.10	17.40	17.31			
15	64QAM	36	20	17.61	17.43	17.20	18.4	0	
15	64QAM	36	39	17.20	17.35	17.22			
15	64QAM	75	0	17.25	17.33	16.94			
Channel				132922	132322	132522	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	0	17.33	17.71	17.49			18.4
10	QPSK	1	25	17.43	17.61	17.44			
10	QPSK	1	49	17.19	17.56	17.30			
10	QPSK	25	0	17.25	17.37	17.29	18.4	0	
10	QPSK	25	12	17.30	17.41	17.17			
10	QPSK	25	25	17.19	17.41	17.16			
10	QPSK	50	0	17.27	17.31	17.05	18.4	0	
10	16QAM	1	0	17.76	17.56	17.49			
10	16QAM	1	25	17.66	17.75	17.72			
10	16QAM	1	49	17.75	17.67	17.67	18.4	0	
10	16QAM	25	0	17.25	17.33	17.26			
10	16QAM	25	12	17.24	17.44	16.96			
10	16QAM	25	25	17.23	17.28	17.18	18.4	0	
10	16QAM	50	0	17.33	17.41	17.17			
10	64QAM	1	0	17.50	17.13	17.01			
10	64QAM	1	25	17.52	17.10	16.98	18.4	0	
10	64QAM	1	49	17.47	17.45	16.80			
10	64QAM	25	0	17.19	17.38	17.31			
10	64QAM	25	12	17.68	17.49	17.24	18.4	0	
10	64QAM	25	25	17.30	17.31	17.17			
10	64QAM	50	0	17.22	17.33	16.96			
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	0	17.37	17.77	17.47			18.4
5	QPSK	1	12	17.39	17.59	17.43			
5	QPSK	1	24	17.30	17.47	17.29			
5	QPSK	12	0	17.34	17.29	17.24	18.4	0	
5	QPSK	12	7	17.40	17.33	17.17			
5	QPSK	12	13	17.27	17.34	17.16			
5	QPSK	25	0	17.21	17.29	17.08	18.4	0	
5	16QAM	1	0	17.74	17.55	17.46			
5	16QAM	1	12	17.73	17.72	17.75			
5	16QAM	1	24	17.73	17.64	17.61	18.4	0	
5	16QAM	12	0	17.31	17.42	17.23			
5	16QAM	12	7	17.24	17.37	16.93			
5	16QAM	12	13	17.15	17.32	17.18	18.4	0	
5	16QAM	25	0	17.29	17.46	17.16			
5	64QAM	1	0	17.57	17.09	17.05			
5	64QAM	1	12	17.59	17.20	17.04	18.4	0	
5	64QAM	1	24	17.41	17.41	16.79			
5	64QAM	12	0	17.12	17.36	17.36			
5	64QAM	12	7	17.58	17.50	17.21	18.4	0	
5	64QAM	12	13	17.22	17.35	17.27			
5	64QAM	25	0	17.30	17.25	17.03			
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1711.5	1745	1776.5			
3	QPSK	1	0	17.43	17.80	17.45			18.4
3	QPSK	1	6	17.41	17.60	17.46			
3	QPSK	1	14	17.20	17.47	17.31			
3	QPSK	8	0	17.30	17.35	17.26	18.4	0	
3	QPSK	8	4	17.35	17.37	17.23			
3	QPSK	8	7	17.30	17.32	17.13			
3	QPSK	15	0	17.22	17.29	17.10	18.4	0	
3	16QAM	1	0	17.69	17.63	17.41			
3	16QAM	1	6	17.71	17.76	17.78			
3	16QAM	1	14	17.65	17.58	17.62	18.4	0	
3	16QAM	8	0	17.27	17.32	17.21			
3	16QAM	8	4	17.20	17.40	16.97			
3	16QAM	8	7	17.18	17.38	17.12	18.4	0	
3	16QAM	15	0	17.31	17.40	17.23			
3	64QAM	1	0	17.56					



Band 48 (3.5G Band)-FCC										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low-Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MPR (dB)	
Channel				58340	58830	56150	56940			
Frequency (MHz)				3660	3609	3641	3690			
20	QPSK	1	0	15.50	15.38	15.28	15.40	16.9	0	
20	QPSK	1	49	15.38	15.30	15.22	15.41			
20	QPSK	1	99	15.42	15.33	15.26	15.43			
20	QPSK	50	0	15.48	15.38	15.14	15.46			
20	QPSK	50	24	15.39	15.39	15.23	15.46	16.9	0	
20	QPSK	50	50	15.42	15.30	15.31	15.48			
20	QPSK	100	0	15.46	15.30	15.36	15.37			
20	16QAM	1	0	15.37	15.30	15.29	15.11			
20	16QAM	1	49	15.27	15.09	15.31	15.31	16.9	0	
20	16QAM	1	99	15.19	15.26	15.06	15.32			
20	16QAM	50	0	15.14	15.31	15.32	15.31			
20	16QAM	50	24	15.28	15.31	15.31	15.38			
20	16QAM	50	50	15.32	15.27	15.28	15.30	16.9	0	
20	16QAM	100	0	15.38	15.34	15.03	15.31			
20	64QAM	1	0	15.42	15.26	15.26	14.97			
20	64QAM	1	49	15.30	15.22	15.02	15.12			
20	64QAM	1	99	15.38	15.26	15.36	15.19	16.9	0	
20	64QAM	50	0	15.28	15.20	15.14	15.40			
20	64QAM	50	24	15.32	15.30	15.11	15.13			
20	64QAM	50	50	15.36	15.09	15.13	15.36			
20	64QAM	100	0	15.35	15.31	15.37	15.32	16.9	0	
Channel				58315	58820	56160	56655			
Frequency (MHz)				3557.5	3608	3642	3692.5			
15	QPSK	1	0	15.41	15.31	15.24	15.32			16.9
15	QPSK	1	37	15.35	15.22	15.18	15.39			
15	QPSK	1	74	15.42	15.24	15.27	15.40			
15	QPSK	36	0	15.40	15.38	15.09	15.36			
15	QPSK	36	20	15.31	15.34	15.15	15.39	16.9	0	
15	QPSK	36	39	15.42	15.20	15.21	15.48			
15	QPSK	75	0	15.43	15.31	15.35	15.28			
15	16QAM	1	0	15.37	15.29	15.24	15.05			
15	16QAM	1	37	15.25	15.10	15.24	15.30	16.9	0	
15	16QAM	1	74	15.12	15.20	15.02	15.25			
15	16QAM	36	0	15.09	15.27	15.30	15.22			
15	16QAM	36	20	15.19	15.24	15.25	15.29			
15	16QAM	36	39	15.25	15.17	15.23	15.29	16.9	0	
15	16QAM	75	0	15.38	15.35	14.97	15.29			
15	64QAM	1	0	15.39	15.25	15.21	14.93			
15	64QAM	1	37	15.30	15.17	15.03	15.08			
15	64QAM	1	74	15.32	15.20	15.35	15.15	16.9	0	
15	64QAM	36	0	15.27	15.17	15.04	15.37			
15	64QAM	36	20	15.30	15.27	15.09	15.08			
15	64QAM	36	39	15.36	15.09	15.05	15.37			
15	64QAM	75	0	15.27	15.31	15.28	15.28	16.9	0	
Channel				55290	55810	56165	56690			
Frequency (MHz)				3553	3597.5	3643	3693			
10	QPSK	1	0	15.34	15.31	15.21	15.30			16.9
10	QPSK	1	25	15.37	15.25	15.18	15.33			
10	QPSK	1	49	15.39	15.23	15.16	15.36			
10	QPSK	25	0	15.39	15.30	15.10	15.43			
10	QPSK	25	12	15.30	15.33	15.18	15.43	16.9	0	
10	QPSK	25	25	15.43	15.28	15.22	15.46			
10	QPSK	50	0	15.42	15.23	15.30	15.37			
10	16QAM	1	0	15.35	15.20	15.23	15.07			
10	16QAM	1	25	15.21	15.04	15.23	15.28	16.9	0	
10	16QAM	1	49	15.14	15.20	14.98	15.32			
10	16QAM	25	0	15.04	15.30	15.30	15.25			
10	16QAM	25	12	15.23	15.25	15.25	15.34			
10	16QAM	25	25	15.23	15.20	15.27	15.22	16.9	0	
10	16QAM	50	0	15.37	15.24	14.95	15.28			
10	64QAM	1	0	15.38	15.16	15.27	14.93			
10	64QAM	1	25	15.30	15.22	14.93	15.13			
10	64QAM	1	49	15.34	15.19	15.27	15.09	16.9	0	
10	64QAM	25	0	15.24	15.11	15.10	15.30			
10	64QAM	25	12	15.30	15.27	15.10	15.12			
10	64QAM	25	25	15.34	15.09	15.08	15.27			
10	64QAM	50	0	15.36	15.31	15.30	15.33	16.9	0	
Channel				55265	55810	56170	56715			
Frequency (MHz)				3552.5	3607	3643	3697.5			
5	QPSK	1	0	15.40	15.37	15.22	15.30			16.9
5	QPSK	1	12	15.35	15.22	15.21	15.34			
5	QPSK	1	24	15.37	15.23	15.27	15.34			
5	QPSK	12	0	15.43	15.32	15.10	15.46			
5	QPSK	12	7	15.31	15.39	15.20	15.37	16.9	0	
5	QPSK	12	13	15.33	15.26	15.31	15.39			
5	QPSK	25	0	15.45	15.27	15.27	15.37			
5	16QAM	1	0	15.37	15.28	15.18	15.12			
5	16QAM	1	12	15.28	15.00	15.22	15.24	16.9	0	
5	16QAM	1	24	15.09	15.16	15.04	15.25			
5	16QAM	12	0	15.06	15.31	15.33	15.26			
5	16QAM	12	7	15.25	15.32	15.28	15.35			
5	16QAM	12	13	15.29	15.21	15.24	15.22	16.9	0	
5	16QAM	25	0	15.29	15.30	14.94	15.29			
5	64QAM	1	0	15.35	15.23	15.16	14.91			
5	64QAM	1	12	15.24	15.13	15.00	15.03			
5	64QAM	1	24	15.39	15.22	15.29	15.18	16.9	0	
5	64QAM	12	0	15.27	15.10	15.04	15.35			
5	64QAM	12	7	15.31	15.30	15.12	15.04			
5	64QAM	12	13	15.36	15.05	15.05	15.31			
5	64QAM	25	0	15.26	15.27	15.37	15.28	16.9	0	



DS3.13m-Tx for Body-worn for UAT

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Includes sub-headers for Band 2 (1900MHz Band) Part 24E and Band 4 (AWS Band) Part 27L (only on channel required).

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Includes sub-headers for Band 4 (AWS Band) Part 27L (only on channel required) and Band 5 (Cellular Band) Part 22H (only on channel required).

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Includes sub-headers for Band 5 (Cellular Band) Part 22H (only on channel required).



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	2194	2163	2189	23.1	0	
10	QPSK	1	25	2204	2190	2187			
10	QPSK	1	49	2215	2196	2190			
10	QPSK	25	0	2177	2189	2180	23	0.1	
10	QPSK	25	12	2191	2185	2179			
10	QPSK	25	25	2194	2189	2174			
10	QPSK	50	0	2195	2177	2187	23	0.1	
10	16QAM	1	0	2201	2182	2179			
10	16QAM	1	25	2187	2165	2180			
10	16QAM	1	49	2182	2176	2168	22	1.1	
10	16QAM	25	0	2139	2135	2126			
10	16QAM	25	12	2135	2131	2122			
10	16QAM	25	25	2136	2134	2122	22	1.1	
10	16QAM	50	0	2122	2130	2122			
10	64QAM	1	0	2190	2116	2113			
10	64QAM	1	25	2127	2119	2117	22	1.1	
10	64QAM	1	49	2169	2102	2114			
10	64QAM	25	0	1938	1936	1932			
10	64QAM	25	12	2009	1989	1991	21	2.1	
10	64QAM	25	25	1995	1992	1992			
10	64QAM	50	0	1993	1981	1986			
Channel									
Frequency (MHz)									
5	QPSK	1	0	2184	2162	2189	23.1	0	
5	QPSK	1	12	2203	2181	2178			
5	QPSK	1	24	2212	2187	2187			
5	QPSK	12	0	2174	2179	2170	23	0.1	
5	QPSK	12	7	2185	2179	2171			
5	QPSK	12	13	2195	2180	2165			
5	QPSK	25	0	2186	2171	2179	23	0.1	
5	16QAM	1	0	2196	2176	2174			
5	16QAM	1	12	2184	2159	2177			
5	16QAM	1	24	2174	2172	2163	22	1.1	
5	16QAM	12	0	2138	2126	2117			
5	16QAM	12	7	2128	2130	2124			
5	16QAM	12	13	2126	2132	2118	22	1.1	
5	16QAM	25	0	2119	2122	2117			
5	64QAM	1	0	2182	2110	2106			
5	64QAM	1	12	2127	2120	2117	22	1.1	
5	64QAM	1	24	2161	2096	2110			
5	64QAM	12	0	1980	1994	1978			
5	64QAM	12	7	2008	1985	1989	21	2.1	
5	64QAM	12	13	1989	1984	1988			
5	64QAM	25	0	1934	1981	1987			
Channel									
Frequency (MHz)									
3	QPSK	1	0	2194	2160	2188	23.1	0	
3	QPSK	1	8	2196	2185	2182			
3	QPSK	1	14	2209	2195	2191			
3	QPSK	8	0	2167	2181	2174	23	0.1	
3	QPSK	8	4	2187	2177	2172			
3	QPSK	8	7	2195	2186	2170			
3	QPSK	15	0	2186	2169	2183	23	0.1	
3	16QAM	1	0	2193	2181	2178			
3	16QAM	1	8	2185	2166	2180			
3	16QAM	1	14	2181	2170	2160	22	1.1	
3	16QAM	8	0	2140	2127	2122			
3	16QAM	8	4	2126	2122	2131			
3	16QAM	8	7	2128	2132	2123	22	1.1	
3	16QAM	15	0	2118	2127	2123			
3	64QAM	1	0	2191	2117	2106			
3	64QAM	1	8	2123	2118	2118	22	1.1	
3	64QAM	1	14	2160	2093	2115			
3	64QAM	8	0	1931	1930	1934			
3	64QAM	8	4	2005	1986	1991	21	2.1	
3	64QAM	8	7	1987	1991	1990			
3	64QAM	15	0	1984	1979	1978			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	2186	2157	2180	23.1	0	
1.4	QPSK	1	3	2196	2186	2180			
1.4	QPSK	1	5	2210	2186	2190			
1.4	QPSK	3	0	2170	2180	2171	23	0.1	
1.4	QPSK	3	1	2182	2179	2169			
1.4	QPSK	3	3	2184	2189	2170			
1.4	QPSK	6	0	2191	2175	2179	23	0.1	
1.4	16QAM	1	0	2197	2182	2176			
1.4	16QAM	1	3	2193	2161	2173			
1.4	16QAM	1	5	2182	2169	2158	22	1.1	
1.4	16QAM	3	0	2134	2129	2118			
1.4	16QAM	3	1	2130	2124	2125			
1.4	16QAM	3	3	2127	2128	2123	22	1.1	
1.4	16QAM	6	0	2115	2121	2112			
1.4	64QAM	1	0	2188	2119	2106			
1.4	64QAM	1	3	2128	2116	2112	22	1.1	
1.4	64QAM	1	5	2161	2094	2113			
1.4	64QAM	3	0	2034	2030	2025			
1.4	64QAM	3	1	2045	2025	2037	21	2.1	
1.4	64QAM	3	3	2031	2029	2035			
1.4	64QAM	6	0	1932	1976	1984			

Band 14 (700MHz Band)									
BW [MHz]	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		2177		22.6	0	
10	QPSK	1	25		2158				
10	QPSK	1	49		2153				
10	QPSK	25	0		2157		22.6	0	
10	QPSK	25	12		2160				
10	QPSK	25	25		2159				
10	QPSK	50	0		2152		22.6	0	
10	16QAM	1	0		2159				
10	16QAM	1	25		2152				
10	16QAM	1	49		2128		22	0.6	
10	16QAM	25	0		2103				
10	16QAM	25	12		2116				
10	16QAM	25	25		2115		22	0.6	
10	16QAM	50	0		2097				
10	64QAM	1	0		2059				
10	64QAM	1	25		2088		22	0.6	
10	64QAM	1	49		2075				
10	64QAM	25	0		2079				
10	64QAM	25	12		2074		21	1.6	
10	64QAM	25	25		2078				
10	64QAM	50	0		2068				
Channel									
Frequency (MHz)									
5	QPSK	1	0	2144	2148	2142	22.6	0	
5	QPSK	1	12	2132	2138	2128			
5	QPSK	1	24	2126	2133	2128			
5	QPSK	12	0	2135	2133	2134	22.6	0	
5	QPSK	12	7	2140	2140	2138			
5	QPSK	12	13	2134	2132	2133			
5	QPSK	25	0	2127	2125	2123	22.6	0	
5	16QAM	1	0	2140	2138	2140			
5	16QAM	1	12	2128	2123	2131			
5	16QAM	1	24	2108	2108	2109	22	0.6	
5	16QAM	12	0	2078	2079	2079			
5	16QAM	12	7	2096	2088	2093			
5	16QAM	12	13	2087	2087	2090	22	0.6	
5	16QAM	25	0	2067	2074	2067			
5	64QAM	1	0	2077	2079	2069			
5	64QAM	1	12	2099	2103	2106	22	0.6	
5	64QAM	1	24	2093	2085	2095			
5	64QAM	12	0	2076	2070	2078			
5	64QAM	12	7	2088	2064	2074	21	1.6	
5	64QAM	12	13	2078	2069	2069			
5	64QAM	25	0	2059	2059	2060			

Band 17 (700MHz Band) Part 27H(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	2206	2187	2184	23.1	0	
10	QPSK	1	25	2193	2169	2183			
10	QPSK	1	49	2170	2160	2170			
10	QPSK	25	0	2155	2151	2151	23	0.1	
10	QPSK	25	12	2171	2149	2156			
10	QPSK	25	25	2152	2150	2149			
10	QPSK	50	0	2159	2144	2148	23	0.1	
10	16QAM	1	0	2170	2173	2179			
10	16QAM	1	25	2152	2175	2177			
10	16QAM	1	49	2157	2195	2185	22	1.1	
10	16QAM	25	0	2098	2097	2097			
10	16QAM	25	12	2113	2106	2108			
10	16QAM	25	25	2089	2086	2095	22	1.1	
10	16QAM	50	0	2090	2092	2087			
10	64QAM	1	0	2117	2067	2063			
10	64QAM	1	25	2117	2048	2118	22	1.1	
10	64QAM	1	49	2133	2081	2073			
10	64QAM	25	0	2000	2005	1994			
10	64QAM	25	12	2005	2005	1998	21	2.1	
10	64QAM	25	25	2003	2002	1984			
10	64QAM	50	0	1990	1992	1982			
Channel									



Band 25 (1900MHz Band) Part 24E										
BW (MHz)	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	12.73	12.71	12.57	13.6	0		
20	QPSK	1	49	12.64	12.62	12.41				
20	QPSK	1	99	12.51	12.61	12.40				
20	QPSK	50	0	12.60	12.55	12.49				
20	QPSK	50	24	12.52	12.50	12.32				
20	QPSK	50	50	12.58	12.56	12.37				
20	QPSK	100	0	12.58	12.52	12.45				
20	16QAM	1	0	12.47	12.57	12.62				
20	16QAM	1	49	12.39	12.43	12.34				
20	16QAM	1	99	12.27	12.23	12.26				
20	16QAM	50	0	12.69	12.55	12.44				
20	16QAM	50	24	12.63	12.57	12.45				
20	16QAM	50	50	12.50	12.47	12.32				
20	16QAM	100	0	12.58	12.59	12.47				
20	64QAM	1	0	12.63	12.63	12.68				
20	64QAM	1	49	12.62	12.54	12.61				
20	64QAM	1	99	12.38	12.33	12.28				
20	64QAM	50	0	12.70	12.68	12.54				
20	64QAM	50	24	12.68	12.67	12.25				
20	64QAM	50	50	12.65	12.56	12.03				
20	64QAM	100	0	12.68	12.64	12.21				
Channel										
Frequency (MHz)										
15	QPSK	1	0	12.63	12.61	12.51	13.6	0		
15	QPSK	1	37	12.58	12.55	12.36				
15	QPSK	1	74	12.52	12.53	12.37				
15	QPSK	36	0	12.55	12.53	12.40				
15	QPSK	36	20	12.49	12.50	12.27				
15	QPSK	36	39	12.53	12.48	12.29				
15	QPSK	75	0	12.51	12.44	12.44				
15	16QAM	1	0	12.43	12.36	12.63				
15	16QAM	1	37	12.38	12.41	12.29				
15	16QAM	1	74	12.26	12.13	12.25				
15	16QAM	36	0	12.62	12.51	12.34				
15	16QAM	36	20	12.56	12.55	12.42				
15	16QAM	36	39	12.43	12.48	12.33				
15	16QAM	75	0	12.50	12.49	12.42				
15	64QAM	1	0	12.57	12.59	12.68				
15	64QAM	1	37	12.52	12.48	12.56				
15	64QAM	1	74	12.37	12.33	12.18				
15	64QAM	36	0	12.67	12.66	12.52				
15	64QAM	36	20	12.64	12.66	12.17				
15	64QAM	36	39	12.66	12.46	12.01				
15	64QAM	75	0	12.58	12.54	12.14				
Channel										
Frequency (MHz)										
10	QPSK	1	0	12.63	12.67	12.49	13.6	0		
10	QPSK	1	25	12.60	12.62	12.35				
10	QPSK	1	49	12.50	12.57	12.35				
10	QPSK	25	0	12.54	12.54	12.40				
10	QPSK	25	12	12.49	12.46	12.32				
10	QPSK	25	25	12.48	12.58	12.38				
10	QPSK	50	0	12.52	12.47	12.46				
10	16QAM	1	0	12.40	12.48	12.62				
10	16QAM	1	25	12.35	12.39	12.34				
10	16QAM	1	49	12.21	12.21	12.16				
10	16QAM	25	0	12.67	12.45	12.37				
10	16QAM	25	12	12.58	12.54	12.38				
10	16QAM	25	25	12.46	12.39	12.24				
10	16QAM	50	0	12.50	12.51	12.44				
10	64QAM	1	0	12.56	12.60	12.65				
10	64QAM	1	25	12.61	12.46	12.61				
10	64QAM	1	49	12.37	12.32	12.19				
10	64QAM	25	0	12.60	12.63	12.53				
10	64QAM	25	12	12.65	12.58	12.16				
10	64QAM	25	25	12.62	12.50	12.03				
10	64QAM	50	0	12.63	12.58	12.22				
Channel										
Frequency (MHz)										
5	QPSK	1	0	12.66	12.62	12.51	13.6	0		
5	QPSK	1	12	12.54	12.62	12.38				
5	QPSK	1	24	12.43	12.56	12.41				
5	QPSK	12	0	12.57	12.53	12.48				
5	QPSK	12	7	12.48	12.47	12.27				
5	QPSK	12	13	12.52	12.50	12.34				
5	QPSK	25	0	12.54	12.52	12.45				
5	16QAM	1	0	12.43	12.35	12.63				
5	16QAM	1	12	12.38	12.35	12.31				
5	16QAM	1	24	12.19	12.23	12.22				
5	16QAM	12	0	12.62	12.47	12.34				
5	16QAM	12	7	12.59	12.54	12.46				
5	16QAM	12	13	12.40	12.44	12.28				
5	16QAM	25	0	12.54	12.60	12.43				
5	64QAM	1	0	12.53	12.61	12.65				
5	64QAM	1	12	12.55	12.50	12.54				
5	64QAM	1	24	12.36	12.31	12.18				
5	64QAM	12	0	12.67	12.64	12.49				
5	64QAM	12	7	12.59	12.58	12.25				
5	64QAM	12	13	12.64	12.46	11.93				
5	64QAM	25	0	12.58	12.50	12.19				
Channel										
Frequency (MHz)										
3	QPSK	1	0	12.69	12.63	12.48	13.6	0		
3	QPSK	1	8	12.54	12.53	12.32				
3	QPSK	1	14	12.43	12.54	12.37				
3	QPSK	8	0	12.54	12.52	12.37				
3	QPSK	8	4	12.47	12.51	12.23				
3	QPSK	8	7	12.53	12.52	12.36				
3	QPSK	15	0	12.53	12.43	12.40				
3	16QAM	1	0	12.40	12.48	12.58				
3	16QAM	1	8	12.38	12.40	12.24				
3	16QAM	1	14	12.22	12.15	12.23				
3	16QAM	8	0	12.59	12.45	12.41				
3	16QAM	8	4	12.62	12.51	12.38				
3	16QAM	8	7	12.45	12.38	12.26				
3	16QAM	15	0	12.56	12.52	12.45				
3	64QAM	1	0	12.64	12.53	12.68				
3	64QAM	1	8	12.59	12.54	12.57				
3	64QAM	1	14	12.30	12.26	12.22				
3	64QAM	8	0	12.65	12.66	12.44				
3	64QAM	8	4	12.64	12.64	12.17				
3	64QAM	8	7	12.55	12.53	12.02				
3	64QAM	15	0	12.62	12.58	12.14				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	12.71	12.63	12.57	13.6	0		
1.4	QPSK	1	3	12.54	12.61	12.38				
1.4	QPSK	1	5	12.47	12.53	12.41				
1.4	QPSK	3	0	12.56	12.46	12.42				
1.4	QPSK	3	1	12.51	12.47	12.33				
1.4	QPSK	3	3	12.51	12.52	12.36				
1.4	QPSK	6	0	12.48	12.42	12.43				
1.4	16QAM	1	0	12.41	12.56	12.56				
1.4	16QAM	1	3	12.32	12.33	12.26				
1.4	16QAM	3	0	12.64	12.50	12.42				
1.4	16QAM	3	1	12.58	12.50	12.36				
1.4	16QAM	3	3	12.45	12.37	12.29				
1.4	16QAM	6	0	12.51	12.49	12.42				
1.4	64QAM	1	0	12.57	12.55	12.65				
1.4	64QAM	1	3	12.63	12.48	12.51				
1.4	64QAM	1	5	12.37	12.30	12.20				
1.4	64QAM	3	0	12.65	12.65	12.49				
1.4	64QAM	3	1	12.63	12.60	12.20				
1.4	64QAM	3	3	12.57	12.56	12.00				
1.4	64QAM	6	0	12.58	12.58	12.12				

Band 26 for FCC (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)										
15	QPSK	1	0	21.24	21.20	20.96	21.7	0		
15	QPSK	1	37	21.23	20.73	20.90				
15	QPSK	1	74	21.08	20.95	20.67				
15	QPSK	36	0	21.04	20.80	20.74				
15	QPSK	36	20	21.05	20.85	20.66				
15	QPSK	36	39	21.19	20.96	20.92				
15	QPSK	75	0	21.09	20.94	20.70				
15	16QAM	1	0	21.06	20.91	20.81				
15	16QAM	1	37	20.81	20.71	20.60				
15	16QAM	1	74	20.81	20.72	20.47				
15	16QAM	36	0	20.71	20.52	20.45				
15	16QAM	36	20	20.67	20.53	20.35				
15	16QAM	36	39	20.67	20.45	20.31				
15	16QAM	75	0	20.84	20.50	20.28				
15	64QAM	1	0	20.94	20.99	20.59				
15	64QAM	1	37	20.73	20.85	20.46				
15	64QAM	1	74	20.73	20.68	20.34				
15	64QAM	36	0	20.71	20.85	20.81				
15	64QAM	36	20							



Band 66										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				132072	132072	132072				
Frequency (MHz)				1720	1745	1770				
20	QPSK	1	0	14.54	14.73	14.89				
20	QPSK	1	49	14.47	14.70	14.87	15.6	0		
20	QPSK	1	99	14.28	14.74	14.84				
20	QPSK	50	0	14.38	14.73	14.51				
20	QPSK	50	24	14.44	14.76	14.81	15.6	0		
20	QPSK	50	50	14.28	14.59	14.58				
20	QPSK	100	0	14.43	14.76	14.45				
20	16QAM	1	0	14.33	14.58	14.68				
20	16QAM	1	49	14.46	14.65	14.59	15.6	0		
20	16QAM	1	99	14.20	14.51	14.27				
20	16QAM	50	0	14.39	14.75	14.58				
20	16QAM	50	24	14.43	14.73	14.61	15.6	0		
20	16QAM	50	50	14.38	14.63	14.63				
20	16QAM	100	0	14.43	14.74	14.47				
20	64QAM	1	0	14.62	14.48	14.29				
20	64QAM	1	49	14.69	14.49	14.33	15.6	0		
20	64QAM	1	99	14.70	14.37	14.38				
20	64QAM	50	0	14.55	14.63	14.56				
20	64QAM	50	24	14.60	14.75	14.68	15.6	0		
20	64QAM	50	50	14.59	14.60	14.66				
20	64QAM	100	0	14.66	14.71	14.51				
Channel				132047	132322	132597				
Frequency (MHz)				1717.5	1745	1772.5				
15	QPSK	1	0	14.48	14.69	14.66				
15	QPSK	1	37	14.46	14.63	14.59	15.6	0		
15	QPSK	1	74	14.28	14.71	14.56				
15	QPSK	36	0	14.28	14.67	14.47				
15	QPSK	36	20	14.43	14.72	14.62	15.6	0		
15	QPSK	36	39	14.19	14.68	14.57				
15	QPSK	75	0	14.33	14.76	14.45				
15	16QAM	1	0	14.23	14.57	14.60				
15	16QAM	1	37	14.42	14.61	14.54	15.6	0		
15	16QAM	1	74	14.15	14.48	14.19				
15	16QAM	36	0	14.38	14.67	14.51				
15	16QAM	36	20	14.36	14.64	14.57	15.6	0		
15	16QAM	36	39	14.37	14.61	14.57				
15	16QAM	75	0	14.37	14.67	14.45				
15	64QAM	1	0	14.59	14.46	14.19				
15	64QAM	1	37	14.59	14.44	14.29	15.6	0		
15	64QAM	1	74	14.64	14.35	14.31				
15	64QAM	36	0	14.50	14.60	14.46				
15	64QAM	36	20	14.57	14.75	14.89	15.6	0		
15	64QAM	36	39	14.54	14.52	14.63				
15	64QAM	75	0	14.57	14.62	14.49				
Channel				132022	132322	132622				
Frequency (MHz)				1715	1745	1775				
10	QPSK	1	0	14.55	14.76	14.66				
10	QPSK	1	25	14.45	14.66	14.67	15.6	0		
10	QPSK	1	49	14.25	14.68	14.54				
10	QPSK	25	0	14.38	14.66	14.44				
10	QPSK	25	12	14.39	14.70	14.61	15.6	0		
10	QPSK	25	25	14.16	14.62	14.52				
10	QPSK	50	0	14.39	14.76	14.43				
10	16QAM	1	0	14.25	14.58	14.67				
10	16QAM	1	25	14.43	14.63	14.54	15.6	0		
10	16QAM	1	49	14.14	14.45	14.24				
10	16QAM	25	0	14.35	14.70	14.50				
10	16QAM	25	12	14.44	14.69	14.57	15.6	0		
10	16QAM	25	25	14.28	14.53	14.56				
10	16QAM	50	0	14.35	14.65	14.37				
10	64QAM	1	0	14.52	14.49	14.29				
10	64QAM	1	25	14.60	14.49	14.25	15.6	0		
10	64QAM	1	49	14.65	14.35	14.30				
10	64QAM	25	0	14.53	14.58	14.51				
10	64QAM	25	12	14.50	14.68	14.64	15.6	0		
10	64QAM	25	25	14.53	14.55	14.66				
10	64QAM	50	0	14.57	14.65	14.51				
Channel				131997	132322	132647				
Frequency (MHz)				1712.5	1745	1777.5				
5	QPSK	1	0	14.45	14.69	14.63				
5	QPSK	1	12	14.42	14.67	14.67	15.6	0		
5	QPSK	1	24	14.21	14.72	14.57				
5	QPSK	12	0	14.28	14.71	14.52				
5	QPSK	12	7	14.36	14.73	14.58	15.6	0		
5	QPSK	12	13	14.22	14.68	14.56				
5	QPSK	25	0	14.40	14.72	14.37				
5	16QAM	1	0	14.33	14.52	14.64				
5	16QAM	1	12	14.47	14.57	14.59	15.6	0		
5	16QAM	1	24	14.16	14.50	14.20				
5	16QAM	12	0	14.32	14.75	14.52				
5	16QAM	12	7	14.39	14.63	14.61	15.6	0		
5	16QAM	12	13	14.37	14.58	14.59				
5	16QAM	25	0	14.38	14.64	14.46				
5	64QAM	1	0	14.55	14.40	14.25				
5	64QAM	1	12	14.61	14.42	14.28	15.6	0		
5	64QAM	1	24	14.61	14.30	14.32				
5	64QAM	12	0	14.53	14.55	14.51				
5	64QAM	12	7	14.59	14.74	14.60	15.6	0		
5	64QAM	12	13	14.60	14.59	14.64				
5	64QAM	25	0	14.57	14.72	14.46				
Channel				131987	132322	132657				
Frequency (MHz)				1711.5	1745	1778.5				
3	QPSK	1	0	14.46	14.74	14.63				
3	QPSK	1	8	14.43	14.61	14.66	15.6	0		
3	QPSK	1	14	14.25	14.67	14.55				
3	QPSK	8	0	14.32	14.69	14.50				
3	QPSK	8	4	14.42	14.67	14.59	15.6	0		
3	QPSK	8	7	14.16	14.67	14.52				
3	QPSK	15	0	14.43	14.70	14.41				
3	16QAM	1	0	14.27	14.58	14.58				
3	16QAM	1	8	14.37	14.55	14.51	15.6	0		
3	16QAM	1	14	14.16	14.45	14.20				
3	16QAM	8	0	14.39	14.66	14.51				
3	16QAM	8	4	14.36	14.64	14.54	15.6	0		
3	16QAM	8	7	14.36	14.60	14.55				
3	16QAM	15	0	14.43	14.71	14.40				
3	64QAM	1	0	14.63	14.46	14.28				
3	64QAM	1	8	14.61	14.43	14.27	15.6	0		
3	64QAM	1	14	14.63	14.36	14.33				
3	64QAM	8	0	14.50	14.59	14.56				
3	64QAM	8	4	14.50	14.75	14.68	15.6	0		
3	64QAM	8	7	14.60	14.57	14.56				
3	64QAM	15	0	14.66	14.62	14.44				
Channel				131979	132322	132685				
Frequency (MHz)				1710.7	1745	1779.3				
1.4	QPSK	1	0	14.53	14.76	14.67				
1.4	QPSK	1	3	14.42	14.65	14.57	15.6	0		
1.4	QPSK	1	5	14.19	14.68	14.63				
1.4	QPSK	3	0	14.29	14.70	14.43				
1.4	QPSK	3	1	14.34	14.72	14.54				
1.4	QPSK	3	3	14.21	14.65	14.51				
1.4	QPSK	8	0	14.44	14.77	14.35	15.6	0		
1.4	16QAM	1	0	14.28	14.57	14.60				
1.4	16QAM	1	3	14.46	14.66	14.51	15.6	0		
1.4	16QAM	1	5	14.16	14.47	14.28				
1.4	16QAM	3	0	14.29	14.74	14.57				
1.4	16QAM	3	1	14.41	14.65	14.57				
1.4	16QAM	3	3	14.32	14.58	14.62	15.6	0		
1.4	16QAM	6	0	14.41	14.69	14.44				
1.4	64QAM	1	0	14.63	14.39	14.29	15.6	0</		



Band 48 (3.5G Band)-FCC										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low-Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MPR (dB)	
Channel				55340	55830	56150	56640			
Frequency (MHz)				3560	3609	3641	3690			
20	QPSK	1	0	13.16	12.95	12.87	13.03	14.5	0	
20	QPSK	1	49	12.96	12.82	12.77	12.94			
20	QPSK	1	99	13.02	12.87	12.81	12.92			
20	QPSK	50	0	13.05	12.97	12.87	13.00			
20	QPSK	50	24	13.02	12.97	12.95	12.87	14.5	0	
20	QPSK	50	50	13.08	12.88	12.93	12.91			
20	QPSK	100	0	13.11	12.93	12.94	12.91			
20	16QAM	1	0	13.00	13.02	12.77	12.85	14.5	0	
20	16QAM	1	49	12.90	13.11	12.92	13.09			
20	16QAM	1	99	12.98	13.01	13.08	12.83			
20	16QAM	50	0	12.75	13.05	12.84	12.91			
20	16QAM	50	24	12.71	12.93	13.06	13.06	14.5	0	
20	16QAM	50	50	12.79	13.05	12.96	12.70			
20	16QAM	100	0	12.99	13.15	12.84	13.08			
20	64QAM	1	0	12.95	12.99	12.91	12.70			
20	64QAM	1	49	12.77	12.77	12.60	12.51	14.5	0	
20	64QAM	1	99	12.64	12.55	12.68	12.62			
20	64QAM	50	0	12.78	13.00	13.05	12.85			
20	64QAM	50	24	12.87	13.00	12.95	12.90	14.5	0	
20	64QAM	50	50	12.77	12.83	12.82	13.13			
20	64QAM	100	0	12.89	12.96	12.94	12.92			
Channel				55315	55820	56160	56655	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3557.5	3608	3642	3692.5			
15	QPSK	1	0	13.14	12.96	12.85	13.01	14.5	0	
15	QPSK	1	37	12.89	12.79	12.76	12.84			
15	QPSK	1	74	12.94	12.87	12.76	12.89			
15	QPSK	36	0	13.05	12.93	12.84	12.99			
15	QPSK	36	20	12.94	12.89	12.93	12.82	14.5	0	
15	QPSK	36	39	13.07	12.85	12.86	12.81			
15	QPSK	75	0	13.07	12.84	12.84	12.87			
15	16QAM	1	0	12.97	12.99	12.71	12.76	14.5	0	
15	16QAM	1	37	12.91	13.10	12.84	13.06			
15	16QAM	1	74	12.96	12.97	13.05	12.77			
15	16QAM	36	0	12.70	12.98	12.76	12.84			
15	16QAM	36	20	12.88	12.91	12.96	13.03	14.5	0	
15	16QAM	36	39	12.72	12.95	12.93	12.71			
15	16QAM	75	0	12.90	13.05	12.77	13.09			
15	64QAM	1	0	12.91	12.94	12.85	12.63			
15	64QAM	1	37	12.72	12.70	12.50	12.58	14.5	0	
15	64QAM	1	74	12.57	12.50	12.59	12.59			
15	64QAM	36	0	12.72	12.92	12.99	12.79			
15	64QAM	36	20	12.79	12.85	12.85	12.88	14.5	0	
15	64QAM	36	39	12.71	12.87	12.81	13.12			
15	64QAM	75	0	12.90	12.97	12.92	12.86			
Channel				55290	55815	56165	56690	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3553	3597.5	3642	3693			
10	QPSK	1	0	13.10	12.89	12.87	12.95	14.5	0	
10	QPSK	1	25	12.88	12.80	12.72	12.86			
10	QPSK	1	49	13.00	12.86	12.77	12.92			
10	QPSK	25	0	13.01	12.89	12.78	12.90			
10	QPSK	25	12	12.92	12.89	12.87	12.83	14.5	0	
10	QPSK	25	25	13.01	12.86	12.84	12.82			
10	QPSK	50	0	13.08	12.84	12.87	12.87			
10	16QAM	1	0	12.90	12.96	12.68	12.81	14.5	0	
10	16QAM	1	25	12.80	13.04	12.86	13.03			
10	16QAM	1	49	12.92	12.99	13.03	12.80			
10	16QAM	25	0	12.71	13.04	12.80	12.92			
10	16QAM	25	12	12.61	12.94	12.97	12.97	14.5	0	
10	16QAM	25	25	12.71	13.03	12.87	12.66			
10	16QAM	50	0	12.96	13.06	12.85	13.09			
10	64QAM	1	0	12.93	12.92	12.86	12.88			
10	64QAM	1	25	12.74	12.71	12.56	12.59	14.5	0	
10	64QAM	1	49	12.59	12.54	12.50	12.52			
10	64QAM	25	0	12.69	12.95	12.95	12.77			
10	64QAM	25	12	12.86	12.93	12.86	12.89	14.5	0	
10	64QAM	25	25	12.70	12.87	12.77	13.07			
10	64QAM	50	0	12.79	12.88	12.88	12.90			
Channel				55265	55810	56170	56715	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3552.5	3607	3643	3697.5			
5	QPSK	1	0	13.08	12.92	12.78	13.01	14.5	0	
5	QPSK	1	12	12.96	12.79	12.68	12.93			
5	QPSK	1	24	12.95	12.78	12.78	12.87			
5	QPSK	12	0	13.05	12.94	12.80	12.94			
5	QPSK	12	7	12.96	12.97	12.89	12.81	14.5	0	
5	QPSK	12	13	13.08	12.79	12.93	12.81			
5	QPSK	25	0	13.06	12.86	12.85	12.89			
5	16QAM	1	0	12.97	12.85	12.67	12.83	14.5	0	
5	16QAM	1	12	12.83	13.02	12.84	13.03			
5	16QAM	1	24	12.99	13.01	12.99	12.79			
5	16QAM	12	0	12.76	13.06	12.74	12.87			
5	16QAM	12	7	12.71	12.87	12.98	13.07	14.5	0	
5	16QAM	12	13	12.73	12.98	12.88	12.63			
5	16QAM	25	0	13.00	13.14	12.80	13.02			
5	64QAM	1	0	12.95	12.95	12.81	12.63	14.5	0	
5	64QAM	1	12	12.77	12.79	12.59	12.56			
5	64QAM	1	24	12.59	12.51	12.65	12.54			
5	64QAM	12	0	12.77	12.94	13.06	12.85			
5	64QAM	12	7	12.87	12.92	12.88	12.84	14.5	0	
5	64QAM	12	13	12.78	12.84	12.81	13.04			
5	64QAM	25	0	12.79	12.94	12.85	12.85			



DSI3_Sim-Tx for Hotspot for UAT

Band 2 (1900MHz Band) Part 24E										
BW (MHz)	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	12.72	12.48	12.28				
20	QPSK	1	49	12.42	12.49	12.23	13.6	0		
20	QPSK	1	99	12.42	12.38	12.22				
20	QPSK	50	0	12.60	12.55	12.43				
20	QPSK	50	24	12.47	12.43	12.32	13.6	0		
20	QPSK	50	50	12.44	12.44	12.27				
20	QPSK	100	0	12.49	12.43	12.40				
20	16QAM	1	0	12.57	12.45	12.32				
20	16QAM	1	49	12.52	12.36	12.17	13.6	0		
20	16QAM	1	99	12.45	12.15	12.34				
20	16QAM	50	0	12.53	12.61	12.46				
20	16QAM	50	24	12.70	12.64	12.60	13.6	0		
20	16QAM	50	50	12.48	12.45	12.34				
20	16QAM	100	0	12.49	12.55	12.49				
20	64QAM	1	0	12.64	12.69	12.56				
20	64QAM	1	49	12.70	12.65	12.35	13.6	0		
20	64QAM	1	99	12.70	12.69	12.17				
20	64QAM	50	0	12.53	12.56	12.28				
20	64QAM	50	24	12.56	12.62	12.16	13.6	0		
20	64QAM	50	50	12.64	12.56	12.42				
20	64QAM	100	0	12.60	12.60	12.33				
Channel Frequency (MHz)										
				18675	18800	19025	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	12.71	12.47	12.18				
15	QPSK	1	37	12.37	12.39	12.13	13.6	0		
15	QPSK	1	74	12.39	12.31	12.29				
15	QPSK	36	0	12.55	12.54	12.38				
15	QPSK	36	20	12.44	12.42	12.28	13.6	0		
15	QPSK	36	39	12.36	12.49	12.20				
15	QPSK	75	0	12.45	12.43	12.40				
15	16QAM	1	0	12.53	12.36	12.28				
15	16QAM	1	37	12.53	12.64	12.60	13.6	0		
15	16QAM	1	74	12.41	12.13	12.31				
15	16QAM	36	0	12.53	12.51	12.44				
15	16QAM	36	20	12.44	12.53	12.43	13.6	0		
15	16QAM	36	39	12.46	12.43	12.14				
15	16QAM	75	0	12.43	12.46	12.14				
15	64QAM	1	0	12.58	12.61	12.48				
15	64QAM	1	37	12.68	12.60	12.32	13.6	0		
15	64QAM	1	74	12.62	12.67	12.15				
15	64QAM	36	0	12.67	12.59	12.60				
15	64QAM	36	20	12.56	12.62	12.06	13.6	0		
15	64QAM	36	39	12.60	12.49	12.42				
15	64QAM	75	0	12.58	12.59	12.27				
Channel Frequency (MHz)										
				18850	18900	19100	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	0	12.70	12.43	12.28				
10	QPSK	1	25	12.42	12.39	12.18	13.6	0		
10	QPSK	1	49	12.33	12.28	12.20				
10	QPSK	25	0	12.52	12.53	12.40				
10	QPSK	25	12	12.43	12.35	12.26	13.6	0		
10	QPSK	25	25	12.34	12.42	12.27				
10	QPSK	50	0	12.46	12.44	12.36				
10	16QAM	1	0	12.50	12.48	12.22				
10	16QAM	1	25	12.48	12.28	12.17	13.6	0		
10	16QAM	1	49	12.40	12.10	12.34				
10	16QAM	25	0	12.52	12.54	12.38				
10	16QAM	25	12	12.45	12.56	12.42	13.6	0		
10	16QAM	25	25	12.39	12.44	12.15				
10	16QAM	50	0	12.50	12.49	12.49				
10	64QAM	1	0	12.58	12.59	12.48				
10	64QAM	1	25	12.66	12.64	12.13	13.6	0		
10	64QAM	1	49	12.61	12.68	12.13				
10	64QAM	25	0	12.60	12.61	12.48				
10	64QAM	25	12	12.47	12.60	12.08	13.6	0		
10	64QAM	25	25	12.59	12.56	12.32				
10	64QAM	50	0	12.55	12.51	12.33				
Channel Frequency (MHz)										
				18625	18800	19175	Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	0	12.62	12.43	12.07				
5	QPSK	1	12	12.43	12.43	12.13	13.6	0		
5	QPSK	1	24	12.40	12.28	12.14				
5	QPSK	12	0	12.59	12.51	12.34				
5	QPSK	12	7	12.45	12.41	12.28	13.6	0		
5	QPSK	12	13	12.35	12.49	12.18				
5	QPSK	25	0	12.41	12.42	12.40				
5	16QAM	1	0	12.54	12.37	12.29				
5	16QAM	1	12	12.47	12.27	12.16	13.6	0		
5	16QAM	1	24	12.46	12.15	12.25				
5	16QAM	12	0	12.45	12.58	12.45				
5	16QAM	12	7	12.37	12.52	12.39	13.6	0		
5	16QAM	12	13	12.46	12.46	12.16				
5	16QAM	25	0	12.43	12.54	12.46				
5	64QAM	1	0	12.56	12.66	12.32				
5	64QAM	1	12	12.66	12.64	12.49	13.6	0		
5	64QAM	1	24	12.64	12.67	12.15				
5	64QAM	12	0	12.63	12.59	12.61				
5	64QAM	12	7	12.55	12.60	12.10	13.6	0		
5	64QAM	12	13	12.65	12.46	12.35				
5	64QAM	25	0	12.54	12.59	12.23				
Channel Frequency (MHz)										
				18915	18900	19195	Tune-up limit (dBm)	MPR (dB)		
3	QPSK	1	0	12.66	12.42	12.21				
3	QPSK	1	8	12.43	12.44	12.20	13.6	0		
3	QPSK	1	14	12.35	12.28	12.20				
3	QPSK	8	0	12.56	12.55	12.43				
3	QPSK	8	7	12.39	12.46	12.25	13.6	0		
3	QPSK	8	14	12.35	12.46	12.21				
3	QPSK	15	0	12.40	12.39	12.33				
3	16QAM	1	0	12.58	12.45	12.23				
3	16QAM	1	8	12.52	12.27	12.09	13.6	0		
3	16QAM	1	14	12.39	12.14	12.32				
3	16QAM	8	0	12.51	12.62	12.43				
3	16QAM	8	4	12.44	12.59	12.41	13.6	0		
3	16QAM	8	7	12.48	12.40	12.14				
3	16QAM	15	0	12.45	12.54	12.44				
3	64QAM	1	0	12.65	12.67	12.52				
3	64QAM	1	8	12.61	12.57	12.36	13.6	0		
3	64QAM	1	14	12.61	12.59	12.11				
3	64QAM	8	0	12.60	12.54	12.53				
3	64QAM	8	4	12.57	12.63	12.13	13.6	0		
3	64QAM	8	7	12.65	12.52	12.40				
3	64QAM	15	0	12.57	12.53	12.23				
Channel Frequency (MHz)										
				18607	18800	19193	Tune-up limit (dBm)	MPR (dB)		
1.4	QPSK	1	0	12.64	12.38	12.22				
1.4	QPSK	1	3	12.44	12.46	12.15	13.6	0		
1.4	QPSK	1	5	12.34	12.35	12.22				
1.4	QPSK	3	0	12.50	12.46	12.37				
1.4	QPSK	3	1	12.44	12.39	12.30	13.6	0		
1.4	QPSK	3	3	12.45	12.49	12.21				
1.4	QPSK	6	0	12.46	12.42	12.31				
1.4	16QAM	1	0	12.47	12.36	12.13				
1.4	16QAM	1	3	12.50	12.30	12.12	13.6	0		
1.4	16QAM	1	5	12.38	12.15	12.31				
1.4	16QAM	3	0	12.46	12.60	12.42				
1.4	16QAM	3	1	12.42	12.50	12.49	13.6	0		
1.4	16QAM	3	3	12.43	12.38	12.16				
1.4	16QAM	6	0	12.44	12.46	12.28				
1.4	64QAM	1	0	12.63	12.66	12.55				
1.4	64QAM	1	3	12.68	12.59	12.30	13.6	0		
1.4	64QAM	1	5	12.65	12.59	12.17				
1.4	64QAM	3	0							



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	2194	2163	2189	23.1	0	
10	QPSK	1	25	2204	2190	2187			
10	QPSK	1	49	2215	2196	2190			
10	QPSK	25	0	2177	2189	2180	23	0.1	
10	QPSK	25	12	2191	2185	2179			
10	QPSK	25	25	2194	2189	2174			
10	QPSK	50	0	2195	2177	2187	23	0.1	
10	16QAM	1	0	2201	2182	2179			
10	16QAM	1	25	2187	2165	2180			
10	16QAM	1	49	2182	2176	2168	22	1.1	
10	16QAM	25	0	2139	2135	2126			
10	16QAM	25	12	2135	2131	2122			
10	16QAM	25	25	2136	2134	2122	22	1.1	
10	16QAM	50	0	2122	2130	2122			
10	64QAM	1	0	2190	2116	2113			
10	64QAM	1	25	2127	2119	2117	22	1.1	
10	64QAM	1	49	2169	2102	2114			
10	64QAM	25	0	1938	1936	1932			
10	64QAM	25	12	2009	1989	1991	21	2.1	
10	64QAM	25	25	1995	1992	1992			
10	64QAM	50	0	1993	1981	1986			
Channel									
Frequency (MHz)									
5	QPSK	1	0	2184	2162	2189	23.1	0	
5	QPSK	1	12	2203	2181	2178			
5	QPSK	1	24	2212	2187	2187			
5	QPSK	12	0	2174	2179	2170	23	0.1	
5	QPSK	12	7	2185	2179	2171			
5	QPSK	12	13	2195	2180	2165			
5	QPSK	25	0	2186	2171	2179	23	0.1	
5	16QAM	1	0	2196	2176	2174			
5	16QAM	1	12	2184	2159	2177			
5	16QAM	1	24	2174	2172	2163	22	1.1	
5	16QAM	12	0	2138	2126	2117			
5	16QAM	12	7	2128	2130	2124			
5	16QAM	12	13	2126	2132	2118	22	1.1	
5	16QAM	25	0	2119	2122	2117			
5	64QAM	1	0	2182	2110	2106			
5	64QAM	1	12	2127	2120	2117	22	1.1	
5	64QAM	1	24	2161	2096	2110			
5	64QAM	12	0	1980	1994	1978			
5	64QAM	12	7	2008	1985	1989	21	2.1	
5	64QAM	12	13	1989	1984	1988			
5	64QAM	25	0	1934	1981	1987			
Channel									
Frequency (MHz)									
3	QPSK	1	0	2194	2160	2188	23.1	0	
3	QPSK	1	8	2196	2185	2182			
3	QPSK	1	14	2209	2195	2191			
3	QPSK	8	0	2167	2181	2174	23	0.1	
3	QPSK	8	4	2187	2177	2172			
3	QPSK	8	7	2195	2186	2170			
3	QPSK	15	0	2186	2169	2183	23	0.1	
3	16QAM	1	0	2193	2181	2178			
3	16QAM	1	8	2185	2166	2180			
3	16QAM	1	14	2181	2170	2160	22	1.1	
3	16QAM	8	0	2140	2127	2122			
3	16QAM	8	4	2126	2122	2131			
3	16QAM	8	7	2128	2132	2123	22	1.1	
3	16QAM	15	0	2118	2127	2123			
3	64QAM	1	0	2191	2117	2106			
3	64QAM	1	8	2123	2118	2118	22	1.1	
3	64QAM	1	14	2160	2093	2115			
3	64QAM	8	0	1931	1930	1934			
3	64QAM	8	4	2005	1986	1991	21	2.1	
3	64QAM	8	7	1987	1991	1990			
3	64QAM	15	0	1984	1979	1978			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	2186	2157	2180	23.1	0	
1.4	QPSK	1	3	2196	2186	2180			
1.4	QPSK	1	5	2210	2186	2190			
1.4	QPSK	3	0	2170	2180	2171	23	0.1	
1.4	QPSK	3	1	2182	2179	2169			
1.4	QPSK	3	3	2184	2189	2170			
1.4	QPSK	6	0	2191	2175	2179	23	0.1	
1.4	16QAM	1	0	2197	2182	2176			
1.4	16QAM	1	3	2193	2161	2173			
1.4	16QAM	1	5	2182	2169	2158	22	1.1	
1.4	16QAM	3	0	2134	2129	2118			
1.4	16QAM	3	1	2130	2124	2125			
1.4	16QAM	3	3	2127	2128	2123	22	1.1	
1.4	16QAM	6	0	2115	2121	2112			
1.4	64QAM	1	0	2188	2119	2106			
1.4	64QAM	1	3	2128	2116	2112	22	1.1	
1.4	64QAM	1	5	2161	2094	2113			
1.4	64QAM	3	0	2034	2030	2025			
1.4	64QAM	3	1	2045	2025	2037	21	2.1	
1.4	64QAM	3	3	2031	2029	2035			
1.4	64QAM	6	0	1932	1976	1984			

Band 14 (700MHz Band)									
BW [MHz]	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		2177		22.6	0	
10	QPSK	1	25		2158				
10	QPSK	1	49		2153				
10	QPSK	25	0		2157		22.6	0	
10	QPSK	25	12		2160				
10	QPSK	25	25		2159				
10	QPSK	50	0		2152		22.6	0	
10	16QAM	1	0		2159				
10	16QAM	1	25		2152				
10	16QAM	1	49		2128		22	0.6	
10	16QAM	25	0		2103				
10	16QAM	25	12		2116				
10	16QAM	25	25		2115		22	0.6	
10	16QAM	50	0		2097				
10	64QAM	1	0		2059				
10	64QAM	1	25		2088		22	0.6	
10	64QAM	1	49		2075				
10	64QAM	25	0		2079				
10	64QAM	25	12		2074		21	1.6	
10	64QAM	25	25		2078				
10	64QAM	50	0		2068				
Channel									
Frequency (MHz)									
5	QPSK	1	0	2144	2148	2142	22.6	0	
5	QPSK	1	12	2132	2138	2128			
5	QPSK	1	24	2126	2133	2128			
5	QPSK	12	0	2135	2133	2134	22.6	0	
5	QPSK	12	7	2140	2140	2138			
5	QPSK	12	13	2134	2132	2133			
5	QPSK	25	0	2127	2125	2123	22.6	0	
5	16QAM	1	0	2140	2138	2140			
5	16QAM	1	12	2128	2123	2131			
5	16QAM	1	24	2108	2108	2109	22	0.6	
5	16QAM	12	0	2078	2079	2079			
5	16QAM	12	7	2096	2088	2093			
5	16QAM	12	13	2087	2087	2090	22	0.6	
5	16QAM	25	0	2067	2074	2067			
5	64QAM	1	0	2077	2079	2069			
5	64QAM	1	12	2099	2103	2106	22	0.6	
5	64QAM	1	24	2093	2085	2095			
5	64QAM	12	0	2076	2070	2078			
5	64QAM	12	7	2088	2064	2074	21	1.6	
5	64QAM	12	13	2078	2069	2069			
5	64QAM	25	0	2059	2059	2060			

Band 17 (700MHz Band) Part 27H(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	2206	2187	2184	23.1	0	
10	QPSK	1	25	2193	2169	2183			
10	QPSK	1	49	2170	2160	2170			
10	QPSK	25	0	2155	2151	2151	23	0.1	
10	QPSK	25	12	2171	2149	2156			
10	QPSK	25	25	2152	2150	2149			
10	QPSK	50	0	2159	2144	2148	23	0.1	
10	16QAM	1	0	2170	2173	2179			
10	16QAM	1	25	2152	2175	2177			
10	16QAM	1	49	2157	2195	2185	22	1.1	
10	16QAM	25	0	2098	2097	2097			
10	16QAM	25	12	2113	2106	2108			
10	16QAM	25	25	2089	2086	2095	22	1.1	
10	16QAM	50	0	2090	2092	2087			
10	64QAM	1	0	2117	2067	2063			
10	64QAM	1	25	2117	2048	2118	22	1.1	
10	64QAM	1	49	2133	2081	2073			
10	64QAM	25	0	2000	2005	1994			
10	64QAM	25	12	2005	2005	1998	21	2.1	
10	64QAM	25	25	2003	2002	1984			
10	64QAM	50	0	1990	1992	1982			
Channel									



Band 25 (1900MHz Band) Part 24E										
BW (MHz)	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	12.73	12.71	12.57	13.6	0		
20	QPSK	1	49	12.64	12.62	12.41				
20	QPSK	1	99	12.51	12.61	12.40				
20	QPSK	50	0	12.60	12.55	12.49				
20	QPSK	50	24	12.52	12.50	12.32				
20	QPSK	50	50	12.58	12.56	12.37				
20	QPSK	100	0	12.58	12.52	12.45				
20	16QAM	1	0	12.47	12.57	12.62				
20	16QAM	1	49	12.39	12.43	12.34				
20	16QAM	1	99	12.27	12.23	12.26				
20	16QAM	50	0	12.69	12.55	12.44				
20	16QAM	50	24	12.63	12.57	12.45				
20	16QAM	50	50	12.50	12.47	12.32				
20	16QAM	100	0	12.58	12.59	12.47				
20	64QAM	1	0	12.63	12.63	12.68				
20	64QAM	1	49	12.62	12.54	12.61				
20	64QAM	1	99	12.38	12.33	12.28				
20	64QAM	50	0	12.70	12.68	12.54				
20	64QAM	50	24	12.68	12.67	12.25				
20	64QAM	50	50	12.65	12.56	12.03				
20	64QAM	100	0	12.68	12.64	12.21				
Channel										
Frequency (MHz)										
15	QPSK	1	0	12.63	12.61	12.51	13.6	0		
15	QPSK	1	37	12.58	12.55	12.36				
15	QPSK	1	74	12.52	12.53	12.37				
15	QPSK	36	0	12.55	12.53	12.40				
15	QPSK	36	20	12.49	12.50	12.27				
15	QPSK	36	39	12.53	12.48	12.29				
15	QPSK	75	0	12.51	12.44	12.44				
15	16QAM	1	0	12.43	12.36	12.63				
15	16QAM	1	37	12.38	12.41	12.29				
15	16QAM	1	74	12.26	12.13	12.83				
15	16QAM	36	0	12.62	12.51	12.34				
15	16QAM	36	20	12.56	12.55	12.42				
15	16QAM	36	39	12.43	12.48	12.33				
15	16QAM	75	0	12.50	12.49	12.42				
15	64QAM	1	0	12.57	12.59	12.68				
15	64QAM	1	37	12.52	12.48	12.56				
15	64QAM	1	74	12.37	12.33	12.18				
15	64QAM	36	0	12.67	12.66	12.52				
15	64QAM	36	20	12.64	12.66	12.17				
15	64QAM	36	39	12.66	12.46	12.01				
15	64QAM	75	0	12.58	12.54	12.14				
Channel										
Frequency (MHz)										
10	QPSK	1	0	12.63	12.67	12.49	13.6	0		
10	QPSK	1	25	12.60	12.62	12.35				
10	QPSK	1	49	12.50	12.57	12.35				
10	QPSK	25	0	12.54	12.54	12.40				
10	QPSK	25	12	12.49	12.46	12.32				
10	QPSK	25	25	12.48	12.58	12.38				
10	QPSK	50	0	12.52	12.47	12.46				
10	16QAM	1	0	12.40	12.48	12.62				
10	16QAM	1	25	12.35	12.39	12.34				
10	16QAM	1	49	12.21	12.21	12.16				
10	16QAM	25	0	12.67	12.45	12.37				
10	16QAM	25	12	12.58	12.54	12.38				
10	16QAM	25	25	12.46	12.39	12.24				
10	16QAM	50	0	12.50	12.51	12.44				
10	64QAM	1	0	12.56	12.60	12.65				
10	64QAM	1	25	12.61	12.46	12.61				
10	64QAM	1	49	12.37	12.32	12.19				
10	64QAM	25	0	12.60	12.63	12.53				
10	64QAM	25	12	12.65	12.58	12.16				
10	64QAM	25	25	12.62	12.50	12.03				
10	64QAM	50	0	12.63	12.58	12.22				
Channel										
Frequency (MHz)										
5	QPSK	1	0	12.66	12.62	12.51	13.6	0		
5	QPSK	1	12	12.54	12.12	12.38				
5	QPSK	1	24	12.43	12.56	12.41				
5	QPSK	12	0	12.57	12.53	12.48				
5	QPSK	12	7	12.48	12.47	12.27				
5	QPSK	12	13	12.52	12.50	12.34				
5	QPSK	25	0	12.54	12.52	12.45				
5	16QAM	1	0	12.43	12.35	12.63				
5	16QAM	1	12	12.38	12.35	12.31				
5	16QAM	1	24	12.19	12.23	12.22				
5	16QAM	12	0	12.62	12.47	12.34				
5	16QAM	12	7	12.59	12.54	12.46				
5	16QAM	12	13	12.40	12.44	12.28				
5	16QAM	25	0	12.54	12.60	12.43				
5	64QAM	1	0	12.53	12.61	12.65				
5	64QAM	1	12	12.55	12.50	12.54				
5	64QAM	1	24	12.36	12.31	12.18				
5	64QAM	12	0	12.67	12.64	12.49				
5	64QAM	12	7	12.59	12.58	12.25				
5	64QAM	12	13	12.64	12.46	11.93				
5	64QAM	25	0	12.58	12.50	12.19				
Channel										
Frequency (MHz)										
3	QPSK	1	0	12.69	12.63	12.48	13.6	0		
3	QPSK	1	8	12.54	12.53	12.32				
3	QPSK	1	14	12.43	12.54	12.37				
3	QPSK	8	0	12.54	12.52	12.48				
3	QPSK	8	4	12.47	12.51	12.23				
3	QPSK	8	7	12.53	12.52	12.36				
3	QPSK	15	0	12.53	12.43	12.40				
3	16QAM	1	0	12.40	12.48	12.58				
3	16QAM	1	8	12.38	12.40	12.24				
3	16QAM	1	14	12.22	12.15	12.23				
3	16QAM	8	0	12.59	12.45	12.41				
3	16QAM	8	4	12.62	12.51	12.38				
3	16QAM	8	7	12.45	12.38	12.26				
3	16QAM	15	0	12.56	12.52	12.45				
3	64QAM	1	0	12.64	12.53	12.68				
3	64QAM	1	8	12.59	12.54	12.57				
3	64QAM	1	14	12.30	12.26	12.22				
3	64QAM	8	0	12.65	12.66	12.44				
3	64QAM	8	4	12.64	12.64	12.17				
3	64QAM	8	7	12.55	12.53	12.02				
3	64QAM	15	0	12.62	12.58	12.14				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	12.71	12.63	12.57	13.6	0		
1.4	QPSK	1	3	12.54	12.61	12.38				
1.4	QPSK	1	5	12.47	12.53	12.41				
1.4	QPSK	3	0	12.56	12.46	12.42				
1.4	QPSK	3	1	12.51	12.47	12.33				
1.4	QPSK	3	3	12.51	12.52	12.36				
1.4	QPSK	6	0	12.48	12.42	12.43				
1.4	16QAM	1	0	12.41	12.56	12.56				
1.4	16QAM	1	3	12.32	12.33	12.28				
1.4	16QAM	3	0	12.64	12.50	12.42				
1.4	16QAM	3	1	12.58	12.50	12.36				
1.4	16QAM	3	3	12.45	12.37	12.29				
1.4	16QAM	6	0	12.51	12.49	12.42				
1.4	64QAM	1	0	12.57	12.55	12.65				
1.4	64QAM	1	3	12.63	12.48	12.51				
1.4	64QAM	1	5	12.37	12.30	12.20				
1.4	64QAM	3	0	12.65	12.65	12.49				
1.4	64QAM	3	1	12.63	12.60	12.20				
1.4	64QAM	3	3	12.57	12.56	12.00				
1.4	64QAM	6	0	12.58	12.58	12.12				

Band 26 for FCC (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)										
15	QPSK	1	0	21.24	21.20	20.96	21.7	0		
15	QPSK	1	37	21.23	20.73	20.90				
15	QPSK	1	74	21.08	20.95	20.67				
15	QPSK	36	0	21.04	20.80	20.74				
15	QPSK	36	20	21.05	20.85	20.66				
15	QPSK	36	39	21.19	20.96	20.92				
15	QPSK	75	0	21.09	20.94	20.70				
15	16QAM	1	0	21.06	20.91	20.81				
15	16QAM	1	37	20.81	20.71	20.60				
15	16QAM	1	74	20.81	20.72	20.47				
15	16QAM	36	0	20.71	20.52	20.45				
15	16QAM	36	20	20.67	20.53	20.35				
15	16QAM	36	39	20.67	20.45	20.31				
15	16QAM	75	0	20.84	20.50	20.28				
15	64QAM	1	0	20.94	20.99	20.59				
15	64QAM	1	37	20.73	20.85	20.46				
15	64QAM	1	74	20.73	20.68	20.34				
15	64QAM	36	0	20.71	20.85	20.81				
15	64QAM	36	20							



Band 66										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				132072	132072	132072				
Frequency (MHz)				1720	1745	1770				
20	QPSK	1	0	14.54	14.73	14.89				
20	QPSK	1	49	14.47	14.70	14.87	15.6	0		
20	QPSK	1	99	14.28	14.74	14.84				
20	QPSK	50	0	14.38	14.73	14.51				
20	QPSK	50	24	14.44	14.76	14.81	15.6	0		
20	QPSK	50	50	14.28	14.59	14.58				
20	QPSK	100	0	14.43	14.76	14.45				
20	16QAM	1	0	14.33	14.58	14.68				
20	16QAM	1	49	14.46	14.65	14.59	15.6	0		
20	16QAM	1	99	14.20	14.51	14.27				
20	16QAM	50	0	14.39	14.75	14.58				
20	16QAM	50	24	14.43	14.73	14.61	15.6	0		
20	16QAM	50	50	14.38	14.63	14.63				
20	16QAM	100	0	14.43	14.74	14.47				
20	64QAM	1	0	14.62	14.48	14.29				
20	64QAM	1	49	14.69	14.49	14.33	15.6	0		
20	64QAM	1	99	14.70	14.37	14.38				
20	64QAM	50	0	14.55	14.63	14.56				
20	64QAM	50	24	14.60	14.75	14.68	15.6	0		
20	64QAM	50	50	14.59	14.60	14.66				
20	64QAM	100	0	14.66	14.71	14.51				
Channel				132047	132322	132597				
Frequency (MHz)				1717.5	1745	1772.5				
15	QPSK	1	0	14.48	14.69	14.66				
15	QPSK	1	37	14.46	14.63	14.59	15.6	0		
15	QPSK	1	74	14.28	14.71	14.56				
15	QPSK	36	0	14.28	14.67	14.47				
15	QPSK	36	20	14.43	14.72	14.62	15.6	0		
15	QPSK	36	39	14.19	14.68	14.57				
15	QPSK	75	0	14.33	14.76	14.45				
15	16QAM	1	0	14.23	14.57	14.60				
15	16QAM	1	37	14.42	14.61	14.54	15.6	0		
15	16QAM	1	74	14.15	14.48	14.19				
15	16QAM	36	0	14.38	14.67	14.51				
15	16QAM	36	20	14.36	14.64	14.57	15.6	0		
15	16QAM	36	39	14.37	14.61	14.57				
15	16QAM	75	0	14.37	14.67	14.45				
15	64QAM	1	0	14.59	14.46	14.19				
15	64QAM	1	37	14.59	14.44	14.29	15.6	0		
15	64QAM	1	74	14.64	14.35	14.31				
15	64QAM	36	0	14.50	14.60	14.46				
15	64QAM	36	20	14.57	14.75	14.89	15.6	0		
15	64QAM	36	39	14.54	14.52	14.63				
15	64QAM	75	0	14.57	14.62	14.49				
Channel				132022	132322	132622				
Frequency (MHz)				1715	1745	1775				
10	QPSK	1	0	14.55	14.76	14.66				
10	QPSK	1	25	14.45	14.66	14.67	15.6	0		
10	QPSK	1	49	14.25	14.68	14.54				
10	QPSK	25	0	14.38	14.66	14.44				
10	QPSK	25	12	14.39	14.70	14.61	15.6	0		
10	QPSK	25	25	14.16	14.62	14.52				
10	QPSK	50	0	14.39	14.76	14.43				
10	16QAM	1	0	14.25	14.58	14.67				
10	16QAM	1	25	14.43	14.63	14.54	15.6	0		
10	16QAM	1	49	14.14	14.45	14.24				
10	16QAM	25	0	14.35	14.70	14.50				
10	16QAM	25	12	14.44	14.69	14.57	15.6	0		
10	16QAM	25	25	14.28	14.53	14.56				
10	16QAM	50	0	14.35	14.65	14.37				
10	64QAM	1	0	14.52	14.49	14.29				
10	64QAM	1	25	14.60	14.49	14.25	15.6	0		
10	64QAM	1	49	14.65	14.35	14.30				
10	64QAM	25	0	14.53	14.58	14.51				
10	64QAM	25	12	14.50	14.68	14.64	15.6	0		
10	64QAM	25	25	14.53	14.55	14.66				
10	64QAM	50	0	14.57	14.65	14.51				
Channel				131997	132322	132647				
Frequency (MHz)				1712.5	1745	1777.5				
5	QPSK	1	0	14.45	14.69	14.63				
5	QPSK	1	12	14.42	14.67	14.67	15.6	0		
5	QPSK	1	24	14.21	14.72	14.57				
5	QPSK	12	0	14.28	14.71	14.52				
5	QPSK	12	7	14.36	14.73	14.58	15.6	0		
5	QPSK	12	13	14.22	14.68	14.56				
5	QPSK	25	0	14.40	14.72	14.37				
5	16QAM	1	0	14.33	14.52	14.64				
5	16QAM	1	12	14.47	14.57	14.59	15.6	0		
5	16QAM	1	24	14.16	14.50	14.20				
5	16QAM	12	0	14.32	14.75	14.52				
5	16QAM	12	7	14.39	14.63	14.61	15.6	0		
5	16QAM	12	13	14.37	14.58	14.59				
5	16QAM	25	0	14.38	14.64	14.46				
5	64QAM	1	0	14.55	14.40	14.25				
5	64QAM	1	12	14.61	14.42	14.28	15.6	0		
5	64QAM	1	24	14.61	14.30	14.32				
5	64QAM	12	0	14.53	14.55	14.51				
5	64QAM	12	7	14.59	14.74	14.60	15.6	0		
5	64QAM	12	13	14.60	14.59	14.64				
5	64QAM	25	0	14.57	14.72	14.46				
Channel				131987	132322	132657				
Frequency (MHz)				1711.5	1745	1778.5				
3	QPSK	1	0	14.46	14.74	14.63				
3	QPSK	1	8	14.43	14.61	14.66	15.6	0		
3	QPSK	1	14	14.25	14.67	14.55				
3	QPSK	8	0	14.32	14.69	14.50				
3	QPSK	8	4	14.42	14.67	14.59	15.6	0		
3	QPSK	8	7	14.16	14.67	14.52				
3	QPSK	15	0	14.43	14.70	14.41				
3	16QAM	1	0	14.27	14.58	14.58				
3	16QAM	1	8	14.37	14.55	14.51	15.6	0		
3	16QAM	1	14	14.16	14.45	14.20				
3	16QAM	8	0	14.39	14.66	14.51				
3	16QAM	8	4	14.36	14.64	14.54	15.6	0		
3	16QAM	8	7	14.36	14.60	14.55				
3	16QAM	15	0	14.43	14.71	14.40				
3	64QAM	1	0	14.63	14.46	14.28				
3	64QAM	1	8	14.61	14.43	14.27	15.6	0		
3	64QAM	1	14	14.63	14.36	14.33				
3	64QAM	8	0	14.50	14.59	14.56				
3	64QAM	8	4	14.50	14.75	14.68	15.6	0		
3	64QAM	8	7	14.60	14.57	14.56				
3	64QAM	15	0	14.66	14.62	14.44				
Channel				131979	132322	132685				
Frequency (MHz)				1710.7	1745	1779.3				
1.4	QPSK	1	0	14.53	14.76	14.67				
1.4	QPSK	1	3	14.42	14.65	14.57	15.6	0		
1.4	QPSK	1	5	14.19	14.68	14.63				
1.4	QPSK	3	0	14.29	14.70	14.43				
1.4	QPSK	3	1	14.34	14.72	14.54				
1.4	QPSK	3	3	14.21	14.65	14.51				
1.4	QPSK	8	0	14.44	14.77	14.35	15.6	0		
1.4	16QAM	1	0	14.28	14.57	14.60				
1.4	16QAM	1	3	14.46	14.66	14.51	15.6	0		
1.4	16QAM	1	5	14.16	14.47	14.28				
1.4	16QAM	3	0	14.29	14.74	14.57				
1.4	16QAM	3	1	14.41	14.65	14.57				
1.4	16QAM	3	3	14.32	14.58	14.62	15.6	0		
1.4	16QAM	6	0	14.41	14.69	14.44				
1.4	64QAM	1	0	14.63	14.39	14.29	15.6	0</		



Band 48 (3.5G Band)-FCC										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low-Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MPR (dB)	
Channel				55340	55830	56150	56640			
Frequency (MHz)				3560	3609	3641	3690			
20	QPSK	1	0	13.16	12.95	12.87	13.03	14.5	0	
20	QPSK	1	49	12.96	12.82	12.77	12.94			
20	QPSK	1	99	13.02	12.87	12.81	12.92			
20	QPSK	50	0	13.05	12.97	12.87	13.00			
20	QPSK	50	24	13.02	12.97	12.95	12.87	14.5	0	
20	QPSK	50	50	13.08	12.88	12.93	12.91			
20	QPSK	100	0	13.11	12.93	12.94	12.91			
20	16QAM	1	0	13.00	13.02	12.77	12.85	14.5	0	
20	16QAM	1	49	12.90	13.11	12.92	13.09			
20	16QAM	1	99	12.98	13.01	13.08	12.83			
20	16QAM	50	0	12.75	13.05	12.84	12.91			
20	16QAM	50	24	12.71	12.93	13.06	13.06	14.5	0	
20	16QAM	50	50	12.79	13.05	12.96	12.70			
20	16QAM	100	0	12.99	13.15	12.84	13.08			
20	64QAM	1	0	12.95	12.99	12.91	12.70			
20	64QAM	1	49	12.77	12.77	12.60	12.51	14.5	0	
20	64QAM	1	99	12.64	12.55	12.68	12.62			
20	64QAM	50	0	12.78	13.00	13.05	12.85			
20	64QAM	50	24	12.87	13.00	12.95	12.90	14.5	0	
20	64QAM	50	50	12.77	12.83	12.82	13.13			
20	64QAM	100	0	12.89	12.96	12.94	12.92			
Channel				55315	55820	56160	56655	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3557.5	3608	3642	3692.5			
15	QPSK	1	0	13.14	12.96	12.85	13.01	14.5	0	
15	QPSK	1	37	12.89	12.79	12.76	12.84			
15	QPSK	1	74	12.94	12.87	12.76	12.89			
15	QPSK	36	0	13.05	12.93	12.84	12.99			
15	QPSK	36	20	12.94	12.89	12.93	12.82	14.5	0	
15	QPSK	36	39	13.07	12.85	12.86	12.81			
15	QPSK	75	0	13.07	12.84	12.84	12.87			
15	16QAM	1	0	12.97	12.99	12.71	12.76	14.5	0	
15	16QAM	1	37	12.91	13.10	12.84	13.06			
15	16QAM	1	74	12.96	12.97	13.05	12.77			
15	16QAM	36	0	12.70	12.98	12.76	12.84			
15	16QAM	36	20	12.88	12.91	12.96	13.03	14.5	0	
15	16QAM	36	39	12.72	12.95	12.93	12.71			
15	16QAM	75	0	12.90	13.05	12.77	13.09			
15	64QAM	1	0	12.91	12.94	12.85	12.63			
15	64QAM	1	37	12.72	12.70	12.50	12.58	14.5	0	
15	64QAM	1	74	12.57	12.50	12.59	12.59			
15	64QAM	36	0	12.72	12.92	12.99	12.79			
15	64QAM	36	20	12.79	12.85	12.85	12.88	14.5	0	
15	64QAM	36	39	12.71	12.87	12.81	13.12			
15	64QAM	75	0	12.90	12.97	12.92	12.86			
Channel				55290	55815	56165	56690	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3553	3597.5	3642.3	3693			
10	QPSK	1	0	13.10	12.89	12.87	12.95	14.5	0	
10	QPSK	1	25	12.88	12.80	12.72	12.86			
10	QPSK	1	49	13.00	12.86	12.77	12.92			
10	QPSK	25	0	13.01	12.89	12.78	12.90			
10	QPSK	25	12	12.92	12.89	12.87	12.83	14.5	0	
10	QPSK	25	25	13.01	12.86	12.84	12.82			
10	QPSK	50	0	13.08	12.84	12.87	12.87			
10	16QAM	1	0	12.90	12.96	12.68	12.81	14.5	0	
10	16QAM	1	25	12.80	13.04	12.86	13.03			
10	16QAM	1	49	12.92	12.99	13.03	12.80			
10	16QAM	25	0	12.71	13.04	12.80	12.92			
10	16QAM	25	12	12.61	12.94	12.97	12.97	14.5	0	
10	16QAM	25	25	12.71	13.03	12.87	12.66			
10	16QAM	50	0	12.96	13.06	12.85	13.09			
10	64QAM	1	0	12.93	12.92	12.86	12.88			
10	64QAM	1	25	12.74	12.71	12.56	12.59	14.5	0	
10	64QAM	1	49	12.59	12.54	12.50	12.52			
10	64QAM	25	0	12.69	12.95	12.95	12.77			
10	64QAM	25	12	12.86	12.93	12.86	12.89	14.5	0	
10	64QAM	25	25	12.70	12.87	12.77	13.07			
10	64QAM	50	0	12.79	12.88	12.88	12.90			
Channel				55265	55810	56170	56715	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3552.5	3607	3643	3697.5			
5	QPSK	1	0	13.08	12.92	12.78	13.01	14.5	0	
5	QPSK	1	12	12.96	12.79	12.68	12.93			
5	QPSK	1	24	12.95	12.78	12.78	12.87			
5	QPSK	12	0	13.05	12.94	12.80	12.94			
5	QPSK	12	7	12.96	12.97	12.89	12.81	14.5	0	
5	QPSK	12	13	13.08	12.79	12.93	12.81			
5	QPSK	25	0	13.06	12.86	12.85	12.89			
5	16QAM	1	0	12.97	12.85	12.67	12.83	14.5	0	
5	16QAM	1	12	12.83	13.02	12.84	13.03			
5	16QAM	1	24	12.99	13.01	12.99	12.79			
5	16QAM	12	0	12.76	13.06	12.74	12.87			
5	16QAM	12	7	12.71	12.87	12.98	13.07	14.5	0	
5	16QAM	12	13	12.73	12.98	12.88	12.63			
5	16QAM	25	0	13.00	13.14	12.80	13.02			
5	64QAM	1	0	12.95	12.95	12.81	12.63	14.5	0	
5	64QAM	1	12	12.77	12.79	12.59	12.56			
5	64QAM	1	24	12.59	12.51	12.65	12.54			
5	64QAM	12	0	12.77	12.94	13.06	12.85			
5	64QAM	12	7	12.87	12.92	12.88	12.84	14.5	0	
5	64QAM	12	13	12.78	12.84	12.81	13.04			
5	64QAM	25	0	12.79	12.94	12.85	12.85			



DIS6 for Handheld Standalone for UAT

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Includes sub-headers for Band 2 (1900MHz Band) Part 24E and Band 25 (1900MHz Band) Part 24E.

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Includes sub-headers for Band 4 (AWS Band) Part 27L (only on channel required) and Band 24E.

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Includes sub-headers for Band 25 (1900MHz Band) Part 24E.



Band 30									
BW (MHz)	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		21.77		22.5	0	
10	QPSK	1	25		21.82	21.32			
10	QPSK	1	49		21.55				
10	QPSK	25	0		21.51		22.5	0	
10	QPSK	25	12		21.55				
10	QPSK	25	25		21.37				
10	QPSK	50	0		21.44		22.5	0	
10	16QAM	1	0		21.73				
10	16QAM	1	25		21.72	21.54			
10	16QAM	1	49		21.67		22	0.5	
10	16QAM	25	0		21.13				
10	16QAM	25	12		21.09				
10	16QAM	25	25		20.99		21	1.5	
10	16QAM	50	0		21.13				
10	16QAM	50	12		21.06				
10	64QAM	1	0		20.88		22	0.5	
10	64QAM	1	25		20.88	20.88			
10	64QAM	1	49		21.03				
10	64QAM	25	0		20.14		21	1.5	
10	64QAM	25	12		20.01				
10	64QAM	25	25		19.83				
10	64QAM	50	0		19.87		21	1.5	
10	64QAM	50	12		19.87				
10	64QAM	50	25		19.87				
Channel Frequency (MHz)									
				2765	2770	2775	Tune-up limit (dBm)	MPR (dB)	
				2307.5	2310	2312.5			
5	QPSK	1	0	21.50	21.53	21.51	22.5	0	
5	QPSK	1	12	21.55	21.45	21.41			
5	QPSK	1	24	21.41	21.38	21.33			
5	QPSK	12	0	21.50	21.56	21.46	22.5	0	
5	QPSK	12	7	21.54	21.46	21.53			
5	QPSK	12	13	21.44	21.44	21.49			
5	QPSK	25	0	21.43	21.36	21.54	22.5	0	
5	16QAM	1	0	21.41	21.51	21.55			
5	16QAM	1	12	21.54	21.53	21.57			
5	16QAM	1	24	21.46	21.52	21.29	22	0.5	
5	16QAM	12	0	21.09	21.03	21.06			
5	16QAM	12	7	20.92	21.04	21.14			
5	16QAM	12	13	20.90	20.93	21.11	22	0.5	
5	16QAM	25	0	20.94	20.99	21.07			
5	64QAM	1	0	21.52	21.08	21.45			
5	64QAM	1	12	21.22	21.12	21.28	22	0.5	
5	64QAM	1	24	21.20	21.16	21.11			
5	64QAM	12	0	19.93	20.09	19.93			
5	64QAM	12	7	19.89	20.02	19.91	21	1.5	
5	64QAM	12	13	19.87	20.13	19.90			
5	64QAM	25	0	19.85	19.89	19.89			

Band 66									
BW (MHz)	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	21.57	21.72	21.38	22.6	0	
20	QPSK	1	49	21.50	21.52	21.32			
20	QPSK	1	99	21.39	21.36	21.26			
20	QPSK	50	0	20.85	20.95	20.82	22.6	0	
20	QPSK	50	24	20.92	21.06	20.78			
20	QPSK	50	50	20.95	20.98	20.85			
20	QPSK	100	0	20.89	20.94	20.84	22.6	0	
20	16QAM	1	0	21.32	21.14	21.10			
20	16QAM	1	49	21.39	21.35	21.01			
20	16QAM	1	99	21.10	21.06	21.14	21	1.6	
20	16QAM	50	0	19.86	19.99	19.92			
20	16QAM	50	24	20.02	20.12	19.75			
20	16QAM	50	50	20.00	20.07	19.87	21	1.6	
20	16QAM	100	0	19.93	20.01	19.75			
20	64QAM	1	0	19.98	20.01	19.85			
20	64QAM	1	49	20.00	20.22	19.77	21	1.6	
20	64QAM	1	99	19.81	20.28	19.84			
20	64QAM	50	0	18.88	18.95	18.85			
20	64QAM	50	24	19.00	19.08	18.87	20.5	2.1	
20	64QAM	50	50	18.88	18.96	18.82			
20	64QAM	100	0	19.01	19.00	18.80			
Channel Frequency (MHz)									
				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)	
				1717.5	1745	1772.5			
15	QPSK	1	0	21.49	21.65	21.35	22.6	0	
15	QPSK	1	37	21.49	21.52	21.26			
15	QPSK	1	74	21.37	21.36	21.19			
15	QPSK	36	0	20.82	20.92	20.83	22.6	0	
15	QPSK	36	20	20.90	21.03	20.72			
15	QPSK	36	39	20.85	20.98	20.75			
15	QPSK	75	0	20.86	20.92	20.74	22.6	0	
15	16QAM	1	0	21.31	21.10	21.10			
15	16QAM	1	37	21.32	21.25	20.98			
15	16QAM	1	74	21.03	21.00	21.12	21	1.6	
15	16QAM	36	0	19.87	19.93	19.82			
15	16QAM	36	20	20.03	20.13	19.67			
15	16QAM	36	39	20.01	20.04	19.77	21	1.6	
15	16QAM	75	0	19.88	19.93	19.67			
15	64QAM	1	0	19.90	20.01	19.86			
15	64QAM	1	37	19.98	20.18	19.69	21	1.6	
15	64QAM	1	74	19.74	20.27	19.75			
15	64QAM	36	0	18.86	19.01	18.83			
15	64QAM	36	20	18.92	18.99	18.82	20.5	2.1	
15	64QAM	36	39	18.86	18.88	18.72			
15	64QAM	75	0	18.95	18.99	18.73			
Channel Frequency (MHz)									
				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)	
				1715	1745	1775			
10	QPSK	1	0	21.56	21.70	21.28	22.6	0	
10	QPSK	1	25	21.47	21.48	21.33			
10	QPSK	1	49	21.38	21.36	21.26			
10	QPSK	25	0	20.80	20.86	20.79	22.6	0	
10	QPSK	25	12	20.86	21.07	20.77			
10	QPSK	25	25	20.90	20.96	20.86			
10	QPSK	50	0	20.89	20.86	20.75	22.6	0	
10	16QAM	1	0	21.29	21.09	21.06			
10	16QAM	1	25	21.40	21.26	20.98			
10	16QAM	1	49	21.07	20.99	21.15	21	1.6	
10	16QAM	25	0	19.77	19.80	19.84			
10	16QAM	25	12	19.96	20.12	19.65			
10	16QAM	25	25	19.96	20.00	19.87	21	1.6	
10	16QAM	50	0	19.92	19.99	19.69			
10	64QAM	1	0	19.95	19.96	19.79			
10	64QAM	1	25	19.94	20.23	19.76	21	1.6	
10	64QAM	1	49	19.92	20.23	19.79			
10	64QAM	25	0	18.95	18.96	18.78			
10	64QAM	25	12	18.97	19.03	18.79	20.5	2.1	
10	64QAM	25	25	18.88	18.88	18.77			
10	64QAM	50	0	19.01	18.99	18.77			
Channel Frequency (MHz)									
				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)	
				1712.5	1745	1777.5			
5	QPSK	1	0	21.58	21.65	21.36	22.6	0	
5	QPSK	1	12	21.43	21.52	21.30			
5	QPSK	1	24	21.32	21.28	21.16			
5	QPSK	12	0	20.82	20.91	20.72	22.6	0	
5	QPSK	12	7	20.84	20.96	20.70			
5	QPSK	12	13	20.91	20.95	20.75			
5	QPSK	25	0	20.84	20.88	20.79	22.6	0	
5	16QAM	1	0	21.27	21.07	21.11			
5	16QAM	1	12	21.00	21.28	21.00			
5	16QAM	1	24	21.05	20.98	21.12	21	1.6	
5	16QAM	12	0	19.86	19.98	19.85			
5	16QAM	12	7	19.97	20.02	19.73			
5	16QAM	12	13	19.93	19.99	19.88	21	1.6	
5	16QAM	25	0	19.90	20.02	19.85			
5	64QAM	1	0	19.92	19.99	19.85			
5	64QAM	1	12	19.99	20.16	19.72	21	1.6	
5	64QAM	1	24	19.79	20.24	19.81			
5	64QAM	12	0	18.81	18.95	18.86			
5	64QAM	12	7	18.90	19.06	18.79	20.5	2.1	
5	64QAM	12	13	18.89	18.97	18.77			
5	64QAM	25	0	19.00	18.95	18.77			
Channel Frequency (MHz)									
				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)	
				1711.5	1745	1776.5			
3	QPSK	1	0	21.51	21.66	21.31	22.6	0	
3	QPSK	1	6	21.45	21.52	21.26			
3	QPSK	1	14	21.35	21.26	21.24			
3	QPSK	8	0	20.80	20.94	20.73	22.6	0	
3	QPSK	8	4	20.88	21.06	20.69			
3	QPSK	8	7	20.87	20.96	20.82			
3	QPSK	15	0	20.79	20.94	20.77	22.6	0	
3	16QAM	1	0	21.24	21.08	21.10			
3	16QAM	1	6	21.35	21.29	21.02			
3	16QAM	1	14	21.07	21.04	21.08	21	1.6	
3	16QAM	8	0	19.81	19.99	19.80			



Band 48 (3.5G Band)-FCC										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low-Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MPR (dB)	
Channel				55340	55830	56150	56640			
Frequency (MHz)				3560	3609	3641	3690			
20	QPSK	1	0	21.05	20.94	20.86	21.00	22.2	0	
20	QPSK	1	49	21.02	20.93	20.80	20.96			
20	QPSK	1	99	21.03	20.90	20.88	21.04	22.2	0	
20	QPSK	50	0	20.97	20.86	20.71	20.87			
20	QPSK	50	24	20.95	20.87	20.73	20.74	22.2	0	
20	QPSK	50	50	20.95	20.90	20.81	20.94			
20	QPSK	100	0	20.94	20.90	20.71	20.84	22.2	0	
20	16QAM	1	0	21.00	20.98	20.83	20.94			
20	16QAM	1	49	20.86	20.93	20.66	20.98	22.2	0	
20	16QAM	1	99	20.76	20.85	20.85	20.69			
20	16QAM	50	0	20.76	20.83	20.79	20.95	22	0.2	
20	16QAM	50	24	20.83	20.80	20.85	20.91			
20	16QAM	50	50	20.94	20.78	20.93	21.00	22	0.2	
20	16QAM	100	0	20.96	20.82	20.86	20.92			
20	64QAM	1	0	20.94	20.76	20.58	20.76	22	0.2	
20	64QAM	1	49	20.80	20.77	20.67	20.82			
20	64QAM	1	99	20.63	20.67	20.81	20.83	21	1.2	
20	64QAM	50	0	20.03	19.94	19.79	19.93			
20	64QAM	50	24	19.98	19.92	19.75	19.84	21	1.2	
20	64QAM	50	50	19.97	19.87	19.91	20.00			
20	64QAM	100	0	20.02	19.83	19.73	19.88			
Channel				55315	55820	56160	56665	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3557.5	3608	3642	3692.5			
15	QPSK	1	0	21.04	20.88	20.80	20.92	22.2	0	
15	QPSK	1	37	20.93	20.88	20.74	20.86			
15	QPSK	1	74	21.01	20.84	20.86	20.98	22.2	0	
15	QPSK	36	0	20.89	20.87	20.68	20.79			
15	QPSK	36	20	20.91	20.81	20.74	20.84	22.2	0	
15	QPSK	36	39	20.93	20.90	20.79	20.84			
15	QPSK	75	0	20.93	20.91	20.82	20.79	22.2	0	
15	16QAM	1	0	20.92	20.98	20.74	20.87			
15	16QAM	1	37	20.87	20.83	20.64	20.93	22	0.2	
15	16QAM	1	74	20.76	20.85	20.85	20.63			
15	16QAM	36	0	20.78	20.87	20.81	20.94	22	0.2	
15	16QAM	36	20	20.92	20.91	20.77	20.86			
15	16QAM	36	39	20.94	20.89	20.93	21.02	22	0.2	
15	16QAM	75	0	20.94	20.91	20.81	20.92			
15	64QAM	1	0	20.97	20.79	20.56	20.82	22	0.2	
15	64QAM	1	37	20.81	20.68	20.65	20.81			
15	64QAM	1	74	20.67	20.72	20.79	20.88	21	1.2	
15	64QAM	36	0	20.07	19.93	19.82	19.93			
15	64QAM	36	20	19.97	19.87	19.76	19.85	21	1.2	
15	64QAM	36	39	19.96	19.81	19.90	20.08			
15	64QAM	75	0	20.02	19.73	19.75	19.91			
Channel				55290	55815	56165	56690	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3553	3597.5	3643	3693			
10	QPSK	1	0	21.03	20.91	20.83	20.90	22.2	0	
10	QPSK	1	25	21.01	20.86	20.74	20.95			
10	QPSK	1	49	20.93	20.82	20.80	21.03	22.2	0	
10	QPSK	25	0	20.97	20.83	20.62	20.84			
10	QPSK	25	12	20.88	20.81	20.74	20.75	22.2	0	
10	QPSK	25	25	20.95	20.81	20.80	20.90			
10	QPSK	50	0	20.89	20.89	20.85	20.76	22.2	0	
10	16QAM	1	0	20.94	20.99	20.80	20.94			
10	16QAM	1	25	20.87	20.87	20.58	20.98	22	0.2	
10	16QAM	1	49	20.82	20.86	20.88	20.77			
10	16QAM	25	0	20.73	20.85	20.87	20.98	22	0.2	
10	16QAM	25	12	20.94	20.87	20.82	20.99			
10	16QAM	25	25	20.90	20.81	20.84	21.03	21	1.2	
10	16QAM	50	0	21.03	20.88	20.82	20.89			
10	64QAM	1	0	20.98	20.80	20.57	20.76	22	0.2	
10	64QAM	1	25	20.87	20.79	20.68	20.78			
10	64QAM	1	49	20.69	20.76	20.76	20.94	21	1.2	
10	64QAM	25	0	19.28	19.05	19.83	19.28			
10	64QAM	25	12	20.00	19.85	19.77	19.87	21	1.2	
10	64QAM	25	25	19.93	19.79	19.86	20.02			
10	64QAM	50	0	19.94	19.74	19.76	19.94			
Channel				55265	55810	56170	56715	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3552.5	3607	3643	3697.5			
5	QPSK	1	0	20.96	20.87	20.85	21.01	22.2	0	
5	QPSK	1	12	20.95	20.89	20.78	20.88			
5	QPSK	1	24	20.98	20.80	20.79	21.03	22.2	0	
5	QPSK	12	0	20.87	20.86	20.68	20.77			
5	QPSK	12	7	20.87	20.81	20.67	20.67	22.2	0	
5	QPSK	12	13	20.91	20.89	20.75	20.88			
5	QPSK	25	0	20.93	20.89	20.61	20.84	22.2	0	
5	16QAM	1	0	20.97	20.89	20.74	20.86			
5	16QAM	1	12	20.86	20.93	20.66	20.96	22	0.2	
5	16QAM	1	24	20.80	20.92	20.93	20.79			
5	16QAM	12	0	20.77	20.80	20.79	20.96	22	0.2	
5	16QAM	12	7	20.86	20.89	20.79	20.97			
5	16QAM	12	13	20.93	20.89	20.88	20.95	21	1.2	
5	16QAM	25	0	20.99	20.84	20.85	20.93			
5	64QAM	1	0	20.88	20.78	20.62	20.81	22	0.2	
5	64QAM	1	12	20.82	20.79	20.72	20.87			
5	64QAM	1	24	20.70	20.70	20.78	20.87	21	1.2	
5	64QAM	12	0	20.06	19.96	19.84	19.88			
5	64QAM	12	7	19.99	19.88	19.76	19.89	21	1.2	
5	64QAM	12	13	20.01	19.85	19.91	20.01			
5	64QAM	25	0	20.04	19.72	19.71	19.94			



DIS6 for Handheld Sim-Tx for UAT

Band 2 (1900MHz Band) Part 24E										
BW (MHz)	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	18.41	18.36	18.29				
20	QPSK	1	49	18.33	18.31	18.29	19.2	0		
20	QPSK	1	99	18.29	18.26	18.27				
20	QPSK	50	0	18.29	18.27	18.19				
20	QPSK	50	24	18.24	18.11	18.07	19.2	0		
20	QPSK	50	50	18.15	18.12	18.07				
20	QPSK	100	0	18.23	18.20	18.12				
20	16QAM	1	0	17.94	18.34	17.95				
20	16QAM	1	49	17.96	18.33	18.00	19.2	0		
20	16QAM	1	99	17.82	17.97	17.90				
20	16QAM	50	0	18.24	18.23	18.16				
20	16QAM	50	24	18.20	18.25	18.06				
20	16QAM	50	50	18.22	18.21	18.10	19.2	0		
20	16QAM	100	0	18.21	18.15	18.13				
20	16QAM	1	0	18.04	18.32	18.11				
20	16QAM	1	49	17.96	18.31	18.11	19.2	0		
20	16QAM	1	99	18.16	18.25	18.00				
20	16QAM	50	0	18.20	18.25	18.06				
20	16QAM	50	24	18.15	18.09	17.79				
20	16QAM	50	50	18.21	18.17	17.87	19.2	0		
20	16QAM	100	0	18.24	18.22	18.06				
Channel Frequency (MHz)										
				18675	18900	19025	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	18.33	18.30	18.28				
15	QPSK	1	37	18.32	18.32	18.25	19.2	0		
15	QPSK	1	74	18.20	18.21	18.17				
15	QPSK	36	0	18.24	18.18	18.18				
15	QPSK	36	20	18.24	18.05	18.06	19.2	0		
15	QPSK	36	39	18.09	18.03	17.88				
15	QPSK	75	0	18.23	18.20	18.05				
15	16QAM	1	0	17.84	18.31	17.86				
15	16QAM	1	37	17.86	18.24	18.15	19.2	0		
15	16QAM	1	74	17.87	17.90	17.84				
15	16QAM	36	0	18.18	18.18	18.15				
15	16QAM	36	20	18.16	18.32	18.02	19.2	0		
15	16QAM	36	39	18.15	18.16	18.10				
15	16QAM	75	0	18.19	18.13	18.10				
15	16QAM	1	0	17.86	18.24	18.15				
15	16QAM	1	37	17.87	18.29	18.02	19.2	0		
15	16QAM	1	74	18.07	18.18	17.99				
15	16QAM	36	0	18.17	18.25	18.01				
15	16QAM	36	20	18.07	17.99	17.77	19.2	0		
15	16QAM	36	39	18.14	18.10	17.86				
15	16QAM	75	0	18.12	18.12	17.89				
Channel Frequency (MHz)										
				18562	18900	19150	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	0	18.40	18.35	18.19				
10	QPSK	1	25	18.33	18.29	18.27	19.2	0		
10	QPSK	1	49	18.28	18.22	18.24				
10	QPSK	25	0	18.24	18.21	18.10				
10	QPSK	25	12	18.18	18.09	18.03	19.2	0		
10	QPSK	25	25	18.09	17.95	17.86				
10	QPSK	50	0	18.18	18.11	18.11				
10	16QAM	1	0	17.95	18.35	17.85				
10	16QAM	1	25	17.88	18.24	17.91	19.2	0		
10	16QAM	1	49	17.81	17.91	17.90				
10	16QAM	25	0	18.05	18.20	18.05				
10	16QAM	25	12	18.12	18.33	17.96	19.2	0		
10	16QAM	25	25	18.21	18.21	18.05				
10	16QAM	50	0	18.13	18.15	18.08				
10	16QAM	1	0	17.97	18.27	18.17				
10	16QAM	1	25	17.91	18.21	18.05	19.2	0		
10	16QAM	1	49	18.11	18.16	17.95				
10	16QAM	25	0	18.17	18.24	18.06				
10	16QAM	25	12	18.05	18.01	17.78	19.2	0		
10	16QAM	25	25	18.13	18.14	17.85				
10	16QAM	50	0	18.20	18.17	17.98				
Channel Frequency (MHz)										
				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	0	18.40	18.28	18.07				
5	QPSK	1	12	18.25	18.25	18.20	19.2	0		
5	QPSK	1	24	18.27	18.27	18.22				
5	QPSK	12	0	18.23	18.28	18.12				
5	QPSK	12	7	18.19	18.09	17.99	19.2	0		
5	QPSK	12	13	18.11	18.02	17.84				
5	QPSK	25	0	18.14	18.20	18.13				
5	16QAM	1	0	17.87	18.29	17.92				
5	16QAM	1	12	17.80	18.32	17.93	19.2	0		
5	16QAM	1	24	17.77	17.97	17.87				
5	16QAM	12	0	18.22	18.19	18.06				
5	16QAM	12	7	18.18	18.33	17.97	19.2	0		
5	16QAM	12	13	18.22	18.16	18.07				
5	16QAM	25	0	18.17	18.05	18.05				
5	16QAM	25	0	17.97	18.24	18.00				
5	16QAM	1	12	17.97	18.28	18.04	19.2	0		
5	16QAM	1	24	18.12	18.20	17.93				
5	16QAM	12	0	18.15	18.21	18.02				
5	16QAM	12	7	18.14	18.02	17.71	19.2	0		
5	16QAM	12	13	18.16	18.15	17.84				
5	16QAM	25	0	18.17	18.10	18.08				
Channel Frequency (MHz)										
				18515	18900	19085	Tune-up limit (dBm)	MPR (dB)		
3	QPSK	1	0	18.38	18.36	18.27				
3	QPSK	1	8	18.32	18.29	18.24	19.2	0		
3	QPSK	1	14	18.30	18.25	18.10				
3	QPSK	8	0	18.29	18.17	18.10				
3	QPSK	8	4	18.22	18.06	17.97	19.2	0		
3	QPSK	8	7	18.11	18.01	17.87				
3	QPSK	15	0	18.20	18.11	18.13				
3	16QAM	1	0	17.89	18.32	17.85				
3	16QAM	1	8	17.88	18.32	18.01	19.2	0		
3	16QAM	1	14	17.76	17.90	17.87				
3	16QAM	8	0	18.18	18.14	18.17				
3	16QAM	8	4	18.18	18.30	17.96	19.2	0		
3	16QAM	8	7	18.12	18.17	18.06				
3	16QAM	15	0	18.21	18.16	18.09				
3	16QAM	1	0	18.01	18.33	18.14				
3	16QAM	1	8	17.94	18.21	18.01	19.2	0		
3	16QAM	1	14	18.14	18.16	17.96				
3	16QAM	8	0	18.19	18.20	17.90				
3	16QAM	8	4	18.11	18.09	17.73	19.2	0		
3	16QAM	8	7	18.12	18.07	17.85				
3	16QAM	15	0	18.22	18.12	17.99				
Channel Frequency (MHz)										
				18607	18900	19093	Tune-up limit (dBm)	MPR (dB)		
1.4	QPSK	1	0	20.21	18.34	18.29				
1.4	QPSK	1	3	18.34	18.26	18.29	19.2	0		
1.4	QPSK	1	5	18.20	18.24	18.24				
1.4	QPSK	3	0	18.30	18.26	18.11				
1.4	QPSK	3	1	18.17	18.04	18.07	19.2	0		
1.4	QPSK	3	3	18.08	17.96	17.84				
1.4	QPSK	6	0	18.24	18.11	18.07	19.2	0		
1.4	16QAM	1	0	17.89	18.26	17.92				
1.4	16QAM	1	3	17.88	18.29	17.92	19.2	0		
1.4	16QAM	1	5	17.76	17.94	17.84				
1.4	16QAM	3	0	18.20	18.16	18.13				
1.4	16QAM	3	1	18.19	18.34	17.97	19.2	0		
1.4	16QAM	3	3	18.14	18.20	18.00				
1.4	16QAM	6	0	18.22	18.22	18.00	19.2	0		
1.4	16QAM	1	3	17.87	18.25	18.12				
1.4	16QAM	1	5	18.12	18.26	18.01	19.2	0		
1.4	16QAM	3	0	18.11	18.23	18.00				
1.4	16QAM									



Band 30									
BW (MHz)	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		19.30		20	0	
10	QPSK	1	25		19.05				
10	QPSK	1	49		18.84				
10	QPSK	25	0		19.01				
10	QPSK	25	12		19.07		20	0	
10	QPSK	25	25		18.85				
10	QPSK	50	0		18.85				
10	16QAM	1	0		19.19				
10	16QAM	1	25		19.17		20	0	
10	16QAM	1	49		19.07				
10	16QAM	25	0		19.07				
10	16QAM	25	12		19.05				
10	16QAM	25	25		18.91		20	0	
10	16QAM	50	0		18.84				
10	64QAM	1	0		19.22				
10	64QAM	1	25		19.21		20	0	
10	64QAM	1	49		19.28				
10	64QAM	25	0		19.11				
10	64QAM	25	12		19.06		20	0	
10	64QAM	25	25		18.92				
10	64QAM	50	0		18.89				
Channel									
Frequency (MHz)									
5	QPSK	1	0	19.02	18.99	18.88	20	0	
5	QPSK	1	12	18.81	18.89	18.83			
5	QPSK	1	24	18.91	18.93	18.91			
5	QPSK	12	0	19.04	18.98	18.97			
5	QPSK	12	7	18.99	18.98	19.00	20	0	
5	QPSK	12	13	18.96	18.93	18.97			
5	QPSK	25	0	18.92	18.89	19.01			
5	16QAM	1	0	19.27	19.08	19.14	20	0	
5	16QAM	1	12	19.16	19.05	19.22			
5	16QAM	1	24	19.12	19.02	19.15			
5	16QAM	12	0	18.96	18.97	18.94			
5	16QAM	12	7	19.01	18.93	19.04	20	0	
5	16QAM	12	13	19.10	18.88	18.92			
5	16QAM	25	0	18.97	18.92	18.91			
5	64QAM	1	0	19.28	19.15	19.26	20	0	
5	64QAM	1	12	18.96	18.90	19.22			
5	64QAM	1	24	19.02	18.91	19.26			
5	64QAM	12	0	19.07	18.93	19.04			
5	64QAM	12	7	19.04	19.05	19.08	20	0	
5	64QAM	12	13	18.86	19.00	19.06			
5	64QAM	25	0	18.90	18.96	18.90			

Band 66									
BW (MHz)	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	19.14	19.35	19.02	20.1	0	
20	QPSK	1	49	18.89	18.99	18.88			
20	QPSK	1	99	18.84	18.97	18.76			
20	QPSK	50	0	18.99	19.00	18.94			
20	QPSK	50	24	19.00	19.11	18.97	20.1	0	
20	QPSK	50	50	18.91	19.02	18.86			
20	QPSK	100	0	19.02	19.03	18.94			
20	16QAM	1	0	19.16	19.09	19.09	20.1	0	
20	16QAM	1	49	19.26	19.23	18.77			
20	16QAM	1	99	19.23	19.32	19.03			
20	16QAM	50	0	18.99	19.14	18.88			
20	16QAM	50	24	19.04	19.13	19.01	20.1	0	
20	16QAM	50	50	19.05	19.10	18.99			
20	16QAM	100	0	19.10	19.10	18.91			
20	64QAM	1	0	19.25	19.29	19.25	20.1	0	
20	64QAM	1	49	19.05	19.29	19.20			
20	64QAM	1	99	19.05	18.99	19.07			
20	64QAM	50	0	18.94	19.03	18.77			
20	64QAM	50	24	19.01	18.92	18.85	20.1	0	
20	64QAM	50	50	18.92	19.01	18.88			
20	64QAM	100	0	18.91	18.80	18.83			
Channel									
Frequency (MHz)									
15	QPSK	1	0	19.07	19.26	18.93	20.1	0	
15	QPSK	1	37	18.90	18.91	18.78			
15	QPSK	1	74	18.75	18.98	18.67			
15	QPSK	36	0	18.92	18.93	18.92	20.1	0	
15	QPSK	36	20	18.95	19.10	18.98			
15	QPSK	36	39	18.83	19.03	18.87			
15	QPSK	75	0	19.01	19.02	18.83			
15	16QAM	1	0	19.11	19.09	19.05	20.1	0	
15	16QAM	1	37	19.19	19.13	18.78			
15	16QAM	1	74	19.18	19.22	18.95			
15	16QAM	36	0	18.95	19.08	18.82	20.1	0	
15	16QAM	36	20	19.04	19.08	18.90			
15	16QAM	36	39	18.95	19.01	18.89			
15	16QAM	75	0	19.01	19.02	18.90			
15	64QAM	1	0	19.24	19.21	19.23	20.1	0	
15	64QAM	1	37	19.04	19.20	19.20			
15	64QAM	1	74	18.98	18.91	18.99			
15	64QAM	36	0	18.91	19.01	18.78	20.1	0	
15	64QAM	36	20	18.95	18.84	18.75			
15	64QAM	36	39	18.91	19.01	18.84			
15	64QAM	75	0	18.83	18.70	18.79			
Channel									
Frequency (MHz)									
10	QPSK	1	0	19.10	19.32	18.94	20.1	0	
10	QPSK	1	25	18.82	18.98	18.81			
10	QPSK	1	49	18.80	18.95	18.71			
10	QPSK	25	0	19.00	19.00	18.85	20.1	0	
10	QPSK	25	12	18.83	19.01	18.93			
10	QPSK	25	25	18.92	19.00	18.86			
10	QPSK	50	0	18.95	18.95	18.79			
10	16QAM	1	0	19.06	19.08	19.08	20.1	0	
10	16QAM	1	25	19.20	19.23	18.70			
10	16QAM	1	49	19.22	19.32	19.03			
10	16QAM	25	0	18.92	19.10	18.86	20.1	0	
10	16QAM	25	12	18.95	19.05	18.92			
10	16QAM	25	25	19.03	19.02	19.00			
10	16QAM	50	0	19.10	19.05	18.92			
10	64QAM	1	0	19.19	19.26	19.23	20.1	0	
10	64QAM	1	25	19.00	19.22	19.12			
10	64QAM	1	49	19.01	18.99	19.08			
10	64QAM	25	0	18.98	18.94	18.72	20.1	0	
10	64QAM	25	12	18.96	18.84	18.76			
10	64QAM	25	25	18.84	18.96	18.82			
10	64QAM	50	0	18.91	18.75	18.80			
Channel									
Frequency (MHz)									
5	QPSK	1	0	19.09	19.30	19.03	20.1	0	
5	QPSK	1	12	18.80	18.99	18.89			
5	QPSK	1	24	18.75	18.91	18.72			
5	QPSK	12	0	18.97	18.92	18.94	20.1	0	
5	QPSK	12	7	18.96	19.11	18.90			
5	QPSK	12	13	18.85	18.95	18.87			
5	QPSK	25	0	18.94	18.95	18.79			
5	16QAM	1	0	19.17	19.04	19.07	20.1	0	
5	16QAM	1	12	19.21	19.22	18.68			
5	16QAM	1	24	19.24	19.29	18.99			
5	16QAM	12	0	18.96	19.09	18.88	20.1	0	
5	16QAM	12	7	18.94	19.03	18.85			
5	16QAM	12	13	19.05	19.10	18.90			
5	16QAM	25	0	19.07	19.04	18.91			
5	64QAM	1	0	19.20	19.24	19.21	20.1	0	
5	64QAM	1	12	18.97	19.21	19.18			
5	64QAM	1	24	18.99	19.00	19.05			
5	64QAM	12	0	18.85	19.04	18.74	20.1	0	
5	64QAM	12	7	18.96	18.86	18.75			
5	64QAM	12	13	18.96	18.93	18.82			
5	64QAM	25	0	18.83	18.78	18.78			
Channel									
Frequency (MHz)									
3	QPSK	1	0	19.06	19.31	18.92	20.1	0	
3	QPSK	1	8	18.81	18.91	18.83			
3	QPSK	1	14	18.80	18.92	18.72			
3	QPSK	8	0	18.92	18.91	18.95	20.1	0	
3	QPSK	8	4	18.96	19.12	18.97			
3	QPSK	8	7	18.88	18.95	18.76			
3	QPSK	15	0	19.01	19.02	18.77			
3	16QAM	1	0	19.07	19.07	19.02	20.1	0	
3	16QAM	1							



Band 48 (3.5G Band)-FCC										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low-Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dBm)	MPR (dB)	
Channel				55340	55830	56150	56640			
Frequency (MHz)				3560	3609	3641	3690			
20	QPSK	1	0	18.71	18.82	18.50	18.58	19.7	0	
20	QPSK	1	49	18.49	18.51	18.52	18.59			
20	QPSK	1	99	18.55	18.58	18.55	18.70			
20	QPSK	50	0	18.67	18.56	18.42	18.55			
20	QPSK	50	24	18.45	18.56	18.46	18.57	19.7	0	
20	QPSK	50	50	18.46	18.44	18.46	18.57			
20	QPSK	100	0	18.58	18.52	18.51	18.55			
20	16QAM	1	0	18.54	18.38	18.69	18.49			
20	16QAM	1	49	18.46	18.23	18.59	18.51	19.7	0	
20	16QAM	1	99	18.42	18.31	18.32	18.46			
20	16QAM	50	0	18.55	18.61	18.57	18.34			
20	16QAM	50	24	18.45	18.35	18.36	18.62			
20	16QAM	50	50	18.54	18.55	18.64	18.32	19.7	0	
20	16QAM	100	0	18.68	18.59	18.61	18.55			
20	64QAM	1	0	18.18	18.49	18.44	18.51			
20	64QAM	1	49	18.41	18.45	18.21	18.15			
20	64QAM	1	99	18.40	18.30	18.29	18.16	19.7	0	
20	64QAM	50	0	18.58	18.40	18.43	18.64			
20	64QAM	50	24	18.38	18.59	18.50	18.55			
20	64QAM	50	50	18.26	18.27	18.41	18.24			
20	64QAM	100	0	18.69	18.48	18.65	18.47			
Channel				55315	55820	56160	56655	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3557.5	3608	3642	3692.5			
15	QPSK	1	0	18.64	18.56	18.44	18.56	19.7	0	
15	QPSK	1	37	18.50	18.45	18.51	18.60			
15	QPSK	1	74	18.54	18.59	18.47	18.61			
15	QPSK	36	0	18.60	18.55	18.34	18.54			
15	QPSK	36	20	18.41	18.54	18.46	18.53	19.7	0	
15	QPSK	36	39	18.41	18.44	18.40	18.52			
15	QPSK	75	0	18.52	18.43	18.41	18.50			
15	16QAM	1	0	18.29	18.28	18.60	18.46			
15	16QAM	1	37	18.41	18.18	18.57	18.48	19.7	0	
15	16QAM	1	74	18.39	18.32	18.31	18.44			
15	16QAM	36	0	18.54	18.56	18.51	18.30			
15	16QAM	36	20	18.40	18.29	18.32	18.60			
15	16QAM	36	39	18.50	18.45	18.59	18.33	19.7	0	
15	16QAM	75	0	18.69	18.53	18.51	18.52			
15	64QAM	1	0	18.17	18.49	18.35	18.46			
15	64QAM	1	37	18.31	18.38	18.19	18.16			
15	64QAM	1	74	18.33	18.27	18.28	18.12	19.7	0	
15	64QAM	36	0	18.56	18.35	18.39	18.56			
15	64QAM	36	20	18.32	18.54	18.40	18.46			
15	64QAM	36	39	18.18	18.24	18.33	18.15			
15	64QAM	75	0	18.66	18.43	18.63	18.38			
Channel				55290	55815	56165	56690	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3553	3597.5	3642.5	3693			
10	QPSK	1	0	18.63	18.54	18.49	18.49	19.7	0	
10	QPSK	1	25	18.47	18.47	18.47	18.57			
10	QPSK	1	49	18.45	18.54	18.48	18.60			
10	QPSK	25	0	18.67	18.47	18.34	18.46			
10	QPSK	25	12	18.44	18.51	18.37	18.48	19.7	0	
10	QPSK	25	25	18.46	18.35	18.47	18.51			
10	QPSK	50	0	18.54	18.43	18.44	18.45			
10	16QAM	1	0	18.64	18.28	18.69	18.41			
10	16QAM	1	25	18.36	18.17	18.55	18.51	19.7	0	
10	16QAM	1	49	18.43	18.21	18.28	18.47			
10	16QAM	25	0	18.47	18.52	18.53	18.32			
10	16QAM	25	12	18.38	18.30	18.37	18.58			
10	16QAM	25	25	18.54	18.56	18.56	18.22	19.7	0	
10	16QAM	50	0	18.69	18.59	18.54	18.55			
10	64QAM	1	0	18.18	18.47	18.43	18.47			
10	64QAM	1	25	18.31	18.46	18.14	18.17			
10	64QAM	1	49	18.33	18.30	18.27	18.12	19.7	0	
10	64QAM	25	0	18.58	18.31	18.33	18.57			
10	64QAM	25	12	18.29	18.52	18.43	18.56			
10	64QAM	25	25	18.25	18.19	18.33	18.20			
10	64QAM	50	0	18.69	18.49	18.61	18.45			
Channel				55265	55810	56170	56715	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3552.5	3607	3643	3697.5			
5	QPSK	1	0	18.70	18.60	18.42	18.54	19.7	0	
5	QPSK	1	12	18.46	18.43	18.52	18.53			
5	QPSK	1	24	18.54	18.59	18.47	18.65			
5	QPSK	12	0	18.60	18.55	18.40	18.49			
5	QPSK	12	7	18.45	18.48	18.43	18.49	19.7	0	
5	QPSK	12	13	18.44	18.35	18.36	18.49			
5	QPSK	25	0	18.50	18.47	18.51	18.49			
5	16QAM	1	0	18.62	18.32	18.65	18.42			
5	16QAM	1	12	18.38	18.17	18.58	18.52	19.7	0	
5	16QAM	1	24	18.34	18.29	18.23	18.45			
5	16QAM	12	0	18.46	18.57	18.55	18.29			
5	16QAM	12	7	18.39	18.33	18.33	18.59			
5	16QAM	12	13	18.52	18.49	18.65	18.30	19.7	0	
5	16QAM	25	0	18.69	18.53	18.57	18.46			
5	64QAM	1	0	18.18	18.45	18.39	18.51			
5	64QAM	1	12	18.35	18.39	18.20	18.16			
5	64QAM	1	24	18.40	18.21	18.29	18.20	19.7	0	
5	64QAM	12	0	18.49	18.38	18.43	18.63			
5	64QAM	12	7	18.38	18.59	18.49	18.56			
5	64QAM	12	13	18.17	18.27	18.41	18.17			
5	64QAM	25	0	18.66	18.41	18.63	18.47			



Inter Uplink CA Power

PCC:Ant2		SCC:Ant1		Tune up Power (dBm)									
CA_2A-4A													
Combination 20MHz+20MHz (100RB+100RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
18700	20050	QPSK	1	0	1	0	21.61	16.08	22.68	23	17	24.0	
			1	49	1	49	21.61	16.21	22.71	23	17	24.0	
			1	99	1	99	21.64	16.02	22.69	23	17	24.0	
			50	0	50	0	18.96	19.38	22.19	21	21	24.0	
			50	24	50	24	19.14	19.54	22.35	21	21	24.0	
			50	50	50	50	19.09	19.15	22.13	21	21	24.0	
18900	20175	QPSK	100	0	100	0	19.06	19.26	22.17	21	21	24.0	
			1	0	1	0	21.35	16.16	22.50	23	17	24.0	
			1	49	1	49	21.31	15.67	22.36	23	17	24.0	
			1	99	1	99	21.30	15.50	22.31	23	17	24.0	
			50	0	50	0	19.32	19.28	22.31	21	21	24.0	
			50	24	50	24	19.35	19.14	22.26	21	21	24.0	
19100	20300	QPSK	50	50	50	50	19.28	19.28	22.29	21	21	24.0	
			100	0	100	0	19.38	19.19	22.30	21	21	24.0	
			1	0	1	0	21.28	15.46	22.29	23	17	24.0	
			1	49	1	49	21.31	15.38	22.30	23	17	24.0	
			1	99	1	99	21.26	15.64	22.31	23	17	24.0	
			50	0	50	0	19.79	19.34	22.58	21	21	24.0	

PCC:Ant1		SCC:Ant2		Tune up Power (dBm)									
CA_4A-2A													
Combination 20MHz+20MHz (100RB+100RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
20050	18700	QPSK	1	0	1	0	21.57	16.10	22.65	23	17	24.0	
			1	49	1	49	21.49	16.05	22.58	23	17	24.0	
			1	99	1	99	21.65	16.17	22.73	23	17	24.0	
			50	0	50	0	19.55	19.12	22.35	21	21	24.0	
			50	24	50	24	19.26	19.23	22.26	21	21	24.0	
			50	50	50	50	19.21	19.64	22.44	21	21	24.0	
20175	18900	QPSK	100	0	100	0	19.05	19.41	22.24	21	21	24.0	
			1	0	1	0	21.80	16.24	22.87	23	17	24.0	
			1	49	1	49	21.91	15.65	22.83	23	17	24.0	
			1	99	1	99	21.66	16.18	22.74	23	17	24.0	
			50	0	50	0	19.23	19.21	22.23	21	21	24.0	
			50	24	50	24	19.53	19.31	22.43	21	21	24.0	
20300	19100	QPSK	50	50	50	50	19.50	19.21	22.37	21	21	24.0	
			100	0	100	0	19.17	19.12	22.16	21	21	24.0	
			1	0	1	0	21.62	16.35	22.75	23	17	24.0	
			1	49	1	49	21.65	16.33	22.77	23	17	24.0	
			1	99	1	99	21.63	16.06	22.69	23	17	24.0	
			50	0	50	0	19.20	19.33	22.28	21	21	24.0	

PCC:Ant1		SCC:Ant2		Tune up Power (dBm)									
CA_2A-4A													
Combination 20MHz+20MHz (100RB+100RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
18700	20050	QPSK	1	0	1	0	22.12	16.27	23.12	23	17	24.0	
			1	49	1	49	22.30	15.51	23.13	23	17	24.0	
			1	99	1	99	22.27	15.90	23.17	23	17	24.0	
			50	0	50	0	19.79	19.45	22.63	21	21	24.0	
			50	24	50	24	19.89	19.52	22.72	21	21	24.0	
			50	50	50	50	19.72	19.50	22.62	21	21	24.0	
18900	20175	QPSK	100	0	100	0	19.72	19.43	22.59	21	21	24.0	
			1	0	1	0	22.06	16.03	23.03	23	17	24.0	
			1	49	1	49	21.99	15.22	22.82	23	17	24.0	
			1	99	1	99	21.91	15.64	22.83	23	17	24.0	
			50	0	50	0	20.11	19.24	22.71	21	21	24.0	
			50	24	50	24	19.66	20.01	22.85	21	21	24.0	
19100	20300	QPSK	50	50	50	50	19.69	19.72	22.72	21	21	24.0	
			100	0	100	0	19.53	19.53	22.54	21	21	24.0	
			1	0	1	0	22.14	15.76	23.04	23	17	24.0	
			1	49	1	49	22.07	16.37	23.11	23	17	24.0	
			1	99	1	99	21.10	15.77	22.22	23	17	24.0	
			50	0	50	0	20.17	19.41	22.82	21	21	24.0	

PCC:Ant2		SCC:Ant1		Tune up Power (dBm)									
CA_4A-2A													
Combination 20MHz+20MHz (100RB+100RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
20050	18700	QPSK	1	0	1	0	21.93	15.02	22.74	23	17	24.0	
			1	49	1	49	22.13	15.21	22.93	23	17	24.0	
			1	99	1	99	21.86	15.06	22.68	23	17	24.0	
			50	0	50	0	19.56	18.98	22.29	21.5	20.5	24.0	
			50	24	50	24	19.53	18.80	22.19	21.5	20.5	24.0	
			50	50	50	50	19.53	18.53	22.07	21.5	20.5	24.0	
20175	18900	QPSK	100	0	100	0	19.49	19.56	22.06	21.5	20.5	24.0	
			1	0	1	0	21.74	15.23	22.62	23	17	24.0	
			1	49	1	49	21.52	13.57	22.17	23	17	24.0	
			1	99	1	99	21.33	14.52	22.15	23	17	24.0	
			50	0	50	0	19.89	18.59	22.30	21.5	20.5	24.0	
			50	24	50	24	19.76	18.55	22.21	21.5	20.5	24.0	
20300	19100	QPSK	50	50	50	50	19.69	18.56	22.17	21.5	20.5	24.0	
			100	0	100	0	19.72	18.70	22.25	21.5	20.5	24.0	
			1	0	1	0	21.18	14.57	22.04	23	17	24.0	
			1	49	1	49	21.21	13.59	21.90	23	17	24.0	
			1	99	1	99	21.02	13.61	21.74	23	17	24.0	
			50	0	50	0	19.52	18.83	22.11	21.5	20.5	24.0	



PCC:Ant2		SCC:Ant1		Tune up Power (dBm)									
CA_2A-66A													
Combination 20MHz+20MHz (100RB+100RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
18700	132072	QPSK	1	0	1	0	21.71	16.10	22.76	23	17	24.0	
			1	49	1	49	21.49	16.05	22.58	23	17	24.0	
			1	99	1	99	21.65	16.17	22.73	23	17	24.0	
			50	0	50	0	19.55	19.12	22.35	21	21	24.0	
			50	24	50	24	19.26	19.23	22.26	21	21	24.0	
			50	50	50	50	19.21	19.64	22.44	21	21	24.0	
			100	0	100	0	19.05	19.41	22.24	21	21	24.0	
			1	0	1	0	21.54	16.26	22.67	23	17	24.0	
			1	49	1	49	21.63	16.30	22.75	23	17	24.0	
			1	99	1	99	21.63	16.13	22.71	23	17	24.0	
18900	132322	QPSK	50	0	50	0	19.55	19.22	22.40	21	21	24.0	
			50	24	50	24	19.69	19.30	22.51	21	21	24.0	
			50	50	50	50	19.64	19.19	22.43	21	21	24.0	
			100	0	100	0	19.54	19.16	22.36	21	21	24.0	
			1	0	1	0	21.70	15.76	22.69	23	17	24.0	
			1	49	1	49	21.70	15.59	22.65	23	17	24.0	
			1	99	1	99	21.31	15.53	22.33	23	17	24.0	
			50	0	50	0	19.47	19.26	22.38	21	21	24.0	
			50	24	50	24	19.48	19.18	22.34	21	21	24.0	
			50	50	50	50	19.41	19.14	22.29	21	21	24.0	
19100	132572	QPSK	100	0	100	0	19.48	19.19	22.35	21	21	24.0	

PCC:Ant1		SCC:Ant2		Tune up Power (dBm)									
CA_66A-2A													
Combination 20MHz+20MHz (100RB+100RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
132072	18700	QPSK	1	0	1	0	21.76	14.96	22.78	23	17	24.0	
			1	49	1	49	21.96	14.97	22.95	23	17	24.0	
			1	99	1	99	21.89	15.03	22.90	23	17	24.0	
			50	0	50	0	19.35	19.18	22.48	21	21	24.0	
			50	24	50	24	19.49	19.11	22.51	21	21	24.0	
			50	50	50	50	19.45	19.05	22.46	21	21	24.0	
			100	0	100	0	19.39	19.00	22.41	21	21	24.0	
			1	0	1	0	21.98	15.03	22.88	23	17	24.0	
			1	49	1	49	21.81	15.12	22.85	23	17	24.0	
			1	99	1	99	21.68	15.63	22.94	23	17	24.0	
132322	18900	QPSK	50	0	50	0	19.36	19.10	22.44	21	21	24.0	
			50	24	50	24	19.32	19.05	22.40	21	21	24.0	
			50	50	50	50	19.15	19.08	22.33	21	21	24.0	
			100	0	100	0	19.28	19.09	22.40	21	21	24.0	
			1	0	1	0	21.61	15.04	22.67	23	17	24.0	
			1	49	1	49	21.55	15.61	22.58	23	17	24.0	
			1	99	1	99	21.31	15.37	22.50	23	17	24.0	
			50	0	50	0	19.07	19.30	22.40	21	21	24.0	
			50	24	50	24	19.06	19.20	22.34	21	21	24.0	
			50	50	50	50	19.04	19.07	22.27	21	21	24.0	
132572	19100	QPSK	100	0	100	0	19.03	19.17	22.31	21	21	24.0	

PCC:Ant1		SCC:Ant2		Tune up Power (dBm)									
CA_2A-66A													
Combination 20MHz+20MHz (100RB+100RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
18700	132072	QPSK	1	0	1	0	22.30	16.29	23.27	23	17	24.0	
			1	49	1	49	22.18	15.65	23.05	23	17	24.0	
			1	99	1	99	22.20	16.12	23.16	23	17	24.0	
			50	0	50	0	19.56	19.43	22.51	21	21	24.0	
			50	24	50	24	19.57	19.48	22.54	21	21	24.0	
			50	50	50	50	19.49	19.47	22.49	21	21	24.0	
			100	0	100	0	19.57	19.42	22.51	21	21	24.0	
			1	0	1	0	22.25	16.30	23.23	23	17	24.0	
			1	49	1	49	22.54	15.06	23.25	23	17	24.0	
			1	99	1	99	22.38	15.94	23.27	23	17	24.0	
18900	132322	QPSK	50	0	50	0	18.25	19.58	21.98	21	21	24.0	
			50	24	50	24	19.04	19.54	22.31	21	21	24.0	
			50	50	50	50	18.96	19.45	22.22	21	21	24.0	
			100	0	100	0	19.06	19.46	22.27	21	21	24.0	
			1	0	1	0	22.23	15.03	22.99	23	17	24.0	
			1	49	1	49	22.47	15.27	23.23	23	17	24.0	
			1	99	1	99	22.05	15.49	22.92	23	17	24.0	
			50	0	50	0	19.66	19.30	22.49	21	21	24.0	
			50	24	50	24	19.57	19.27	22.43	21	21	24.0	
			50	50	50	50	19.95	19.21	22.81	21	21	24.0	
19100	132572	QPSK	100	0	100	0	19.54	19.29	22.43	21	21	24.0	

PCC:Ant2		SCC:Ant1		Tune up Power (dBm)									
CA_66A-2A													
Combination 20MHz+20MHz (100RB+100RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
132072	18700	QPSK	1	0	1	0	21.41	15.34	22.37	23	17	24.0	
			1	49	1	49	21.54	15.69	22.54	23	17	24.0	
			1	99	1	99	21.46	15.61	22.46	23	17	24.0	
			50	0	50	0	19.53	18.55	22.08	21.5	20.5	24.0	
			50	24	50	24	19.62	18.64	22.17	21.5	20.5	24.0	
			50	50	50	50	19.56	18.59	22.11	21.5	20.5	24.0	
			100	0	100	0	19.51	18.52	22.05	21.5	20.5	24.0	
			1	0	1	0	21.46	15.45	22.43	23	17	24.0	
			1	49	1	49	21.68	15.09	22.54	23	17	24.0	
			1	99	1	99	21.47	15.03	22.36	23	17	24.0	
132322	18900	QPSK	50	0	50	0	19.80	18.60	22.25	21.5	20.5	24.0	
			50	24	50	24	19.65	18.52	22.13	21.5	20.5	24.0	
			50	50	50	50	19.60	18.56	22.12	21.5	20.5	24.0	
			100	0	100	0	19.53	18.54	22.07	21.5	20.5	24.0	
			1	0	1	0	21.31	15.63	22.35	23	17	24.0	
			1	49	1	49	21.10	15.74	22.21	23	17	24.0	
			1	99	1	99	21.17	15.62	22.24	23	17	24.0	
			50	0	50	0	19.51	18.96	22.21	21.5	20.5	24.0	
			50	24	50	24	19.61	18.66	22.17	21.5	20.5	24.0	
			50	50	50	50	19.59	18.59	22.13	21.5	20.5	24.0	
132572	19100	QPSK	100	0	100	0	19.56	18.87	22.24	21.5	20.5	24.0	



PCC:Ant1		SCC:Ant2		Tune up Power (dBm)									
CA_2A-5A													
Combination 20MHz*10MHz (100RB*50RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
18700	20450	QPSK	1	0	1	0	21.77	16.03	23.40	22.8	18	24.0	
			1	49	1	25	21.86	16.06	23.47	22.8	18	24.0	
			1	99	1	49	21.81	16.22	23.47	22.8	18	24.0	
			50	0	25	0	19.31	19.56	22.85	21	21	24.0	
			50	24	25	12	19.37	19.76	22.98	21	21	24.0	
			50	50	25	25	19.35	19.83	23.01	21	21	24.0	
			100	0	50	0	19.31	19.69	22.91	21	21	24.0	
			1	0	1	0	21.65	16.08	23.31	22.8	18	24.0	
			1	49	1	25	21.76	16.06	23.40	22.8	18	24.0	
			1	99	1	49	21.46	16.30	23.22	22.8	18	24.0	
18900	20525	QPSK	50	0	25	0	19.27	19.97	23.04	21	21	24.0	
			50	24	25	12	19.29	19.45	22.78	21	21	24.0	
			50	50	25	25	19.32	19.64	22.89	21	21	24.0	
			100	0	50	0	19.29	19.36	22.74	21	21	24.0	
			1	0	1	0	21.34	16.07	23.07	22.8	18	24.0	
			1	49	1	25	21.63	16.08	23.30	22.8	18	24.0	
			1	99	1	49	21.59	16.15	23.28	22.8	18	24.0	
			50	0	25	0	19.28	19.49	22.80	21	21	24.0	
			50	24	25	12	19.19	19.59	22.80	21	21	24.0	
			50	50	25	25	19.14	19.48	22.72	21	21	24.0	
19100	20600	QPSK	100	0	50	0	19.28	19.56	22.83	21	21	24.0	

PCC:Ant2		SCC:Ant1		Tune up Power (dBm)									
CA_5A-2A													
Combination 10MHz*20MHz (50RB*100RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
20450	18700	QPSK	1	0	1	0	21.98	16.89	23.11	22.8	18	24.0	
			1	25	1	49	22.28	16.57	23.31	22.8	18	24.0	
			1	49	1	99	22.16	16.51	23.21	22.8	18	24.0	
			25	0	50	0	19.78	19.73	22.77	21	21	24.0	
			25	12	50	24	19.98	19.93	22.97	21	21	24.0	
			25	25	50	50	20.11	19.80	22.97	21	21	24.0	
			50	0	100	0	19.96	19.78	22.88	21	21	24.0	
			1	0	1	0	21.97	17.19	23.22	22.8	18	24.0	
			1	25	1	49	22.03	17.45	23.33	22.8	18	24.0	
			1	49	1	99	22.16	17.76	23.41	22.8	18	24.0	
20525	18900	QPSK	25	0	50	0	19.85	19.76	22.82	21	21	24.0	
			25	12	50	24	19.78	19.69	22.75	21	21	24.0	
			25	25	50	50	19.87	19.82	22.76	21	21	24.0	
			50	0	100	0	19.65	19.60	22.64	21	21	24.0	
			1	0	1	0	21.93	16.22	22.96	22.8	18	24.0	
			1	25	1	49	21.99	16.07	22.98	22.8	18	24.0	
			1	49	1	99	21.68	17.03	22.96	22.8	18	24.0	
			25	0	50	0	19.18	19.84	22.53	21	21	24.0	
			25	12	50	24	19.38	19.67	22.54	21	21	24.0	
			25	25	50	50	19.09	19.56	22.34	21	21	24.0	
20600	19100	QPSK	50	0	100	0	19.12	19.73	22.45	21	21	24.0	

PCC:Ant2		SCC:Ant8		Tune up Power (dBm)									
CA_2A-5A													
Combination 20MHz*10MHz (100RB*50RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
18700	20450	QPSK	1	0	1	0	22.48	15.25	23.23	23	17	24.0	
			1	49	1	25	22.47	15.39	23.25	23	17	24.0	
			1	99	1	49	22.54	15.41	23.31	23	17	24.0	
			50	0	25	0	19.26	20.27	22.80	20.5	21.5	24.0	
			50	24	25	12	19.38	20.51	22.99	20.5	21.5	24.0	
			50	50	25	25	19.29	20.54	22.97	20.5	21.5	24.0	
			100	0	50	0	19.13	20.30	22.76	20.5	21.5	24.0	
			1	0	1	0	22.59	15.11	23.30	23	17	24.0	
			1	49	1	25	22.46	15.21	23.21	23	17	24.0	
			1	99	1	49	22.51	15.31	23.27	23	17	24.0	
18900	20525	QPSK	50	0	25	0	19.03	20.57	22.88	20.5	21.5	24.0	
			50	24	25	12	19.18	20.83	23.09	20.5	21.5	24.0	
			50	50	25	25	19.32	20.94	23.22	20.5	21.5	24.0	
			100	0	50	0	19.19	20.80	23.08	20.5	21.5	24.0	
			1	0	1	0	22.33	15.03	23.07	23	17	24.0	
			1	49	1	25	22.36	15.10	23.11	23	17	24.0	
			1	99	1	49	22.18	15.02	22.94	23	17	24.0	
			50	0	25	0	19.04	20.70	22.96	20.5	21.5	24.0	
			50	24	25	12	18.99	20.73	22.96	20.5	21.5	24.0	
			50	50	25	25	18.72	20.48	22.70	20.5	21.5	24.0	
19100	20600	QPSK	100	0	50	0	18.91	20.63	22.86	20.5	21.5	24.0	

PCC:Ant8		SCC:Ant2		Tune up Power (dBm)									
CA_5A-2A													
Combination 10MHz*20MHz (50RB*100RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
20450	18700	QPSK	1	0	1	0	21.55	16.42	22.71	22.8	18	24.0	
			1	25	1	49	21.84	16.20	22.89	22.8	18	24.0	
			1	49	1	99	22.09	16.33	23.11	22.8	18	24.0	
			25	0	50	0	19.27	19.01	22.15	21	21	24.0	
			25	12	50	24	19.37	19.12	22.26	21	21	24.0	
			25	25	50	50	19.59	19.64	22.63	21	21	24.0	
			50	0	100	0	19.43	19.08	22.27	21	21	24.0	
			1	0	1	0	21.03	16.74	22.40	22.8	18	24.0	
			1	25	1	49	21.49	16.11	22.60	22.8	18	24.0	
			1	49	1	99	21.11	16.84	22.44	22.8	18	24.0	
20525	18900	QPSK	25	0	50	0	19.18	19.39	22.30	21	21	24.0	
			25	12	50	24	19.14	19.37	22.27	21	21	24.0	
			25	25	50	50	19.18	19.48	22.34	21	21	24.0	
			50	0	100	0	18.90	19.36	22.15	21	21	24.0	
			1	0	1	0	21.83	16.61	22.97	22.8	18	24.0	
			1	25	1	49	21.30	16.22	22.47	22.8	18	24.0	
			1	49	1	99	21.42	16.15	22.55	22.8	18	24.0	
			25	0	50	0	19.69	19.47	22.59	21	21	24.0	
			25	12	50	24	19.65	19.23	22.46	21	21	24.0	
			25	25	50	50	19.76	19.05	22.43	21	21	24.0	
20600	19100	QPSK	50	0	100	0	19.57	19.13	22.37	21	21	24.0	



PCC:Ant1		SCC:Ant2		Tune up Power (dBm)									
CA_2A-13A													
Combination 20MHz+10MHz (100RB+50RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
18700	23230	QPSK	1	0	1	0	22.25	16.67	23.31	23	17	24.0	
			1	49	1	25	22.38	16.54	23.39	23	17	24.0	
			1	99	1	49	22.20	15.80	23.10	23	17	24.0	
			50	0	25	0	21.10	19.20	23.26	21.5	20.5	24.0	
			50	24	25	12	20.68	18.95	22.91	21.5	20.5	24.0	
			50	50	25	25	20.70	18.70	22.82	21.5	20.5	24.0	
			100	0	50	0	20.60	18.99	22.88	21.5	20.5	24.0	
			1	0	1	0	22.28	16.78	23.36	23	17	24.0	
			1	49	1	25	22.25	16.60	23.30	23	17	24.0	
			1	99	1	49	22.21	16.04	23.15	23	17	24.0	
18900	23230	QPSK	50	0	25	0	20.50	19.20	22.91	21.5	20.5	24.0	
			50	24	25	12	20.49	19.12	22.87	21.5	20.5	24.0	
			50	50	25	25	20.65	18.66	22.76	21.5	20.5	24.0	
			100	0	50	0	20.51	18.98	22.82	21.5	20.5	24.0	
			1	0	1	0	22.41	16.40	23.38	23	17	24.0	
			1	49	1	25	22.15	16.61	23.22	23	17	24.0	
			1	99	1	49	22.31	15.77	23.18	23	17	24.0	
			50	0	25	0	20.50	19.18	22.90	21.5	20.5	24.0	
			50	24	25	12	20.68	18.97	22.92	21.5	20.5	24.0	
			50	50	25	25	20.57	18.84	22.80	21.5	20.5	24.0	
19100	23230	QPSK	100	0	50	0	20.56	19	22.86	21.5	20.5	24.0	

PCC:Ant2		SCC:Ant1		Tune up Power (dBm)									
CA_13A-2A													
Combination 10MHz+20MHz (50RB+100RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
23230	18700	QPSK	1	0	1	0	21.95	17.58	23.30	22.8	18	24.0	
			1	25	1	49	22.04	17.33	23.30	22.8	18	24.0	
			1	49	1	99	21.89	17.68	23.29	22.8	18	24.0	
			25	0	50	0	20.40	20.01	23.22	21.5	20.5	24.0	
			25	12	50	24	20.36	20.17	23.28	21.5	20.5	24.0	
			25	25	50	50	20.13	20.20	23.18	21.5	20.5	24.0	
			50	0	100	0	20.32	20.21	23.28	21.5	20.5	24.0	
			1	0	1	0	22.00	17.81	23.40	23	17	24.0	
			1	25	1	49	21.93	17.83	23.36	23	17	24.0	
			1	49	1	99	21.93	17.87	23.37	23	17	24.0	
23230	18900	QPSK	25	0	50	0	20.34	20.50	23.43	21.5	20.5	24.0	
			25	12	50	24	20.31	20.14	23.24	21.5	20.5	24.0	
			25	25	50	50	20.29	20.41	23.36	21.5	20.5	24.0	
			50	0	100	0	20.40	20.16	23.29	21.5	20.5	24.0	
			1	0	1	0	21.90	17.13	23.15	23	17	24.0	
			1	25	1	49	21.92	17.53	23.27	23	17	24.0	
			1	49	1	99	21.62	17.60	23.07	23	17	24.0	
			25	0	50	0	20.30	20.00	23.16	21.5	20.5	24.0	
			25	12	50	24	20.54	19.88	23.23	21.5	20.5	24.0	
			25	25	50	50	20.28	20.23	23.27	21.5	20.5	24.0	
23230	19100	QPSK	50	0	100	0	20.23	19.98	23.12	21.5	20.5	24.0	

PCC:Ant2		SCC:Ant8		Tune up Power (dBm)									
CA_2A-13A													
Combination 20MHz+10MHz (100RB+50RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
18700	23230	QPSK	1	0	1	0	21.62	17.49	23.04	22.8	18	24.0	
			1	49	1	25	21.37	17.12	22.76	22.8	18	24.0	
			1	99	1	49	21.32	17.28	22.76	22.8	18	24.0	
			50	0	25	0	19.80	20.86	23.29	20.5	21.5	24.0	
			50	24	25	12	19.26	21.10	23.29	20.5	21.5	24.0	
			50	50	25	25	19.30	21.00	23.24	20.5	21.5	24.0	
			100	0	50	0	19.40	20.99	23.28	20.5	21.5	24.0	
			1	0	1	0	21.73	17.33	23.08	22.8	18	24.0	
			1	49	1	25	21.23	17.11	22.65	22.8	18	24.0	
			1	99	1	49	21.04	17.43	22.61	22.8	18	24.0	
18900	23230	QPSK	50	0	25	0	19.45	20.90	23.25	20.5	21.5	24.0	
			50	24	25	12	19.37	20.96	23.25	20.5	21.5	24.0	
			50	50	25	25	19.31	20.90	23.19	20.5	21.5	24.0	
			100	0	50	0	19.25	20.77	23.09	20.5	21.5	24.0	
			1	0	1	0	21.67	17.33	23.03	22.8	18	24.0	
			1	49	1	25	21.54	16.99	22.85	22.8	18	24.0	
			1	99	1	49	20.84	17.05	22.36	22.8	18	24.0	
			50	0	25	0	19.38	20.86	23.19	20.5	21.5	24.0	
			50	24	25	12	19.44	20.91	23.25	20.5	21.5	24.0	
			50	50	25	25	19.16	21.12	23.26	20.5	21.5	24.0	
19100	23230	QPSK	100	0	50	0	19.45	20.87	23.23	20.5	21.5	24.0	

PCC:Ant8		SCC:Ant2		Tune up Power (dBm)									
CA_13A-2A													
Combination 10MHz+20MHz (50RB+100RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
23230	18700	QPSK	1	0	1	0	21.87	15.80	22.83	23	17	24.0	
			1	25	1	49	22.40	15.03	23.13	23	17	24.0	
			1	49	1	99	22.53	15.18	23.26	23	17	24.0	
			25	0	50	0	20.20	18.91	22.61	21.5	20.5	24.0	
			25	12	50	24	20.40	19.00	22.77	21.5	20.5	24.0	
			25	25	50	50	20.42	18.98	22.77	21.5	20.5	24.0	
			50	0	100	0	20.39	18.86	22.70	21.5	20.5	24.0	
			1	0	1	0	21.96	15.88	22.91	23	17	24.0	
			1	25	1	49	22.38	15.10	23.12	23	17	24.0	
			1	49	1	99	22.27	15.10	23.03	23	17	24.0	
23230	18900	QPSK	25	0	50	0	20.29	18.94	22.68	21.5	20.5	24.0	
			25	12	50	24	20.54	19.18	22.92	21.5	20.5	24.0	
			25	25	50	50	20.25	19.15	22.75	21.5	20.5	24.0	
			50	0	100	0	20.49	18.68	22.69	21.5	20.5	24.0	
			1	0	1	0	22.14	15.85	23.06	23	17	24.0	
			1	25	1	49	22.48	15.41	23.26	23	17	24.0	
			1	49	1	99	22.39	15.39	23.18	23	17	24.0	
			25	0	50	0	20.22	18.86	22.60	21.5	20.5	24.0	
			25	12	50	24	20.25	18.86	22.62	21.5	20.5	24.0	
			25	25	50	50	20.36	19.10	22.79	21.5	20.5	24.0	
23230	19100	QPSK	50	0	100	0	20.12	18.76	22.50	21.5	20.5	24.0	



PCC:Ant1 SCC:Ant2

Tune up Power (dBm)

CA_2A-12A												
Combination 20MHz+10MHz (100RB+50RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
18700	23060	QPSK	1	0	1	0	22.32	15.09	23.07	23	17	24.0
			1	49	1	25	22.38	15.11	23.13	23	17	24.0
			1	99	1	49	22.35	15.19	23.11	23	17	24.0
			50	0	25	0	19.91	18.36	22.21	21.5	20.5	24.0
			50	24	25	12	20.15	18.69	22.49	21.5	20.5	24.0
			50	50	25	25	20.16	18.86	22.57	21.5	20.5	24.0
18900	23095	QPSK	100	0	50	0	20.11	18.67	22.46	21.5	20.5	24.0
			1	0	1	0	22.47	15.11	23.20	23	17	24.0
			1	49	1	25	22.45	15.08	23.18	23	17	24.0
			1	99	1	49	22.58	15.09	23.29	23	17	24.0
			50	0	25	0	20.01	18.71	22.42	21.5	20.5	24.0
			50	24	25	12	20.06	18.58	22.39	21.5	20.5	24.0
19100	23130	QPSK	50	50	25	25	20.04	19.04	22.58	21.5	20.5	24.0
			100	0	50	0	19.99	18.85	22.47	21.5	20.5	24.0
			1	0	1	0	22.45	15.07	23.18	23	17	24.0
			1	49	1	25	22.10	15.31	22.93	23	17	24.0
			1	99	1	49	22.13	15.88	23.05	23	17	24.0
			50	0	25	0	19.95	18.90	22.47	21.5	20.5	24.0

PCC:Ant2 SCC:Ant1

Tune up Power (dBm)

CA_12A-2A												
Combination 10MHz+20MHz (50RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
23060	18700	QPSK	1	0	1	0	20.60	17.59	22.36	22.8	18	24.0
			1	25	1	49	20.83	16.82	22.28	22.8	18	24.0
			1	49	1	99	21.44	16.60	22.67	22.8	18	24.0
			25	0	50	0	18.89	19.86	22.41	20.5	21.5	24.0
			25	12	50	24	19.07	19.84	22.48	20.5	21.5	24.0
			25	25	50	50	19.10	20.13	22.66	20.5	21.5	24.0
23095	18900	QPSK	50	0	100	0	18.84	19.91	22.42	20.5	21.5	24.0
			1	0	1	0	21.04	17.62	22.67	22.8	18	24.0
			1	25	1	49	21.10	16.64	22.43	22.8	18	24.0
			1	49	1	99	21.30	16.40	22.52	22.8	18	24.0
			25	0	50	0	18.58	19.56	22.11	20.5	21.5	24.0
			25	12	50	24	18.73	19.54	22.16	20.5	21.5	24.0
23130	19100	QPSK	25	25	50	50	18.79	19.61	22.23	20.5	21.5	24.0
			50	0	100	0	18.68	19.56	22.15	20.5	21.5	24.0
			1	0	1	0	21.07	16.06	22.26	22.8	18	24.0
			1	25	1	49	21.28	16.26	22.47	22.8	18	24.0
			1	49	1	99	21.39	16.41	22.59	22.8	18	24.0
			25	0	50	0	18.64	19.55	22.13	20.5	21.5	24.0

PCC:Ant2 SCC:Ant8

Tune up Power (dBm)

CA_2A-12A												
Combination 20MHz+10MHz (100RB+50RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
18700	23060	QPSK	1	0	1	0	22.28	15.02	23.03	23	17	24.0
			1	49	1	25	22.33	15.05	23.07	23	17	24.0
			1	99	1	49	22.58	15.42	23.34	23	17	24.0
			50	0	25	0	19.79	18.69	22.29	21.5	20.5	24.0
			50	24	25	12	19.86	18.87	22.40	21.5	20.5	24.0
			50	50	25	25	20.06	19.03	22.59	21.5	20.5	24.0
18900	23095	QPSK	100	0	50	0	19.92	18.90	22.45	21.5	20.5	24.0
			1	0	1	0	22.44	15.04	23.17	23	17	24.0
			1	49	1	25	22.67	15.03	23.36	23	17	24.0
			1	99	1	49	22.61	15.01	23.31	23	17	24.0
			50	0	25	0	19.97	18.78	22.43	21.5	20.5	24.0
			50	24	25	12	20.01	18.95	22.52	21.5	20.5	24.0
19100	23130	QPSK	50	50	25	25	20.13	19.29	22.74	21.5	20.5	24.0
			100	0	50	0	19.91	18.91	22.45	21.5	20.5	24.0
			1	0	1	0	22.67	15.04	23.36	23	17	24.0
			1	49	1	25	22.48	15.01	23.20	23	17	24.0
			1	99	1	49	22.34	15.70	23.19	23	17	24.0
			50	0	25	0	19.98	18.68	22.39	21.5	20.5	24.0

PCC:Ant8 SCC:Ant2

Tune up Power (dBm)

CA_12A-2A												
Combination 10MHz+20MHz (50RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
23060	18700	QPSK	1	0	1	0	21.16	15.51	22.21	23	17	24.0
			1	25	1	49	21.35	15.37	22.33	23	17	24.0
			1	49	1	99	21.66	15.18	22.54	23	17	24.0
			25	0	50	0	19.58	18.56	22.11	21.5	20.5	24.0
			25	12	50	24	19.66	18.64	22.19	21.5	20.5	24.0
			25	25	50	50	19.58	18.54	22.10	21.5	20.5	24.0
23095	18900	QPSK	50	0	100	0	20.23	18.52	22.47	21.5	20.5	24.0
			1	0	1	0	21.23	15.11	22.18	23	17	24.0
			1	25	1	49	21.51	15.22	22.43	23	17	24.0
			1	49	1	99	21.56	15.14	22.45	23	17	24.0
			25	0	50	0	19.55	18.80	22.20	21.5	20.5	24.0
			25	12	50	24	19.63	18.79	22.24	21.5	20.5	24.0
23130	19100	QPSK	25	25	50	50	19.54	18.92	22.25	21.5	20.5	24.0
			50	0	100	0	19.57	18.71	22.17	21.5	20.5	24.0
			1	0	1	0	20.51	15.32	21.66	23	17	24.0
			1	25	1	49	20.98	15.22	22.00	23	17	24.0
			1	49	1	99	20.83	15.05	21.85	23	17	24.0
			25	0	50	0	19.57	19.40	22.50	21.5	20.5	24.0



Tune up Power (dBm)

PCC:Ant1		SCC:Ant2		CA_4A-5A									
Combination 20MHz+10MHz (100RB+50RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
20050	20450	QPSK	1	0	1	0	22.00	16.96	23.16	22.8	18	24.0	
			1	49	1	25	22.04	17.05	23.24	22.8	18	24.0	
			1	99	1	49	21.94	17.62	23.31	22.8	18	24.0	
			50	0	25	0	19.72	20.16	22.96	20.5	21.5	24.0	
			50	24	25	12	19.74	20.31	23.04	20.5	21.5	24.0	
			50	50	25	25	19.62	20.26	22.96	20.5	21.5	24.0	
			100	0	50	0	19.66	20.27	22.99	20.5	21.5	24.0	
			1	0	1	0	21.94	17.60	23.30	22.8	18	24.0	
			1	49	1	25	21.92	16.86	23.10	22.8	18	24.0	
			1	99	1	49	22.07	16.54	23.14	22.8	18	24.0	
20175	20525	QPSK	1	0	25	0	19.52	20.20	22.88	20.5	21.5	24.0	
			50	24	25	12	19.52	20.18	22.87	20.5	21.5	24.0	
			50	50	25	25	19.50	20.18	22.86	20.5	21.5	24.0	
			100	0	50	0	19.49	20.15	22.84	20.5	21.5	24.0	
			1	0	1	0	22.22	16.65	23.28	22.8	18	24.0	
			1	49	1	25	22.27	16.73	23.34	22.8	18	24.0	
			1	99	1	49	22.14	16.40	23.17	22.8	18	24.0	
			50	0	25	0	19.92	19.79	22.87	20.5	21.5	24.0	
			50	24	25	12	19.98	19.77	22.89	20.5	21.5	24.0	
			50	50	25	25	19.94	19.63	22.80	20.5	21.5	24.0	
20300	20600	QPSK	100	0	50	0	19.34	20.04	22.71	20.5	21.5	24.0	

Tune up Power (dBm)

PCC:Ant2		SCC:Ant1		CA_5A-4A									
Combination 10MHz+20MHz (50RB+100RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
20450	20050	QPSK	1	0	1	0	22.59	16.04	23.46	23	17	24.0	
			1	25	1	49	22.70	16.28	23.59	23	17	24.0	
			1	49	1	99	22.70	15.72	23.49	23	17	24.0	
			25	0	50	0	20.18	19.12	22.69	21.5	20.5	24.0	
			25	12	50	24	20.30	19.28	22.83	21.5	20.5	24.0	
			25	25	50	50	20.30	19.10	22.75	21.5	20.5	24.0	
			50	0	100	0	20.30	19.20	22.80	21.5	20.5	24.0	
			1	0	1	0	22.64	16.27	23.54	23	17	24.0	
			1	25	1	49	22.57	16.37	23.50	23	17	24.0	
			1	49	1	99	22.25	16.49	23.27	23	17	24.0	
20525	20175	QPSK	25	0	50	0	20.11	19.53	22.84	21.5	20.5	24.0	
			25	12	50	24	20.06	19.88	22.84	21.5	20.5	24.0	
			25	25	50	50	20.00	19.63	22.83	21.5	20.5	24.0	
			50	0	100	0	20.00	19.41	22.73	21.5	20.5	24.0	
			1	0	1	0	22.26	16.76	23.34	23	17	24.0	
			1	25	1	49	22.09	15.82	23.01	23	17	24.0	
			1	49	1	99	22.12	16.53	23.18	23	17	24.0	
			25	0	50	0	20.21	19.21	22.75	21.5	20.5	24.0	
			25	12	50	24	20.15	19.33	22.77	21.5	20.5	24.0	
			25	25	50	50	19.98	19.93	22.97	21.5	20.5	24.0	
20600	20300	QPSK	50	0	100	0	20.18	19.46	22.85	21.5	20.5	24.0	

Tune up Power (dBm)

PCC:Ant2		SCC:Ant8		CA_4A-5A									
Combination 20MHz+10MHz (100RB+50RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
20050	20450	QPSK	1	0	1	0	22.03	16.77	23.16	22.8	18	24.0	
			1	49	1	25	21.80	16.91	23.02	22.8	18	24.0	
			1	99	1	49	21.70	17.41	23.07	22.8	18	24.0	
			50	0	25	0	20.02	19.95	23.00	20.5	21.5	24.0	
			50	24	25	12	19.96	20.14	23.06	20.5	21.5	24.0	
			50	50	25	25	19.87	20.19	23.04	20.5	21.5	24.0	
			100	0	50	0	19.93	20.09	23.02	20.5	21.5	24.0	
			1	0	1	0	21.91	16.85	23.09	22.8	18	24.0	
			1	49	1	25	21.92	17.00	23.13	22.8	18	24.0	
			1	99	1	49	21.73	17.59	23.15	22.8	18	24.0	
20175	20525	QPSK	50	0	25	0	20.16	19.93	23.06	20.5	21.5	24.0	
			50	24	25	12	19.94	19.98	22.97	20.5	21.5	24.0	
			50	50	25	25	19.91	20.29	23.11	20.5	21.5	24.0	
			100	0	50	0	19.97	20.04	23.02	20.5	21.5	24.0	
			1	0	1	0	22.14	16.68	23.23	22.8	18	24.0	
			1	49	1	25	21.65	16.97	22.92	22.8	18	24.0	
			1	99	1	49	21.74	17.44	23.11	22.8	18	24.0	
			50	0	25	0	20.18	19.94	23.07	20.5	21.5	24.0	
			50	24	25	12	20.03	20.05	23.05	20.5	21.5	24.0	
			50	50	25	25	19.89	20.13	23.02	20.5	21.5	24.0	
20300	20600	QPSK	100	0	50	0	20.09	19.95	23.03	20.5	21.5	24.0	

Tune up Power (dBm)

PCC:Ant8		SCC:Ant2		CA_5A-4A									
Combination 10MHz+20MHz (50RB+100RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
20450	20050	QPSK	1	0	1	0	21.20	15.92	22.33	23	17	24.0	
			1	25	1	49	21.51	15.64	22.51	23	17	24.0	
			1	49	1	99	21.70	15.46	22.63	23	17	24.0	
			25	0	50	0	19.09	19.44	22.28	21	21	24.0	
			25	12	50	24	19.02	19.13	22.09	21	21	24.0	
			25	25	50	50	19.01	19.23	22.13	21	21	24.0	
			50	0	100	0	19.90	19.21	22.07	21	21	24.0	
			1	0	1	0	21.37	16.04	22.49	23	17	24.0	
			1	25	1	49	21.42	15.80	22.47	23	17	24.0	
			1	49	1	99	21.45	15.40	22.41	23	17	24.0	
20525	20175	QPSK	25	0	50	0	19.04	19.33	22.20	21	21	24.0	
			25	12	50	24	19.14	19.25	22.21	21	21	24.0	
			25	25	50	50	19.16	18.92	22.05	21	21	24.0	
			50	0	100	0	19.07	19.02	22.06	21	21	24.0	
			1	0	1	0	21.05	16.09	22.25	23	17	24.0	
			1	25	1	49	21.41	15.45	22.39	23	17	24.0	
			1	49	1	99	21.60	15.60	22.57	23	17	24.0	
			25	0	50	0	19.12	19.25	22.20	21	21	24.0	
			25	12	50	24	19.18	19.28	22.24	21	21	24.0	
			25	25	50	50	19.21	19.05	22.14	21	21	24.0	
20600	20300	QPSK	50	0	100	0	19.04	19.03	22.05	21	21	24.0	



Tune up Power (dba)

PCC:Ant1		SCC:Ant2		CA_4A-12A									
Combination 20MHz+10MHz (100RB+50RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
20050	23060	QPSK	1	0	1	0	22.24	15.18	23.02	23	17	24.0	
			1	49	1	25	22.24	15.10	23.01	23	17	24.0	
			1	99	1	49	21.96	15.07	22.77	23	17	24.0	
			50	0	25	0	20.12	18.69	22.47	21.5	20.5	24.0	
			50	24	25	12	20.00	18.81	22.46	21.5	20.5	24.0	
			50	50	25	25	19.77	18.83	22.34	21.5	20.5	24.0	
20175	23095	QPSK	100	0	50	0	19.82	18.70	22.31	21.5	20.5	24.0	
			1	0	1	0	22.22	15.12	22.99	23	17	24.0	
			1	49	1	25	21.99	15.45	22.86	23	17	24.0	
			1	99	1	49	22.23	15.17	23.01	23	17	24.0	
			50	0	25	0	19.63	18.71	22.20	21.5	20.5	24.0	
			50	24	25	12	19.59	18.83	22.24	21.5	20.5	24.0	
20300	23130	QPSK	50	50	25	25	19.56	18.88	22.24	21.5	20.5	24.0	
			100	0	50	0	19.54	18.78	22.19	21.5	20.5	24.0	
			1	0	1	0	22.12	15.38	22.95	23	17	24.0	
			1	49	1	25	22.17	15.40	23.00	23	17	24.0	
			1	99	1	49	22.07	15.63	22.96	23	17	24.0	
			50	0	25	0	19.77	18.88	22.36	21.5	20.5	24.0	

Tune up Power (dba)

PCC:Ant2		SCC:Ant1		CA_12A-4A									
Combination 10MHz+20MHz (50RB+100RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
23060	20050	QPSK	1	0	1	0	21.50	16.76	22.76	23	17	24.0	
			1	25	1	49	21.97	16.01	22.95	23	17	24.0	
			1	49	1	99	22.30	16.39	23.29	23	17	24.0	
			25	0	50	0	19.56	19.76	22.67	21	21	24.0	
			25	12	50	24	19.72	19.60	22.67	21	21	24.0	
			25	25	50	50	19.79	19.51	22.66	21	21	24.0	
23095	20175	QPSK	50	0	100	0	19.68	19.47	22.59	21	21	24.0	
			1	0	1	0	21.64	16.81	22.87	23	17	24.0	
			1	25	1	49	21.93	16.71	23.07	23	17	24.0	
			1	49	1	99	22.01	17.07	23.22	23	17	24.0	
			25	0	50	0	19.50	19.51	22.52	21	21	24.0	
			25	12	50	24	19.53	19.55	22.55	21	21	24.0	
23130	20300	QPSK	25	25	50	50	19.58	19.64	22.62	21	21	24.0	
			50	0	100	0	19.53	19.66	22.61	21	21	24.0	
			1	0	1	0	21.95	16.34	23.00	23	17	24.0	
			1	25	1	49	21.98	16.52	23.07	23	17	24.0	
			1	49	1	99	21.87	16.53	22.98	23	17	24.0	
			25	0	50	0	19.82	19.56	22.70	21	21	24.0	

Tune up Power (dba)

PCC:Ant2		SCC:Ant8		CA_4A-12A									
Combination 20MHz+10MHz (100RB+50RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
20050	23060	QPSK	1	0	1	0	22.12	16.27	23.12	23	17	24.0	
			1	49	1	25	22.20	16.13	23.16	23	17	24.0	
			1	99	1	49	21.80	16.50	22.92	23	17	24.0	
			50	0	25	0	19.84	19.49	22.68	21	21	24.0	
			50	24	25	12	19.70	19.56	22.64	21	21	24.0	
			50	50	25	25	19.59	19.50	22.56	21	21	24.0	
20175	23095	QPSK	100	0	50	0	19.70	18.37	23.10	21	21	24.0	
			1	0	1	0	22.11	16.32	23.13	23	17	24.0	
			1	49	1	25	21.68	15.44	22.61	23	17	24.0	
			1	99	1	49	21.36	15.26	22.31	23	17	24.0	
			50	0	25	0	19.81	19.18	22.52	21	21	24.0	
			50	24	25	12	19.55	19.41	22.49	21	21	24.0	
20300	23130	QPSK	50	50	25	25	19.40	19.17	22.30	21	21	24.0	
			100	0	50	0	20.08	19.27	22.70	21	21	24.0	
			1	0	1	0	22.13	16.15	23.11	23	17	24.0	
			1	49	1	25	21.42	15.52	22.41	23	17	24.0	
			1	99	1	49	21.34	15.52	22.35	23	17	24.0	
			50	0	25	0	19.75	19.53	22.65	21	21	24.0	

Tune up Power (dba)

PCC:Ant8		SCC:Ant2		CA_12A-4A									
Combination 10MHz+20MHz (50RB+100RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
23060	20050	QPSK	1	0	1	0	21.60	16.38	22.74	23	17	24.0	
			1	25	1	49	21.11	15.81	22.23	23	17	24.0	
			1	49	1	99	21.16	15.80	22.27	23	17	24.0	
			25	0	50	0	19.77	18.90	22.37	21.5	20.5	24.0	
			25	12	50	24	19.80	18.84	22.36	21.5	20.5	24.0	
			25	25	50	50	19.55	18.64	22.13	21.5	20.5	24.0	
23095	20175	QPSK	50	0	100	0	19.62	18.76	22.22	21.5	20.5	24.0	
			1	0	1	0	21.24	16.32	22.45	23	17	24.0	
			1	25	1	49	21.23	15.70	22.30	23	17	24.0	
			1	49	1	99	21.12	15.66	22.21	23	17	24.0	
			25	0	50	0	19.69	18.89	22.32	21.5	20.5	24.0	
			25	12	50	24	19.90	18.73	22.36	21.5	20.5	24.0	
23130	20300	QPSK	25	25	50	50	19.52	18.67	22.13	21.5	20.5	24.0	
			50	0	100	0	19.63	18.75	22.22	21.5	20.5	24.0	
			1	0	1	0	21.41	16.51	22.63	23	17	24.0	
			1	25	1	49	21.14	15.86	22.27	23	17	24.0	
			1	49	1	99	21.13	15.84	22.26	23	17	24.0	
			25	0	50	0	19.65	18.82	22.27	21.5	20.5	24.0	



PCC:Ant1		SCC:Ant2		CA_4A-13A									
Combination 20MHz+10MHz (100RB+50RB)										Tune up Power (dBm)			
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
20050	23230	QPSK	1	0	1	0	22.39	16.70	23.43	22.8	18	24.0	
			1	49	1	25	22.40	17.20	23.55	22.8	18	24.0	
			1	99	1	49	22.10	17.70	23.45	22.8	18	24.0	
			50	0	25	0	20.15	18.05	22.24	21.5	20.5	24.0	
			50	24	25	12	20.10	18.42	22.35	21.5	20.5	24.0	
			50	50	25	25	19.90	18.80	22.40	21.5	20.5	24.0	
20175	23230	QPSK	1	0	1	0	20.80	18.41	22.78	21.5	20.5	24.0	
			1	0	1	0	22.04	16.40	23.09	22.8	18	24.0	
			1	49	1	25	22.37	16.97	23.47	22.8	18	24.0	
			1	99	1	49	22.07	17.43	23.35	22.8	18	24.0	
			50	0	25	0	19.37	19.09	22.24	21.5	20.5	24.0	
			50	24	25	12	20.14	18.62	22.46	21.5	20.5	24.0	
20300	23230	QPSK	50	50	25	25	19.95	18.82	22.43	21.5	20.5	24.0	
			100	0	50	0	19.41	19.54	22.49	21.5	20.5	24.0	
			1	0	1	0	22.06	16.31	23.08	22.8	18	24.0	
			1	49	1	25	22.46	16.39	23.42	22.8	18	24.0	
			1	99	1	49	22.05	17.93	23.47	22.8	18	24.0	
			50	0	25	0	20.70	19.07	22.97	22	19.8	24.0	

PCC:Ant2		SCC:Ant1		CA_13A-4A									
Combination 10MHz+20MHz (50RB+100RB)										Tune up Power (dBm)			
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
23230	20050	QPSK	1	0	1	0	21.06	18.71	23.05	22	19.8	24.0	
			1	25	1	49	21.47	19.08	23.45	22	19.8	24.0	
			1	49	1	99	21.70	18.80	23.50	22	19.8	24.0	
			25	0	50	0	20.00	20.50	23.27	21	21	24.0	
			25	12	50	24	20.10	20.33	23.23	21	21	24.0	
			25	25	50	50	20.30	20.33	23.33	21	21	24.0	
23230	20175	QPSK	50	0	100	0	20.29	20.37	23.34	21	21	24.0	
			1	0	1	0	21.01	18.94	23.11	22	19.8	24.0	
			1	25	1	49	21.31	18.94	23.30	22	19.8	24.0	
			1	49	1	99	21.48	18.83	23.36	22	19.8	24.0	
			25	0	50	0	20.00	20.01	23.02	21	21	24.0	
			25	12	50	24	19.99	20.15	23.08	21	21	24.0	
23230	20300	QPSK	25	25	50	50	20.40	20.21	23.32	21	21	24.0	
			50	0	100	0	20.30	19.98	23.15	21	21	24.0	
			1	0	1	0	21.01	19.06	23.15	22	19.8	24.0	
			1	25	1	49	21.53	19.01	23.46	22	19.8	24.0	
			1	49	1	99	21.57	18.76	23.40	22	19.8	24.0	
			25	0	50	0	20.10	20.53	23.33	21	21	24.0	

PCC:Ant2		SCC:Ant8		CA_4A-13A									
Combination 20MHz+10MHz (100RB+50RB)										Tune up Power (dBm)			
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
20050	23230	QPSK	1	0	1	0	21.60	18.46	23.32	22	19.8	24.0	
			1	49	1	25	21.11	18.64	23.06	22	19.8	24.0	
			1	99	1	49	21.16	18.40	23.01	22	19.8	24.0	
			50	0	25	0	19.77	19.58	22.69	21	21	24.0	
			50	24	25	12	19.80	19.75	22.79	21	21	24.0	
			50	50	25	25	19.55	19.80	22.69	21	21	24.0	
20175	23230	QPSK	100	0	50	0	19.62	19.80	22.72	21	21	24.0	
			1	0	1	0	21.24	18.35	23.04	22	19.8	24.0	
			1	49	1	25	21.23	18.68	23.15	22	19.8	24.0	
			1	99	1	49	21.12	18.65	23.07	22	19.8	24.0	
			50	0	25	0	19.69	19.46	22.59	21	21	24.0	
			50	24	25	12	19.90	19.65	22.79	21	21	24.0	
20300	23230	QPSK	50	50	25	25	19.52	19.85	22.70	21	21	24.0	
			100	0	50	0	19.63	19.61	22.63	21	21	24.0	
			1	0	1	0	21.41	18.51	23.21	22	19.8	24.0	
			1	49	1	25	21.14	18.50	23.03	22	19.8	24.0	
			1	99	1	49	21.13	18.41	22.99	22	19.8	24.0	
			50	0	25	0	19.65	19.43	22.55	21	21	24.0	

PCC:Ant8		SCC:Ant2		CA_13A-4A									
Combination 10MHz+20MHz (50RB+100RB)										Tune up Power (dBm)			
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
23230	20050	QPSK	1	0	1	0	21.64	16.13	22.72	22.8	18	24.0	
			1	25	1	49	22.23	16.68	23.30	22.8	18	24.0	
			1	49	1	99	22.35	16.10	23.27	22.8	18	24.0	
			25	0	50	0	20.80	19.03	23.01	21.5	20.5	24.0	
			25	12	50	24	21.00	18.83	23.06	21.5	20.5	24.0	
			25	25	50	50	21.20	18.50	23.07	21.5	20.5	24.0	
23230	20175	QPSK	50	0	100	0	21.00	18.80	23.05	21.5	20.5	24.0	
			1	0	1	0	21.75	16.98	23.00	22.8	18	24.0	
			1	25	1	49	22.23	17.05	23.38	22.8	18	24.0	
			1	49	1	99	22.24	17.19	23.42	22.8	18	24.0	
			25	0	50	0	20.70	18.15	22.62	21.5	20.5	24.0	
			25	12	50	24	20.76	18.85	22.92	21.5	20.5	24.0	
23230	20300	QPSK	25	25	50	50	20.94	18.74	22.99	21.5	20.5	24.0	
			50	0	100	0	21.10	18.00	22.83	21.5	20.5	24.0	
			1	0	1	0	21.61	17.13	22.93	22.8	18	24.0	
			1	25	1	49	22.29	17.16	23.45	22.8	18	24.0	
			1	49	1	99	22.32	16.74	23.38	22.8	18	24.0	
			25	0	50	0	20.82	18.97	23.00	21.5	20.5	24.0	



PCC:Ant2		SCC:Ant1		Tune up Power (dBm)										
CA_5A-30A														
Combination 10MHz+10MHz (50RB+50RB)														
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset								
20450	27710	QPSK	1	0	1	0	22.08	16.60	23.16	23	17	24.0		
			1	25	1	25	22.22	16.05	23.16	23	17	24.0		
			1	49	1	49	22.49	15.54	23.29	23	17	24.0		
			25	0	25	0	19.87	19.67	22.78	21	21	24.0		
			25	12	25	12	19.89	19.51	22.71	21	21	24.0		
20525	27710	QPSK	1	0	1	0	22.09	16.72	23.20	23	17	24.0		
			1	25	1	25	22.28	16.35	23.27	23	17	24.0		
			1	49	1	49	22.19	16.68	23.27	23	17	24.0		
			25	0	25	0	20.00	19.82	22.92	21	21	24.0		
			25	12	25	12	19.97	19.83	22.91	21	21	24.0		
20600	27710	QPSK	1	0	1	0	22.00	16.57	23.25	23	17	24.0		
			1	25	1	25	22.20	16.46	23.23	23	17	24.0		
			1	49	1	49	22.03	16.51	23.10	23	17	24.0		
			25	0	25	0	20.03	19.69	22.87	21	21	24.0		
			25	12	25	12	19.75	19.72	22.75	21	21	24.0		

PCC:Ant1		SCC:Ant2		Tune up Power (dBm)										
CA_30A-5A														
Combination 10MHz+10MHz (50RB+50RB)														
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset								
27710	20450	QPSK	1	0	1	0	22.42	16.46	23.40	23	17	24.0		
			1	25	1	25	22.29	16.42	23.29	23	17	24.0		
			1	49	1	49	22.25	16.56	23.29	23	17	24.0		
			25	0	25	0	19.90	20.03	22.98	21	21	24.0		
			25	12	25	12	20.04	20.26	23.16	21	21	24.0		
27710	20525	QPSK	1	0	1	0	22.36	16.44	23.35	23	17	24.0		
			1	25	1	25	22.24	16.49	23.26	23	17	24.0		
			1	49	1	49	22.18	16.45	23.21	23	17	24.0		
			25	0	25	0	20.26	20.14	23.21	21	21	24.0		
			25	12	25	12	19.95	19.81	22.89	21	21	24.0		
27710	20600	QPSK	1	0	1	0	22.35	15.98	23.25	23	17	24.0		
			1	25	1	25	22.21	16.38	23.22	23	17	24.0		
			1	49	1	49	22.20	15.75	23.09	23	17	24.0		
			25	0	25	0	19.63	19.42	22.54	21	21	24.0		
			25	12	25	12	20.35	20.05	23.21	21	21	24.0		

PCC:Ant8		SCC:Ant2		Tune up Power (dBm)										
CA_5A-30A														
Combination 10MHz+10MHz (50RB+50RB)														
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset								
20450	27710	QPSK	1	0	1	0	21.11	15.91	22.26	23	17	24.0		
			1	25	1	25	21.29	16.28	22.48	23	17	24.0		
			1	49	1	49	21.75	15.90	22.75	23	17	24.0		
			25	0	25	0	19.11	19.09	22.11	21	21	24.0		
			25	12	25	12	19.23	19.16	22.21	21	21	24.0		
20525	27710	QPSK	1	0	1	0	21.24	15.88	22.37	23	17	24.0		
			1	25	1	25	21.16	16.45	22.42	23	17	24.0		
			1	49	1	49	21.90	16.05	22.90	23	17	24.0		
			25	0	25	0	19.25	19.08	22.18	21	21	24.0		
			25	12	25	12	19.10	19.15	22.14	21	21	24.0		
20600	27710	QPSK	1	0	1	0	21.08	15.87	22.22	23	17	24.0		
			1	25	1	25	21.12	16.44	22.39	23	17	24.0		
			1	49	1	49	21.62	15.80	22.63	23	17	24.0		
			25	0	25	0	19.04	19.06	22.06	21	21	24.0		
			25	12	25	12	19.39	19.03	22.22	21	21	24.0		

PCC:Ant2		SCC:Ant8		Tune up Power (dBm)										
CA_30A-5A														
Combination 10MHz+10MHz (50RB+50RB)														
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset								
27710	20450	QPSK	1	0	1	0	22.25	16.34	23.24	23	17	24.0		
			1	49	1	25	22.22	16.16	23.18	23	17	24.0		
			1	99	1	49	22.33	16.40	23.32	23	17	24.0		
			50	0	25	0	19.72	20.01	22.88	21	21	24.0		
			50	24	25	12	19.85	19.47	22.67	21	21	24.0		
27710	20525	QPSK	1	0	1	0	22.27	16.18	23.23	23	17	24.0		
			1	49	1	25	22.07	16.23	23.08	23	17	24.0		
			1	99	1	49	22.19	16.45	23.22	23	17	24.0		
			50	0	25	0	19.76	19.78	22.78	21	21	24.0		
			50	24	25	12	19.76	19.78	22.78	21	21	24.0		
27710	20600	QPSK	1	0	1	0	22.19	16.44	23.21	23	17	24.0		
			1	49	1	25	22.41	16.06	23.32	23	17	24.0		
			1	99	1	49	22.20	16.44	23.22	23	17	24.0		
			50	0	25	0	19.88	19.43	22.67	21	21	24.0		
			50	24	25	12	19.93	19.78	22.87	21	21	24.0		



Tune up Power (dBm)

PCC:Ant2		SCC:Ant1		CA_5A-66A									
Combination 10MHz+20MHz (50RB+100RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
20450	132072	QPSK	1	0	1	0	22.32	16.41	23.31	22.8	18	24.0	
			1	25	1	49	22.27	16.76	23.35	22.8	18	24.0	
			1	49	1	99	22.43	16.01	23.32	22.8	18	24.0	
			25	0	50	0	20.27	18.71	22.57	21.8	20	24.0	
			25	12	50	24	20.29	18.84	22.64	21.8	20	24.0	
20525	132322	QPSK	25	25	50	50	20.33	18.75	22.62	21.8	20	24.0	
			50	0	100	0	20.46	18.75	22.70	21.8	20	24.0	
			1	0	1	0	22.38	17.24	23.54	22.8	18	24.0	
			1	25	1	49	22.09	17.48	23.38	22.8	18	24.0	
			1	49	1	99	21.90	17.58	23.27	22.8	18	24.0	
20600	132572	QPSK	25	0	50	0	20.36	18.62	22.59	21.8	20	24.0	
			25	12	50	24	20.24	18.54	22.48	21.8	20	24.0	
			25	25	50	50	20.08	18.43	22.34	21.8	20	24.0	
			50	0	100	0	20.11	18.48	22.38	21.8	20	24.0	
			1	0	1	0	21.88	16.59	23.01	22.8	18	24.0	

Tune up Power (dBm)

PCC:Ant1		SCC:Ant2		CA_66A-5A									
Combination 20MHz+10MHz (100RB+50RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
132072	20450	QPSK	1	0	1	0	22.53	16.85	23.57	23	17	24.0	
			1	49	1	25	22.58	16.35	23.51	23	17	24.0	
			1	99	1	49	22.27	16.19	23.23	23	17	24.0	
			50	0	25	0	19.83	19.85	22.90	21	21	24.0	
			50	24	25	12	19.82	20.02	22.93	21	21	24.0	
132322	20525	QPSK	50	50	25	25	19.74	20.01	22.89	21	21	24.0	
			100	0	50	0	19.72	19.90	22.82	21	21	24.0	
			1	0	1	0	22.49	15.83	23.34	23	17	24.0	
			1	49	1	25	22.30	16.61	23.34	23	17	24.0	
			1	99	1	49	22.25	15.86	23.15	23	17	24.0	
132572	20600	QPSK	50	0	25	0	20.03	19.82	22.94	21	21	24.0	
			50	24	25	12	20.04	19.82	22.94	21	21	24.0	
			50	50	25	25	19.92	19.74	22.84	21	21	24.0	
			100	0	50	0	19.89	19.73	22.82	21	21	24.0	
			1	0	1	0	22.35	15.85	23.23	23	17	24.0	

Tune up Power (dBm)

PCC:Ant8		SCC:Ant2		CA_5A-66A									
Combination 10MHz+20MHz (50RB+100RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
20450	132072	QPSK	1	0	1	0	21.29	16.34	22.50	22.8	18	24.0	
			1	25	1	49	21.31	16.61	22.58	22.8	18	24.0	
			1	49	1	99	21.81	16.03	22.83	22.8	18	24.0	
			25	0	50	0	19.10	19.12	22.12	21	21	24.0	
			25	12	50	24	19.31	19.11	22.22	21	21	24.0	
20525	132322	QPSK	25	25	50	50	19.35	19.11	22.24	21	21	24.0	
			50	0	100	0	19.19	19.06	22.14	21	21	24.0	
			1	0	1	0	21.34	16.40	22.55	22.8	18	24.0	
			1	25	1	49	21.29	16.80	22.61	22.8	18	24.0	
			1	49	1	99	21.37	15.93	22.46	22.8	18	24.0	
20600	132572	QPSK	25	12	50	24	19.12	19.19	22.17	21	21	24.0	
			25	25	50	50	19.06	19.13	22.11	21	21	24.0	
			50	0	100	0	19.12	19.12	22.13	21	21	24.0	
			1	0	1	0	21.46	16.15	22.58	22.8	18	24.0	
			1	25	1	49	21.25	16.77	22.57	22.8	18	24.0	

Tune up Power (dBm)

PCC:Ant2		SCC:Ant8		CA_66A-5A									
Combination 20MHz+10MHz (100RB+50RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
132072	20450	QPSK	1	0	1	0	21.80	17.52	23.18	22.8	18	24.0	
			1	49	1	25	21.51	17.83	23.06	22.8	18	24.0	
			1	99	1	49	21.36	17.63	22.89	22.8	18	24.0	
			50	0	25	0	19.90	20.15	23.04	21	21	24.0	
			50	24	25	12	19.85	20.25	23.06	21	21	24.0	
132322	20525	QPSK	50	50	25	25	19.73	20.22	22.99	21	21	24.0	
			100	0	50	0	19.86	20.21	23.05	21	21	24.0	
			1	0	1	0	21.68	17.60	23.11	22.8	18	24.0	
			1	49	1	25	21.39	17.74	22.95	22.8	18	24.0	
			1	99	1	49	21.36	17.48	22.85	22.8	18	24.0	
132572	20600	QPSK	50	0	25	0	19.80	20.03	22.93	21	21	24.0	
			50	24	25	12	19.77	20.38	23.10	21	21	24.0	
			50	50	25	25	19.92	20.33	23.14	21	21	24.0	
			100	0	50	0	19.82	20.23	23.04	21	21	24.0	
			1	0	1	0	21.67	17.64	23.12	22.8	18	24.0	



PCC:Ant2		SCC:Ant1		Tune up Power (dBm)									
CA_12A-30A													
Combination 10MHz+10MHz (50RB+50RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
23080	27710	QPSK	1	0	1	0	20.64	16.53	22.06	22.8	18	24.0	
			1	25	1	25	20.82	16.72	22.25	22.8	18	24.0	
			1	49	1	49	21.06	16.13	22.27	22.8	18	24.0	
			25	0	25	0	18.59	19.73	22.21	20.5	21.5	24.0	
			25	12	25	12	18.79	19.81	22.34	20.5	21.5	24.0	
23095	27710	QPSK	25	25	25	25	18.90	19.66	22.31	20.5	21.5	24.0	
			50	0	50	0	18.80	19.71	22.29	20.5	21.5	24.0	
			1	0	1	0	20.54	16.74	22.05	22.8	18	24.0	
			1	25	1	25	20.66	16.73	22.14	22.8	18	24.0	
			1	49	1	49	21.07	16.43	22.35	22.8	18	24.0	
23130	27710	QPSK	25	0	25	0	18.62	19.93	22.33	20.5	21.5	24.0	
			25	12	25	12	18.73	19.62	22.21	20.5	21.5	24.0	
			25	25	25	25	18.72	19.82	22.32	20.5	21.5	24.0	
			50	0	50	0	18.50	19.83	22.23	20.5	21.5	24.0	
			1	0	1	0	20.97	16.41	22.27	22.8	18	24.0	

PCC:Ant2		SCC:Ant8		Tune up Power (dBm)									
CA_30A-12A													
Combination 10MHz+10MHz (50RB+50RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
27710	23060	QPSK	1	0	1	0	22.03	15.03	22.82	23	17	24.0	
			1	25	1	25	21.96	15.02	22.76	23	17	24.0	
			1	49	1	49	21.60	15.70	22.59	23	17	24.0	
			25	0	25	0	19.65	18.55	22.15	21.5	20.5	24.0	
			25	12	25	12	19.70	18.77	22.27	21.5	20.5	24.0	
27710	23095	QPSK	25	25	25	25	19.55	18.83	22.22	21.5	20.5	24.0	
			50	0	50	0	19.61	18.53	22.11	21.5	20.5	24.0	
			1	0	1	0	22.00	15.06	22.80	23	17	24.0	
			1	25	1	25	22.01	15.09	22.81	23	17	24.0	
			1	49	1	49	22.16	15.08	22.94	23	17	24.0	
27710	23130	QPSK	25	0	25	0	19.63	18.38	22.06	21.5	20.5	24.0	
			25	12	25	12	19.54	18.29	21.97	21.5	20.5	24.0	
			25	25	25	25	19.84	18.46	22.21	21.5	20.5	24.0	
			50	0	50	0	20.27	18.18	22.36	21.5	20.5	24.0	
			1	0	1	0	22.10	15.11	22.89	23	17	24.0	

PCC:Ant8		SCC:Ant2		Tune up Power (dBm)									
CA_12A-30A													
Combination 10MHz+10MHz (50RB+50RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
23060	27710	QPSK	1	0	1	0	22.14	15.35	22.97	23	17	24.0	
			1	25	1	25	21.86	15.44	22.75	23	17	24.0	
			1	49	1	49	21.33	15.52	22.34	23	17	24.0	
			25	0	25	0	19.53	18.73	22.16	21.5	20.5	24.0	
			25	12	25	12	18.54	18.81	22.20	21.5	20.5	24.0	
23095	27710	QPSK	25	25	25	25	18.86	18.71	21.80	21.5	20.5	24.0	
			50	0	50	0	19.56	18.53	22.09	21.5	20.5	24.0	
			1	0	1	0	22.09	15.47	22.95	23	17	24.0	
			1	25	1	25	21.70	15.60	22.65	23	17	24.0	
			1	49	1	49	21.16	15.49	22.20	23	17	24.0	
23130	27710	QPSK	25	0	25	0	19.55	18.54	22.08	21.5	20.5	24.0	
			25	12	25	12	19.53	18.69	22.14	21.5	20.5	24.0	
			25	25	25	25	19.58	18.61	22.13	21.5	20.5	24.0	
			50	0	50	0	19.56	18.55	22.09	21.5	20.5	24.0	
			1	0	1	0	21.95	15.17	22.78	23	17	24.0	

PCC:Ant1		SCC:Ant2		Tune up Power (dBm)									
CA_30A-12A													
Combination 10MHz+10MHz (50RB+50RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
27710	23060	QPSK	1	0	1	0	21.89	15.41	22.77	23	17	24.0	
			1	25	1	25	21.96	15.47	22.84	23	17	24.0	
			1	49	1	49	21.89	15.44	22.78	23	17	24.0	
			25	0	25	0	20.08	19.00	22.58	21.5	20.5	24.0	
			25	12	25	12	20.01	19.18	22.63	21.5	20.5	24.0	
27710	23095	QPSK	25	25	25	25	19.86	19.09	22.51	21.5	20.5	24.0	
			50	0	50	0	19.83	18.93	22.41	21.5	20.5	24.0	
			1	0	1	0	21.89	15.07	22.71	23	17	24.0	
			1	25	1	25	21.84	15.10	22.67	23	17	24.0	
			1	49	1	49	22.03	15.11	22.83	23	17	24.0	
27710	23130	QPSK	25	0	25	0	19.41	19.03	22.23	21.5	20.5	24.0	
			25	12	25	12	19.50	19.18	22.35	21.5	20.5	24.0	
			25	25	25	25	19.41	19.02	22.23	21.5	20.5	24.0	
			50	0	50	0	19.44	19.06	22.26	21.5	20.5	24.0	
			1	0	1	0	21.83	15.32	22.71	23	17	24.0	



Tune up Power (dBm)

PCC:Ant2		SCC:Ant1		CA_12A-66A Combination 10MHz+20MHz (50RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
23060	132072	QPSK	1	0	1	0	21.23	16.93	22.60	22.8	18	24.0	
			1	25	1	49	21.14	17.78	22.79	22.8	18	24.0	
			1	49	1	99	21.44	17.33	22.86	22.8	18	24.0	
			25	0	50	0	19.33	19.60	22.48	21	21	24.0	
			25	12	50	24	19.48	19.87	22.69	21	21	24.0	
			25	25	50	50	19.50	19.70	22.61	21	21	24.0	
23095	132322	QPSK	50	0	100	0	19.49	19.55	22.53	21	21	24.0	
			1	0	1	0	21.17	17.67	22.77	22.8	18	24.0	
			1	25	1	49	21.51	17.07	22.84	22.8	18	24.0	
			1	49	1	99	21.55	16.92	22.84	22.8	18	24.0	
			25	0	50	0	19.57	19.27	22.43	21	21	24.0	
			25	12	50	24	19.60	19.16	22.40	21	21	24.0	
23130	132572	QPSK	25	25	50	50	19.73	19.04	22.41	21	21	24.0	
			50	0	100	0	19.53	19.07	22.32	21	21	24.0	
			1	0	1	0	21.54	16.73	22.78	22.8	18	24.0	
			1	25	1	49	21.43	16.75	22.70	22.8	18	24.0	
			1	49	1	99	21.49	16.69	22.73	22.8	18	24.0	
			25	0	50	0	19.67	19.20	22.45	21	21	24.0	

Tune up Power (dBm)

PCC:Ant2		SCC:Ant8		CA_66A-12A Combination 20MHz+10MHz (100RB+50RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
132072	23060	QPSK	1	0	1	0	22.00	15.88	22.95	23	17	24.0	
			1	49	1	25	22.00	16.00	22.97	23	17	24.0	
			1	99	1	49	21.91	15.93	22.89	23	17	24.0	
			50	0	25	0	19.77	18.68	22.27	21.5	20.5	24.0	
			50	24	25	12	19.95	18.90	22.47	21.5	20.5	24.0	
			50	50	25	25	19.84	18.99	22.45	21.5	20.5	24.0	
132322	23095	QPSK	100	0	50	0	19.89	18.78	22.38	21.5	20.5	24.0	
			1	0	1	0	22.24	15.94	23.15	23	17	24.0	
			1	49	1	25	22.41	16.16	23.33	23	17	24.0	
			1	99	1	49	22.24	16.29	23.22	23	17	24.0	
			50	0	25	0	19.21	20.49	22.91	21.5	20.5	24.0	
			50	24	25	12	20.41	18.91	22.73	21.5	20.5	24.0	
132572	23130	QPSK	50	50	25	25	20.14	18.75	22.51	21.5	20.5	24.0	
			100	0	50	0	20.02	18.83	22.48	21.5	20.5	24.0	
			1	0	1	0	22.32	15.89	23.21	23	17	24.0	
			1	49	1	25	22.44	15.29	23.21	23	17	24.0	
			1	99	1	49	22.43	15.07	23.16	23	17	24.0	
			50	0	25	0	19.98	18.43	22.28	21.5	20.5	24.0	

Tune up Power (dBm)

PCC:Ant8		SCC:Ant2		CA_12A-66A Combination 10MHz+20MHz (50RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
23060	132072	QPSK	1	0	1	0	22.10	15.74	23.00	23	17	24.0	
			1	25	1	49	21.59	15.14	22.48	23	17	24.0	
			1	49	1	99	21.12	15.23	22.12	23	17	24.0	
			25	0	50	0	19.57	19.05	22.33	21	21	24.0	
			25	12	50	24	19.54	19.01	22.29	21	21	24.0	
			25	25	50	50	19.22	19.03	22.14	21	21	24.0	
23095	132322	QPSK	50	0	100	0	19.38	19.00	22.20	21	21	24.0	
			1	0	1	0	22.08	15.56	22.95	23	17	24.0	
			1	25	1	49	21.58	15.16	22.47	23	17	24.0	
			1	49	1	99	21.13	15.11	22.10	23	17	24.0	
			25	0	50	0	19.61	19.04	22.34	21	21	24.0	
			25	12	50	24	19.41	19.20	22.32	21	21	24.0	
23130	132572	QPSK	25	25	50	50	19.03	19.12	22.09	21	21	24.0	
			50	0	100	0	19.27	19.19	22.24	21	21	24.0	
			1	0	1	0	21.91	15.76	22.85	23	17	24.0	
			1	25	1	49	21.63	15.15	22.51	23	17	24.0	
			1	49	1	99	21.07	15.12	22.05	23	17	24.0	
			25	0	50	0	19.71	19.03	22.39	21	21	24.0	

Tune up Power (dBm)

PCC:Ant1		SCC:Ant2		CA_66A-12A Combination 20MHz+10MHz (100RB+50RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
132072	23060	QPSK	1	0	1	0	21.81	15.13	22.65	23	17	24.0	
			1	49	1	25	22.13	15.05	22.91	23	17	24.0	
			1	99	1	49	21.89	15.23	22.74	23	17	24.0	
			50	0	25	0	19.77	18.88	22.36	21.5	20.5	24.0	
			50	24	25	12	20.02	19.23	22.65	21.5	20.5	24.0	
			50	50	25	25	19.83	19.08	22.48	21.5	20.5	24.0	
132322	23095	QPSK	100	0	50	0	19.85	19.06	22.48	21.5	20.5	24.0	
			1	0	1	0	22.08	15.03	22.86	23	17	24.0	
			1	49	1	25	22.08	15.10	22.87	23	17	24.0	
			1	99	1	49	22.00	15.14	22.81	23	17	24.0	
			50	0	25	0	20.17	19.09	22.67	21.5	20.5	24.0	
			50	24	25	12	20.23	19.21	22.76	21.5	20.5	24.0	
132572	23130	QPSK	50	50	25	25	20.01	19.32	22.69	21.5	20.5	24.0	
			100	0	50	0	20.04	19.16	22.63	21.5	20.5	24.0	
			1	0	1	0	21.93	15.05	22.74	23	17	24.0	
			1	49	1	25	22.09	15.03	22.87	23	17	24.0	
			1	99	1	49	21.88	15.53	22.79	23	17	24.0	
			50	0	25	0	20.25	19.30	22.81	21.5	20.5	24.0	



Tune up Power (dBm)

PCC:Ant2		SCC:Ant1		CA_13A-66A									
Combination 10MHz+20MHz (50RB+100RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
23230	132072	QPSK	1	0	1	0	21.00	18.67	23.00	22	19.8	24.0	
			1	25	1	49	21.28	18.63	23.16	22	19.8	24.0	
			1	49	1	99	21.36	18.85	23.29	22	19.8	24.0	
			25	0	50	0	19.55	20.58	23.11	20.5	21.5	24.0	
			25	12	50	24	19.71	20.67	23.23	20.5	21.5	24.0	
			25	25	50	50	19.94	20.62	23.30	20.5	21.5	24.0	
			50	0	100	0	19.75	20.64	23.23	20.5	21.5	24.0	
			1	0	1	0	20.79	18.96	22.98	22	19.8	24.0	
			1	25	1	49	21.15	19.20	23.29	22	19.8	24.0	
			1	49	1	99	21.23	19.21	23.35	22	19.8	24.0	
23230	132322	QPSK	25	0	50	0	19.86	20.32	22.97	20.5	21.5	24.0	
			25	12	50	24	19.69	20.71	23.24	20.5	21.5	24.0	
			25	25	50	50	19.91	20.65	23.31	20.5	21.5	24.0	
			50	0	100	0	19.77	20.65	23.24	20.5	21.5	24.0	
			1	0	1	0	20.90	18.94	23.04	22	19.8	24.0	
			1	25	1	49	21.38	18.80	23.29	22	19.8	24.0	
			1	49	1	99	21.15	19.01	23.22	22	19.8	24.0	
			25	0	50	0	19.58	20.66	23.16	20.5	21.5	24.0	
			25	12	50	24	19.67	20.61	23.18	20.5	21.5	24.0	
			25	25	50	50	19.94	20.40	23.19	20.5	21.5	24.0	
23230	132572	QPSK	50	0	100	0	19.68	20.64	23.20	20.5	21.5	24.0	

Tune up Power (dBm)

PCC:Ant2		SCC:Ant8		CA_66A-13A									
Combination 20MHz+10MHz (100RB+50RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
132072	23230	QPSK	1	0	1	0	22.24	15.27	23.04	23	17	24.0	
			1	49	1	25	22.67	15.03	23.36	23	17	24.0	
			1	99	1	49	22.20	15.10	22.97	23	17	24.0	
			50	0	25	0	20.07	19.11	22.63	21.5	20.5	24.0	
			50	24	25	12	20.17	19.46	22.84	21.5	20.5	24.0	
			50	50	25	25	20.13	19.61	22.89	21.5	20.5	24.0	
			100	0	50	0	20.08	19.43	22.78	21.5	20.5	24.0	
			1	0	1	0	22.22	15.00	22.97	23	17	24.0	
			1	49	1	25	22.22	15.08	22.99	23	17	24.0	
			1	99	1	49	22.26	15.03	23.01	23	17	24.0	
132322	23230	QPSK	50	0	25	0	20.32	17.80	22.25	21.5	20.5	24.0	
			50	24	25	12	20.35	18.15	22.40	21.5	20.5	24.0	
			50	50	25	25	20.25	18.51	22.48	21.5	20.5	24.0	
			100	0	50	0	20.29	18.21	22.38	21.5	20.5	24.0	
			1	0	1	0	22.22	15.02	22.98	23	17	24.0	
			1	49	1	25	22.22	15.05	22.98	23	17	24.0	
			1	99	1	49	22.22	15.07	22.99	23	17	24.0	
			50	0	25	0	20.33	17.83	22.27	21.5	20.5	24.0	
			50	24	25	12	20.40	18.14	22.43	21.5	20.5	24.0	
			50	50	25	25	20.11	18.55	22.41	21.5	20.5	24.0	
132572	23230	QPSK	100	0	50	0	20.30	18.35	22.44	21.5	20.5	24.0	

Tune up Power (dBm)

PCC:Ant8		SCC:Ant2		CA_13A-66A									
Combination 10MHz+20MHz (50RB+100RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
23230	132072	QPSK	1	0	1	0	20.88	17.01	22.37	22.8	18	24.0	
			1	25	1	49	21.79	17.30	23.11	22.8	18	24.0	
			1	49	1	99	22.12	17.26	23.35	22.8	18	24.0	
			25	0	50	0	19.67	20.14	22.92	21	21	24.0	
			25	12	50	24	19.99	20.23	23.12	21	21	24.0	
			25	25	50	50	20.30	20.16	23.24	21	21	24.0	
			50	0	100	0	20.00	20.12	23.07	21	21	24.0	
			1	0	1	0	20.86	17.05	22.37	22.8	18	24.0	
			1	25	1	49	21.94	17.58	23.30	22.8	18	24.0	
			1	49	1	99	22.03	17.44	23.33	22.8	18	24.0	
23230	132322	QPSK	25	0	50	0	20.05	20.23	23.15	21	21	24.0	
			25	12	50	24	20.38	20.16	23.28	21	21	24.0	
			25	25	50	50	20.42	20.01	23.23	21	21	24.0	
			50	0	100	0	20.39	20.05	23.23	21	21	24.0	
			1	0	1	0	20.97	17.16	22.48	22.8	18	24.0	
			1	25	1	49	21.66	17.40	23.04	22.8	18	24.0	
			1	49	1	99	22.05	17.39	23.33	22.8	18	24.0	
			25	0	50	0	20.07	20.19	23.14	21	21	24.0	
			25	12	50	24	20.40	20.15	23.29	21	21	24.0	
			25	25	50	50	20.43	20.02	23.24	21	21	24.0	
23230	132572	QPSK	50	0	100	0	20.45	20.06	23.27	21	21	24.0	

Tune up Power (dBm)

PCC:Ant1		SCC:Ant2		CA_66A-13A									
Combination 20MHz+10MHz (100RB+50RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
132072	23230	QPSK	1	0	1	0	22.09	15.13	22.89	23	17	24.0	
			1	49	1	25	22.27	15.06	23.03	23	17	24.0	
			1	99	1	49	21.95	15.14	22.77	23	17	24.0	
			50	0	25	0	19.72	18.80	22.29	21.5	20.5	24.0	
			50	24	25	12	19.75	18.85	22.33	21.5	20.5	24.0	
			50	50	25	25	19.65	18.81	22.26	21.5	20.5	24.0	
			100	0	50	0	19.69	18.71	22.24	21.5	20.5	24.0	
			1	0	1	0	22.05	15.23	22.87	23	17	24.0	
			1	49	1	25	22.32	15.12	23.08	23	17	24.0	
			1	99	1	49	21.93	15.24	22.77	23	17	24.0	
132322	23230	QPSK	50	0	25	0	20.04	18.53	22.36	21.5	20.5	24.0	
			50	24	25	12	19.95	18.54	22.31	21.5	20.5	24.0	
			50	50	25	25	19.99	18.77	22.43	21.5	20.5	24.0	
			100	0	50	0	20.02	18.59	22.37	21.5	20.5	24.0	
			1	0	1	0	22.30	14.44	22.96	23	17	24.0	
			1	49	1	25	22.34	14.18	22.96	23	17	24.0	
			1	99	1	49	21.93	14.36	22.63	23	17	24.0	
			50	0	25	0	20.13	18.57	22.43	21.5	20.5	24.0	
			50	24	25	12	20.12	18.58	22.43	21.5	20.5	24.0	
			50	50	25	25	19.80	18.74	22.31	21.5	20.5	24.0	
132572	23230	QPSK	100	0	50	0	19.97	18.58	22.34	21.5	20.5	24.0	



PCC:Ant2		SCC:Ant1		Tune up Power (dBm)									
CA_14A-30A													
Combination 10MHz+10MHz (50RB+50RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
23330	27710	QPSK	1	0	1	0	22.21	16.10	23.16	22.8	18	24.0	
			1	25	1	25	21.80	17.02	23.05	22.8	18	24.0	
			1	49	1	49	21.90	16.72	23.05	22.8	18	24.0	
			25	0	25	0	19.41	19.89	22.67	21	21	24.0	
			25	12	25	12	19.34	19.89	22.63	21	21	24.0	
			25	25	25	25	19.32	19.35	22.35	21	21	24.0	
			50	0	50	0	19.27	19.90	22.61	21	21	24.0	

PCC:Ant2		SCC:Ant8		Tune up Power (dBm)									
CA_30A-14A													
Combination 10MHz+10MHz (50RB+50RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
27710	23330	QPSK	1	0	1	0	22.26	16.24	23.23	22.8	18	24.0	
			1	25	1	25	21.93	16.35	22.99	22.8	18	24.0	
			1	49	1	49	21.75	15.84	22.70	22.8	18	24.0	
			25	0	25	0	19.53	19.31	22.43	21	21	24.0	
			25	12	25	12	19.99	19.45	22.74	21	21	24.0	
			25	25	25	25	19.62	19.20	22.43	21	21	24.0	
			50	0	50	0	19.58	19.12	22.37	21	21	24.0	

PCC:Ant8		SCC:Ant2		Tune up Power (dBm)									
CA_14A-30A													
Combination 10MHz+10MHz (50RB+50RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
23330	27710	QPSK	1	0	1	0	21.98	16.53	23.07	23	17	24.0	
			1	25	1	25	21.95	15.71	22.88	23	17	24.0	
			1	49	1	49	21.83	15.38	22.72	23	17	24.0	
			25	0	25	0	20.32	19.36	22.88	21.5	20.5	24.0	
			25	12	25	12	20.24	19.41	22.86	21.5	20.5	24.0	
			25	25	25	25	20.18	19.27	22.76	21.5	20.5	24.0	
			50	0	50	0	20.06	19.21	22.67	21.5	20.5	24.0	

PCC:Ant1		SCC:Ant2		Tune up Power (dBm)									
CA_30A-14A													
Combination 10MHz+10MHz (50RB+50RB)													
PCC Channel	SCC Channel	Modulation	PCC		SCC		PCC1 Power (dBm)	SCC2 Power (dBm)	Measured Power (dBm)	PCC1 Tune up Power (dBm)	SCC2 Tune up Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset							
27710	23330	QPSK	1	0	1	0	22.26	15.40	23.07	23	17	24.0	
			1	25	1	25	22.25	15.26	23.04	23	17	24.0	
			1	49	1	49	22.38	15.15	23.13	23	17	24.0	
			25	0	25	0	19.87	18.52	22.26	21.5	20.5	24.0	
			25	12	25	12	20.12	18.54	22.41	21.5	20.5	24.0	
			25	25	25	25	20.04	18.99	22.43	21.5	20.5	24.0	
			50	0	50	0	19.99	18.71	22.41	21.5	20.5	24.0	



Intra Uplink CA Power for LAT

CA_5B

PCC Channel	SCC Channel	Modulation	Combination 10MHz+10MHz (50RB+50RB)						Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			PCC		SCC		Total RB Size	Target MPR Level (dB)			
			RB Size	RB offset	RB Size	RB offset					
20450	20549	QPSK	1	0	0	0	1	0	DS14	22.68	24.00
20475	20476	QPSK	1	0	0	0	1	0	DS14	22.78	24.00
20500	20501	QPSK	1	0	0	0	1	0	DS14	22.71	24.00
20453	20549	QPSK	1	49	1	0	1	0	DS13_Sim-Tx for Hotspot on/body-worn	20.10	21.60
20475	20476	QPSK	1	0	1	49	1	0	DS13_Sim-Tx for Hotspot on/body-worn	20.23	21.60
20600	20501	QPSK	1	0	1	49	1	0	DS13_Sim-Tx for Hotspot on/body-worn	20.27	21.60
20450	20549	QPSK	1	49	1	0	1	0	DS13 for body worn	20.10	21.60
20475	20476	QPSK	1	0	1	49	1	0	DS13 for body worn	20.23	21.60
20600	20501	QPSK	1	0	1	49	1	0	DS13 for body worn	20.33	21.60

CA_66C

PCC Channel	SCC Channel	Modulation	Combination 20MHz+20MHz (100RB+100RB)						Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			PCC		SCC		Total RB Size	Target MPR Level (dB)			
			RB Size	RB offset	RB Size	RB offset					
132072	132270	QPSK	1	0	0	0	1	0	DS14	22.55	24.00
132322	132124	QPSK	1	0	0	0	1	0	DS14	22.57	24.00
132572	132374	QPSK	1	0	0	0	1	0	DS14	22.49	24.00
133072	132270	QPSK	1	99	1	0	2	0	DS13_Sim-Tx for Hotspot on/body-worn	16.18	17.70
132322	132124	QPSK	1	0	1	99	2	0	DS13_Sim-Tx for Hotspot on/body-worn	16.15	17.70
132572	132374	QPSK	1	0	1	99	2	0	DS13_Sim-Tx for Hotspot on/body-worn	16.08	17.70
132072	132270	QPSK	1	99	1	0	2	0	DS13 for body worn	17.30	18.80
132322	132124	QPSK	1	0	1	99	2	0	DS13 for body worn	17.19	18.80
132572	132374	QPSK	1	0	1	99	2	0	DS13 for body worn	17.12	18.80
132072	132270	QPSK	1	99	1	0	2	0	DS16 for Handheld Standalone	18.93	20.80
132322	132124	QPSK	1	0	1	99	2	0	DS16 for Handheld Standalone	18.91	20.80
132572	132374	QPSK	1	0	1	99	2	0	DS16 for Handheld Standalone	19.01	20.80



CA_66B											
Combination 15MHz+5MHz (75RB+25RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
132047	132140	QPSK	1	0	0	0	1	0	DS14	22.63	24.00
132322	132229	QPSK	1	0	0	0	1	0	DS14	22.59	24.00
132597	132504	QPSK	1	0	0	0	1	0	DS14	22.65	24.00
132047	132140	QPSK	1	74	1	0	1	0	DS13_Sim-Tx for Hotspot on/body-worn	16.23	17.70
132322	132229	QPSK	1	0	1	24	1	0	DS13_Sim-Tx for Hotspot on/body-worn	16.27	17.70
132597	132504	QPSK	1	0	1	24	1	0	DS13_Sim-Tx for Hotspot on/body-worn	16.31	17.70
132047	132140	QPSK	1	74	1	0	2	0	DS13 for body worn	17.30	18.80
132322	132229	QPSK	1	0	1	24	2	0	DS13 for body worn	17.26	18.80
132597	132504	QPSK	1	0	1	24	2	0	DS13 for body worn	17.26	18.80
132047	132140	QPSK	1	74	1	0	2	0	DIS6 for Handheld Standalone	19.23	20.80
132322	132229	QPSK	1	0	1	24	2	0	DIS6 for Handheld Standalone	19.26	20.80
132597	132504	QPSK	1	0	1	24	2	0	DIS6 for Handheld Standalone	19.33	20.80

CA_41C											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
397950	39948	QPSK	1	99	0	0	1	0	DS14	22.49	24.00
40185	39987	QPSK	1	99	0	0	1	0	DS14	22.76	24.00
40620	40422	QPSK	1	99	0	0	1	0	DS14	22.89	24.00
41855	41253	QPSK	1	99	0	0	1	0	DS14	22.94	24.00
41490	41292	QPSK	1	99	0	0	1	0	DS14	22.97	24.00
397950	39948	QPSK	1	99	1	0	2	0	DS13_Sim-Tx for Hotspot on/body-worn	16.68	18.30
40185	39987	QPSK	1	0	1	99	2	0	DS13_Sim-Tx for Hotspot on/body-worn	16.63	18.30
40620	40422	QPSK	1	0	1	99	2	0	DS13_Sim-Tx for Hotspot on/body-worn	17.03	18.30
41855	41253	QPSK	1	99	1	0	2	0	DS13_Sim-Tx for Hotspot on/body-worn	16.89	18.30
41490	41292	QPSK	1	0	1	99	2	0	DS13_Sim-Tx for Hotspot on/body-worn	17.03	18.30
397950	39948	QPSK	1	99	1	0	2	0	DS13 for body worn	18.46	20.00
40185	39987	QPSK	1	0	1	99	2	0	DS13 for body worn	18.50	20.00
40620	40422	QPSK	1	0	1	99	2	0	DS13 for body worn	18.61	20.00
41855	41253	QPSK	1	99	1	0	2	0	DS13 for body worn	18.91	20.00
41490	41292	QPSK	1	0	1	99	2	0	DS13 for body worn	18.86	20.00



CA_48C For FCC
Combination 20MHz+20MHz (100RB+100RB)

PCC Channel	SCC Channel	Modulation	PCC			SCC			Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Turn up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	RB Size	RB offset					
55340	55538	QPSK	1	0	0	0	1	0	0	DS14	22.54	24.00	
55830	55632	QPSK	1	0	0	0	1	0	0	DS14	22.52	24.00	
56150	55952	QPSK	1	0	0	0	1	0	0	DS14	22.45	24.00	
56640	56442	QPSK	1	0	0	0	1	0	0	DS14	22.44	24.00	
55340	55538	QPSK	1	99	1	0	2	0	0	DS13_Sim-Tx for Hotspot on/body-wron	13.25	14.50	
55830	55632	QPSK	1	0	1	99	2	0	0	DS13_Sim-Tx for Hotspot on/body-wron	12.99	14.50	
56150	55952	QPSK	1	0	1	99	2	0	0	DS13_Sim-Tx for Hotspot on/body-wron	12.95	14.50	
56640	56442	QPSK	1	0	1	99	2	0	0	DS13_Sim-Tx for Hotspot on/body-wron	12.97	14.50	
55340	55538	QPSK	1	99	1	0	2	0	0	DS13 for body worn	15.48	16.90	
55830	55632	QPSK	1	0	1	99	2	0	0	DS13 for body worn	15.49	16.90	
56150	55952	QPSK	1	0	1	99	2	0	0	DS13 for body worn	15.50	16.90	
56640	56442	QPSK	1	0	1	99	2	0	0	DS13 for body worn	15.40	16.90	
55340	55538	QPSK	1	99	1	0	2	0	0	DIS6 for Handheld Standalone	20.78	22.20	
55830	55632	QPSK	1	0	1	99	2	0	0	DIS6 for Handheld Standalone	20.76	22.20	
56150	55952	QPSK	1	0	1	99	2	0	0	DIS6 for Handheld Standalone	20.77	22.20	
56640	56442	QPSK	1	0	1	99	2	0	0	DIS6 for Handheld Standalone	20.72	22.20	
55340	55538	QPSK	1	99	1	0	2	0	0	DIS6 for Handheld Sim-Tx	18.62	19.70	
55830	55632	QPSK	1	0	1	99	2	0	0	DIS6 for Handheld Sim-Tx	18.64	19.70	
56150	55952	QPSK	1	0	1	99	2	0	0	DIS6 for Handheld Sim-Tx	18.51	19.70	
56640	56442	QPSK	1	0	1	99	2	0	0	DIS6 for Handheld Sim-Tx	18.56	19.70	



Intra Uplink CA Power for UAT

CA_5B

Combination 10MHz+10MHz (50RB+50RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Turn up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
20450	20549	QPSK	1	0	0	0	1	0	DSM4	22.92	24.00
20575	20476	QPSK	1	0	0	0	1	0	DSM4	22.98	24.00
20600	20501	QPSK	1	0	0	0	1	0	DSM4	22.95	24.00
20450	20549	QPSK	1	49	1	0	2	0	DSI2 standalone for Head	20.01	21.30
20575	20476	QPSK	1	0	1	49	2	0	DSI2 standalone for Head	20.14	21.30
20600	20501	QPSK	1	0	1	49	2	0	DSI2 standalone for Head	20.02	21.30
20450	20549	QPSK	1	49	1	0	2	0	DSI2 Sim-Tx for Head	19.18	20.50
20575	20476	QPSK	1	0	1	49	2	0	DSI2 Sim-Tx for Head	19.27	20.50
20600	20501	QPSK	1	0	1	49	2	0	DSI2 Sim-Tx for Head	19.23	20.50
20450	20549	QPSK	1	49	1	0	2	0	DSI3 Sim-Tx for Hotspot on/body-worn	20.90	21.70
20575	20476	QPSK	1	0	1	49	2	0	DSI3 Sim-Tx for Hotspot on/body-worn	21.04	21.70
20600	20501	QPSK	1	0	1	49	2	0	DSI3 Sim-Tx for Hotspot on/body-worn	20.94	21.70

CA_66C

Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Turn up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
132072	132270	QPSK	1	0	0	0	1	0	DSI4	22.32	24.00
132322	132124	QPSK	1	0	0	0	1	0	DSI4	22.37	24.00
132572	132374	QPSK	1	0	0	0	1	0	DSI4	22.29	24.00
132072	132270	QPSK	1	99	1	0	2	0	DSI2 standalone for Head	17.00	17.90
132322	132124	QPSK	1	0	1	99	2	0	DSI2 standalone for Head	17.02	17.90
132572	132374	QPSK	1	0	1	99	2	0	DSI2 standalone for Head	16.89	17.90
132072	132270	QPSK	1	99	1	0	2	0	DSI2 Sim-Tx for Head	15.29	16.60
132322	132124	QPSK	1	0	1	99	2	0	DSI2 Sim-Tx for Head	15.31	16.60
132572	132374	QPSK	1	0	1	99	2	0	DSI2 Sim-Tx for Head	15.05	16.60
132072	132270	QPSK	1	99	1	0	2	0	DSI3 for body worn	17.42	18.40
132322	132124	QPSK	1	0	1	99	2	0	DSI3 for body worn	17.49	18.40
132572	132374	QPSK	1	0	1	99	2	0	DSI3 for body worn	17.45	18.40
132072	132270	QPSK	1	99	1	0	2	0	DSI3 Sim-Tx for Hotspot on/body-worn	14.28	15.60
132322	132124	QPSK	1	0	1	99	2	0	DSI3 Sim-Tx for Hotspot on/body-worn	14.07	15.60
132572	132374	QPSK	1	0	1	99	2	0	DSI3 Sim-Tx for Hotspot on/body-worn	14.26	15.60
132072	132270	QPSK	1	99	1	0	2	0	DSI6 for Handheld Standalone	21.74	22.60
132322	132124	QPSK	1	0	1	99	2	0	DSI6 for Handheld Standalone	21.83	22.60
132572	132374	QPSK	1	0	1	99	2	0	DSI6 for Handheld Standalone	21.58	22.60
132072	132270	QPSK	1	99	1	0	2	0	DSI6 for Handheld Sim-Tx	19.95	20.10
132322	132124	QPSK	1	0	1	99	2	0	DSI6 for Handheld Sim-Tx	19.95	20.10
132572	132374	QPSK	1	0	1	99	2	0	DSI6 for Handheld Sim-Tx	18.57	20.10



CA_66B

Combination 15MHz+5MHz (75RB+25RB)

PCF Channel	SCF Channel	Modulation	PCF				SCF		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Turn up Power (dBm)
			RB Size	RB offset	RB Size	RB offset	RB Size	RB offset					
132047	132140	QPSK	1	0	0	0	1	0		DS14	22.15	24.00	
132322	132229	QPSK	1	0	0	0	1	0		DS14	22.35	24.00	
132597	132504	QPSK	1	0	0	0	1	0		DS14	22.21	24.00	
132047	132140	QPSK	1	74	1	0	2	0		DIS2 standalone for Head	16.86	17.90	
132322	132229	QPSK	1	0	1	24	2	0		DIS2 standalone for Head	17.00	17.90	
132597	132504	QPSK	1	0	1	24	2	0		DIS2 standalone for Head	16.89	17.90	
132047	132140	QPSK	1	74	1	0	2	0		DIS2_Sim-Tx for Head	15.24	16.60	
132322	132229	QPSK	1	0	1	24	2	0		DIS2_Sim-Tx for Head	15.27	16.60	
132597	132504	QPSK	1	0	1	24	2	0		DIS2_Sim-Tx for Head	15.11	16.60	
132047	132140	QPSK	1	74	1	0	2	0		DIS3 for body-worn	17.36	18.40	
132322	132229	QPSK	1	0	1	24	2	0		DIS3 for body-worn	17.45	18.40	
132597	132504	QPSK	1	0	1	24	2	0		DIS3 for body-worn	17.34	18.40	
132047	132140	QPSK	1	74	1	0	2	0		DIS3_Sim-Tx for Hotspot on/body-worn	14.32	15.60	
132322	132229	QPSK	1	0	1	24	2	0		DIS3_Sim-Tx for Hotspot on/body-worn	14.63	15.60	
132597	132504	QPSK	1	0	1	24	2	0		DIS3_Sim-Tx for Hotspot on/body-worn	14.39	15.60	
132047	132140	QPSK	1	74	1	0	2	0		DIS6 for Handheld Standalone	21.68	22.60	
132322	132229	QPSK	1	0	1	24	2	0		DIS6 for Handheld Standalone	21.79	22.60	
132597	132504	QPSK	1	0	1	24	2	0		DIS6 for Handheld Standalone	21.49	22.60	
132047	132140	QPSK	1	74	1	0	2	0		DIS6 for Handheld Sim-Tx	18.92	20.10	
132322	132229	QPSK	1	0	1	24	2	0		DIS6 for Handheld Sim-Tx	18.92	20.10	
132597	132504	QPSK	1	0	1	24	2	0		DIS6 for Handheld Sim-Tx	18.77	20.10	



DL CA Power

Full Power		ZCC													
Configure	CA Configuration (BCS)	PCC							SCC				Power		
		LTE Band	BW (MHz)	UL Freq (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	With CA Tx Power (dBm)	W/O CA Tx Power (dBm)	
Inter-Band	CA_4A-4B	4	20	1732.5	20175	QPSK	1	0	48	20	3625	55990	22.44	22.84	
	CA_5A-41A	5	10	836.5	20525	QPSK	1	0	41	20	2593	40620	22.66	22.71	
	CA_25A-41A	25	20	1860	26140	QPSK	1	0	41	20	2593	40620	22.67	22.87	
	CA_26A-41A	26	15	821.5	26765	QPSK	1	0	41	20	2593	40620	22.57	22.54	

SCC																		
Configure	CA Configuration (BCS)	PCC							SCC1				SCC2				Power	
		LTE Band	BW (MHz)	UL Freq (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	With CA Tx Power (dBm)	W/O CA Tx Power (dBm)
Inter-Band	CA_2A-2A-4A	2	20	1860	18700	QPSK	1	0	2	5	1987.5	1175	4	20	2132.5	2175	22.54	22.74
	CA_2A-2A-5A	2	20	1860	18700	QPSK	1	0	2	5	1987.5	1175	5	10	881.5	2525	22.61	22.74
	CA_2C-12A	2	20	1860	18700	QPSK	1	0	2	20	1959.8	898	12	10	737.5	5095	22.52	22.74
	CA_2A-2A-12A	2	20	1860	18700	QPSK	1	0	2	5	1987.5	1175	12	10	737.5	5095	22.50	22.74
	CA_2A-2A-13A	2	20	1860	18700	QPSK	1	0	2	5	1987.5	1175	13	10	751	5230	22.48	22.74
	CA_2A-2A-14A	2	20	1860	18700	QPSK	1	0	2	5	1987.5	1175	14	10	763	5330	22.47	22.74
	CA_2A-2A-29A	2	20	1860	18700	QPSK	1	0	2	5	1987.5	1175	29	10	722.5	9715	22.52	22.74
	CA_2A-2A-30A	2	20	1860	18700	QPSK	1	0	2	5	1987.5	1175	30	10	2355	9820	22.49	22.74
	CA_2C-66A	2	20	1860	18700	QPSK	1	0	2	20	1959.8	898	66	20	2145	66786	22.57	22.74
	CA_2A-2A-66A	2	20	1860	18700	QPSK	1	0	2	5	1987.5	1175	66	20	2145	66786	22.61	22.74
	CA_2A-2A-71A	2	20	1860	18700	QPSK	1	0	2	5	1987.5	1175	71	20	637	68786	22.52	22.74
	CA_2A-4A-4A	2	20	1860	18700	QPSK	1	0	4	20	2145	2300	4	5	2112.5	1975	22.54	22.74
	CA_2A-4A-5A	2	20	1860	18700	QPSK	1	0	4	20	2132.5	2175	5	10	881.5	2525	22.59	22.74
	CA_2A-4A-12A	2	20	1860	18700	QPSK	1	0	4	20	2132.5	2175	12	10	737.5	5095	22.55	22.74
	CA_2A-4A-13A	2	20	1860	18700	QPSK	1	0	4	20	2132.5	2175	13	10	751	5230	22.54	22.74
	CA_2A-4A-29A	2	20	1860	18700	QPSK	1	0	4	20	2132.5	2175	29	10	722.5	9715	22.53	22.74
	CA_2A-4A-30A	2	20	1860	18700	QPSK	1	0	4	20	2132.5	2175	30	10	2355	9820	22.57	22.74
	CA_2A-4A-71A	2	20	1860	18700	QPSK	1	0	4	20	2132.5	2175	71	20	637	68786	22.63	22.74
	CA_2A-5B	2	20	1860	18700	QPSK	1	0	5	10	874	2450	5	5	881.2	2522	22.50	22.74
	CA_2A-5A-30A	2	20	1860	18700	QPSK	1	0	5	10	881.5	2525	30	10	2355	9820	22.42	22.74
	CA_2A-5A-48A	2	20	1860	18700	QPSK	1	0	5	10	881.5	2525	48	20	3625	55990	22.46	22.74
	CA_2A-5A-66A	2	20	1860	18700	QPSK	1	0	5	10	881.5	2525	66	20	2145	66786	22.47	22.74
	CA_2A-12B	2	20	1860	18700	QPSK	1	0	12	10	740	5120	12	5	732.8	5048	22.61	22.74
	CA_2A-12A-30A	2	20	1860	18700	QPSK	1	0	12	10	737.5	5095	30	10	2355	9820	22.43	22.74
	CA_2A-12A-66A	2	20	1860	18700	QPSK	1	0	12	10	737.5	5095	66	20	2145	66786	22.63	22.74
	CA_2A-13A-48A	2	20	1860	18700	QPSK	1	0	13	10	751	5230	48	20	3625	55990	22.47	22.74
	CA_2A-13A-66A	2	20	1860	18700	QPSK	1	0	13	10	751	5230	66	20	2145	66786	22.46	22.74
	CA_2A-14A-30A	2	20	1860	18700	QPSK	1	0	14	10	763	5330	30	10	2355	9820	22.36	22.74
	CA_2A-14A-66A	2	20	1860	18700	QPSK	1	0	14	10	763	5330	66	20	2145	66786	22.51	22.74
	CA_2A-29A-30A	2	20	1860	18700	QPSK	1	0	29	10	722.5	9715	30	10	2355	9820	22.47	22.74
	CA_2A-29A-66A	2	20	1860	18700	QPSK	1	0	29	10	722.5	9715	66	20	2145	66786	22.49	22.74
	CA_2A-30A-66A	2	20	1860	18700	QPSK	1	0	30	10	2355	9820	66	20	2145	66786	22.45	22.74
	CA_2A-48C	2	20	1860	18700	QPSK	1	0	48	20	3625	55990	48	20	3605.2	55792	22.51	22.74
	CA_2A-48A-48A	2	20	1860	18700	QPSK	1	0	48	20	3690	56640	48	5	3552.5	55265	22.77	22.74
	CA_2A-48A-66A	2	20	1860	18700	QPSK	1	0	48	20	3625	55990	66	20	2145	66786	22.43	22.74
	CA_2A-66B	2	20	1860	18700	QPSK	1	0	66	5	2187.8	67214	66	10	2195	67286	22.65	22.74
	CA_2A-66C	2	20	1860	18700	QPSK	1	0	66	20	2185	67186	66	5	2196.7	67303	22.74	22.74
	CA_2A-66A-66A	2	20	1860	18700	QPSK	1	0	66	20	2120	66536	66	20	2190	67236	22.58	22.74
	CA_2A-66A-71A	2	20	1860	18700	QPSK	1	0	66	20	2145	66786	71	20	637	68786	22.65	22.74
	CA_4A-4A-5A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	5	10	881.5	2525	22.39	22.84
CA_4A-4A-12A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	12	10	737.5	5095	22.46	22.84	
CA_4A-4A-13A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	13	10	751	5230	22.40	22.84	
CA_4A-4A-29A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	29	10	722.5	9715	22.53	22.84	
CA_4A-4A-30A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	30	10	2355	9820	22.33	22.84	
CA_4A-4A-71A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	71	20	634.5	68786	22.44	22.84	
CA_4A-5B	4	20	1732.5	20175	QPSK	1	0	5	10	874	2450	5	5	881.2	2522	22.40	22.84	
CA_4A-5A-30A	4	20	1732.5	20175	QPSK	1	0	5	10	881.5	2525	30	10	2355	9820	22.51	22.84	
CA_4A-12B	4	20	1732.5	20175	QPSK	1	0	12	10	740	5120	12	5	732.8	5048	22.44	22.84	
CA_4A-12A-30A	4	20	1732.5	20175	QPSK	1	0	12	10	737.5	5095	30	10	2355	9820	22.37	22.84	
CA_4A-29A-30A	4	20	1732.5	20175	QPSK	1	0	29	10	722.5	9715	30	10	2355	9820	22.31	22.84	
CA_4A-48C	4	20	1732.5	20175	QPSK	1	0	48	20	3625	55990	48	20	3605.2	55792	22.36	22.84	
CA_5B-30A	5	10	836.5	20525	QPSK	1	0	5	5	888.7	2597	30	10	2355	9820	22.63	22.71	
CA_5B-66A	5	10	836.5	20525	QPSK	1	0	5	5	888.7	2597	66	20	2145	66786	22.63	22.71	
CA_5A-66B	5	10	836.5	20525	QPSK	1	0	66	5	2187.8	67214	66	10	2195	67286	22.44	22.71	
CA_5A-66C	5	10	836.5	20525	QPSK	1	0	66	20	2185	67186	66	5	2196.7	67303	22.42	22.71	
CA_5A-5A-66A	5	10	836.5	20525	QPSK	1	0	5	5	891.5	2625	66	20	2145	66786	22.10	22.71	
CA_5A-30A-66A	5	10	836.5	20525	QPSK	1	0	30	10	2355	9820	66	20	2145	66786	22.40	22.71	
CA_5A-48C	5	10	836.5	20525	QPSK	1	0	48	20	3625	55990	48	20	3605.2	55792	22.34	22.71	
CA_5A-48A-66A	5	10	836.5	20525	QPSK	1	0	48	20	3625	55990	66	20	2145	66786	22.46	22.71	
CA_5A-66A-66A	5	10	836.5	20525	QPSK	1	0	66	20	2120	66536	66	20	2190	67236	22.39	22.71	
CA_12B-66A	12	10	711	23130	QPSK	1	49	12	5	733.8	5058	66	20	2145	66786	22.31	22.93	
CA_12A-30A-66A	12	10	711	23130	QPSK	1	49	30	10	2355	9820	66	20	2145	66786	22.32	22.93	
CA_12A-66C	12	10	711	23130	QPSK	1	49	66	20	2185	67186	66	5	2196.7	67303	22.23	22.93	
CA_12A-66A-66A	12	10	711	23130	QPSK	1	49	66	20	2120	66536	66	20	2190	67236	22.04	22.93	
CA_13A-48C	13	10	782	23230	QPSK	1	25	48	20	3625	55990	48	20	3605.2	55792	22.80	22.94	
CA_13A-48A-48A	13	10	782	23230	QPSK	1	25	48	20	3622.5	55965	48	5	3634.2	56082	22.90	22.94	
CA_13A-48A-66A	13	10	782	23230	QPSK	1	25	48	20	3625	55990	66	20	2145	66786	22.83	22.94	
CA_13A-66B	13	10	782	23230	QPSK	1	25	66	5	2187.8	67214	66	10	2195	67286	22.87	22.94	
CA_13A-66C	13	10	782	23230	QPSK	1	25	66	20	2185	67186	66	5	2196.7	67303	22.83	22.94	
CA_13A-66A-66A	13	10	782	23230	QPSK	1	25	66	20	2120	66536	66	20	2190	67236	22.92	22.94	
CA_14A-30A-66A	14	10	793	23330	QPSK</													



Full Power Mode for UAT

n2_Ant 2 (DS14)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				1860	1880	1900			
Frequency (MHz)				1860	1880	1900			
20	Pi/2 BPSK	1	1	23.00	22.88	23.01	24.0	0.0	
20	Pi/2 BPSK	1	53	22.50	22.80	23.10			
20	Pi/2 BPSK	1	104	22.86	22.86	23.05			
20	Pi/2 BPSK	50	0	22.42	22.30	22.45	23.5	0.5	
20	Pi/2 BPSK	50	28	22.91	22.82	23.06	24.0	0.0	
20	Pi/2 BPSK	50	56	22.39	22.35	22.51	23.5	0.5	
20	Pi/2 BPSK	100	0	22.42	22.34	22.46			
20	QPSK	1	1	22.58	22.86	22.91			
20	QPSK	1	53	22.53	22.83	23.06	24.0	0.0	
20	QPSK	1	104	22.90	22.88	23.03			
20	QPSK	50	0	21.94	21.82	21.98	23.0	1.0	
20	QPSK	50	28	22.57	22.81	23.01	24.0	0.0	
20	QPSK	50	56	21.86	21.85	22.05	23.0	1.0	
20	QPSK	100	0	21.92	21.83	21.97			
20	16QAM	1	1	21.88	21.80	21.85	23.0	1.0	
20	64QAM	1	1	20.21	20.17	20.14	21.5	2.5	
20	256QAM	1	1	18.61	18.54	18.55	19.5	4.5	
Channel				37000	37000	38000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	Pi/2 BPSK	1	1	23.02	22.87	23.04	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1825	1850	1900			
10	Pi/2 BPSK	1	1	23.00	22.90	23.06	24.0	0.0	
Channel				370000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	Pi/2 BPSK	1	1	23.02	23.00	23.08	24.0	0.0	

n5_Ant 2 (DS13,DS14,DS16)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	Pi/2 BPSK	1	1	23.18	23.07	22.92			
20	Pi/2 BPSK	1	53	22.86	22.82	22.73	24.0	0.0	
20	Pi/2 BPSK	1	104	22.86	22.53	22.53			
20	Pi/2 BPSK	50	0	23.06	22.92	22.99	24.0	0.0	
20	Pi/2 BPSK	50	28	22.99	22.91	22.84	24.0	0.0	
20	Pi/2 BPSK	50	56	22.75	22.74	22.64	24.0	0.0	
20	Pi/2 BPSK	100	0	23.02	22.91	22.86			
20	QPSK	1	1	23.16	23.11	22.96			
20	QPSK	1	53	22.80	22.82	22.74	24.0	0.0	
20	QPSK	1	104	22.59	22.55	22.53			
20	QPSK	50	0	22.60	22.47	22.40	24.0	0.0	
20	QPSK	50	28	22.39	22.34	22.28	24.0	0.0	
20	QPSK	50	56	22.22	22.21	22.12	24.0	0.0	
20	QPSK	100	0	22.47	22.41	22.33			
20	16QAM	1	1	22.81	22.48	22.41	24.0	0.0	
20	64QAM	1	1	21.10	21.02	20.95	21.5	2.5	
20	256QAM	1	1	18.91	18.77	18.72	19.5	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	Pi/2 BPSK	1	1	23.16	22.95	22.83	24.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				820	836.5	844			
10	Pi/2 BPSK	1	1	23.14	22.91	22.78	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	Pi/2 BPSK	1	1	23.15	22.88	22.69	24.0	0.0	

n12_Ant 2 (DS12,DS13,DS13_Sim,DS14,DS16)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				141300	141500	141700			
Frequency (MHz)				706.5	707.5	708.5			
15	Pi/2 BPSK	1	1	23.12	23.02	22.98			
15	Pi/2 BPSK	1	40	22.81	22.53	22.87	24.0	0.0	
15	Pi/2 BPSK	1	77	22.71	22.69	22.69			
15	Pi/2 BPSK	36	0	22.97	22.93	22.84	24.0	0.0	
15	Pi/2 BPSK	36	22	22.74	22.85	22.86	24.0	0.0	
15	Pi/2 BPSK	36	43	22.79	22.72	22.71	24.0	0.0	
15	Pi/2 BPSK	75	0	22.84	22.82	22.77			
15	QPSK	1	1	22.97	22.84	22.85			
15	QPSK	1	40	22.78	22.85	22.79	24.0	0.0	
15	QPSK	1	77	22.62	22.60	22.55			
15	QPSK	36	0	22.95	22.94	22.93	24.0	0.0	
15	QPSK	36	22	22.83	22.78	22.74	24.0	0.0	
15	QPSK	36	43	22.81	22.79	22.70	24.0	0.0	
15	QPSK	75	0	22.88	22.86	22.83			
15	16QAM	1	1	22.30	22.28	22.21	24.0	0.0	
15	64QAM	1	1	20.91	20.87	20.81	21.5	2.5	
15	256QAM	1	1	18.83	18.76	18.72	19.5	4.5	
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				704	707.5	711			
10	Pi/2 BPSK	1	1	23.09	23.07	22.95	24.0	0.0	
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
5	Pi/2 BPSK	1	1	23.06	22.92	22.71	24.0	0.0	



n25_Ant 2 (DS14)										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				1870	1882.5	1895				
Frequency (MHz)				1870	1882.5	1895				
40	PI/2 BPSK	1	1	23.08	23.11	22.98				
40	PI/2 BPSK	1	108	23.00	23.03	22.98	24.0	0.0		
40	PI/2 BPSK	1	214	22.94	22.97	22.87				
40	PI/2 BPSK	108	0	22.33	22.35	22.31	23.5	0.5		
40	PI/2 BPSK	108	54	22.71	22.85	22.87	24.0	0.0		
40	PI/2 BPSK	108	108	22.13	22.16	22.08				
40	PI/2 BPSK	216	0	22.39	22.55	22.31	23.5	0.5		
40	QPSK	1	1	23.05	23.10	23.01				
40	QPSK	1	108	22.98	23.03	22.89	24.0	0.0		
40	QPSK	1	214	22.86	22.91	22.70				
40	QPSK	108	0	22.07	22.09	22.03	23.0	1.0		
40	QPSK	108	54	22.91	22.96	22.84	24.0	0.0		
40	QPSK	108	108	22.02	22.04	21.94				
40	QPSK	216	0	22.13	22.16	22.08	23.0	1.0		
40	16QAM	1	1	21.98	22.09	21.98	23.0	1.0		
40	64QAM	1	1	20.48	20.53	20.24	21.5	2.5		
40	256QAM	1	1	18.84	18.85	18.85	19.5	4.5		
Channel				37200	37650	38100	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				37200	37650	38100				
30	PI/2 BPSK	1	1	23.09	22.98	22.95	24.0	0.0		
Channel				37200	37650	38100	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				37200	37650	38100				
25	PI/2 BPSK	1	1	23.01	23.02	22.91	24.0	0.0		
Channel				37200	37650	38100	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				37200	37650	38100				
20	PI/2 BPSK	1	1	23.03	22.99	22.88	24.0	0.0		
Channel				37100	37650	38100	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				37100	37650	38100				
15	PI/2 BPSK	1	1	23.07	23.02	22.89	24.0	0.0		
Channel				37100	37650	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				37100	37650	38200				
10	PI/2 BPSK	1	1	23.02	23.05	22.89	24.0	0.0		
Channel				37050	37650	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				37050	37650	38200				
5	PI/2 BPSK	1	1	23.07	23.00	22.85	24.0	0.0		

n26_Ant 2 (DS13,DS14,DS16)										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				16460	16650	16750				
Frequency (MHz)				16460	16650	16750				
20	PI/2 BPSK	1	1	23.29	23.04	22.90				
20	PI/2 BPSK	1	53	22.92	22.78	22.68	24.0	0.0		
20	PI/2 BPSK	1	104	22.68	22.57	22.44				
20	PI/2 BPSK	50	0	23.09	22.93	22.74	24.0	0.0		
20	PI/2 BPSK	50	28	23.02	22.84	22.64	24.0	0.0		
20	PI/2 BPSK	50	56	22.90	22.65	22.60				
20	PI/2 BPSK	100	0	23.05	22.62	22.65	24.0	0.0		
20	QPSK	1	1	23.11	22.99	22.89				
20	QPSK	1	53	22.99	22.82	22.62	24.0	0.0		
20	QPSK	1	104	22.78	22.63	22.52				
20	QPSK	50	0	22.69	22.65	22.28	24.0	0.0		
20	QPSK	50	28	22.59	22.40	22.25	24.0	0.0		
20	QPSK	50	56	22.52	22.21	22.25				
20	QPSK	100	0	22.63	22.42	22.35	24.0	0.0		
20	16QAM	1	1	22.53	22.31	22.10	24.0	0.0		
20	64QAM	1	1	21.26	21.07	20.89	21.5	2.5		
20	256QAM	1	1	19.41	19.23	18.99	19.5	4.5		
Channel				16430	16630	16830	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				16430	16630	16830				
15	PI/2 BPSK	1	1	23.12	23.01	22.77	24.0	0.0		
Channel				16380	16630	16880	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				16380	16630	16880				
10	PI/2 BPSK	1	1	23.15	23.08	22.88	24.0	0.0		
Channel				16330	16630	16930	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				16330	16630	16930				
5	PI/2 BPSK	1	1	23.08	22.99	22.78	24.0	0.0		

n30_Ant 2 (DS14)										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				46150	46300	46500				
Frequency (MHz)				46150	46300	46500				
10	PI/2 BPSK	1	1	23.12						
10	PI/2 BPSK	1	26		22.98		24.0	0.0		
10	PI/2 BPSK	1	50		23.10					
10	PI/2 BPSK	25	0		23.04		24.0	0.0		
10	PI/2 BPSK	25	13		22.95		24.0	0.0		
10	PI/2 BPSK	25	26		22.98		24.0	0.0		
10	PI/2 BPSK	50	0		23.06					
10	QPSK	1	1		23.07					
10	QPSK	1	26		22.89		24.0	0.0		
10	QPSK	1	50		23.06					
10	QPSK	25	0		22.51		24.0	0.0		
10	QPSK	25	13		22.98		24.0	0.0		
10	QPSK	25	26		22.94		24.0	0.0		
10	QPSK	50	0		22.51					
10	16QAM	1	1		22.34		23.0	1.0		
10	64QAM	1	1		20.83		21.5	2.5		
10	256QAM	1	1		18.78		19.5	4.5		
Channel				46150	46300	46350	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				46150	46300	46350				
5	PI/2 BPSK	1	1	23.00	22.98	23.06	24.0	0.0		



n66_Ant 2 (DS14)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 346000	Power Middle Ch. / Freq. 349000	Power High Ch. / Freq. 352000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI/2 BPSK	1	1	23.23	23.16	23.15			
40	PI/2 BPSK	1	108	23.25	23.18	23.12	24.0	0.0	
40	PI/2 BPSK	1	214	23.19	23.14	23.10			
40	PI/2 BPSK	108	0	22.22	22.19	22.16	23.5	0.5	
40	PI/2 BPSK	108	54	23.27	23.19	23.16	24.0	0.0	
40	PI/2 BPSK	108	108	22.42	22.39	22.11	23.5	0.5	
40	PI/2 BPSK	216	0	22.25	22.19	22.16			
40	QPSK	1	1	23.06	23.04	23.05			
40	QPSK	1	108	23.12	23.14	23.11	24.0	0.0	
40	QPSK	1	214	23.10	23.05	23.02			
40	QPSK	108	0	21.73	21.64	21.67	23.0	1.0	
40	QPSK	108	54	23.26	23.20	23.17	24.0	0.0	
40	QPSK	108	108	21.90	21.75	21.65	23.0	1.0	
40	QPSK	216	0	21.88	21.69	21.62			
40	16QAM	1	1	21.72	21.67	21.62	23.0	1.0	
40	64QAM	1	1	20.36	20.30	20.35	21.5	2.5	
40	256QAM	1	1	18.31	18.23	18.19	19.5	4.5	
Channel									
Frequency (MHz)									
30	PI/2 BPSK	1	1	23.05	23.25	23.05	24.0	0.0	
Channel									
Frequency (MHz)									
20	PI/2 BPSK	1	1	34500	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	PI/2 BPSK	1	1	23.20	23.25	23.14	24.0	0.0	
Channel									
Frequency (MHz)									
10	PI/2 BPSK	1	1	23.22	23.17	23.20	24.0	0.0	
Channel									
Frequency (MHz)									
5	PI/2 BPSK	1	1	23.09	23.08	23.16	24.0	0.0	

n71_Ant 2 (DS12,DS13,DS14,DS16)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 134500	Power Middle Ch. / Freq. 136100	Power High Ch. / Freq. 137600	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI/2 BPSK	1	1	23.35	23.10	22.95			
20	PI/2 BPSK	1	53	23.05	22.92	22.76	24.0	0.0	
20	PI/2 BPSK	1	104	22.97	22.68	22.43			
20	PI/2 BPSK	50	0	22.12	21.88	21.79	23.5	0.5	
20	PI/2 BPSK	50	28	23.00	22.87	22.64	23.5	0.5	
20	PI/2 BPSK	50	56	21.91	21.66	21.52	23.5	0.5	
20	PI/2 BPSK	100	0	22.03	21.93	21.84			
20	QPSK	1	1	23.13	23.03	22.86			
20	QPSK	1	53	22.89	22.83	22.68	24.0	0.0	
20	QPSK	1	104	22.78	22.65	22.38			
20	QPSK	50	0	21.52	21.39	21.30	23.0	1.0	
20	QPSK	50	28	23.05	22.93	22.84	23.5	0.5	
20	QPSK	50	56	21.42	21.17	21.02	23.0	1.0	
20	QPSK	100	0	21.52	21.44	21.14			
20	16QAM	1	1	21.93	21.82	21.65	23.0	1.0	
20	64QAM	1	1	20.22	20.10	19.97	21.5	2.5	
20	256QAM	1	1	18.41	18.32	18.16	19.5	4.5	
Channel									
Frequency (MHz)									
15	PI/2 BPSK	1	1	23.33	23.05	22.81	24.0	0.0	
Channel									
Frequency (MHz)									
10	PI/2 BPSK	1	1	23.32	23.04	22.83	24.0	0.0	
Channel									
Frequency (MHz)									
5	PI/2 BPSK	1	1	23.30	22.89	22.67	24.0	0.0	



n77_FCC_Ant 4 (DS12,DS14)									
BW [MHz]	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	65000			
Frequency (MHz)				3750	3840	3930			
100	Pi/2 BPSK	1	1	23.12	23.06	22.96			
100	Pi/2 BPSK	1	137	23.31	23.08	22.76	24.0	0.0	
100	Pi/2 BPSK	1	271	23.26	22.85	22.64			
100	Pi/2 BPSK	135	0	22.64	22.44	22.27			
100	Pi/2 BPSK	135	69	23.26	23.06	22.74	24.0	0.0	
100	Pi/2 BPSK	135	138	22.71	22.37	22.23			
100	Pi/2 BPSK	270	0	22.67	22.35	22.19	23.5	0.5	
100	QPSK	1	1	23.08	23.01	22.78			
100	QPSK	1	137	23.28	22.73	22.51	24.0	0.0	
100	QPSK	1	271	23.06	22.29	22.24			
100	QPSK	135	0	22.16	22.06	22.01			
100	QPSK	135	69	23.21	22.85	22.21	24.0	0.0	
100	QPSK	135	138	22.18	22.19	22.13			
100	QPSK	270	0	22.21	22.03	22.13	23.0	1.0	
100	16QAM	1	1	22.21	22.16	21.86	23.0	1.0	
100	64QAM	1	1	20.57	20.43	19.86	21.5	2.5	
100	256QAM	1	1	18.94	18.72	18.42	19.5	4.5	
Channel				648668	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	Pi/2 BPSK	1	1	23.01	23.03	22.71	24.0	0.0	
Channel				648668	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	Pi/2 BPSK	1	1	23.15	23.12	22.81	24.0	0.0	
Channel				648300	650000	650600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	Pi/2 BPSK	1	1	23.15	23.22	23.02	24.0	0.0	
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	Pi/2 BPSK	1	1	23.19	23.08	22.98	24.0	0.0	
Channel				647334	650000	656668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	Pi/2 BPSK	1	1	23.01	23.22	23.02	24.0	0.0	

n78_FCC_Ant 4 (DS12,DS14)									
BW [MHz]	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	650000			
Frequency (MHz)				3750	3750	3750			
100	Pi/2 BPSK	1	1		22.98				
100	Pi/2 BPSK	1	137		23.09		24.0	0.0	
100	Pi/2 BPSK	1	271		22.77				
100	Pi/2 BPSK	135	0		22.56				
100	Pi/2 BPSK	135	69		22.95		24.0	0.0	
100	Pi/2 BPSK	135	138		22.46				
100	Pi/2 BPSK	270	0		22.39		23.5	0.5	
100	QPSK	1	1		22.91				
100	QPSK	1	137		22.94		24.0	0.0	
100	QPSK	1	271		22.57				
100	QPSK	135	0		22.41				
100	QPSK	135	69		22.97		24.0	0.0	
100	QPSK	135	138		22.38				
100	QPSK	270	0		22.03		23.0	1.0	
100	16QAM	1	1		22.12		23.0	1.0	
100	64QAM	1	1		20.43		21.5	2.5	
100	256QAM	1	1		18.64		19.5	4.5	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	Pi/2 BPSK	1	1	22.99	22.91	22.82	24.0	0.0	
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	Pi/2 BPSK	1	1	22.96	22.82	22.83	24.0	0.0	
Channel				648000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	Pi/2 BPSK	1	1	22.94	23.00	22.97	24.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	Pi/2 BPSK	1	1	23.01	23.04	23.05	24.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	Pi/2 BPSK	1	1	23.06	23.08	23.02	24.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	Pi/2 BPSK	1	1	23.03	23.05	23.01	24.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	Pi/2 BPSK	1	1	22.99	23.01	23.08	24.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	Pi/2 BPSK	1	1	22.97	23.07	23.05	24.0	0.0	



DSI2_standalone for Head for UAT

n2_Ant 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				1860	1880	1900			
Frequency (MHz)				1860	1880	1900			
20	Pi/2 BPSK	1	1	14.53	14.77	14.65	15.7	0.0	
20	Pi/2 BPSK	1	53	14.20	14.53	14.75			
20	Pi/2 BPSK	1	104	14.21	14.64	14.83			
20	Pi/2 BPSK	50	0	14.52	14.52	14.75	15.7	0.0	
20	Pi/2 BPSK	50	28	14.54	14.48	14.75	15.7	0.0	
20	Pi/2 BPSK	50	56	14.50	14.58	14.70			
20	Pi/2 BPSK	100	0	14.20	14.52	14.72	15.7	0.0	
20	QPSK	1	1	14.63	14.41	14.98			
20	QPSK	1	53	14.62	14.43	14.85	15.7	0.0	
20	QPSK	1	104	14.61	14.81	14.76			
20	QPSK	50	0	14.55	14.50	14.65	15.7	0.0	
20	QPSK	50	28	14.23	14.51	14.75	15.7	0.0	
20	QPSK	50	56	14.52	14.55	14.72	15.7	0.0	
20	QPSK	100	0	14.56	14.46	14.68			
20	16QAM	1	1	14.70	14.50	14.66	15.7	0.0	
20	64QAM	1	1	14.46	14.42	14.32	15.7	0.0	
20	256QAM	1	1	14.21	14.59	14.71	15.7	0.0	
Channel				37500	37500	38500	Tune-up limit (dB)	MPR	
Frequency (MHz)				1857.5	1880	1902.5			
15	Pi/2 BPSK	1	1	14.33	14.66	14.51	15.7	0.0	
Channel				371000	376000	381000	Tune-up limit (dB)	MPR	
Frequency (MHz)				1852	1850	1805			
10	Pi/2 BPSK	1	1	14.43	14.07	14.63	15.7	0.0	
Channel				370500	376000	381500	Tune-up limit (dB)	MPR	
Frequency (MHz)				1852.5	1880	1907.5			
5	Pi/2 BPSK	1	1	14.54	14.62	14.62	15.7	0.0	

n5_Ant 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				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	Pi/2 BPSK	1	1	22.38	22.29	22.36	23.3	0.0	
20	Pi/2 BPSK	1	53	22.04	22.21	21.97			
20	Pi/2 BPSK	1	104	21.76	21.45	21.50			
20	Pi/2 BPSK	50	0	22.28	22.00	22.02	23.3	0.0	
20	Pi/2 BPSK	50	28	22.11	21.85	21.87	23.3	0.0	
20	Pi/2 BPSK	50	56	21.90	21.71	21.70			
20	Pi/2 BPSK	100	0	22.10	21.96	21.92	23.3	0.0	
20	QPSK	1	1	22.37	22.30	22.20			
20	QPSK	1	53	22.20	21.98	21.91	23.3	0.0	
20	QPSK	1	104	21.84	21.73	21.83			
20	QPSK	50	0	22.29	22.05	22.03	23.3	0.0	
20	QPSK	50	28	22.10	22.03	21.88	23.3	0.0	
20	QPSK	50	56	21.94	21.90	21.74			
20	QPSK	100	0	22.14	22.12	21.92	23.3	0.0	
20	16QAM	1	1	22.16	22.07	21.80	23.3	0.0	
20	64QAM	1	1	21.10	21.02	20.95	21.5	1.8	
20	256QAM	1	1	18.91	18.77	18.72	19.5	3.8	
Channel				165300	167300	169300	Tune-up limit (dB)	MPR	
Frequency (MHz)				831.5	836.5	841.5			
15	Pi/2 BPSK	1	1	22.26	22.29	22.30	23.3	0.0	
Channel				165800	167300	168800	Tune-up limit (dB)	MPR	
Frequency (MHz)				829	833.3	844			
10	Pi/2 BPSK	1	1	22.19	22.13	22.17	23.3	0.0	
Channel				165300	167300	169300	Tune-up limit (dB)	MPR	
Frequency (MHz)				826.5	836.5	846.5			
5	Pi/2 BPSK	1	1	22.27	22.16	22.26	23.3	0.0	

n25_Ant 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				375000	376500	379500			
Frequency (MHz)				1870	1882.5	1895			
40	Pi/2 BPSK	1	1	14.68	14.78	14.54			
40	Pi/2 BPSK	1	108	14.62	14.52	14.50	15.7	0.0	
40	Pi/2 BPSK	1	214	14.53	14.60	14.54			
40	Pi/2 BPSK	108	0	14.33	14.47	14.35	15.7	0.0	
40	Pi/2 BPSK	108	54	14.43	14.48	14.41	15.7	0.0	
40	Pi/2 BPSK	108	108	14.42	14.48	14.34			
40	Pi/2 BPSK	216	0	14.54	14.55	14.50	15.7	0.0	
40	QPSK	1	1	14.72	14.59	14.65			
40	QPSK	1	108	14.54	14.45	14.50	15.7	0.0	
40	QPSK	1	214	14.53	14.54	14.37			
40	QPSK	108	0	14.45	14.55	14.53	15.7	0.0	
40	QPSK	108	54	14.47	14.53	14.42	15.7	0.0	
40	QPSK	108	108	14.45	14.59	14.65			
40	QPSK	216	0	14.48	14.80	14.75	15.7	0.0	
40	16QAM	1	1	14.51	14.78	14.71	15.7	0.0	
40	64QAM	1	1	14.59	14.50	14.48	15.7	0.0	
40	256QAM	1	1	14.49	14.67	14.63	15.7	0.0	
Channel				375000	376500	380500	Tune-up limit (dB)	MPR	
Frequency (MHz)				1865	1882.5	1900			
30	Pi/2 BPSK	1	1	14.50	14.71	14.72	15.7	0.0	
Channel				372500	376500	380500	Tune-up limit (dB)	MPR	
Frequency (MHz)				1862.5	1882.5	1902.5			
25	Pi/2 BPSK	1	1	14.62	14.65	14.59	16.5	0.0	
Channel				372000	376500	381000	Tune-up limit (dB)	MPR	
Frequency (MHz)				1860	1882.5	1905			
20	Pi/2 BPSK	1	1	14.74	14.62	14.69	16.5	0.0	
Channel				371000	376500	381000	Tune-up limit (dB)	MPR	
Frequency (MHz)				1857.5	1882.5	1907.5			
15	Pi/2 BPSK	1	1	14.73	14.77	14.37	15.7	0.0	
Channel				371000	376500	382000	Tune-up limit (dB)	MPR	
Frequency (MHz)				1855	1882.5	1910			
10	Pi/2 BPSK	1	1	14.73	14.60	14.74	15.7	0.0	
Channel				370500	376500	382500	Tune-up limit (dB)	MPR	
Frequency (MHz)				1852.5	1882.5	1912.5			
5	Pi/2 BPSK	1	1	14.76	14.59	14.35	15.7	0.0	



n26_Ant 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				164500	166300	167600			
Frequency (MHz)				824	831.5	839			
20	PI2 BPSK	1	1	22.42	22.24	22.20			
20	PI2 BPSK	1	53	21.94	21.77	21.56	23.3	0.0	
20	PI2 BPSK	1	104	21.72	21.51	21.49			
20	PI2 BPSK	50	0	22.24	22.14	22.00	23.3	0.0	
20	PI2 BPSK	50	28	22.04	21.84	21.63			
20	PI2 BPSK	50	56	21.90	21.63	21.60	23.3	0.0	
20	PI2 BPSK	100	0	22.09	21.86	21.69			
20	QPSK	1	1	22.22	22.05	22.20			
20	QPSK	1	53	21.73	21.79	21.79	23.3	0.0	
20	QPSK	1	104	21.77	21.68	21.71			
20	QPSK	50	0	22.13	22.03	21.88	23.3	0.0	
20	QPSK	50	28	21.85	21.82	21.87			
20	QPSK	50	56	21.73	21.79	21.80	23.3	0.0	
20	QPSK	100	0	22.01	21.85	21.86			
20	16QAM	1	1	22.14	21.88	22.08	23.3	0.0	
20	64QAM	1	1	21.26	21.07	20.89	21.5	1.8	
20	256QAM	1	1	19.41	19.23	18.89	19.5	3.8	
Channel				163300	166300	168000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				821.5	831.5	841.5			
15	PI2 BPSK	1	1	22.41	22.36	22.27	23.3	0.0	
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR	
Frequency (MHz)				819	831.5	841			
10	PI2 BPSK	1	1	22.34	22.23	22.11	23.3	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR	
Frequency (MHz)				816.5	831.5	846.5			
5	PI2 BPSK	1	1	22.28	22.05	22.17	23.3	0.0	

n30_Ant 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				462000	462000				
Frequency (MHz)				2310					
10	PI2 BPSK	1	1	16.63					
10	PI2 BPSK	1	26	16.61			17.5	0.0	
10	PI2 BPSK	1	50	16.51					
10	PI2 BPSK	25	0	16.54			17.5	0.0	
10	PI2 BPSK	25	13	16.53					
10	PI2 BPSK	25	26	16.47			17.5	0.0	
10	PI2 BPSK	50	0	16.45					
10	QPSK	1	1	16.51					
10	QPSK	1	26	16.42			17.5	0.0	
10	QPSK	1	50	16.55					
10	QPSK	25	0	16.36			17.5	0.0	
10	QPSK	25	13	16.45					
10	QPSK	25	26	16.53			17.5	0.0	
10	QPSK	50	0	16.42					
10	16QAM	1	1	16.32			17.5	0.0	
10	64QAM	1	1	16.23			17.5	0.0	
10	256QAM	1	1	16.45			17.5	0.0	
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2307.5	2310	2312.5			
5	PI2 BPSK	1	1	16.28	16.46	16.44	17.5	0.0	

n66_Ant 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				345000	345000	345000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	15.26	15.22	15.20			
40	PI2 BPSK	1	108	15.36	15.24	15.21	16.1	0.0	
40	PI2 BPSK	1	214	15.31	15.22	15.18			
40	PI2 BPSK	108	0	15.14	15.12	15.08	16.1	0.0	
40	PI2 BPSK	108	54	15.19	15.17	15.11	16.1	0.0	
40	PI2 BPSK	108	108	15.18	15.17	15.10	16.1	0.0	
40	PI2 BPSK	216	0	15.15	15.03	15.14	16.1	0.0	
40	QPSK	1	1	15.39	15.25	15.08			
40	QPSK	1	108	15.32	15.19	14.99	16.1	0.0	
40	QPSK	1	214	15.08	15.14	15.22			
40	QPSK	108	0	15.31	15.23	15.34	16.1	0.0	
40	QPSK	108	54	15.07	15.26	15.28	16.1	0.0	
40	QPSK	108	108	15.27	15.31	15.15			
40	QPSK	216	0	15.16	15.23	15.21	16.1	0.0	
40	16QAM	1	1	15.04	15.23	15.21	16.1	0.0	
40	64QAM	1	1	15.10	15.28	15.28	16.1	0.0	
40	256QAM	1	1	15.23	15.27	15.17	16.1	0.0	
Channel				345000	345000	345000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1725	1745	1765			
30	PI2 BPSK	1	1	15.31	15.21	15.03	16.1	0.0	
Channel				#REF!	345000	#REF!	Tune-up limit (dBm)	MPR	
Frequency (MHz)				#REF!	1745	#REF!			
20	PI2 BPSK	1	1	15.24	15.24	15.03	16.1	0.0	
Channel				343500	345000	345500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1717.5	1745	1772.5			
15	PI2 BPSK	1	1	15.13	15.33	15.31	16.1	0.0	
Channel				343500	345000	350000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1715	1745	1775			
10	PI2 BPSK	1	1	15.28	15.18	15.19	16.1	0.0	
Channel				342500	345000	355500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1712.5	1745	1777.5			
5	PI2 BPSK	1	1	15.28	15.04	15.09	16.1	0.0	



DS12_Sim-Tx for Head for UAT

n2_Ant 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				37200	37600	38000			
Frequency (MHz)				1860	1880	1900			
20	Pi/2 BPSK	1	1	13.10	13.30	13.07	14.4	0.0	
20	Pi/2 BPSK	1	53	13.10	13.07	13.27			
20	Pi/2 BPSK	1	104	13.03	13.10	13.24			
20	Pi/2 BPSK	50	0	13.10	13.07	13.16	14.4	0.0	
20	Pi/2 BPSK	50	28	13.08	13.06	13.21			
20	Pi/2 BPSK	50	56	13.06	13.11	13.16			
20	Pi/2 BPSK	100	0	13.03	13.11	13.17	14.4	0.0	
20	QPSK	1	1	13.12	13.00	13.13			
20	QPSK	1	53	13.12	12.98	13.20	14.4	0.0	
20	QPSK	1	104	13.08	13.07	13.27			
20	QPSK	50	0	13.07	13.08	13.13	14.4	0.0	
20	QPSK	50	28	13.08	13.08	13.23			
20	QPSK	50	56	13.02	13.15	13.27	14.4	0.0	
20	QPSK	100	0	13.10	13.10	13.27			
20	16QAM	1	1	13.10	13.10	13.17	14.4	0.0	
20	64QAM	1	1	12.95	13.04	12.89	14.4	0.0	
20	256QAM	1	1	13.14	13.15	13.24	14.4	0.0	
Channel				37200	37200	38050	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5	14.4	0.0	
15	Pi/2 BPSK	1	1	12.98	13.21	13.04	14.4	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852	1890	1900	14.4	0.0	
10	Pi/2 BPSK	1	1	13.20	13.13	12.99	14.4	0.0	
Channel				370200	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5	14.4	0.0	
5	Pi/2 BPSK	1	1	13.04	13.29	12.90	14.4	0.0	

n5_Ant 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				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	Pi/2 BPSK	1	1	21.45	21.43	21.35	22.5	0.0	
20	Pi/2 BPSK	1	53	21.03	21.23	21.00			
20	Pi/2 BPSK	1	104	20.71	20.55	20.68			
20	Pi/2 BPSK	50	0	21.24	21.12	21.22	22.5	0.0	
20	Pi/2 BPSK	50	28	21.10	21.03	21.05			
20	Pi/2 BPSK	50	56	20.89	20.85	20.89	22.5	0.0	
20	Pi/2 BPSK	100	0	21.15	21.12	21.13			
20	QPSK	1	1	21.44	21.33	21.40			
20	QPSK	1	53	21.21	21.14	21.05	22.5	0.0	
20	QPSK	1	104	20.85	20.84	20.76			
20	QPSK	50	0	21.32	21.24	21.27	22.5	0.0	
20	QPSK	50	28	21.11	21.04	21.08			
20	QPSK	50	56	20.91	20.92	20.90	22.5	0.0	
20	QPSK	100	0	21.11	21.07	21.09			
20	16QAM	1	1	21.10	21.30	21.38	22.5	0.0	
20	64QAM	1	1	21.10	21.02	20.95	21.5	1.0	
20	256QAM	1	1	18.91	18.77	18.72	19.5	3.0	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5	22.5	0.0	
15	Pi/2 BPSK	1	1	21.07	21.19	21.08	22.5	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	833.3	844	22.5	0.0	
10	Pi/2 BPSK	1	1	20.98	21.18	21.05	22.5	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5	22.5	0.0	
5	Pi/2 BPSK	1	1	21.19	21.42	21.02	22.5	0.0	

n12_Ant 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				141300	141500	141700			
Frequency (MHz)				706.5	707.5	708.5			
15	Pi/2 BPSK	1	1	22.60	22.40	22.19	23.5	0.0	
15	Pi/2 BPSK	1	40	22.31	22.21	22.00			
15	Pi/2 BPSK	1	77	22.13	21.85	21.79			
15	Pi/2 BPSK	36	0	22.31	22.27	22.06	23.5	0.0	
15	Pi/2 BPSK	36	22	22.24	22.05	22.02			
15	Pi/2 BPSK	36	43	22.09	21.99	21.89	23.5	0.0	
15	Pi/2 BPSK	75	0	22.25	22.17	22.15			
15	QPSK	1	1	22.50	22.54	22.48			
15	QPSK	1	40	22.51	22.35	22.40	23.5	0.0	
15	QPSK	1	77	22.26	22.11	22.25			
15	QPSK	36	0	22.43	22.50	22.39	23.5	0.0	
15	QPSK	36	22	22.38	22.34	22.35			
15	QPSK	36	43	22.42	22.22	22.17	23.5	0.0	
15	QPSK	75	0	22.29	22.43	22.51			
15	16QAM	1	1	22.38	22.43	22.47	23.5	0.0	
15	64QAM	1	1	20.91	20.87	20.81	21.5	2.0	
15	256QAM	1	1	18.83	18.76	18.72	19.5	4.0	
Channel				140200	141500	142000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				704	707.5	711	23.5	0.0	
10	Pi/2 BPSK	1	1	22.43	22.33	22.00	23.5	0.0	
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5	23.5	0.0	
5	Pi/2 BPSK	1	1	22.23	22.06	22.10	23.5	0.0	



n25_Ant 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										
Frequency (MHz)				1870	1882.5	1885				
40	PI2 BPSK	1	1	13.11	13.31	13.01				
40	PI2 BPSK	1	108	12.97	13.00	12.86	14.4	0.0		
40	PI2 BPSK	1	214	12.87	13.05	12.85				
40	PI2 BPSK	108	0	13.04	13.07	12.92	14.4	0.0		
40	PI2 BPSK	108	54	13.08	13.15	12.93	14.4	0.0		
40	PI2 BPSK	108	108	13.01	13.11	12.92				
40	PI2 BPSK	216	0	13.03	13.08	13.01	14.4	0.0		
40	QPSK	1	1	13.13	13.02	12.88				
40	QPSK	1	108	13.08	13.02	13.03	14.4	0.0		
40	QPSK	1	214	13.08	13.05	13.05				
40	QPSK	108	0	13.11	13.02	13.10	14.4	0.0		
40	QPSK	108	54	12.99	13.00	13.13	14.4	0.0		
40	QPSK	108	108	13.04	13.10	13.06				
40	QPSK	216	0	13.01	13.08	13.13	14.4	0.0		
40	16QAM	1	1	12.94	13.08	13.09	14.4	0.0		
40	64QAM	1	1	13.19	13.10	12.96	14.4	0.0		
40	256QAM	1	1	13.14	13.17	13.09	14.4	0.0		
Channel				37200	37650	38000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1865	1882.5	1900				
30	PI2 BPSK	1	1	13.03	13.08	12.95	14.4	0.0		
Channel				372500	376500	380500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1892.5	1892.5	1892.5				
25	PI2 BPSK	1	1	12.89	12.99	13.00	14.4	0.0		
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1860	1882.5	1905				
20	PI2 BPSK	1	1	13.12	12.90	12.99	14.4	0.0		
Channel				371000	376500	381000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1857.5	1882.5	1927.5				
15	PI2 BPSK	1	1	12.85	12.92	13.09	14.4	0.0		
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1855	1892.5	1910				
10	PI2 BPSK	1	1	13.12	12.96	13.09	14.4	0.0		
Channel				370500	376500	382000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1852.5	1882.5	1912.5				
5	PI2 BPSK	1	1	12.85	12.81	12.81	14.4	0.0		

n26_Ant 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										
Frequency (MHz)				824	831.5	839				
20	PI2 BPSK	1	1	21.48	21.34	21.38				
20	PI2 BPSK	1	53	20.91	20.75	20.60	22.5	0.0		
20	PI2 BPSK	1	104	20.70	20.55	20.50				
20	PI2 BPSK	50	0	21.40	21.34	21.30	22.5	0.0		
20	PI2 BPSK	50	28	20.98	20.82	20.87	22.5	0.0		
20	PI2 BPSK	50	56	20.87	20.83	20.58				
20	PI2 BPSK	100	0	21.08	20.84	20.68	22.5	0.0		
20	QPSK	1	1	21.05	21.12	21.19				
20	QPSK	1	53	20.71	20.82	20.77	22.5	0.0		
20	QPSK	1	104	20.41	20.59	20.58				
20	QPSK	50	0	21.11	21.05	21.22	22.5	0.0		
20	QPSK	50	28	20.92	20.84	20.95	22.5	0.0		
20	QPSK	50	56	20.73	20.77	20.71				
20	QPSK	100	0	21.01	20.88	21.00	22.5	0.0		
20	16QAM	1	1	21.18	21.02	21.19	22.5	0.0		
20	64QAM	1	1	21.26	21.07	20.89	21.5	1.0		
20	256QAM	1	1	19.41	19.23	18.99	19.5	3.0		
Channel				16300	16600	16800	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				821.5	831.5	841.5				
15	PI2 BPSK	1	1	21.40	21.17	21.17	22.5	0.0		
Channel				163800	166800	168800	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				810	831.5	841.5				
10	PI2 BPSK	1	1	21.37	21.44	21.15	22.5	0.0		
Channel				163000	166800	169000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				816.5	831.5	846.5				
5	PI2 BPSK	1	1	21.32	21.30	21.36	22.5	0.0		

n30_Ant 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										
Frequency (MHz)				2310						
10	PI2 BPSK	1	1		15.90					
10	PI2 BPSK	1	26		15.72		16.7	0.0		
10	PI2 BPSK	1	50		15.65					
10	PI2 BPSK	25	0		15.73		16.7	0.0		
10	PI2 BPSK	25	13		15.62		16.7	0.0		
10	PI2 BPSK	25	26		15.71					
10	PI2 BPSK	50	0		15.92		16.7	0.0		
10	QPSK	1	1		15.71					
10	QPSK	1	26		15.88		16.7	0.0		
10	QPSK	1	50		15.69					
10	QPSK	25	0		15.86		16.7	0.0		
10	QPSK	25	13		15.87		16.7	0.0		
10	QPSK	25	26		15.78					
10	QPSK	50	0		15.76		16.7	0.0		
10	16QAM	1	1		15.61		16.7	0.0		
10	64QAM	1	1		15.69		16.7	0.0		
10	256QAM	1	1		15.73		16.7	0.0		
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2307.5	2310	2312.5				
5	PI2 BPSK	1	1	15.80	15.67	15.89	16.7	0.0		



n66_Ant 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				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	14.42	14.36	14.31		
40	PI/2 BPSK	1	108	14.27	14.59	14.48	15.3	0.0
40	PI/2 BPSK	1	214	14.49	14.44	14.43		
40	PI/2 BPSK	108	0	14.43	14.35	14.32	15.3	0.0
40	PI/2 BPSK	108	54	14.55	14.52	14.45	15.3	0.0
40	PI/2 BPSK	108	108	14.45	14.35	14.34		
40	PI/2 BPSK	216	0	14.41	14.34	14.37	15.3	0.0
40	QPSK	1	1	14.25	14.24	14.04		
40	QPSK	1	108	14.34	14.29	14.34	15.3	0.0
40	QPSK	1	214	14.14	14.21	14.12		
40	QPSK	108	0	14.27	14.24	14.35	15.3	0.0
40	QPSK	108	54	14.20	14.34	14.20	15.3	0.0
40	QPSK	108	108	14.26	14.32	14.24	15.3	0.0
40	QPSK	216	0	14.22	14.23	14.12		
40	16QAM	1	1	14.27	14.20	14.25	15.3	0.0
40	64QAM	1	1	14.22	14.25	14.14	15.3	0.0
40	256QAM	1	1	14.32	14.22	14.09	15.3	0.0
Channel				345000	349000	353000	Tune-up limit	MPR
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)
30	PI/2 BPSK	1	1	14.02	13.97	14.12	15.3	0.0
Channel				344000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	PI/2 BPSK	1	1	14.16	14.19	14.28	15.3	0.0
Channel				343000	349000	354500	Tune-up limit	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	PI/2 BPSK	1	1	14.04	14.02	14.31	15.3	0.0
Channel				342000	349000	355000	Tune-up limit	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	PI/2 BPSK	1	1	14.26	14.17	14.02	15.3	0.0
Channel				342500	349000	355500	Tune-up limit	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	PI/2 BPSK	1	1	14.25	14.07	14.05	15.3	0.0



DSI3 for body worn for UAT

n2_Ant 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									
Frequency (MHz)				1880	1880	1900			
20	Pi/2 BPSK	1	1	18.00	18.27	18.07	17.1	0.0	
20	Pi/2 BPSK	1	53	18.01	18.01	18.24			
20	Pi/2 BPSK	1	104	18.02	18.05	18.24			
20	Pi/2 BPSK	50	0	18.07	15.95	18.13	17.1	0.0	
20	Pi/2 BPSK	50	28	18.07	15.95	18.25			
20	Pi/2 BPSK	50	56	18.03	18.03	18.20			
20	Pi/2 BPSK	100	0	18.09	18.01	18.23	17.1	0.0	
20	QPSK	1	1	18.20	15.96	18.12			
20	QPSK	1	53	18.12	15.91	18.25	17.1	0.0	
20	QPSK	1	104	18.09	15.96	18.21			
20	QPSK	50	0	18.05	15.99	18.12	17.1	0.0	
20	QPSK	50	28	18.08	15.92	18.22	17.1	0.0	
20	QPSK	50	56	18.02	18.02	18.22			
20	QPSK	100	0	18.05	18.00	18.22	17.1	0.0	
20	16QAM	1	1	18.17	18.07	18.20	17.1	0.0	
20	64QAM	1	1	18.90	18.93	18.82	17.1	0.0	
20	256QAM	1	1	18.25	18.09	18.18	17.1	0.0	
Channel									
Frequency (MHz)				37000	37000	38000	Tune-up limit (dB)	MPR (dB)	
15	Pi/2 BPSK	1	1	18.00	15.99	18.04	17.1	0.0	
Channel									
Frequency (MHz)				371000	376000	381000	Tune-up limit (dB)	MPR (dB)	
10	Pi/2 BPSK	1	1	18.03	18.00	18.03	17.1	0.0	
Channel									
Frequency (MHz)				370500	376000	381500	Tune-up limit (dB)	MPR (dB)	
5	Pi/2 BPSK	1	1	18.52.5	18.80	19.07.5	17.1	0.0	

n25_Ant 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									
Frequency (MHz)				1870	1882.5	1895			
40	Pi/2 BPSK	1	1	18.12	18.29	18.20			
40	Pi/2 BPSK	1	108	18.03	18.16	18.17	17.1	0.0	
40	Pi/2 BPSK	1	214	18.11	18.23	18.14			
40	Pi/2 BPSK	108	0	15.88	15.96	15.94	17.1	0.0	
40	Pi/2 BPSK	108	54	15.80	18.11	15.88	17.1	0.0	
40	Pi/2 BPSK	108	108	15.77	18.00	15.88			
40	Pi/2 BPSK	216	0	15.81	18.07	18.02	17.1	0.0	
40	QPSK	1	1	18.15	18.05	18.05			
40	QPSK	1	108	18.19	15.98	18.03	17.1	0.0	
40	QPSK	1	214	18.13	18.05	18.21			
40	QPSK	108	0	18.13	18.04	18.04	17.1	0.0	
40	QPSK	108	54	18.08	18.03	18.09	17.1	0.0	
40	QPSK	108	108	18.18	18.09	18.15			
40	QPSK	216	0	15.83	18.11	18.21	17.1	0.0	
40	16QAM	1	1	18.17	18.17	18.20	17.1	0.0	
40	64QAM	1	1	18.15	18.00	18.83	17.1	0.0	
40	256QAM	1	1	18.10	18.20	18.03	17.1	0.0	
Channel									
Frequency (MHz)				372000	376500	380000	Tune-up limit (dB)	MPR (dB)	
30	Pi/2 BPSK	1	1	15.83	18.26	15.98	17.1	0.0	
Channel									
Frequency (MHz)				372500	376500	380500	Tune-up limit (dB)	MPR (dB)	
25	Pi/2 BPSK	1	1	18.05	18.21	18.13	17.1	0.0	
Channel									
Frequency (MHz)				372000	376500	381000	Tune-up limit (dB)	MPR (dB)	
20	Pi/2 BPSK	1	1	18.22	18.14	18.17	17.1	0.0	
Channel									
Frequency (MHz)				371500	376500	381500	Tune-up limit (dB)	MPR (dB)	
15	Pi/2 BPSK	1	1	18.01	18.20	18.09	17.1	0.0	
Channel									
Frequency (MHz)				371000	376500	382000	Tune-up limit (dB)	MPR (dB)	
10	Pi/2 BPSK	1	1	18.18	18.25	18.17	17.1	0.0	
Channel									
Frequency (MHz)				370500	376500	382500	Tune-up limit (dB)	MPR (dB)	
5	Pi/2 BPSK	1	1	18.94	18.86	18.84	17.1	0.0	

n30_Ant 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									
Frequency (MHz)				2310					
10	Pi/2 BPSK	1	1	17.59			18.4	0.0	
10	Pi/2 BPSK	1	26	17.28					
10	Pi/2 BPSK	1	50	17.35					
10	Pi/2 BPSK	25	0	17.58			18.4	0.0	
10	Pi/2 BPSK	25	13	17.21			18.4	0.0	
10	Pi/2 BPSK	25	26	17.33					
10	Pi/2 BPSK	50	0	17.53			18.4	0.0	
10	QPSK	1	1	17.21					
10	QPSK	1	26	17.32			18.4	0.0	
10	QPSK	1	50	17.30					
10	QPSK	25	0	17.16			18.4	0.0	
10	QPSK	25	13	17.28			18.4	0.0	
10	QPSK	25	26	17.38					
10	QPSK	50	0	17.30			18.4	0.0	
10	16QAM	1	1	17.14			18.4	0.0	
10	64QAM	1	1	17.07			18.4	0.0	
10	256QAM	1	1	17.37			18.4	0.0	
Channel									
Frequency (MHz)				481500	482000	482500	Tune-up limit (dB)	MPR (dB)	
5	Pi/2 BPSK	1	1	17.26	17.51	17.39	18.4	0.0	



n66_Ant 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				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	Pi/2 BPSK	1	1	18.10	18.08	15.97		
40	Pi/2 BPSK	1	108	18.20	18.13	16.10	16.9	0.0
40	Pi/2 BPSK	1	214	18.00	18.02	16.04		
40	Pi/2 BPSK	108	0	15.77	15.85	15.97	16.9	0.0
40	Pi/2 BPSK	108	54	16.14	16.09	16.06	16.9	0.0
40	Pi/2 BPSK	108	108	18.00	18.08	15.88	16.9	0.0
40	Pi/2 BPSK	216	0	18.10	18.02	16.00		
40	QPSK	1	1	18.03	18.07	16.13		
40	QPSK	1	108	16.06	16.04	16.12	16.9	0.0
40	QPSK	1	214	16.14	16.13	15.96		
40	QPSK	108	0	18.19	18.16	16.04	16.9	0.0
40	QPSK	108	54	18.14	18.08	15.88	16.9	0.0
40	QPSK	108	108	18.09	18.16	16.14	16.9	0.0
40	QPSK	216	0	15.94	16.14	16.17		
40	16QAM	1	1	16.17	16.14	15.96	16.9	0.0
40	64QAM	1	1	16.16	16.17	16.05	16.9	0.0
40	256QAM	1	1	15.92	16.10	16.13	16.9	0.0
Channel				342000	345000	348000	Tune-up limit	MPR
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)
30	Pi/2 BPSK	1	1	16.05	16.12	16.16	16.9	0.0
Channel				344000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	Pi/2 BPSK	1	1	16.10	16.15	15.97	15.9	0.0
Channel				343000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	Pi/2 BPSK	1	1	16.18	15.91	16.16	16.9	0.0
Channel				343000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	Pi/2 BPSK	1	1	16.11	16.15	15.96	16.9	0.0
Channel				342500	349000	355500	Tune-up limit	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	Pi/2 BPSK	1	1	16.06	15.98	16.04	16.9	0.0



n77_FCC_Ant 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				65000	65000	65000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	12.15	11.98	11.83		
100	PI/2 BPSK	1	137	12.38	12.20	12.16	13.3	0.0
100	PI/2 BPSK	1	271	12.23	11.67	11.50		
100	PI/2 BPSK	135	0	12.14	11.73	11.56		
100	PI/2 BPSK	135	69	12.25	12.08	12.00	13.3	0.0
100	PI/2 BPSK	135	138	12.15	11.88	11.52		
100	PI/2 BPSK	270	0	12.16	11.74	11.53	13.3	0.0
100	QPSK	1	1	11.53	11.58	11.74		
100	QPSK	1	137	11.86	11.75	11.60	13.3	0.0
100	QPSK	1	271	11.74	11.59	11.56		
100	QPSK	135	0	11.84	11.75	11.70		
100	QPSK	135	69	11.75	11.68	11.57	13.3	0.0
100	QPSK	135	138	11.71	11.58	11.70		
100	QPSK	270	0	11.74	11.62	11.67	13.3	0.0
100	16QAM	1	1	11.95	11.93	11.88	13.3	0.0
100	64QAM	1	1	12.27	12.10	12.23	13.3	0.0
100	256QAM	1	1	11.31	11.94	11.65	13.3	0.0
Channel				648668	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	PI/2 BPSK	1	1	12.30	12.17	11.80	13.3	0.0
Channel				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	PI/2 BPSK	1	1	12.08	12.16	11.59	13.3	0.0
Channel				648300	650000	649060	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	PI/2 BPSK	1	1	11.98	11.89	11.78	13.3	0.0
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	PI/2 BPSK	1	1	11.95	12.17	11.56	13.3	0.0
Channel				647334	650000	646668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	PI/2 BPSK	1	1	12.16	11.79	11.69	13.3	0.0

n78_FCC_Ant 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		12.29			
100	PI/2 BPSK	1	137		12.65		13.7	0.0
100	PI/2 BPSK	1	271		12.18			
100	PI/2 BPSK	135	0		12.57			
100	PI/2 BPSK	135	69		12.63		13.7	0.0
100	PI/2 BPSK	135	138		12.25			
100	PI/2 BPSK	270	0		12.59		13.7	0.0
100	QPSK	1	1		12.45			
100	QPSK	1	137		12.40		13.7	0.0
100	QPSK	1	271		12.25			
100	QPSK	135	0		12.45			
100	QPSK	135	69		12.33		13.7	0.0
100	QPSK	135	138		12.28			
100	QPSK	270	0		12.31		13.7	0.0
100	16QAM	1	1		12.43		13.7	0.0
100	64QAM	1	1		12.24		13.7	0.0
100	256QAM	1	1		12.35		13.7	0.0
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	PI/2 BPSK	1	1	12.25	12.04	12.17	13.7	0.0
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	PI/2 BPSK	1	1	12.48	12.03	12.38	13.7	0.0
Channel				648000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	PI/2 BPSK	1	1	12.26	12.10	12.39	13.7	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	PI/2 BPSK	1	1	12.41	12.13	12.34	13.7	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	PI/2 BPSK	1	1	12.34	12.17	12.30	13.7	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	PI/2 BPSK	1	1	12.57	12.12	12.18	13.7	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	PI/2 BPSK	1	1	12.50	12.26	12.51	13.7	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	PI/2 BPSK	1	1	12.51	11.98	12.34	13.7	0.0



DS13_Sim-Tx for Body-worn and Hotspot for UAT

n2_Ant 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				1860	1880	1900			
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	13.19	13.28	13.24	14.4	0.0	
20	PI2 BPSK	1	53	13.09	13.11	13.24			
20	PI2 BPSK	1	104	13.08	13.17	13.21			
20	PI2 BPSK	50	0	13.07	13.12	13.16	14.4	0.0	
20	PI2 BPSK	50	28	13.07	13.06	13.23			
20	PI2 BPSK	50	56	13.04	13.11	13.26	14.4	0.0	
20	PI2 BPSK	100	0	13.11	13.10	13.26			
20	QPSK	1	1	13.21	13.00	13.15			
20	QPSK	1	53	13.13	13.12	13.22	14.4	0.0	
20	QPSK	1	104	13.11	13.28	13.25			
20	QPSK	50	0	13.09	13.10	13.16	14.4	0.0	
20	QPSK	50	28	13.05	13.10	13.27			
20	QPSK	50	56	13.01	13.14	13.24	14.4	0.0	
20	QPSK	100	0	13.08	13.15	13.20			
20	16QAM	1	1	13.19	13.22	13.06	14.4	0.0	
20	64QAM	1	1	12.89	12.87	12.84	14.4	0.0	
20	256QAM	1	1	13.23	13.24	13.27	14.4	0.0	
Channel				37500	37600	38000	Tune-up limit (dB)	MPR	
Frequency (MHz)				1857.5	1880	1902.5			
15	PI2 BPSK	1	1	13.16	13.08	13.20	14.4	0.0	
Channel				371000	376000	381000	Tune-up limit (dB)	MPR	
Frequency (MHz)				1852	1890	1900			
10	PI2 BPSK	1	1	13.27	13.23	13.12	14.4	0.0	
Channel				370500	376000	381500	Tune-up limit (dB)	MPR	
Frequency (MHz)				1852.5	1880	1907.5			
5	PI2 BPSK	1	1	12.98	12.92	13.21	14.4	0.0	

n5_Ant 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				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	20.77	20.79	20.74	21.7	0.0	
20	PI2 BPSK	1	53	20.33	20.50	20.24			
20	PI2 BPSK	1	104	20.00	20.16	19.92			
20	PI2 BPSK	50	0	20.50	20.76	20.45	21.7	0.0	
20	PI2 BPSK	50	28	20.34	20.32	20.23	21.7	0.0	
20	PI2 BPSK	50	56	20.21	20.11	20.09	21.7	0.0	
20	PI2 BPSK	100	0	20.42	20.32	20.33			
20	QPSK	1	1	20.06	20.67	20.61			
20	QPSK	1	53	20.22	20.42	20.29	21.7	0.0	
20	QPSK	1	104	20.00	20.11	20.01			
20	QPSK	50	0	20.55	20.50	20.44	21.7	0.0	
20	QPSK	50	28	20.34	20.36	20.31	21.7	0.0	
20	QPSK	50	56	20.12	20.19	20.12	21.7	0.0	
20	QPSK	100	0	20.34	20.38	20.30			
20	16QAM	1	1	20.45	20.39	20.18	21.7	0.0	
20	64QAM	1	1	20.55	20.62	20.48	21.0	0.7	
20	256QAM	1	1	18.91	18.77	18.72	19.5	2.2	
Channel				165300	167300	169300	Tune-up limit (dB)	MPR	
Frequency (MHz)				831.5	836.5	841.5			
15	PI2 BPSK	1	1	20.42	20.32	20.41	21.7	0.0	
Channel				165800	167300	168800	Tune-up limit (dB)	MPR	
Frequency (MHz)				820	836.5	844			
10	PI2 BPSK	1	1	20.43	20.42	20.23	21.7	0.0	
Channel				165300	167300	169300	Tune-up limit (dB)	MPR	
Frequency (MHz)				826.5	836.5	846.5			
5	PI2 BPSK	1	1	20.33	20.62	20.34	21.7	0.0	

n25_Ant 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				375000	376500	379500			
Frequency (MHz)				1870	1882.5	1895			
40	PI2 BPSK	1	1	13.11	13.30	13.21	14.4	0.0	
40	PI2 BPSK	1	108	12.97	13.00	12.96			
40	PI2 BPSK	1	214	12.87	13.05	12.95			
40	PI2 BPSK	108	0	12.94	13.01	12.92	14.4	0.0	
40	PI2 BPSK	108	54	13.01	13.21	13.12	14.4	0.0	
40	PI2 BPSK	108	108	13.00	13.00	12.93			
40	PI2 BPSK	216	0	13.03	13.11	13.01	14.4	0.0	
40	QPSK	1	1	13.13	12.82	12.93			
40	QPSK	1	108	13.08	12.86	12.70	14.4	0.0	
40	QPSK	1	214	13.08	12.87	13.04			
40	QPSK	108	0	13.11	12.82	12.89	14.4	0.0	
40	QPSK	108	54	12.99	12.85	13.04	14.4	0.0	
40	QPSK	108	108	13.04	12.84	12.86	14.4	0.0	
40	QPSK	216	0	13.01	12.84	12.85			
40	16QAM	1	1	12.94	12.87	12.78	14.4	0.0	
40	64QAM	1	1	13.19	13.12	13.20	14.4	0.0	
40	256QAM	1	1	13.14	13.15	12.96	14.4	0.0	
Channel				375000	376500	380000	Tune-up limit (dB)	MPR	
Frequency (MHz)				1865	1882.5	1900			
30	PI2 BPSK	1	1	13.14	13.17	12.77	14.4	0.0	
Channel				372500	376500	380500	Tune-up limit (dB)	MPR	
Frequency (MHz)				1822.5	1882.5	1922.5			
25	PI2 BPSK	1	1	13.10	13.20	13.17	14.4	0.0	
Channel				372000	376500	381000	Tune-up limit (dB)	MPR	
Frequency (MHz)				1860	1882.5	1905			
20	PI2 BPSK	1	1	13.13	12.86	12.78	14.4	0.0	
Channel				371000	376500	381000	Tune-up limit (dB)	MPR	
Frequency (MHz)				1857.5	1882.5	1907.5			
15	PI2 BPSK	1	1	13.08	13.09	13.15	14.4	0.0	
Channel				371000	376500	382000	Tune-up limit (dB)	MPR	
Frequency (MHz)				1855	1882.5	1910			
10	PI2 BPSK	1	1	13.08	12.88	12.78	14.4	0.0	
Channel				370500	376500	382500	Tune-up limit (dB)	MPR	
Frequency (MHz)				1852.5	1882.5	1912.5			
5	PI2 BPSK	1	1	12.89	13.11	13.03	14.4	0.0	



n26_Ant 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				164500	166300	167600			
Frequency (MHz)				824	831.5	839			
20	PI2 BPSK	1	1	20.80	20.58	20.38			
20	PI2 BPSK	1	53	20.45	20.23	20.12	21.7	0.0	
20	PI2 BPSK	1	104	20.23	20.02	20.01			
20	PI2 BPSK	50	0	20.69	20.55	20.28	21.7	0.0	
20	PI2 BPSK	50	28	20.52	20.32	20.12	21.7	0.0	
20	PI2 BPSK	50	56	20.42	20.20	20.10			
20	PI2 BPSK	100	0	20.54	20.34	20.20	21.7	0.0	
20	QPSK	1	1	20.75	20.61	20.48			
20	QPSK	1	53	20.15	20.31	20.12	21.7	0.0	
20	QPSK	1	104	20.27	20.09	20.00			
20	QPSK	50	0	20.71	20.53	20.36	21.7	0.0	
20	QPSK	50	28	20.57	20.37	20.28	21.7	0.0	
20	QPSK	50	56	20.65	20.19	20.33			
20	QPSK	100	0	20.28	20.42	20.34	21.7	0.0	
20	16QAM	1	1	20.56	20.52	20.57	21.7	0.0	
20	64QAM	1	1	20.29	20.35	20.35	21.0	0.7	
20	256QAM	1	1	19.41	19.23	18.89	19.5	2.2	
Channel				163300	166300	168000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	PI2 BPSK	1	1	20.40	20.04	20.16	21.7	0.0	
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	PI2 BPSK	1	1	20.27	20.04	20.19	21.7	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	PI2 BPSK	1	1	20.45	20.23	20.12	21.7	0.0	

n30_Ant 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				461500	462000	462500			
Frequency (MHz)				2307.5	2310	2312.5			
10	PI2 BPSK	1	1	14.03					
10	PI2 BPSK	1	26	13.62			15.0	0.0	
10	PI2 BPSK	1	50	13.85					
10	PI2 BPSK	25	0	13.97			15.0	0.0	
10	PI2 BPSK	25	13	13.78			15.0	0.0	
10	PI2 BPSK	25	26	13.86					
10	PI2 BPSK	50	0	13.91			15.0	0.0	
10	QPSK	1	1	13.80					
10	QPSK	1	26	13.94			15.0	0.0	
10	QPSK	1	50	13.95					
10	QPSK	25	0	13.73			15.0	0.0	
10	QPSK	25	13	13.88			15.0	0.0	
10	QPSK	25	26	13.90					
10	QPSK	50	0	13.81			15.0	0.0	
10	16QAM	1	1	13.72			15.0	0.0	
10	64QAM	1	1	13.58			15.0	0.0	
10	256QAM	1	1	13.68			15.0	0.0	
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	PI2 BPSK	1	1	13.73	13.63	13.63	15.0	0.0	

n66_Ant 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				345000	345000	345000			
Frequency (MHz)				1725	1745	1765			
40	PI2 BPSK	1	1	14.00	13.99	13.87			
40	PI2 BPSK	1	108	14.11	14.02	13.96	15.0	0.0	
40	PI2 BPSK	1	214	14.06	14.05	13.98			
40	PI2 BPSK	108	0	13.98	13.40	13.50	15.0	0.0	
40	PI2 BPSK	108	54	14.02	13.92	13.90	15.0	0.0	
40	PI2 BPSK	108	108	13.82	13.88	13.79			
40	PI2 BPSK	216	0	13.89	13.56	13.66	15.0	0.0	
40	QPSK	1	1	13.95	14.09	13.93			
40	QPSK	1	108	14.09	14.07	13.92	15.0	0.0	
40	QPSK	1	214	13.99	14.04	14.04			
40	QPSK	108	0	13.91	14.01	13.88	15.0	0.0	
40	QPSK	108	54	14.08	14.02	14.06	15.0	0.0	
40	QPSK	108	108	14.02	14.08	14.07			
40	QPSK	216	0	14.05	14.06	13.92	15.0	0.0	
40	16QAM	1	1	14.01	14.09	14.00	15.0	0.0	
40	64QAM	1	1	13.72	13.90	13.88	15.0	0.0	
40	256QAM	1	1	14.04	14.04	13.87	15.0	0.0	
Channel				345000	345000	345000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	PI2 BPSK	1	1	13.93	14.04	13.79	15.0	0.0	
Channel				344000	345000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	PI2 BPSK	1	1	13.97	14.05	13.73	15.0	0.0	
Channel				343500	345000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	PI2 BPSK	1	1	14.06	14.04	13.87	15.0	0.0	
Channel				343000	345000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	PI2 BPSK	1	1	13.93	13.95	14.01	15.0	0.0	
Channel				342500	345000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	PI2 BPSK	1	1	14.03	14.03	13.73	15.0	0.0	



n77_FCC_Ant 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				65000	65000	65000		
Frequency (MHz)				3750	3840	3930		
100	PV2 BPSK	1	1	10.10	10.00	9.66		
100	PV2 BPSK	1	137	10.31	10.14	10.02	11.0	0.0
100	PV2 BPSK	1	271	10.22	9.66	9.48		
100	PV2 BPSK	135	0	10.14	9.76	9.58		
100	PV2 BPSK	135	69	10.22	10.10	10.05	11.0	0.0
100	PV2 BPSK	135	138	10.21	9.66	9.53		
100	PV2 BPSK	270	0	10.15	9.73	9.56	11.0	0.0
100	QPSK	1	1	9.82	9.95	9.92		
100	QPSK	1	137	9.61	9.75	9.57	11.0	0.0
100	QPSK	1	271	9.34	9.50	9.57		
100	QPSK	135	0	9.63	9.76	9.62		
100	QPSK	135	69	9.51	9.66	9.70	11.0	0.0
100	QPSK	135	138	9.55	9.61	9.66		
100	QPSK	270	0	9.66	9.61	9.41	11.0	0.0
100	16QAM	1	1	10.08	10.07	10.24	11.0	0.0
100	64QAM	1	1	9.64	9.77	9.90	11.0	0.0
100	256QAM	1	1	10.06	9.95	9.82	11.0	0.0
Channel				648668	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)
80	PV2 BPSK	1	1	10.21	9.82	9.56	11.0	0.0
Channel				648668	650000	653334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)
60	PV2 BPSK	1	1	10.00	10.11	9.81	11.0	0.0
Channel				648300	650000	649600	Tune-up limit	MPR
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)
40	PV2 BPSK	1	1	10.23	10.16	9.78	11.0	0.0
Channel				647668	650000	654334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)
30	PV2 BPSK	1	1	10.01	10.00	9.53	11.0	0.0
Channel				647334	650000	648668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)
20	PV2 BPSK	1	1	10.15	10.05	9.84	11.0	0.0

n78_FCC_Ant 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3760	3750	3760		
100	PV2 BPSK	1	1		10.39			
100	PV2 BPSK	1	137		10.46		11.3	0.0
100	PV2 BPSK	1	271		10.32			
100	PV2 BPSK	135	0		10.42			
100	PV2 BPSK	135	69		10.43		11.3	0.0
100	PV2 BPSK	135	138		10.30			
100	PV2 BPSK	270	0		10.37		11.3	0.0
100	QPSK	1	1		10.38			
100	QPSK	1	137		10.35		11.3	0.0
100	QPSK	1	271		10.31			
100	QPSK	135	0		10.26			
100	QPSK	135	69		10.27		11.3	0.0
100	QPSK	135	138		10.30			
100	QPSK	270	0		10.32		11.3	0.0
100	16QAM	1	1		10.29		11.3	0.0
100	64QAM	1	1		10.30		11.3	0.0
100	256QAM	1	1		10.35		11.3	0.0
Channel				648668	650000	650334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)
90	PV2 BPSK	1	1	10.29	10.44	10.34	11.3	0.0
Channel				648334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)
80	PV2 BPSK	1	1	10.28	10.24	10.33	11.3	0.0
Channel				648000	650000	651000	Tune-up limit	MPR
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)
70	PV2 BPSK	1	1	10.43	10.22	10.43	11.3	0.0
Channel				648668	650000	651334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)
60	PV2 BPSK	1	1	10.25	10.30	10.12	11.3	0.0
Channel				648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)
50	PV2 BPSK	1	1	10.41	10.23	10.34	11.3	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	PV2 BPSK	1	1	10.34	10.08	10.16	11.3	0.0
Channel				647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)
30	PV2 BPSK	1	1	10.29	10.45	10.28	11.3	0.0
Channel				647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)
20	PV2 BPSK	1	1	10.43	10.08	10.24	11.3	0.0



DIS6 for Handheld Standalone for UAT

n2_Ant 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									
Frequency (MHz)				1860	1880	1900			
20	Pi/2 BPSK	1	1	20.51	20.58	20.55	21.7	0.0	
20	Pi/2 BPSK	1	53	20.62	20.49	20.77			
20	Pi/2 BPSK	1	104	20.58	20.65	20.75			
20	Pi/2 BPSK	50	0	20.43	20.52	20.63	21.7	0.0	
20	Pi/2 BPSK	50	28	20.61	20.53	20.49	21.7	0.0	
20	Pi/2 BPSK	50	56	20.59	20.57	20.44			
20	Pi/2 BPSK	100	0	20.61	20.55	20.45	21.7	0.0	
20	QPSK	1	1	20.75	20.67	20.70			
20	QPSK	1	53	20.72	20.60	20.44	21.7	0.0	
20	QPSK	1	104	20.65	20.63	20.64			
20	QPSK	50	0	20.61	20.56	20.67	21.7	0.0	
20	QPSK	50	28	20.61	20.55	20.77	21.7	0.0	
20	QPSK	50	56	20.56	20.55	20.74	21.7	0.0	
20	QPSK	100	0	20.65	20.54	20.72	21.7	0.0	
20	16QAM	1	1	20.55	20.47	20.40	21.7	0.0	
20	64QAM	1	1	20.21	20.17	20.14	21.5	0.2	
20	256QAM	1	1	18.61	18.54	18.55	19.5	2.2	
Channel									
Frequency (MHz)				37500	37600	38000	Tune-up limit (dB)	MPR (dB)	
15	Pi/2 BPSK	1	1	20.47	20.44	20.47	21.7	0.0	
Channel									
Frequency (MHz)				37100	37600	38100	Tune-up limit (dB)	MPR (dB)	
10	Pi/2 BPSK	1	1	18.53	18.50	18.05	21.7	0.0	
Channel									
Frequency (MHz)				37000	37600	38100	Tune-up limit (dB)	MPR (dB)	
5	Pi/2 BPSK	1	1	20.69	20.59	20.46	21.7	0.0	

n25_Ant 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									
Frequency (MHz)				1870	1882.5	1895			
40	Pi/2 BPSK	1	1	20.70	20.80	20.75	21.7	0.0	
40	Pi/2 BPSK	1	108	20.48	20.72	20.44			
40	Pi/2 BPSK	1	214	20.45	20.70	20.57			
40	Pi/2 BPSK	108	0	20.33	20.61	20.41	21.7	0.0	
40	Pi/2 BPSK	108	54	20.65	20.75	20.41	21.7	0.0	
40	Pi/2 BPSK	108	108	20.30	20.57	20.41	21.7	0.0	
40	Pi/2 BPSK	216	0	20.23	20.69	20.45			
40	QPSK	1	1	20.60	20.49	20.47			
40	QPSK	1	108	20.63	20.45	20.65	21.7	0.0	
40	QPSK	1	214	20.15	20.11	19.91			
40	QPSK	108	0	19.97	20.84	19.92	21.7	0.0	
40	QPSK	108	54	20.66	20.69	20.63	21.7	0.0	
40	QPSK	108	108	19.27	19.24	19.10	21.7	0.0	
40	QPSK	216	0	19.66	19.50	19.45			
40	16QAM	1	1	20.70	20.61	20.79	21.7	0.0	
40	64QAM	1	1	20.48	20.53	20.24	21.5	0.2	
40	256QAM	1	1	18.84	18.89	18.85	19.5	2.2	
Channel									
Frequency (MHz)				37200	37650	38000	Tune-up limit (dB)	MPR (dB)	
30	Pi/2 BPSK	1	1	20.53	20.71	20.45	21.7	0.0	
Channel									
Frequency (MHz)				37250	37650	38050	Tune-up limit (dB)	MPR (dB)	
25	Pi/2 BPSK	1	1	18.23	18.22	18.23	21.7	0.0	
Channel									
Frequency (MHz)				37200	37650	38100	Tune-up limit (dB)	MPR (dB)	
20	Pi/2 BPSK	1	1	20.33	20.80	20.28	21.7	0.0	
Channel									
Frequency (MHz)				37150	37650	38150	Tune-up limit (dB)	MPR (dB)	
15	Pi/2 BPSK	1	1	18.25	18.22	18.25	21.7	0.0	
Channel									
Frequency (MHz)				37100	37650	38200	Tune-up limit (dB)	MPR (dB)	
10	Pi/2 BPSK	1	1	16.55	18.22	19.02	21.7	0.0	
Channel									
Frequency (MHz)				37050	37650	38250	Tune-up limit (dB)	MPR (dB)	
5	Pi/2 BPSK	1	1	20.58	20.80	20.35	21.7	0.0	

n30_Ant 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									
Frequency (MHz)							2310		
10	Pi/2 BPSK	1	1		22.65				
10	Pi/2 BPSK	1	26		22.56		23.5	0.0	
10	Pi/2 BPSK	1	50		22.63				
10	Pi/2 BPSK	25	0		22.55		23.5	0.0	
10	Pi/2 BPSK	25	13		22.52		23.5	0.0	
10	Pi/2 BPSK	25	26		22.49		23.5	0.0	
10	Pi/2 BPSK	50	0		22.49				
10	QPSK	1	1		22.49				
10	QPSK	1	26		22.63		23.5	0.0	
10	QPSK	1	50		22.61				
10	QPSK	25	0		22.42		23.5	0.0	
10	QPSK	25	13		22.54		23.5	0.0	
10	QPSK	25	26		22.56		23.5	0.0	
10	QPSK	50	0		22.47				
10	16QAM	1	1		22.42		22.5	1.0	
10	64QAM	1	1		20.83		21.5	2.0	
10	256QAM	1	1		18.76		19.5	4.0	
Channel									
Frequency (MHz)				48150	48200	48250	Tune-up limit (dB)	MPR (dB)	
5	Pi/2 BPSK	1	1	2307.5	2310	2312.5	23.5	0.0	



n66_Ant 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				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	20.38	20.24	20.20		
40	PI/2 BPSK	1	108	20.24	20.49	20.43	21.5	0.0
40	PI/2 BPSK	1	214	20.22	20.41	20.35		
40	PI/2 BPSK	108	0	20.31	20.38	20.23	21.5	0.0
40	PI/2 BPSK	108	54	20.41	20.35	20.29	21.5	0.0
40	PI/2 BPSK	108	108	20.39	20.31	20.27		
40	PI/2 BPSK	216	0	20.31	20.27	20.25	21.5	0.0
40	QPSK	1	1	19.84	19.96	19.98		
40	QPSK	1	108	20.22	20.17	20.02	21.5	0.0
40	QPSK	1	214	20.00	20.10	20.28		
40	QPSK	108	0	20.20	20.14	20.34	21.5	0.0
40	QPSK	108	54	20.13	20.32	20.13	21.5	0.0
40	QPSK	108	108	20.20	20.15	20.33		
40	QPSK	216	0	20.07	20.30	20.32	21.5	0.0
40	16QAM	1	1	19.88	20.17	20.19	21.5	0.0
40	64QAM	1	1	19.57	19.77	19.73	21.0	0.5
40	256QAM	1	1	18.07	18.08	17.92	19.5	2.0
Channel				345000	345000	353000	Tune-up limit	MPR
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)
30	PI/2 BPSK	1	1	20.24	20.23	20.25	21.5	0.0
Channel				344000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	PI/2 BPSK	1	1	20.38	20.12	20.29	21.5	0.0
Channel				343500	349000	354500	Tune-up limit	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	PI/2 BPSK	1	1	20.33	20.18	20.24	21.5	0.0
Channel				343000	349000	355000	Tune-up limit	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	PI/2 BPSK	1	1	20.41	20.22	20.25	21.5	0.0
Channel				342500	349000	355500	Tune-up limit	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	PI/2 BPSK	1	1	20.30	20.40	20.20	21.5	0.0



n77_FCC_Ant 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				65000	65000	65000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	17.84	17.68	17.47		
100	PI/2 BPSK	1	137	18.08	18.01	17.78	18.8	0.0
100	PI/2 BPSK	1	271	17.98	17.58	17.57		
100	PI/2 BPSK	135	0	17.95	17.70	17.51		
100	PI/2 BPSK	135	69	18.07	17.80	17.70	18.8	0.0
100	PI/2 BPSK	135	138	17.90	17.56	17.30		
100	PI/2 BPSK	270	0	17.91	17.69	17.54	18.8	0.0
100	QPSK	1	1	17.83	17.77	17.80		
100	QPSK	1	137	17.59	17.77	17.85	18.8	0.0
100	QPSK	1	271	17.36	17.52	17.51		
100	QPSK	135	0	17.53	17.88	17.73		
100	QPSK	135	69	17.55	17.65	17.63	18.8	0.0
100	QPSK	135	138	17.44	17.51	17.69		
100	QPSK	270	0	17.58	17.69	17.87	18.8	0.0
100	16QAM	1	1	18.02	18.03	18.02	18.8	0.0
100	64QAM	1	1	17.48	17.55	17.59	18.8	0.0
100	256QAM	1	1	17.77	17.76	17.56	18.8	0.0
Channel				648668	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)
80	PI/2 BPSK	1	1	17.82	17.62	17.30	18.8	0.0
Channel				648668	650000	653334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)
60	PI/2 BPSK	1	1	17.65	17.67	17.58	18.8	0.0
Channel				648300	650000	649000	Tune-up limit	MPR
Frequency (MHz)				3720	3840	3860	(dBm)	(dB)
40	PI/2 BPSK	1	1	18.01	17.77	17.27	18.8	0.0
Channel				647668	650000	654334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)
30	PI/2 BPSK	1	1	17.71	17.77	17.67	18.8	0.0
Channel				647334	650000	646668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)
20	PI/2 BPSK	1	1	17.92	17.57	17.36	18.8	0.0

n78_FCC_Ant 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		17.79			
100	PI/2 BPSK	1	137		17.87		18.7	0.0
100	PI/2 BPSK	1	271		17.64			
100	PI/2 BPSK	135	0		17.68			
100	PI/2 BPSK	135	69		17.78		18.7	0.0
100	PI/2 BPSK	135	138		17.69			
100	PI/2 BPSK	270	0		18.82		18.7	0.0
100	QPSK	1	1		17.80			
100	QPSK	1	137		17.75		18.7	0.0
100	QPSK	1	271		17.70			
100	QPSK	135	0		17.67			
100	QPSK	135	69		17.77		18.7	0.0
100	QPSK	135	138		17.75			
100	QPSK	270	0		17.71		18.7	0.0
100	16QAM	1	1		17.71		18.7	0.0
100	64QAM	1	1		17.73		18.7	0.0
100	256QAM	1	1		17.84		18.7	0.0
Channel				648668	650000	650334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)
90	PI/2 BPSK	1	1	17.77	17.43	17.56	18.7	0.0
Channel				648334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)
80	PI/2 BPSK	1	1	17.64	17.60	17.78	18.7	0.0
Channel				648000	650000	651000	Tune-up limit	MPR
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)
70	PI/2 BPSK	1	1	17.75	17.58	17.75	18.7	0.0
Channel				648668	650000	651334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)
60	PI/2 BPSK	1	1	17.76	17.59	17.62	18.7	0.0
Channel				648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)
50	PI/2 BPSK	1	1	17.75	17.41	17.59	18.7	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	PI/2 BPSK	1	1	17.69	17.47	17.68	18.7	0.0
Channel				647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)
30	PI/2 BPSK	1	1	17.66	17.54	17.79	18.7	0.0
Channel				647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)
20	PI/2 BPSK	1	1	17.83	17.37	17.67	18.7	0.0



DIS6 for Handheld Sim-Tx for UAT

n2_Ant 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									
Frequency (MHz)				1860	1880	1900			
20	Pi/2 BPSK	1	1	18.02	18.10	18.16			
20	Pi/2 BPSK	1	53	18.08	18.11	18.26	19.2	0.0	
20	Pi/2 BPSK	1	104	18.09	18.08	18.23			
20	Pi/2 BPSK	50	0	18.06	17.92	18.09	19.2	0.0	
20	Pi/2 BPSK	50	28	18.06	18.01	18.27			
20	Pi/2 BPSK	50	56	18.01	17.92	18.19			
20	Pi/2 BPSK	100	0	18.10	18.02	18.24	19.2	0.0	
20	QPSK	1	1	18.14	18.06	18.10			
20	QPSK	1	53	18.09	18.08	18.30	19.2	0.0	
20	QPSK	1	104	18.11	18.12	18.27			
20	QPSK	50	0	18.10	18.03	18.12	19.2	0.0	
20	QPSK	50	28	18.04	17.98	18.24			
20	QPSK	50	56	18.08	17.96	18.26	19.2	0.0	
20	QPSK	100	0	18.04	18.02	18.25			
20	16QAM	1	1	18.12	18.22	18.23	19.2	0.0	
20	64QAM	1	1	17.94	17.87	18.01	19.2	0.0	
20	256QAM	1	1	17.21	17.27	17.38	18.2	1.0	
Channel									
Frequency (MHz)				37500	37600	38050	Tune-up limit (dBm)	MPR (dB)	
15	Pi/2 BPSK	1	1	17.87	18.16	18.04	19.2	0.0	
Channel									
Frequency (MHz)				37100	37600	38100	Tune-up limit (dBm)	MPR (dB)	
10	Pi/2 BPSK	1	1	17.84	18.03	18.18	19.2	0.0	
Channel									
Frequency (MHz)				37050	37600	38150	Tune-up limit (dBm)	MPR (dB)	
5	Pi/2 BPSK	1	1	18.22	18.22	18.14	19.2	0.0	

n25_Ant 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									
Frequency (MHz)				1870	1882.5	1895			
40	Pi/2 BPSK	1	1	18.05	18.38	18.00			
40	Pi/2 BPSK	1	108	18.02	18.04	17.97	19.2	0.0	
40	Pi/2 BPSK	1	214	17.97	18.91	17.87			
40	Pi/2 BPSK	108	0	17.79	17.82	17.74	19.2	0.0	
40	Pi/2 BPSK	108	54	18.11	18.35	18.08	19.2	0.0	
40	Pi/2 BPSK	108	108	17.87	17.84	17.87			
40	Pi/2 BPSK	216	0	17.99	18.02	18.00	19.2	0.0	
40	QPSK	1	1	17.92	18.93	17.95			
40	QPSK	1	108	18.21	18.02	17.99	19.2	0.0	
40	QPSK	1	214	17.84	17.97	17.83			
40	QPSK	108	0	18.22	18.08	17.92	19.2	0.0	
40	QPSK	108	54	18.07	18.03	17.98	19.2	0.0	
40	QPSK	108	108	18.02	18.15	18.26	19.2	0.0	
40	QPSK	216	0	18.15	18.16	18.14			
40	16QAM	1	1	18.18	18.23	18.30	19.2	0.0	
40	64QAM	1	1	18.04	18.02	17.97	19.2	0.0	
40	256QAM	1	1	17.53	17.45	17.25	18.2	1.0	
Channel									
Frequency (MHz)				37200	37650	38000	Tune-up limit (dBm)	MPR (dB)	
30	Pi/2 BPSK	1	1	17.88	18.18	17.80	19.2	0.0	
Channel									
Frequency (MHz)				37250	37650	38050	Tune-up limit (dBm)	MPR (dB)	
25	Pi/2 BPSK	1	1	18.03	17.99	18.07	19.2	0.0	
Channel									
Frequency (MHz)				37200	37650	38100	Tune-up limit (dBm)	MPR (dB)	
20	Pi/2 BPSK	1	1	17.92	18.10	17.96	19.2	0.0	
Channel									
Frequency (MHz)				37150	37650	38150	Tune-up limit (dBm)	MPR (dB)	
15	Pi/2 BPSK	1	1	18.04	17.97	18.05	19.2	0.0	
Channel									
Frequency (MHz)				37100	37650	38200	Tune-up limit (dBm)	MPR (dB)	
10	Pi/2 BPSK	1	1	18.15	17.99	17.82	19.2	0.0	
Channel									
Frequency (MHz)				37050	37650	38250	Tune-up limit (dBm)	MPR (dB)	
5	Pi/2 BPSK	1	1	17.93	17.97	17.85	19.2	0.0	

n30_Ant 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									
Frequency (MHz)							2310		
10	Pi/2 BPSK	1	1		20.25				
10	Pi/2 BPSK	1	26		20.19		21.0	0.0	
10	Pi/2 BPSK	1	50		20.18				
10	Pi/2 BPSK	25	0		20.20		21.0	0.0	
10	Pi/2 BPSK	25	13		20.03		21.0	0.0	
10	Pi/2 BPSK	25	26		20.01		21.0	0.0	
10	Pi/2 BPSK	50	0		20.23				
10	QPSK	1	1		20.12				
10	QPSK	1	26		20.10		21.0	0.0	
10	QPSK	1	50		20.08				
10	QPSK	25	0		20.05		21.0	0.0	
10	QPSK	25	13		20.09		21.0	0.0	
10	QPSK	25	26		20.04				
10	QPSK	50	0		20.11				
10	16QAM	1	1		19.99		21.0	0.0	
10	64QAM	1	1		19.90		21.0	0.0	
10	256QAM	1	1		18.81		19.5	1.5	
Channel									
Frequency (MHz)				48150	48200	48250	Tune-up limit (dBm)	MPR (dB)	
5	Pi/2 BPSK	1	1	20.12	20.11	20.02	21.0	0.0	



n66_Ant 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				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	Pi/2 BPSK	1	1	17.87	17.82	17.70		
40	Pi/2 BPSK	1	108	17.89	17.84	17.88	19.0	0.0
40	Pi/2 BPSK	1	214	17.97	17.87	17.73		
40	Pi/2 BPSK	108	0	17.72	17.81	17.75	19.0	0.0
40	Pi/2 BPSK	108	54	17.89	17.87	17.80	19.0	0.0
40	Pi/2 BPSK	108	108	17.71	17.70	17.88	19.0	0.0
40	Pi/2 BPSK	216	0	17.87	17.89	17.88		
40	QPSK	1	1	17.42	17.53	17.51		
40	QPSK	1	108	17.96	17.82	17.95	19.0	0.0
40	QPSK	1	214	17.79	17.94	17.93		
40	QPSK	108	0	17.55	17.60	17.52	19.0	0.0
40	QPSK	108	54	17.59	17.67	17.72	19.0	0.0
40	QPSK	108	108	17.85	17.91	17.99	19.0	0.0
40	QPSK	216	0	17.69	17.72	17.91		
40	16QAM	1	1	17.48	17.50	17.57	19.0	0.0
40	64QAM	1	1	17.16	17.35	17.46	19.0	0.0
40	256QAM	1	1	17.83	17.70	17.83	19.0	0.0
Channel				342000	345000	348000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	Pi/2 BPSK	1	1	17.72	17.63	17.59	19.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	Pi/2 BPSK	1	1	17.97	17.72	17.65	19.0	0.0
Channel				345000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	Pi/2 BPSK	1	1	17.75	17.81	17.58	19.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	Pi/2 BPSK	1	1	17.90	17.89	17.74	19.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	Pi/2 BPSK	1	1	17.73	17.62	17.58	19.0	0.0



n77_FCC_Ant 4							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				65000	65000	65000	
Frequency (MHz)				3750	3940	3950	
100	PI/2 BPSK	1	1	15.51	15.34	15.04	
100	PI/2 BPSK	1	137	15.66	15.57	15.39	16.3
100	PI/2 BPSK	1	271	15.56	15.05	14.94	
100	PI/2 BPSK	135	0	15.54	15.24	14.99	
100	PI/2 BPSK	135	69	15.63	15.32	15.04	16.3
100	PI/2 BPSK	135	138	15.58	15.04	14.88	
100	PI/2 BPSK	270	0	15.56	15.18	14.99	16.3
100	QPSK	1	1	15.52	15.45	15.34	
100	QPSK	1	137	15.24	15.34	15.30	16.3
100	QPSK	1	271	15.32	15.14	15.32	
100	QPSK	135	0	15.20	15.23	15.27	
100	QPSK	135	69	14.81	15.01	15.11	16.3
100	QPSK	135	138	14.67	14.77	14.62	
100	QPSK	270	0	14.64	14.83	14.70	16.3
100	16QAM	1	1	14.73	14.92	15.07	16.3
100	64QAM	1	1	14.53	14.63	14.79	16.3
100	256QAM	1	1	14.55	14.75	14.83	16.3
Channel				648668	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3940.02	MPR (dB)
80	PI/2 BPSK	1	1	15.53	15.50	14.85	16.3
Channel				648668	650000	653334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3950.01	MPR (dB)
60	PI/2 BPSK	1	1	15.38	15.29	15.04	16.3
Channel				648330	650000	650660	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	MPR (dB)
40	PI/2 BPSK	1	1	15.42	15.42	15.04	16.3
Channel				647668	650000	654334	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840	3965.01	MPR (dB)
30	PI/2 BPSK	1	1	15.34	15.51	15.20	16.3
Channel				647334	650000	656668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	MPR (dB)
20	PI/2 BPSK	1	1	15.46	15.15	14.91	16.3

n78_FCC_Ant 4							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		15.28		
100	PI/2 BPSK	1	137		15.36		16.2
100	PI/2 BPSK	1	271		15.19		
100	PI/2 BPSK	135	0		15.24		
100	PI/2 BPSK	135	69		15.31		16.2
100	PI/2 BPSK	135	138		15.29		
100	PI/2 BPSK	270	0		15.29		16.2
100	QPSK	1	1		15.30		
100	QPSK	1	137		15.20		16.2
100	QPSK	1	271		15.16		
100	QPSK	135	0		15.21		
100	QPSK	135	69		15.24		16.2
100	QPSK	135	138		15.22		
100	QPSK	270	0		15.30		16.2
100	16QAM	1	1		15.21		16.2
100	64QAM	1	1		15.28		16.2
100	256QAM	1	1		15.15		16.2
Channel				648668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	MPR (dB)
90	PI/2 BPSK	1	1	15.21	15.35	14.93	16.2
Channel				648334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	MPR (dB)
80	PI/2 BPSK	1	1	15.38	15.35	14.88	16.2
Channel				648200	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	MPR (dB)
70	PI/2 BPSK	1	1	15.05	15.29	14.91	16.2
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	MPR (dB)
60	PI/2 BPSK	1	1	15.16	14.99	15.08	16.2
Channel				648334	650000	651968	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	MPR (dB)
50	PI/2 BPSK	1	1	15.30	15.28	15.16	16.2
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	MPR (dB)
40	PI/2 BPSK	1	1	15.23	15.15	14.86	16.2
Channel				647668	650000	652334	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750	3785.01	MPR (dB)
30	PI/2 BPSK	1	1	15.06	15.18	14.88	16.2
Channel				647334	650000	652888	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	MPR (dB)
20	PI/2 BPSK	1	1	15.22	15.24	14.82	16.2



Full Power Mode for LAT

n2_Ant 1 (DS12,DS14)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				1860	1880	1900			
Frequency (MHz)				1860	1880	1900			
20	Pi/2 BPSK	1	1	22.91	22.90	22.93	24.0	0.0	
20	Pi/2 BPSK	1	53	22.93	22.91	22.98			
20	Pi/2 BPSK	1	104	22.86	22.91	22.96			
20	Pi/2 BPSK	50	0	22.85	22.75	22.89	24.0	0.0	
20	Pi/2 BPSK	50	28	22.83	22.73	22.94			
20	Pi/2 BPSK	50	56	22.80	22.70	22.91			
20	Pi/2 BPSK	100	0	22.85	22.78	22.89	24.0	0.0	
20	QPSK	1	1	22.84	22.76	22.88			
20	QPSK	1	53	22.85	22.84	22.81	24.0	0.0	
20	QPSK	1	104	22.82	22.82	22.96			
20	QPSK	50	0	22.35	22.30	22.45	23.0	1.0	
20	QPSK	50	28	22.85	22.77	22.91			
20	QPSK	50	56	22.33	22.26	22.94	23.0	1.0	
20	QPSK	100	0	22.38	22.32	22.52			
20	16QAM	1	1	22.02	22.05	22.06	23.0	1.0	
20	64QAM	1	1	20.70	20.65	20.60	21.5	2.5	
20	256QAM	1	1	18.50	18.78	18.81	19.5	4.5	
Channel				37500	37500	38500			
Frequency (MHz)				1857.5	1880	1902.5			
15	Pi/2 BPSK	1	1	22.80	22.69	22.88	24.0	0.0	
Channel				37100	37600	38100			
Frequency (MHz)				1855	1890	1905			
10	Pi/2 BPSK	1	1	22.84	22.72	22.97	24.0	0.0	
Channel				37000	37600	38100			
Frequency (MHz)				1852.5	1880	1907.5			
5	Pi/2 BPSK	1	1	22.85	22.71	22.96	24.0	0.0	

n5_Ant 8 (DS12,DS14,DS16)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	Pi/2 BPSK	1	1	22.96	22.92	22.84	24.0	0.0	
20	Pi/2 BPSK	1	53	22.90	22.86	22.81			
20	Pi/2 BPSK	1	104	22.82	22.79	22.77			
20	Pi/2 BPSK	50	0	22.88	22.84	22.81	24.0	0.0	
20	Pi/2 BPSK	50	28	22.85	22.83	22.81			
20	Pi/2 BPSK	50	56	22.88	22.87	22.85			
20	Pi/2 BPSK	100	0	22.95	22.91	22.90	24.0	0.0	
20	QPSK	1	1	22.70	22.74	22.71			
20	QPSK	1	53	22.88	22.81	22.84	24.0	0.0	
20	QPSK	1	104	22.80	22.82	22.85			
20	QPSK	50	0	22.91	22.88	22.89	23.0	1.0	
20	QPSK	50	28	22.84	22.84	22.89			
20	QPSK	50	56	22.92	22.48	22.92	23.0	1.0	
20	QPSK	100	0	22.63	22.56	22.52			
20	16QAM	1	1	21.87	21.85	21.86	23.0	1.0	
20	64QAM	1	1	20.88	20.79	20.81	21.5	2.5	
20	256QAM	1	1	18.84	18.81	18.82	19.5	4.5	
Channel				163300	163300	163300			
Frequency (MHz)				831.5	836.5	841.5			
15	Pi/2 BPSK	1	1	22.75	22.83	22.79	24.0	0.0	
Channel				165800	167300	168800			
Frequency (MHz)				829	836.5	844			
10	Pi/2 BPSK	1	1	22.71	22.77	22.90	24.0	0.0	
Channel				165300	167300	169300			
Frequency (MHz)				826.5	836.5	846.5			
5	Pi/2 BPSK	1	1	22.81	22.86	22.91	24.0	0.0	

n25_Ant 1 (DS12,DS14)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				374000	376500	379500			
Frequency (MHz)				1870	1882.5	1895			
40	Pi/2 BPSK	1	1	22.85	22.83	22.82	24.0	0.0	
40	Pi/2 BPSK	1	108	22.77	22.73	22.71			
40	Pi/2 BPSK	1	214	22.76	22.71	22.60			
40	Pi/2 BPSK	108	0	22.72	22.63	22.60	23.5	0.5	
40	Pi/2 BPSK	108	54	22.66	22.50	22.48			
40	Pi/2 BPSK	108	108	22.68	22.57	22.13	23.5	0.5	
40	Pi/2 BPSK	216	0	22.30	21.97	21.63			
40	QPSK	1	1	22.76	22.79	22.74			
40	QPSK	1	108	22.81	22.77	22.69	24.0	0.0	
40	QPSK	1	214	22.76	22.71	22.63			
40	QPSK	108	0	22.32	22.25	22.23	23.0	1.0	
40	QPSK	108	54	22.81	22.76	22.69			
40	QPSK	108	108	22.32	22.33	22.18	23.0	1.0	
40	QPSK	216	0	22.48	22.39	22.36			
40	16QAM	1	1	22.34	22.39	22.05	23.0	1.0	
40	64QAM	1	1	20.68	20.51	20.56	21.5	2.5	
40	256QAM	1	1	19.25	19.20	18.64	19.5	4.5	
Channel				373000	376500	380000			
Frequency (MHz)				1865	1882.5	1900			
30	Pi/2 BPSK	1	1	22.79	22.80	22.74	24.0	0.0	
Channel				372500	376500	380500			
Frequency (MHz)				1862.5	1882.5	1902.5			
25	Pi/2 BPSK	1	1	22.72	22.64	22.59	24.0	0.0	
Channel				372000	376500	381000			
Frequency (MHz)				1860	1882.5	1905			
20	Pi/2 BPSK	1	1	22.77	22.68	22.57	24.0	0.0	
Channel				371000	376500	381000			
Frequency (MHz)				1857.5	1882.5	1907.5			
15	Pi/2 BPSK	1	1	22.82	22.72	22.63	24.0	0.0	
Channel				371000	376500	382000			
Frequency (MHz)				1855	1882.5	1910			
10	Pi/2 BPSK	1	1	22.78	22.79	22.67	24.0	0.0	
Channel				370500	376500	382500			
Frequency (MHz)				1852.5	1882.5	1912.5			
5	Pi/2 BPSK	1	1	22.81	22.77	22.69	24.0	0.0	



n26_Ant 8 (DSI2,DSI4,DSI6)										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				164500	166300	167600				
Frequency (MHz)				824	831.5	839				
20	PI2 BPSK	1	1	22.86	22.82	22.79				
20	PI2 BPSK	1	53	22.89	22.89	22.86				
20	PI2 BPSK	1	104	22.73	22.71	22.67	24.0	0.0		
20	PI2 BPSK	50	0	22.77	22.70	22.71	24.0	0.0		
20	PI2 BPSK	50	28	22.74	22.73	22.63	24.0	0.0		
20	PI2 BPSK	50	56	22.76	22.88	22.66	24.0	0.0		
20	PI2 BPSK	100	0	22.72	22.70	22.69				
20	QPSK	1	1	22.69	22.61	22.67				
20	QPSK	1	53	22.68	22.56	22.62	24.0	0.0		
20	QPSK	1	104	22.64	22.63	22.69				
20	QPSK	50	0	22.75	22.75	22.72	24.0	0.0		
20	QPSK	50	28	22.80	22.74	22.64	24.0	0.0		
20	QPSK	50	56	22.78	22.66	22.62	24.0	0.0		
20	QPSK	100	0	22.79	22.80	22.66				
20	16QAM	1	1	22.11	22.09	22.08	23.0	1.0		
20	64QAM	1	1	20.45	20.47	20.49	21.5	2.5		
20	256QAM	1	1	18.81	18.76	18.73	19.5	4.5		
Channel				164320	166300	168300	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				821.5	831.5	841.5				
15	PI2 BPSK	1	1	22.66	22.62	22.55	24.0	0.0		
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				813	831.5	841				
10	PI2 BPSK	1	1	22.69	22.72	22.70	24.0	0.0		
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				816.5	831.5	846.5				
5	PI2 BPSK	1	1	22.71	22.80	22.75	24.0	0.0		

n30_Ant1 (DSI2,DSI4)										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				462000	462000					
Frequency (MHz)				2310						
10	PI2 BPSK	1	1		22.91					
10	PI2 BPSK	1	26		23.05		24.0	0.0		
10	PI2 BPSK	1	50		23.13					
10	PI2 BPSK	25	0		22.91		24.0	0.0		
10	PI2 BPSK	25	13		23.09		24.0	0.0		
10	PI2 BPSK	25	26		23.07		24.0	0.0		
10	PI2 BPSK	50	0		22.81		24.0	0.0		
10	QPSK	1	1		22.87					
10	QPSK	1	26		23.02		24.0	0.0		
10	QPSK	1	50		23.11					
10	QPSK	25	0		22.92		24.0	0.0		
10	QPSK	25	13		23.07		24.0	0.0		
10	QPSK	25	26		23.11		24.0	0.0		
10	QPSK	50	0		22.98		24.0	0.0		
10	16QAM	1	1		23.10		24.0	0.0		
10	64QAM	1	1		21.22		21.5	2.5		
10	256QAM	1	1		18.60		19.5	4.5		
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2307.5	2310	2312.5				
5	PI2 BPSK	1	1	22.92	23.04	23.10	24.0	0.0		

n66_Ant 1 (DSI2,DSI4)										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				345000	345000	345000				
Frequency (MHz)				1730	1745	1760				
40	PI2 BPSK	1	1	22.82	22.84	22.88				
40	PI2 BPSK	1	108	22.70	22.85	22.96	24.0	0.0		
40	PI2 BPSK	1	214	22.92	23.02	23.04				
40	PI2 BPSK	108	0	22.62	22.76	22.83	24.0	0.0		
40	PI2 BPSK	108	54	22.74	22.85	22.90	24.0	0.0		
40	PI2 BPSK	108	108	22.84	22.92	22.97	24.0	0.0		
40	PI2 BPSK	216	0	22.83	22.81	22.87				
40	QPSK	1	1	22.67	22.85	22.83				
40	QPSK	1	108	22.70	22.88	23.01	24.0	0.0		
40	QPSK	1	214	22.96	23.01	22.97				
40	QPSK	108	0	22.12	22.30	22.48	23.0	1.0		
40	QPSK	108	54	22.74	22.81	23.01	24.0	0.0		
40	QPSK	108	108	22.37	22.57	22.67	23.0	1.0		
40	QPSK	216	0	22.21	22.40	22.56				
40	16QAM	1	1	22.10	22.12	22.35	23.0	1.0		
40	64QAM	1	1	20.28	20.23	20.48	21.5	2.5		
40	256QAM	1	1	18.80	18.92	19.02	19.5	4.5		
Channel				343000	345000	347000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1725	1745	1765				
30	PI2 BPSK	1	1	22.58	22.66	22.81	24.0	0.0		
Channel				344000	345000	354000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1720	1745	1770				
20	PI2 BPSK	1	1	22.61	22.71	22.94	24.0	0.0		
Channel				343500	345000	354500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1717.5	1745	1772.5				
15	PI2 BPSK	1	1	22.55	22.77	22.87	24.0	0.0		
Channel				343000	345000	353000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1715	1745	1775				
10	PI2 BPSK	1	1	22.80	22.81	23.01	24.0	0.0		
Channel				342500	345000	355500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1712.5	1745	1777.5				
5	PI2 BPSK	1	1	22.55	22.81	22.99	24.0	0.0		



n71_Ant 8(DSI2,DSI3,DSI4,DSI6)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				134600	136100	137600			
Frequency (MHz)				673	680.5	688			
20	PI/2 BPSK	1	1	22.97	22.86	22.78			
20	PI/2 BPSK	1	53	22.80	22.83	22.60	24.0	0.0	
20	PI/2 BPSK	1	104	22.86	22.76	22.51			
20	PI/2 BPSK	50	0	22.89	22.77	22.67	24.0	0.0	
20	PI/2 BPSK	50	28	22.88	22.80	22.57	24.0	0.0	
20	PI/2 BPSK	50	56	22.84	22.72	22.44			
20	PI/2 BPSK	100	0	22.94	22.83	22.61	24.0	0.0	
20	QPSK	1	1	22.81	22.71	22.71			
20	QPSK	1	53	22.85	22.79	22.58	24.0	0.0	
20	QPSK	1	104	22.84	22.81	22.42			
20	QPSK	50	0	22.94	22.85	22.68	24.0	0.0	
20	QPSK	50	28	22.93	22.80	22.53	24.0	0.0	
20	QPSK	50	56	22.83	22.69	22.47			
20	QPSK	100	0	22.94	22.75	22.57	24.0	0.0	
20	16QAM	1	1	22.51	22.18	22.13	23.0	1.0	
20	64QAM	1	1	21.06	20.81	20.86	21.5	2.5	
20	256QAM	1	1	19.09	18.68	18.85	19.5	4.5	
Channel				134100	135100	136100	Tune-up limit	MPR	
Frequency (MHz)				670.5	680.5	690.5			
15	PI/2 BPSK	1	1	22.92	22.78	22.68	24.0	0.0	
Channel				133600	136100	138600	Tune-up limit	MPR	
Frequency (MHz)				668	680.5	693			
10	PI/2 BPSK	1	1	22.95	22.87	22.80	24.0	0.0	
Channel				133100	136100	139100	Tune-up limit	MPR	
Frequency (MHz)				665.5	680.5	695.5			
5	PI/2 BPSK	1	1	22.93	22.74	22.64	24.0	0.0	



n41_Ant 1 (DS12,DS14)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	529900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	23.15	23.09	23.21			
100	PV2 BPSK	1	137	23.21	23.18	23.02	24.0	0.0	
100	PV2 BPSK	1	271	23.35	23.31	23.25			
100	PV2 BPSK	135	0	23.10	23.02	22.81			
100	PV2 BPSK	135	69	23.11	23.00	22.80	24.0	0.0	
100	PV2 BPSK	135	138	23.17	23.03	22.83			
100	PV2 BPSK	270	0	23.04	23.00	22.93	23.5	0.5	
100	QPSK	1	1	23.07	23.06	23.04			
100	QPSK	1	137	23.19	23.12	22.81	24.0	0.0	
100	QPSK	1	271	23.31	23.24	22.73			
100	QPSK	135	0	23.04	23.10	22.56			
100	QPSK	135	69	23.07	23.05	22.39	24.0	0.0	
100	QPSK	135	138	23.09	22.27	22.64			
100	QPSK	270	0	22.97	22.69	22.47	23.0	1.0	
100	16QAM	1	1	22.94	22.91	22.87	23.0	1.0	
100	64QAM	1	1	21.37	21.39	21.21	21.5	2.5	
100	256QAM	1	1	19.14	19.14	19.15	19.5	4.5	
Channel				509200	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	PV2 BPSK	1	1	23.09	23.13	23.30	24.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	PV2 BPSK	1	1	23.08	23.17	23.24	24.0	0.0	
Channel				509200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	PV2 BPSK	1	1	23.21	23.28	23.18	24.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	PV2 BPSK	1	1	23.29	23.12	23.25	24.0	0.0	
Channel				509200	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	PV2 BPSK	1	1	23.16	23.17	23.24	24.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	PV2 BPSK	1	1	23.16	23.30	23.29	24.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	PV2 BPSK	1	1	23.29	23.19	23.17	24.0	0.0	

n41_HPUE_Ant 1 (DS12,DS14)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	529900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	25.37	25.51	25.41			
100	PV2 BPSK	1	137	25.32	25.13	25.08	27.0	0.0	
100	PV2 BPSK	1	271	25.56	25.29	25.13			
100	PV2 BPSK	135	0	25.32	25.24	25.36			
100	PV2 BPSK	135	69	25.38	25.01	25.30	27.0	0.0	
100	PV2 BPSK	135	138	25.40	25.06	25.36			
100	PV2 BPSK	270	0	25.26	24.55	24.73	26.5	0.5	
100	QPSK	1	1	25.41	25.55	25.25			
100	QPSK	1	137	25.30	25.28	25.22	27.0	0.0	
100	QPSK	1	271	25.21	25.33	25.17			
100	QPSK	135	0	25.35	25.13	25.14			
100	QPSK	135	69	25.31	25.15	25.17	27.0	0.0	
100	QPSK	135	138	25.13	25.23	25.18			
100	QPSK	270	0	24.01	24.13	24.12	26.0	1.0	
100	16QAM	1	1	23.06	24.18	24.03	26.0	1.0	
100	64QAM	1	1	21.62	22.72	22.32	24.5	2.5	
100	256QAM	1	1	21.44	21.53	21.15	22.5	4.5	
Channel				509200	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	PV2 BPSK	1	1	25.54	25.52	25.49	27.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	PV2 BPSK	1	1	25.51	25.45	25.44	27.0	0.0	
Channel				509200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	PV2 BPSK	1	1	25.48	25.45	25.07	27.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	PV2 BPSK	1	1	25.53	25.54	25.04	27.0	0.0	
Channel				509200	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	PV2 BPSK	1	1	25.51	25.52	25.09	27.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	PV2 BPSK	1	1	25.48	25.45	25.47	27.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	PV2 BPSK	1	1	25.25	25.28	25.37	27.0	0.0	



DSI3 for body worn for LAT

n2_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	Pi/2 BPSK	1	1	17.75	17.78	17.84			
20	Pi/2 BPSK	1	53	17.70	17.67	17.57	18.8	0.0	
20	Pi/2 BPSK	1	104	17.68	17.75	17.87			
20	Pi/2 BPSK	50	0	17.71	17.60	17.76	18.8	0.0	
20	Pi/2 BPSK	50	28	17.68	17.59	17.83	18.8	0.0	
20	Pi/2 BPSK	50	56	17.61	17.59	17.80			
20	Pi/2 BPSK	100	0	17.64	17.61	17.87	18.8	0.0	
20	QPSK	1	1	17.52	17.70	17.81			
20	QPSK	1	53	17.52	17.67	17.75	18.8	0.0	
20	QPSK	1	104	17.61	17.61	17.62			
20	QPSK	50	0	17.48	17.68	17.61	18.8	0.0	
20	QPSK	50	28	17.65	17.73	17.82	18.8	0.0	
20	QPSK	50	56	17.75	17.70	17.82			
20	QPSK	100	0	17.62	17.71	17.54	18.8	0.0	
20	16QAM	1	1	17.70	17.71	17.78	18.8	0.0	
20	64QAM	1	1	17.93	17.74	17.94	18.8	0.0	
20	256QAM	1	1	17.25	17.74	17.68	18.8	0.0	
Channel				371000	376000	380000	Tune-up limit (dB)	MPR	
Frequency (MHz)				1857.5	1880	1902.5			
15	Pi/2 BPSK	1	1	17.57	17.63	17.76	18.8	0.0	
Channel				371000	376000	381000	Tune-up limit (dB)	MPR	
Frequency (MHz)				1855	1880	1905			
10	Pi/2 BPSK	1	1	17.69	17.73	17.65	18.8	0.0	
Channel				370000	376000	381000	Tune-up limit (dB)	MPR	
Frequency (MHz)				1852.5	1880	1907.5			
5	Pi/2 BPSK	1	1	17.73	17.73	17.71	18.8	0.0	

n5_Ant 8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	Pi/2 BPSK	1	1	21.70	21.83	21.64			
20	Pi/2 BPSK	1	53	21.54	21.50	21.46	22.9	0.0	
20	Pi/2 BPSK	1	104	21.44	21.42	21.32			
20	Pi/2 BPSK	50	0	21.67	21.66	21.58	22.9	0.0	
20	Pi/2 BPSK	50	28	21.63	21.59	21.57	22.9	0.0	
20	Pi/2 BPSK	50	56	21.56	21.52	21.49			
20	Pi/2 BPSK	100	0	21.64	21.61	21.60	22.9	0.0	
20	QPSK	1	1	21.63	21.54	21.64			
20	QPSK	1	53	21.40	21.41	21.60	22.9	0.0	
20	QPSK	1	104	21.09	21.29	21.14			
20	QPSK	50	0	21.59	21.57	21.67	22.9	0.0	
20	QPSK	50	28	21.65	21.48	21.45	22.9	0.0	
20	QPSK	50	56	21.57	21.39	21.41			
20	QPSK	100	0	21.65	21.53	21.62	22.9	0.0	
20	16QAM	1	1	21.52	21.64	21.69	22.9	0.0	
20	64QAM	1	1	20.88	20.79	20.81	21.5	1.4	
20	256QAM	1	1	18.84	18.81	18.82	19.5	3.4	
Channel				165300	167300	169300	Tune-up limit (dB)	MPR	
Frequency (MHz)				831.5	836.5	841.5			
15	Pi/2 BPSK	1	1	21.36	21.48	21.20	22.9	0.0	
Channel				165800	167300	168800	Tune-up limit (dB)	MPR	
Frequency (MHz)				829	833.5	844			
10	Pi/2 BPSK	1	1	21.38	21.45	21.39	22.9	0.0	
Channel				165300	167300	169300	Tune-up limit (dB)	MPR	
Frequency (MHz)				826.5	836.5	846.5			
5	Pi/2 BPSK	1	1	21.59	21.57	21.38	22.9	0.0	

n25_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				374000	376500	379000			
Frequency (MHz)				1870	1882.5	1895			
40	Pi/2 BPSK	1	1	18.00	17.95	17.90			
40	Pi/2 BPSK	1	108	17.95	17.84	17.74	18.8	0.0	
40	Pi/2 BPSK	1	214	17.82	17.72	17.73			
40	Pi/2 BPSK	108	0	17.82	17.80	17.70	18.8	0.0	
40	Pi/2 BPSK	108	54	17.72	17.72	17.57	18.8	0.0	
40	Pi/2 BPSK	108	108	17.63	17.70	17.68			
40	Pi/2 BPSK	216	0	17.81	17.79	17.80	18.8	0.0	
40	QPSK	1	1	17.86	17.80	17.81			
40	QPSK	1	108	17.68	17.81	17.67	18.8	0.0	
40	QPSK	1	214	17.76	17.81	17.73			
40	QPSK	108	0	17.78	17.76	17.68	18.8	0.0	
40	QPSK	108	54	17.87	17.79	17.65	18.8	0.0	
40	QPSK	108	108	17.83	17.83	17.86			
40	QPSK	216	0	17.71	17.85	17.67	18.8	0.0	
40	16QAM	1	1	17.82	17.72	17.84	18.8	0.0	
40	64QAM	1	1	17.99	17.91	17.85	18.8	0.0	
40	256QAM	1	1	17.99	17.85	17.63	18.8	0.0	
Channel				373000	376500	380000	Tune-up limit (dB)	MPR	
Frequency (MHz)				1865	1882.5	1900			
30	Pi/2 BPSK	1	1	17.93	17.88	17.79	18.8	0.0	
Channel				372500	376500	380500	Tune-up limit (dB)	MPR	
Frequency (MHz)				1822.5	1882.5	1922.5			
25	Pi/2 BPSK	1	1	17.81	17.80	17.62	18.8	0.0	
Channel				372000	376500	381000	Tune-up limit (dB)	MPR	
Frequency (MHz)				1860	1882.5	1905			
20	Pi/2 BPSK	1	1	17.83	17.91	17.64	18.8	0.0	
Channel				371000	376500	381500	Tune-up limit (dB)	MPR	
Frequency (MHz)				1857.5	1882.5	1907.5			
15	Pi/2 BPSK	1	1	17.75	17.88	17.54	18.8	0.0	
Channel				371000	376500	382000	Tune-up limit (dB)	MPR	
Frequency (MHz)				1855	1882.5	1910			
10	Pi/2 BPSK	1	1	17.88	17.84	17.84	18.8	0.0	
Channel				370500	376500	382500	Tune-up limit (dB)	MPR	
Frequency (MHz)				1852.5	1882.5	1912.5			
5	Pi/2 BPSK	1	1	17.88	17.84	17.73	18.8	0.0	



n26_Ant 8										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
				824	831.5	839				
20	PI2 BPSK	1	1	21.35	21.22	21.32				
20	PI2 BPSK	1	53	21.72	21.21	21.19	22.9	0.0		
20	PI2 BPSK	1	104	21.53	21.13	21.29				
20	PI2 BPSK	50	0	21.52	21.32	21.20	22.9	0.0		
20	PI2 BPSK	50	28	21.46	21.28	21.23				
20	PI2 BPSK	50	56	21.50	21.31	21.30	22.9	0.0		
20	PI2 BPSK	100	0	21.50	21.29	21.27				
20	QPSK	1	1	20.94	21.12	20.96				
20	QPSK	1	53	20.94	21.02	21.09	22.9	0.0		
20	QPSK	1	104	21.04	21.04	20.97				
20	QPSK	50	0	21.11	21.19	21.26	22.9	0.0		
20	QPSK	50	28	21.05	21.18	21.19				
20	QPSK	50	56	21.30	21.20	21.21	22.9	0.0		
20	QPSK	100	0	21.20	21.21	21.41				
20	16QAM	1	1	21.11	21.01	20.92	22.9	0.0		
20	64QAM	1	1	20.45	20.47	20.49	21.5	1.4		
20	256QAM	1	1	18.81	18.76	18.73	19.5	3.4		
Channel										
Frequency (MHz)										
				16320	16830	16800				
15	PI2 BPSK	1	1	21.37	21.24	21.45	22.9	0.0		
Channel										
Frequency (MHz)										
				16300	16830	16800				
10	PI2 BPSK	1	1	21.47	21.34	21.45	22.9	0.0		
Channel										
Frequency (MHz)										
				16330	16830	16930				
5	PI2 BPSK	1	1	21.39	21.32	21.52	22.9	0.0		

n30_Ant1										
BW [MHz]	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)										
				2310						
10	PI2 BPSK	1	1		19.15					
10	PI2 BPSK	1	26		19.10		19.9	0.0		
10	PI2 BPSK	1	50		19.18					
10	PI2 BPSK	25	0		19.06		19.9	0.0		
10	PI2 BPSK	25	13		19.12					
10	PI2 BPSK	25	26		19.02		19.9	0.0		
10	PI2 BPSK	50	0		19.10					
10	QPSK	1	1		18.95					
10	QPSK	1	26		19.15		19.9	0.0		
10	QPSK	1	50		19.14					
10	QPSK	25	0		18.97		19.9	0.0		
10	QPSK	25	13		19.14					
10	QPSK	25	26		19.12		19.9	0.0		
10	QPSK	50	0		19.05					
10	16QAM	1	1		18.80		19.9	0.0		
10	64QAM	1	1		18.68		19.9	0.0		
10	256QAM	1	1		18.47		19.0	0.9		
Channel										
Frequency (MHz)										
				461500	462000	462500				
5	PI2 BPSK	1	1	19.05	19.00	19.11	19.9	0.0		

n66_Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
				1730	1745	1760				
40	PI2 BPSK	1	1	15.93	16.08	16.11				
40	PI2 BPSK	1	108	15.95	16.19	16.24	17.1	0.0		
40	PI2 BPSK	1	214	16.20	16.23	16.28				
40	PI2 BPSK	108	0	15.90	16.08	16.23	17.1	0.0		
40	PI2 BPSK	108	54	15.93	16.15	16.20	17.1	0.0		
40	PI2 BPSK	108	108	16.17	16.21	16.26	17.1	0.0		
40	PI2 BPSK	216	0	16.02	16.11	16.22				
40	QPSK	1	1	16.26	16.23	16.27				
40	QPSK	1	108	16.15	16.18	16.19	17.1	0.0		
40	QPSK	1	214	15.97	16.15	16.13				
40	QPSK	108	0	16.07	16.12	16.27	17.1	0.0		
40	QPSK	108	54	16.13	16.16	16.04	17.1	0.0		
40	QPSK	108	108	16.12	16.17	16.13				
40	QPSK	216	0	16.03	16.23	16.23	17.1	0.0		
40	16QAM	1	1	15.86	16.05	15.97	17.1	0.0		
40	64QAM	1	1	16.25	16.20	16.13	17.1	0.0		
40	256QAM	1	1	16.15	16.22	16.09	17.1	0.0		
Channel										
Frequency (MHz)										
				345000	349000	353000				
30	PI2 BPSK	1	1	15.82	16.25	16.12	17.1	0.0		
Channel										
Frequency (MHz)										
				344000	349000	354000				
20	PI2 BPSK	1	1	17.20	17.45	17.70				
Channel										
Frequency (MHz)										
				343500	349000	354500				
15	PI2 BPSK	1	1	15.73	16.11	16.21	17.1	0.0		
Channel										
Frequency (MHz)										
				343000	349000	350000				
10	PI2 BPSK	1	1	15.92	16.06	15.97	17.1	0.0		
Channel										
Frequency (MHz)										
				342500	349000	355500				
5	PI2 BPSK	1	1	17.25	17.45	17.75	17.1	0.0		



n41_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				507202	518598	529998			
Frequency (MHz)				2544.01	2592.99	2640			
100	PV2 BPSK	1	1	16.97	16.90	16.82			
100	PV2 BPSK	1	137	17.12	17.05	17.01	18.0	0.0	
100	PV2 BPSK	1	271	17.13	17.12	17.10			
100	PV2 BPSK	135	0	16.82	16.88	16.79			
100	PV2 BPSK	135	69	16.95	16.86	16.83	18.0	0.0	
100	PV2 BPSK	135	138	17.02	16.95	16.93			
100	PV2 BPSK	270	0	16.94	16.87	16.89	18.0	0.0	
100	QPSK	1	1	16.87	16.92	16.84			
100	QPSK	1	137	17.09	17.03	16.91	18.0	0.0	
100	QPSK	1	271	17.11	17.11	16.97			
100	QPSK	135	0	17.12	16.92	16.98			
100	QPSK	135	69	17.12	16.97	16.87	18.0	0.0	
100	QPSK	135	138	16.82	16.91	16.73			
100	QPSK	270	0	16.83	17.00	16.93	18.0	0.0	
100	16QAM	1	1	16.59	16.76	16.91	18.0	0.0	
100	64QAM	1	1	16.69	16.75	16.58	18.0	0.0	
100	256QAM	1	1	16.93	17.02	17.08	18.0	0.0	
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	PV2 BPSK	1	1	17.05	16.93	16.82	18.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	PV2 BPSK	1	1	17.00	16.75	16.81	18.0	0.0	
Channel				508200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	PV2 BPSK	1	1	17.07	17.05	16.93	18.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	PV2 BPSK	1	1	16.91	17.01	16.98	18.0	0.0	
Channel				508202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	PV2 BPSK	1	1	16.86	16.94	16.77	18.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	PV2 BPSK	1	1	17.06	16.82	16.67	18.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.98			
20	PV2 BPSK	1	1	17.02	16.77	16.91	18.0	0.0	

n41_HPUE_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				507202	518598	529998			
Frequency (MHz)				2544.01	2592.99	2640			
100	PV2 BPSK	1	1	16.97	16.90	16.82			
100	PV2 BPSK	1	137	17.12	17.05	17.01	18.0	0.0	
100	PV2 BPSK	1	271	17.13	17.12	17.10			
100	PV2 BPSK	135	0	16.82	16.88	16.79			
100	PV2 BPSK	135	69	16.95	16.86	16.83	18.0	0.0	
100	PV2 BPSK	135	138	17.02	16.95	16.93			
100	PV2 BPSK	270	0	16.94	16.87	16.89	18.0	0.0	
100	QPSK	1	1	16.87	16.92	16.84			
100	QPSK	1	137	17.09	17.03	16.91	18.0	0.0	
100	QPSK	1	271	17.11	17.11	16.97			
100	QPSK	135	0	17.12	16.92	16.98			
100	QPSK	135	69	17.12	16.97	16.87	18.0	0.0	
100	QPSK	135	138	16.82	16.91	16.73			
100	QPSK	270	0	16.83	17.00	16.93	18.0	0.0	
100	16QAM	1	1	16.59	16.76	16.91	18.0	0.0	
100	64QAM	1	1	16.69	16.75	16.58	18.0	0.0	
100	256QAM	1	1	16.93	17.02	17.08	18.0	0.0	
Channel				508200	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	PV2 BPSK	1	1	17.05	16.93	16.82	18.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	PV2 BPSK	1	1	17.00	16.75	16.81	18.0	0.0	
Channel				508200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	PV2 BPSK	1	1	17.07	17.05	16.93	18.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	PV2 BPSK	1	1	16.91	17.01	16.98	18.0	0.0	
Channel				508202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	PV2 BPSK	1	1	16.86	16.94	16.77	18.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	PV2 BPSK	1	1	17.06	16.82	16.67	18.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.98			
20	PV2 BPSK	1	1	17.02	16.77	16.91	18.0	0.0	



DSI3_Sim-Tx for Body-worn and Hotspot for LAT

n2_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37200	37600	38000			
Frequency (MHz)				1860	1880	1900			
20	Pi/2 BPSK	1	1	18.10	18.92	18.15	17.1	0.0	
20	Pi/2 BPSK	1	53	18.05	18.95	18.14			
20	Pi/2 BPSK	1	104	18.02	18.01	18.20			
20	Pi/2 BPSK	50	0	18.00	18.92	18.07	17.1	0.0	
20	Pi/2 BPSK	50	28	15.95	15.88	16.11			
20	Pi/2 BPSK	50	56	15.91	15.89	16.16	17.1	0.0	
20	Pi/2 BPSK	100	0	16.04	15.91	16.16			
20	QPSK	1	1	15.87	15.75	15.57			
20	QPSK	1	53	15.85	15.71	15.61	17.1	0.0	
20	QPSK	1	104	15.98	15.85	15.91			
20	QPSK	50	0	15.80	15.71	15.90	17.1	0.0	
20	QPSK	50	28	15.55	15.69	15.77			
20	QPSK	50	56	15.61	15.68	15.92	17.1	0.0	
20	QPSK	100	0	15.89	15.69	15.57			
20	16QAM	1	1	15.63	15.76	15.63	17.1	0.0	
20	64QAM	1	1	15.52	15.69	15.71	17.1	0.0	
20	256QAM	1	1	16.03	15.84	15.68	17.1	0.0	
Channel				37100	37500	38000	Tune-up limit (dB)	MPR	
Frequency (MHz)				1857.5	1880	1902.5			
15	Pi/2 BPSK	1	1	18.12	18.91	18.15	17.1	0.0	
Channel				37100	37600	381000	Tune-up limit (dB)	MPR	
Frequency (MHz)				1853	1890	1903			
10	Pi/2 BPSK	1	1	18.00	18.11	18.14	17.1	0.0	
Channel				37000	37600	381500	Tune-up limit (dB)	MPR	
Frequency (MHz)				1852.5	1880	1907.5			
5	Pi/2 BPSK	1	1	18.03	18.10	18.15	17.1	0.0	

n5_Ant 8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	Pi/2 BPSK	1	1	21.70	21.83	21.64			
20	Pi/2 BPSK	1	53	21.54	21.50	21.46	22.9	0.0	
20	Pi/2 BPSK	1	104	21.44	21.42	21.32			
20	Pi/2 BPSK	50	0	21.67	21.66	21.58	22.9	0.0	
20	Pi/2 BPSK	50	28	21.83	21.59	21.57	22.9	0.0	
20	Pi/2 BPSK	50	56	21.56	21.52	21.49	22.9	0.0	
20	Pi/2 BPSK	100	0	21.64	21.81	21.60			
20	QPSK	1	1	21.43	21.54	21.34			
20	QPSK	1	53	21.41	21.41	21.52	22.9	0.0	
20	QPSK	1	104	21.18	21.29	21.18			
20	QPSK	50	0	21.61	21.57	21.61	22.9	0.0	
20	QPSK	50	28	21.67	21.48	21.62	22.9	0.0	
20	QPSK	50	56	21.26	21.39	21.42	22.9	0.0	
20	QPSK	100	0	21.65	21.53	21.35			
20	16QAM	1	1	21.49	21.64	21.50	22.9	0.0	
20	64QAM	1	1	20.88	20.79	20.81	21.5	1.4	
20	256QAM	1	1	18.84	18.81	18.82	19.5	3.1	
Channel				165300	165300	165300	Tune-up limit (dB)	MPR	
Frequency (MHz)				831.5	836.5	841.5			
15	Pi/2 BPSK	1	1	21.56	21.52	21.27	22.9	0.0	
Channel				165800	167300	168800	Tune-up limit (dB)	MPR	
Frequency (MHz)				829	833.5	844			
10	Pi/2 BPSK	1	1	21.56	21.38	21.43	22.9	0.0	
Channel				165300	167300	169300	Tune-up limit (dB)	MPR	
Frequency (MHz)				828.5	836.5	846.5			
5	Pi/2 BPSK	1	1	21.56	21.47	21.46	22.9	0.0	

n25_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				374000	376500	379000			
Frequency (MHz)				1870	1882.5	1895			
40	Pi/2 BPSK	1	1	18.28	18.09	18.01			
40	Pi/2 BPSK	1	108	18.11	18.02	18.82	17.1	0.0	
40	Pi/2 BPSK	1	214	18.02	18.96	18.72			
40	Pi/2 BPSK	108	0	18.03	18.95	18.81	17.1	0.0	
40	Pi/2 BPSK	108	54	18.72	18.70	18.71	17.1	0.0	
40	Pi/2 BPSK	108	108	18.75	18.85	18.74			
40	Pi/2 BPSK	216	0	18.50	18.84	18.87	17.1	0.0	
40	QPSK	1	1	18.92	18.93	18.11			
40	QPSK	1	108	18.80	18.88	18.97	17.1	0.0	
40	QPSK	1	214	18.05	18.87	18.72			
40	QPSK	108	0	18.82	18.81	18.94	17.1	0.0	
40	QPSK	108	54	18.82	18.75	18.84	17.1	0.0	
40	QPSK	108	108	18.59	18.79	18.79	17.1	0.0	
40	QPSK	216	0	18.71	18.89	18.97			
40	16QAM	1	1	18.82	18.77	18.98	17.1	0.0	
40	64QAM	1	1	18.90	18.92	18.74	17.1	0.0	
40	256QAM	1	1	18.21	18.14	18.33	17.1	0.0	
Channel				373000	376500	380000	Tune-up limit (dB)	MPR	
Frequency (MHz)				1865	1882.5	1900			
30	Pi/2 BPSK	1	1	18.23	18.91	18.01	17.1	0.0	
Channel				372500	376500	380500	Tune-up limit (dB)	MPR	
Frequency (MHz)				1822.5	1882.5	1902.5			
25	Pi/2 BPSK	1	1	18.21	18.90	18.02	17.1	0.0	
Channel				372000	376500	381000	Tune-up limit (dB)	MPR	
Frequency (MHz)				1860	1882.5	1905			
20	Pi/2 BPSK	1	1	18.98	18.12	18.73	17.1	0.0	
Channel				371000	376500	381500	Tune-up limit (dB)	MPR	
Frequency (MHz)				1857.5	1882.5	1907.5			
15	Pi/2 BPSK	1	1	18.00	18.02	18.76	17.1	0.0	
Channel				371000	376500	382000	Tune-up limit (dB)	MPR	
Frequency (MHz)				1855	1882.5	1910			
10	Pi/2 BPSK	1	1	18.05	18.90	18.88	17.1	0.0	
Channel				370500	376500	382500	Tune-up limit (dB)	MPR	
Frequency (MHz)				1852.5	1882.5	1912.5			
5	Pi/2 BPSK	1	1	18.22	18.94	18.90	17.1	0.0	



n26_Ant 8									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164500	166300	167600			
Frequency (MHz)				824	831.5	839			
20	PI2 BPSK	1	1	21.35	21.22	21.32			
20	PI2 BPSK	1	53	21.72	21.21	21.19			
20	PI2 BPSK	1	104	21.53	21.13	21.29	22.9	0.0	
20	PI2 BPSK	50	0	21.52	21.32	21.20	22.9	0.0	
20	PI2 BPSK	50	28	21.46	21.26	21.23	22.9	0.0	
20	PI2 BPSK	50	56	21.50	21.31	21.30	22.9	0.0	
20	PI2 BPSK	100	0	21.50	21.29	21.27	22.9	0.0	
20	QPSK	1	1	20.94	21.12	20.96			
20	QPSK	1	53	20.94	21.02	21.09	22.9	0.0	
20	QPSK	1	104	21.04	21.04	20.97			
20	QPSK	50	0	21.11	21.19	21.26	22.9	0.0	
20	QPSK	50	28	21.05	21.18	21.19	22.9	0.0	
20	QPSK	50	56	21.30	21.20	21.21	22.9	0.0	
20	QPSK	100	0	21.20	21.21	21.41	22.9	0.0	
20	16QAM	1	1	21.11	21.01	20.92	22.9	0.0	
20	64QAM	1	1	20.45	20.47	20.49	21.5	1.4	
20	256QAM	1	1	18.81	18.76	18.73	19.5	3.4	
Channel				163300	166300	168000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	PI2 BPSK	1	1	21.37	21.24	21.45	22.9	0.0	
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	84			
10	PI2 BPSK	1	1	21.47	21.34	21.45	22.9	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	PI2 BPSK	1	1	21.39	21.32	21.52	22.9	0.0	

n30_Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				461500	462000	462500			
Frequency (MHz)				2310					
10	PI2 BPSK	1	1		17.94				
10	PI2 BPSK	1	26		17.95		18.7	0.0	
10	PI2 BPSK	1	50		17.96		18.7	0.0	
10	PI2 BPSK	25	0		17.98		18.7	0.0	
10	PI2 BPSK	25	13		17.90		18.7	0.0	
10	PI2 BPSK	25	26		17.84		18.7	0.0	
10	PI2 BPSK	50	0		17.84		18.7	0.0	
10	QPSK	1	1		17.72				
10	QPSK	1	26		17.92		18.7	0.0	
10	QPSK	1	50		17.86				
10	QPSK	25	0		17.82		18.7	0.0	
10	QPSK	25	13		17.80		18.7	0.0	
10	QPSK	25	26		17.92		18.7	0.0	
10	QPSK	50	0		17.82		18.7	0.0	
10	16QAM	1	1		17.83		18.7	0.0	
10	64QAM	1	1		17.46		18.7	0.0	
10	256QAM	1	1		17.01		18.7	0.0	
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	PI2 BPSK	1	1	17.88	17.74	17.94	18.7	0.0	

n66_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	349000	353000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	15.49	15.84	15.75			
40	PI2 BPSK	1	108	15.57	15.73	15.83	16.5	0.0	
40	PI2 BPSK	1	214	15.70	15.81	15.85	16.5	0.0	
40	PI2 BPSK	108	0	15.30	15.43	15.60	16.5	0.0	
40	PI2 BPSK	108	54	15.32	15.58	15.71	16.5	0.0	
40	PI2 BPSK	108	108	15.64	15.87	15.82	16.5	0.0	
40	PI2 BPSK	216	0	15.43	15.82	15.73	16.5	0.0	
40	QPSK	1	1	15.66	15.73	15.76			
40	QPSK	1	108	15.64	15.89	15.75	16.5	0.0	
40	QPSK	1	214	15.82	15.72	15.56			
40	QPSK	108	0	15.72	15.77	15.64	16.5	0.0	
40	QPSK	108	54	15.53	15.87	15.83	16.5	0.0	
40	QPSK	108	108	15.73	15.68	15.49	16.5	0.0	
40	QPSK	216	0	15.70	15.73	15.75	16.5	0.0	
40	16QAM	1	1	15.58	15.47	15.64	16.5	0.0	
40	64QAM	1	1	15.54	15.60	15.46	16.5	0.0	
40	256QAM	1	1	15.74	15.64	15.80	16.5	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	PI2 BPSK	1	1	15.38	15.73	15.82	16.5	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	PI2 BPSK	1	1	15.57	15.83	15.81	16.5	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	PI2 BPSK	1	1	15.46	15.71	15.84	16.5	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	PI2 BPSK	1	1	15.57	15.67	15.71	16.5	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	PI2 BPSK	1	1	15.44	15.81	15.71	16.5	0.0	



n41_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	15.30	15.42	15.35			
100	PV2 BPSK	1	137	15.58	15.45	15.53	16.4	0.0	
100	PV2 BPSK	1	271	15.63	15.61	15.59			
100	PV2 BPSK	135	0	15.28	15.38	15.35			
100	PV2 BPSK	135	69	15.47	15.37	15.38	16.4	0.0	
100	PV2 BPSK	135	138	15.61	15.43	15.40			
100	PV2 BPSK	270	0	15.48	15.34	15.37	16.4	0.0	
100	QPSK	1	1	15.41	15.32	15.23			
100	QPSK	1	137	15.34	15.43	15.23	16.4	0.0	
100	QPSK	1	271	15.38	15.33	15.27			
100	QPSK	135	0	15.45	15.38	15.34			
100	QPSK	135	69	15.48	15.36	15.32	16.4	0.0	
100	QPSK	135	138	15.28	15.43	15.30			
100	QPSK	270	0	15.29	15.34	15.31	16.4	0.0	
100	16QAM	1	1	15.04	15.16	15.27	16.4	0.0	
100	64QAM	1	1	15.00	15.19	15.21	16.4	0.0	
100	256QAM	1	1	15.39	15.37	15.55	16.4	0.0	
Channel				508200	518598	528098	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	PV2 BPSK	1	1	15.13	15.26	15.07	16.4	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	PV2 BPSK	1	1	15.07	15.12	15.40	16.4	0.0	
Channel				506200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	PV2 BPSK	1	1	15.22	15.40	15.27	16.4	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	PV2 BPSK	1	1	15.13	15.53	15.39	16.4	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	PV2 BPSK	1	1	15.46	15.38	15.16	16.4	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	PV2 BPSK	1	1	15.16	15.50	15.32	16.4	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.98			
20	PV2 BPSK	1	1	15.28	15.31	15.48	16.4	0.0	

n41_HPUE_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	15.30	15.42	15.35			
100	PV2 BPSK	1	137	15.58	15.45	15.53	16.4	0.0	
100	PV2 BPSK	1	271	15.63	15.61	15.59			
100	PV2 BPSK	135	0	15.28	15.38	15.35			
100	PV2 BPSK	135	69	15.47	15.37	15.38	16.4	0.0	
100	PV2 BPSK	135	138	15.61	15.43	15.40			
100	PV2 BPSK	270	0	15.48	15.34	15.37	16.4	0.0	
100	QPSK	1	1	15.41	15.32	15.23			
100	QPSK	1	137	15.34	15.43	15.23	16.4	0.0	
100	QPSK	1	271	15.38	15.33	15.27			
100	QPSK	135	0	15.45	15.38	15.34			
100	QPSK	135	69	15.48	15.36	15.32	16.4	0.0	
100	QPSK	135	138	15.28	15.43	15.30			
100	QPSK	270	0	15.29	15.34	15.31	16.4	0.0	
100	16QAM	1	1	15.04	15.16	15.27	16.4	0.0	
100	64QAM	1	1	15.00	15.19	15.21	16.4	0.0	
100	256QAM	1	1	15.39	15.37	15.55	16.4	0.0	
Channel				508200	518598	528098	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	PV2 BPSK	1	1	15.13	15.26	15.07	16.4	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	PV2 BPSK	1	1	15.07	15.12	15.40	16.4	0.0	
Channel				506200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	PV2 BPSK	1	1	15.22	15.40	15.27	16.4	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	PV2 BPSK	1	1	15.13	15.53	15.39	16.4	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	PV2 BPSK	1	1	15.46	15.38	15.16	16.4	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	PV2 BPSK	1	1	15.16	15.50	15.32	16.4	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.98			
20	PV2 BPSK	1	1	15.28	15.31	15.48	16.4	0.0	



DIS6 for Handheld Standalone/Sim-Tx for LAT

n2_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	Pi/2 BPSK	1	1	19.61	19.58	19.67	20.5	0.0	
20	Pi/2 BPSK	1	53	19.59	19.51	19.77			
20	Pi/2 BPSK	1	104	19.57	19.58	19.76			
20	Pi/2 BPSK	50	0	19.56	19.44	19.57	20.5	0.0	
20	Pi/2 BPSK	50	28	19.53	19.47	19.70			
20	Pi/2 BPSK	50	56	19.51	19.45	19.67			
20	Pi/2 BPSK	100	0	19.58	19.49	19.73	20.5	0.0	
20	QPSK	1	1	19.26	19.23	19.13			
20	QPSK	1	53	19.11	19.25	19.20	20.5	0.0	
20	QPSK	1	104	19.29	19.32	19.42			
20	QPSK	50	0	19.17	19.28	19.30	20.5	0.0	
20	QPSK	50	28	19.04	19.24	19.22			
20	QPSK	50	56	19.27	19.23	19.37	20.5	0.0	
20	QPSK	100	0	19.35	19.20	19.38			
20	16QAM	1	1	19.21	19.22	19.21	20.5	0.0	
20	64QAM	1	1	19.48	19.28	19.15	20.5	0.0	
20	256QAM	1	1	19.50	19.78	19.81	19.5	1.0	
Channel				372000	372000	380500	Tune-up limit (dB)	MPR	
Frequency (MHz)				1857.5	1880	1902.5			
15	Pi/2 BPSK	1	1	19.70	19.64	19.56	20.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dB)	MPR	
Frequency (MHz)				1825	1850	1905			
10	Pi/2 BPSK	1	1	19.47	19.68	19.48	20.5	0.0	
Channel				370500	376000	381500	Tune-up limit (dB)	MPR	
Frequency (MHz)				1852.5	1880	1907.5			
5	Pi/2 BPSK	1	1	19.63	19.47	19.62	20.5	0.0	

n25_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				374000	376500	379000			
Frequency (MHz)				1870	1882.5	1895			
40	Pi/2 BPSK	1	1	19.83	19.71	19.73	20.5	0.0	
40	Pi/2 BPSK	1	108	19.78	19.87	19.63			
40	Pi/2 BPSK	1	214	19.66	19.59	19.61			
40	Pi/2 BPSK	108	0	19.75	19.55	19.54	20.5	0.0	
40	Pi/2 BPSK	108	54	19.84	19.64	19.53	20.5	0.0	
40	Pi/2 BPSK	108	108	19.55	19.45	19.40			
40	Pi/2 BPSK	216	0	19.77	19.72	19.68	20.5	0.0	
40	QPSK	1	1	19.84	19.75	19.74			
40	QPSK	1	108	19.55	19.69	19.75	20.5	0.0	
40	QPSK	1	214	19.53	19.63	19.76			
40	QPSK	108	0	19.74	19.71	19.78	20.5	0.0	
40	QPSK	108	54	19.72	19.85	19.75	20.5	0.0	
40	QPSK	108	108	19.94	19.52	19.47	20.5	0.0	
40	QPSK	216	0	19.66	19.75	19.75			
40	16QAM	1	1	19.69	19.71	19.54	20.5	0.0	
40	64QAM	1	1	19.47	19.66	19.81	20.5	0.0	
40	256QAM	1	1	19.25	19.20	19.94	19.5	1.0	
Channel				372000	376500	380000	Tune-up limit (dB)	MPR	
Frequency (MHz)				1865	1882.5	1900			
30	Pi/2 BPSK	1	1	19.66	19.57	19.46	20.5	0.0	
Channel				372500	376500	380500	Tune-up limit (dB)	MPR	
Frequency (MHz)				1822.5	1832.5	1902.5			
25	Pi/2 BPSK	1	1	19.54	19.22	19.79	20.5	0.0	
Channel				372000	376500	381000	Tune-up limit (dB)	MPR	
Frequency (MHz)				1860	1882.5	1905			
20	Pi/2 BPSK	1	1	19.62	19.66	19.81	20.5	0.0	
Channel				371500	376500	381050	Tune-up limit (dB)	MPR	
Frequency (MHz)				1827.5	1832.5	1907.5			
15	Pi/2 BPSK	1	1	19.71	19.48	19.43	20.5	0.0	
Channel				371000	376500	382000	Tune-up limit (dB)	MPR	
Frequency (MHz)				1855	1832.5	1910			
10	Pi/2 BPSK	1	1	19.68	19.76	19.74	20.5	0.0	
Channel				370500	376500	382500	Tune-up limit (dB)	MPR	
Frequency (MHz)				1852.5	1882.5	1912.5			
5	Pi/2 BPSK	1	1	19.68	19.57	19.82	20.5	0.0	

n30_Ant1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				420000	420000	420000			
Frequency (MHz)				2310					
10	Pi/2 BPSK	1	1		22.24				
10	Pi/2 BPSK	1	26		22.35		23.3	0.0	
10	Pi/2 BPSK	1	50		22.38				
10	Pi/2 BPSK	25	0		22.20		23.3	0.0	
10	Pi/2 BPSK	25	13		22.32		23.3	0.0	
10	Pi/2 BPSK	25	26		22.27		23.3	0.0	
10	Pi/2 BPSK	50	0		22.28				
10	QPSK	1	1		22.31				
10	QPSK	1	26		22.30		23.3	0.0	
10	QPSK	1	50		22.35				
10	QPSK	25	0		22.21		23.3	0.0	
10	QPSK	25	13		22.34		23.3	0.0	
10	QPSK	25	26		22.33		23.3	0.0	
10	QPSK	50	0		22.29				
10	16QAM	1	1		22.10		23.3	0.0	
10	64QAM	1	1		21.22		21.5	1.8	
10	256QAM	1	1		18.90		19.5	3.8	
Channel				481500	482000	482500	Tune-up limit (dB)	MPR	
Frequency (MHz)				2307.5	2310	2312.5			
5	Pi/2 BPSK	1	1		22.21	22.15	22.07	23.3	0.0



n66_Ant 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	Pi/2 BPSK	1	1	18.46	18.54	18.65		
40	Pi/2 BPSK	1	108	18.47	18.67	18.82	19.8	0.0
40	Pi/2 BPSK	1	214	18.50	19.01	19.13		
40	Pi/2 BPSK	108	0	18.43	18.63	18.76	19.8	0.0
40	Pi/2 BPSK	108	54	18.50	18.70	18.82	19.8	0.0
40	Pi/2 BPSK	108	108	18.73	18.69	18.93	19.8	0.0
40	Pi/2 BPSK	216	0	18.53	18.70	18.76		
40	QPSK	1	1	18.56	18.71	18.99		
40	QPSK	1	108	18.87	18.90	18.84	19.8	0.0
40	QPSK	1	214	19.05	19.03	18.93		
40	QPSK	108	0	18.58	18.74	18.74	19.8	0.0
40	QPSK	108	54	18.87	18.85	18.95	19.8	0.0
40	QPSK	108	108	18.87	19.03	18.95	19.8	0.0
40	QPSK	216	0	18.84	18.99	18.82		
40	16QAM	1	1	18.83	18.72	18.57	19.8	0.0
40	64QAM	1	1	18.45	18.61	18.82	19.8	0.0
40	256QAM	1	1	17.77	17.65	17.67	18.0	1.3
Channel				342000	345000	348000	Tune-up limit	MPR
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)
30	Pi/2 BPSK	1	1	18.62	18.36	18.47	19.8	0.0
Channel				344000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	Pi/2 BPSK	1	1	18.29	18.71	18.84	19.8	0.0
Channel				343000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	Pi/2 BPSK	1	1	18.55	18.60	18.50	19.8	0.0
Channel				343000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	Pi/2 BPSK	1	1	18.54	18.48	18.45	19.8	0.0
Channel				342500	349000	355500	Tune-up limit	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	Pi/2 BPSK	1	1	18.36	18.48	18.67	19.8	0.0



n41_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	21.50	21.38	21.30			
100	PV2 BPSK	1	137	21.51	21.58	21.48	22.5	0.0	
100	PV2 BPSK	1	271	21.72	21.61	21.65			
100	PV2 BPSK	135	0	21.33	21.36	21.40			
100	PV2 BPSK	135	69	21.37	21.44	21.45	22.5	0.0	
100	PV2 BPSK	135	138	21.68	21.49	21.39			
100	PV2 BPSK	270	0	21.70	21.42	21.35	22.5	0.0	
100	QPSK	1	1	21.14	21.24	21.23			
100	QPSK	1	137	21.48	21.50	21.53	22.5	0.0	
100	QPSK	1	271	21.46	21.60	21.64			
100	QPSK	135	0	21.37	21.34	21.32			
100	QPSK	135	69	21.24	21.37	21.36	22.5	0.0	
100	QPSK	135	138	20.75	20.57	20.51			
100	QPSK	270	0	19.74	19.80	19.67	22.5	0.0	
100	16QAM	1	1	19.26	19.32	19.21	22.5	0.0	
100	64QAM	1	1	18.90	18.81	18.62	20.5	2.0	
100	256QAM	1	1	17.52	17.41	17.47	18.5	4.0	
Channel				508200	518598	528098	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	PV2 BPSK	1	1	21.61	21.47	21.15	22.5	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	PV2 BPSK	1	1	21.58	21.39	21.14	22.5	0.0	
Channel				506200	518598	531098	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	PV2 BPSK	1	1	21.52	21.29	21.35	22.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	PV2 BPSK	1	1	21.48	21.51	21.30	22.5	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	PV2 BPSK	1	1	21.52	21.29	21.29	22.5	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	PV2 BPSK	1	1	21.30	21.22	21.31	22.5	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.98			
20	PV2 BPSK	1	1	21.48	21.40	21.31	22.5	0.0	

n41_HPUE_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PV2 BPSK	1	1	21.50	21.38	21.30			
100	PV2 BPSK	1	137	21.51	21.58	21.48	22.5	0.0	
100	PV2 BPSK	1	271	21.72	21.61	21.65			
100	PV2 BPSK	135	0	21.33	21.36	21.40			
100	PV2 BPSK	135	69	21.37	21.44	21.45	22.5	0.0	
100	PV2 BPSK	135	138	21.68	21.49	21.39			
100	PV2 BPSK	270	0	21.70	21.42	21.35	22.5	0.0	
100	QPSK	1	1	21.14	21.24	21.23			
100	QPSK	1	137	21.48	21.50	21.53	22.5	0.0	
100	QPSK	1	271	21.46	21.60	21.64			
100	QPSK	135	0	21.37	21.34	21.32			
100	QPSK	135	69	21.24	21.37	21.36	22.5	0.0	
100	QPSK	135	138	20.75	20.57	20.51			
100	QPSK	270	0	19.74	19.80	19.67	22.5	0.0	
100	16QAM	1	1	19.26	19.32	19.21	22.5	0.0	
100	64QAM	1	1	18.90	18.81	18.62	20.5	2.0	
100	256QAM	1	1	17.52	17.41	17.47	18.5	4.0	
Channel				508200	518598	528098	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	PV2 BPSK	1	1	21.61	21.47	21.15	22.5	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	PV2 BPSK	1	1	21.58	21.39	21.14	22.5	0.0	
Channel				506200	518598	531098	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	PV2 BPSK	1	1	21.52	21.29	21.35	22.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	PV2 BPSK	1	1	21.48	21.51	21.30	22.5	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	PV2 BPSK	1	1	21.52	21.29	21.29	22.5	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	PV2 BPSK	1	1	21.30	21.22	21.31	22.5	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.98			
20	PV2 BPSK	1	1	21.48	21.40	21.31	22.5	0.0	



BT BR/EDR

Mode	Channel	Frequency (MHz)	Average power (dBm)									Tune-up Limit
			Packet Type									
			DH1	DH3	DH5	2DH1	2DH3	2DH5	3DH1	3DH3	3DH5	
Bluetooth	CH 0	2402	11.60	11.30	11.10	7.20	7.00	6.90	7.20	7.00	6.90	12
	CH 39	2441	11.60	11.20	11.00	7.10	6.90	6.80	7.10	6.90	6.70	
	CH 78	2480	11.10	10.80	10.60	6.60	6.40	6.30	6.60	6.40	6.30	

BT LE

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			GFSK	
LE	CH 00	2402	6.00	
	CH 19	2440	5.90	
	CH 39	2480	5.80	
Tune-up Limit			7	

BT LE 5.0

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	6.00	6.10
	CH 19	2440	5.90	6.00
	CH 39	2480	5.80	5.80
Tune-up Limit			7	7



Full Power

2.4GHz WLAN						
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps		1	2412	20.00	22.00
		6	2437	20.10	22.00	
		11	2462	20.00	22.00	
802.11g 6Mbps		1	2412	19.20	21.00	98.28
		6	2437	19.10	21.00	
		11	2462	19.00	21.00	
802.11n-HT20 MCS0		1	2412	19.30	21.00	98.15
		6	2437	19.10	21.00	
		11	2462	19.20	21.00	

5.2GHz WLAN						
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps		36	5180	17.74	19.00
		40	5200	18.55	20.00	
		44	5220	18.54	20.00	
		48	5240	18.57	20.00	
802.11n-HT20 MCS0		36	5180	17.05	18.50	98.16
		40	5200	18.74	20.00	
		44	5220	18.85	20.00	
		48	5240	18.95	20.00	
802.11n-HT40 MCS0		38	5190	11.72	13.00	96.75
		46	5230	17.42	19.00	
		36	5180	17.01	18.50	
802.11ac-VHT20 MCS0		40	5200	18.72	19.50	98.02
		44	5220	18.81	20.00	
		48	5240	18.92	20.00	
		38	5190	11.69	13.00	
802.11ac-VHT40 MCS0		46	5230	17.40	19.00	96.05
		42	5210	11.54	13.00	
		42	5210	11.54	13.00	

5.3GHz WLAN						
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps		52	5260	18.29	20.00
		56	5280	18.26	20.00	
		60	5300	18.25	20.00	
		64	5320	17.94	19.50	
802.11n-HT20 MCS0		52	5260	18.09	20.00	98.16
		56	5280	18.75	20.00	
		60	5300	18.13	20.00	
		64	5320	17.29	19.00	
802.11n-HT40 MCS0		54	5270	17.28	19.00	96.75
		62	5310	15.97	17.50	
		52	5260	17.95	19.50	
802.11ac-VHT20 MCS0		56	5280	18.62	20.00	98.02
		60	5300	17.99	19.50	
		64	5320	17.15	19.00	
		54	5270	17.27	18.50	
802.11ac-VHT40 MCS0		62	5310	15.90	17.50	96.05
		58	5290	13.96	15.50	
		58	5290	13.96	15.50	

5.5GHz WLAN						
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps		100	5500	17.72	19.00
		116	5580	17.64	19.00	
		132	5660	17.38	18.50	
		140	5700	16.16	17.00	
802.11n-HT20 MCS0		100	5500	17.70	19.00	98.16
		116	5580	17.71	19.00	
		132	5660	17.67	19.00	
		140	5700	15.73	17.00	
802.11n-HT40 MCS0		102	5510	17.01	18.00	96.75
		110	5550	16.82	18.00	
		134	5670	16.00	17.00	
		100	5500	17.66	19.00	
802.11ac-VHT20 MCS0		116	5580	17.68	19.00	98.02
		132	5660	17.62	19.00	
		140	5700	15.63	17.00	
		102	5510	16.03	17.00	
802.11ac-VHT40 MCS0		110	5550	16.16	17.00	96.05
		134	5670	15.97	17.00	
		106	5530	12.71	13.50	

5.8GHz WLAN						
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps		149	5745	16.73	20.00
		157	5785	16.74	20.00	
		165	5825	16.82	20.00	
802.11n-HT20 MCS0		149	5745	18.91	20.00	98.16
		157	5785	18.86	20.00	
		165	5825	18.99	20.00	
802.11n-HT40 MCS0		151	5755	17.80	19.00	96.75
		159	5795	17.93	19.00	
		149	5745	18.90	20.00	
802.11ac-VHT20 MCS0		157	5785	18.85	20.00	98.02
		165	5825	18.95	20.00	
		151	5755	17.06	18.00	
802.11ac-VHT40 MCS0		159	5795	16.83	18.00	96.05
		155	5775	16.88	18.00	
		155	5775	16.88	18.00	



Head Standalone

2.4GHz WLAN						
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps		1	2412	19.10	20.50
		6	2437	19.10	20.50	
		11	2462	19.10	20.50	
802.11g 6Mbps		1	2412	18.40	20.00	98.28
		6	2437	18.30	20.00	
		11	2462	18.40	20.00	
802.11n-HT20 MCS0		1	2412	18.40	20.00	98.15
		6	2437	18.40	20.00	
		11	2462	18.50	20.00	

5.2GHz WLAN						
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps		36	5180	17.74	19.00
		40	5200	18.55	20.00	
		44	5220	18.54	20.00	
		48	5240	18.57	20.00	
802.11n-HT20 MCS0		36	5180	17.05	18.50	98.16
		40	5200	18.74	20.00	
		44	5220	18.85	20.00	
		48	5240	18.95	20.00	
802.11n-HT40 MCS0		38	5190	11.72	13.00	96.75
		46	5230	17.42	19.00	
		36	5180	17.01	18.50	
802.11ac-VHT20 MCS0		40	5200	18.72	19.50	98.02
		44	5220	18.81	20.00	
		48	5240	18.92	20.00	
		38	5190	11.69	13.00	
802.11ac-VHT40 MCS0		46	5230	17.40	19.00	96.05
		42	5210	11.54	13.00	
		42	5210	11.54	13.00	

5.3GHz WLAN						
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps		52	5260	18.29	20.00
		56	5280	18.26	20.00	
		60	5300	18.25	20.00	
		64	5320	17.94	19.50	
802.11n-HT20 MCS0		52	5260	18.09	20.00	98.16
		56	5280	18.75	20.00	
		60	5300	18.13	20.00	
		64	5320	17.29	19.00	
802.11n-HT40 MCS0		54	5270	17.28	19.00	96.75
		62	5310	15.97	17.50	
		52	5260	17.95	19.50	
802.11ac-VHT20 MCS0		56	5280	18.62	20.00	98.02
		60	5300	17.99	19.50	
		64	5320	17.15	19.00	
		54	5270	17.27	18.50	
802.11ac-VHT40 MCS0		62	5310	15.90	17.50	96.05
		58	5290	13.96	15.50	
		58	5290	13.96	15.50	

5.5GHz WLAN						
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps		100	5500	17.72	19.00
		116	5580	17.64	19.00	
		132	5660	17.38	18.50	
		140	5700	16.16	17.00	
802.11n-HT20 MCS0		100	5500	17.70	19.00	98.16
		116	5580	17.71	19.00	
		132	5660	17.67	19.00	
		140	5700	15.73	17.00	
802.11n-HT40 MCS0		102	5510	17.01	18.00	96.75
		110	5550	16.82	18.00	
		134	5670	16.00	17.00	
		100	5500	17.66	19.00	
802.11ac-VHT20 MCS0		116	5580	17.68	19.00	98.02
		132	5660	17.62	19.00	
		140	5700	15.63	17.00	
		102	5510	16.03	17.00	
802.11ac-VHT40 MCS0		110	5550	16.16	17.00	96.05
		134	5670	15.97	17.00	
		106	5530	12.71	13.50	

5.8GHz WLAN						
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps		149	5745	18.73	20.00
		157	5785	18.74	20.00	
		165	5825	18.82	20.00	
802.11n-HT20 MCS0		149	5745	18.91	20.00	98.16
		157	5785	18.86	20.00	
		165	5825	18.99	20.00	
802.11n-HT40 MCS0		151	5755	17.80	19.00	96.75
		159	5795	17.93	19.00	
		149	5745	18.90	20.00	
802.11ac-VHT20 MCS0		157	5785	18.85	20.00	98.02
		165	5825	18.95	20.00	
		151	5755	17.06	18.00	
802.11ac-VHT40 MCS0		159	5795	16.83	18.00	96.05
		155	5775	16.88	18.00	



Head Sim-Tx

2.4GHz WLAN						
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps		1	2412	14.60	16.00
		6	2437	14.60	16.00	
		11	2462	14.60	16.00	
802.11g 6Mbps		1	2412	14.30	15.50	98.28
		6	2437	14.20	15.50	
		11	2462	14.30	15.50	
802.11n-HT20 MCS0		1	2412	14.30	15.50	98.15
		6	2437	14.30	15.50	
		11	2462	14.40	15.50	

5.2GHz WLAN						
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps		36	5180	17.74	19.00
		40	5200	18.55	20.00	
		44	5220	18.54	20.00	
		48	5240	18.57	20.00	
802.11n-HT20 MCS0		36	5180	17.05	18.50	98.16
		40	5200	18.74	20.00	
		44	5220	18.85	20.00	
		48	5240	18.95	20.00	
802.11n-HT40 MCS0		38	5190	11.72	13.00	96.75
		46	5230	17.42	19.00	
		36	5180	17.01	18.50	
802.11ac-VHT20 MCS0		40	5200	18.72	19.50	98.02
		44	5220	18.81	20.00	
		48	5240	18.92	20.00	
		38	5190	11.69	13.00	
802.11ac-VHT40 MCS0		46	5230	17.40	19.00	96.05
		42	5210	11.54	13.00	
		42	5210	11.54	13.00	

5.3GHz WLAN						
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps		52	5260	18.29	20.00
		56	5280	18.26	20.00	
		60	5300	18.25	20.00	
		64	5320	17.94	19.50	
802.11n-HT20 MCS0		52	5260	18.09	20.00	98.16
		56	5280	18.75	20.00	
		60	5300	18.13	20.00	
		64	5320	17.29	19.00	
802.11n-HT40 MCS0		54	5270	17.28	19.00	96.75
		62	5310	15.97	17.50	
		52	5260	17.95	19.50	
802.11ac-VHT20 MCS0		56	5280	18.62	20.00	98.02
		60	5300	17.99	19.50	
		64	5320	17.15	19.00	
		54	5270	17.27	18.50	
802.11ac-VHT40 MCS0		62	5310	15.90	17.50	96.05
		58	5290	13.96	15.50	
		58	5290	13.96	15.50	

5.5GHz WLAN						
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps		100	5500	17.72	19.00
		116	5580	17.64	19.00	
		132	5660	17.38	18.50	
		140	5700	16.16	17.00	
802.11n-HT20 MCS0		100	5500	17.70	19.00	98.16
		116	5580	17.71	19.00	
		132	5660	17.67	19.00	
		140	5700	15.73	17.00	
802.11n-HT40 MCS0		102	5510	17.01	18.00	96.75
		110	5550	16.82	18.00	
		134	5670	16.00	17.00	
		100	5500	17.66	19.00	
802.11ac-VHT20 MCS0		116	5580	17.68	19.00	98.02
		132	5660	17.62	19.00	
		140	5700	15.63	17.00	
		102	5510	16.03	17.00	
802.11ac-VHT40 MCS0		110	5550	16.16	17.00	96.05
		134	5670	15.97	17.00	
		106	5530	12.71	13.50	

5.8GHz WLAN						
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps		149	5745	16.73	20.00
		157	5785	16.74	20.00	
		165	5825	16.82	20.00	
802.11n-HT20 MCS0		149	5745	18.91	20.00	98.16
		157	5785	18.86	20.00	
		165	5825	18.99	20.00	
802.11n-HT40 MCS0		151	5755	17.80	19.00	96.75
		159	5795	17.93	19.00	
		149	5745	18.90	20.00	
802.11ac-VHT20 MCS0		157	5785	18.85	20.00	98.02
		165	5825	18.95	20.00	
		151	5755	17.06	18.00	
802.11ac-VHT40 MCS0		159	5795	16.83	18.00	96.05
		155	5775	16.88	18.00	



Body-worn and Hotspot Standalone

2.4GHz WLAN						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
						802.11b 1Mbps
	6	2437	19.40	21.00		
	11	2462	19.40	21.00		
802.11g 6Mbps	1	2412	18.40	20.00	98.28	
	6	2437	18.30	20.00		
	11	2462	18.40	20.00		
802.11n-HT20 MCS0	1	2412	18.40	20.00	98.15	
	6	2437	18.40	20.00		
	11	2462	18.50	20.00		

5.2GHz WLAN						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
						802.11a 6Mbps
	40	5200	9.51	11.00		
	44	5220	9.50	11.00		
	48	5240	9.53	11.00		
802.11n-HT20 MCS0	36	5180	9.25	11.00	98.16	
	40	5200	9.57	11.00		
	44	5220	9.68	11.00		
	48	5240	9.78	11.00		
802.11n-HT40 MCS0	38	5190	9.05	10.50	96.75	
	46	5230	9.02	10.50		
	36	5180	9.32	11.00		
802.11ac-VHT20 MCS0	40	5200	9.53	11.00	98.02	
	44	5220	9.64	11.00		
	48	5240	9.75	11.00		
802.11ac-VHT40 MCS0	38	5190	8.98	10.50	96.05	
	46	5230	9.95	10.50		
802.11ac-VHT80 MCS0	42	5210	9.04	10.50	92.99	

5.3GHz WLAN						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
						802.11a 6Mbps
	56	5280	8.53	10.00		
	60	5300	8.52	10.00		
	64	5320	8.21	9.50		
802.11n-HT20 MCS0	52	5260	8.44	10.00	98.16	
	56	5280	9.10	10.00		
	60	5300	8.48	10.00		
	64	5320	8.28	10.00		
802.11n-HT40 MCS0	54	5270	8.17	9.50	96.75	
	62	5310	8.11	9.50		
	52	5260	8.88	10.00		
802.11ac-VHT20 MCS0	56	5280	8.53	10.00	98.02	
	60	5300	8.47	10.00		
	64	5320	8.60	10.00		
802.11ac-VHT40 MCS0	54	5270	8.12	9.50	96.05	
	62	5310	8.05	9.50		
802.11ac-VHT80 MCS0	58	5290	8.24	9.50	92.99	

5.5GHz WLAN						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
						802.11a 6Mbps
	116	5580	9.56	11.00		
	132	5660	9.30	10.50		
	140	5700	8.08	9.00		
802.11n-HT20 MCS0	100	5500	9.61	11.00	98.16	
	116	5580	9.60	11.00		
	132	5660	9.56	11.00		
	140	5700	9.21	10.50		
802.11n-HT40 MCS0	102	5510	9.08	10.50	96.75	
	110	5550	8.85	10.50		
	134	5670	9.02	10.50		
	100	5500	9.55	11.00		
802.11ac-VHT20 MCS0	116	5580	9.57	11.00	98.02	
	132	5660	9.51	11.00		
	140	5700	9.56	11.00		
802.11ac-VHT40 MCS0	102	5510	8.98	10.50	96.05	
	110	5550	8.75	10.50		
	134	5670	8.92	10.50		
802.11ac-VHT80 MCS0	106	5530	8.78	10.50	92.99	

5.8GHz WLAN						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
						802.11a 6Mbps
	157	5785	10.55	12.00		
	165	5825	10.63	12.00		
802.11n-HT20 MCS0	149	5745	10.60	12.00	98.16	
	157	5785	10.55	12.00		
	165	5825	10.68	12.00		
802.11n-HT40 MCS0	151	5755	9.85	11.50	96.75	
	159	5795	9.86	11.50		
802.11ac-VHT20 MCS0	149	5745	10.59	12.00	98.02	
	157	5785	10.54	12.00		
	165	5825	10.64	12.00		
802.11ac-VHT40 MCS0	151	5755	9.76	11.50	96.05	
	159	5795	9.78	11.50		
802.11ac-VHT80 MCS0	155	5775	9.68	11.50	92.96	



Body-worn and Hotspot Sim-Tx

2.4GHz WLAN						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
						802.11b 1Mbps
	6	2437	17.40	19.00		
	11	2462	17.40	19.00		
802.11g 6Mbps	1	2412	16.40	18.00	98.28	
	6	2437	16.30	18.00		
	11	2462	16.40	18.00		
802.11n-HT20 MCS0	1	2412	16.40	18.00	98.15	
	6	2437	16.40	18.00		
	11	2462	16.50	18.00		

5.2GHz WLAN						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
						802.11a 6Mbps
40	5200	6.01	7.50			
44	5220	6.00	7.50			
48	5240	6.03	7.50			
802.11n-HT20 MCS0	36	5180	6.05	7.50	98.16	
	40	5200	6.07	7.50		
	44	5220	6.18	7.50		
	48	5240	6.28	7.50		
802.11n-HT40 MCS0	38	5190	5.72	7.00	96.75	
	46	5230	5.42	7.00		
	36	5180	5.82	7.50		
802.11ac-VHT20 MCS0	40	5200	6.03	7.50	98.02	
	44	5220	6.14	7.50		
	48	5240	6.25	7.50		
802.11ac-VHT40 MCS0	38	5190	5.68	7.00	96.05	
	46	5230	5.39	7.00		
	802.11ac-VHT80 MCS0	42	5210	5.54		7.00

5.3GHz WLAN						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
						802.11a 6Mbps
56	5280	6.03	7.50			
60	5300	6.02	7.50			
64	5320	5.71	7.00			
802.11n-HT20 MCS0	52	5260	5.94	7.50	98.16	
	56	5280	6.60	7.50		
	60	5300	5.98	7.50		
	64	5320	5.32	7.50		
802.11n-HT40 MCS0	54	5270	5.28	7.00	96.75	
	62	5310	5.25	7.00		
	52	5260	5.92	7.00		
802.11ac-VHT20 MCS0	56	5280	6.03	7.50	98.02	
	60	5300	5.97	7.00		
	64	5320	6.10	7.50		
802.11ac-VHT40 MCS0	54	5270	5.22	7.00	96.05	
	62	5310	5.19	7.00		
	802.11ac-VHT80 MCS0	58	5290	5.45		7.00

5.5GHz WLAN						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
						802.11a 6Mbps
116	5580	6.56	8.00			
132	5660	6.30	7.50			
140	5700	5.08	8.00			
802.11n-HT20 MCS0	100	5500	6.61	8.00	98.16	
	116	5580	6.60	8.00		
	132	5660	6.56	8.00		
	140	5700	6.52	8.00		
802.11n-HT40 MCS0	102	5510	6.03	7.50	96.75	
	110	5550	6.25	7.50		
	134	5670	5.62	7.50		
	100	5500	6.55	8.00		
802.11ac-VHT20 MCS0	116	5580	6.57	8.00	98.02	
	132	5660	6.51	8.00		
	140	5700	6.56	8.00		
802.11ac-VHT40 MCS0	102	5510	5.95	7.50	96.05	
	110	5550	6.17	7.50		
	134	5670	5.54	7.50		
802.11ac-VHT80 MCS0	106	5530	5.21	7.50	92.99	

5.8GHz WLAN						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
						802.11a 6Mbps
157	5785	8.55	10.00			
165	5825	8.63	10.00			
802.11n-HT20 MCS0	149	5745	8.60	10.00	98.16	
	157	5785	8.55	10.00		
	165	5825	8.68	10.00		
802.11n-HT40 MCS0	151	5755	8.06	9.50	96.75	
	159	5795	7.92	9.50		
802.11ac-VHT20 MCS0	149	5745	8.59	10.00	98.02	
	157	5785	8.54	10.00		
	165	5825	8.64	10.00		
802.11ac-VHT40 MCS0	151	5755	7.99	9.50	96.05	
	159	5795	7.85	9.50		
802.11ac-VHT80 MCS0	155	5775	7.62	9.50	92.96	



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2.4GHz WLAN						
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps		1	2412	20.00	22.00
		6	2437	20.10	22.00	
		11	2462	20.00	22.00	
802.11g 6Mbps		1	2412	19.20	21.00	98.28
		6	2437	19.10	21.00	
		11	2462	19.00	21.00	
802.11n-HT20 MCS0		1	2412	19.30	21.00	98.15
		6	2437	19.10	21.00	
		11	2462	19.20	21.00	

5.2GHz WLAN						
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps		36	5180	14.82	16.50
		40	5200	15.63	17.50	
		44	5220	15.62	17.50	
		48	5240	15.65	17.50	
802.11n-HT20 MCS0		36	5180	15.87	17.50	98.16
		40	5200	15.81	17.50	
		44	5220	15.92	17.50	
		48	5240	16.02	17.50	
802.11n-HT40 MCS0		38	5190	11.72	13.00	96.75
		46	5230	15.63	17.00	
		36	5180	15.79	17.50	
802.11ac-VHT20 MCS0		40	5200	15.79	17.50	98.02
		44	5220	15.88	17.50	
		48	5240	15.99	17.50	
		38	5190	11.69	13.00	
802.11ac-VHT40 MCS0		46	5230	15.56	17.00	96.05
		42	5210	11.54	13.00	
		42	5210	11.54	13.00	

5.3GHz WLAN						
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps		52	5260	16.36	18.00
		56	5280	16.33	18.00	
		60	5300	16.32	18.00	
		64	5320	16.01	17.50	
802.11n-HT20 MCS0		52	5260	16.13	18.00	98.16
		56	5280	16.79	18.00	
		60	5300	16.17	18.00	
		64	5320	16.48	18.00	
802.11n-HT40 MCS0		54	5270	15.98	17.50	96.75
		62	5310	16.05	17.50	
		52	5260	15.99	17.50	
802.11ac-VHT20 MCS0		56	5280	16.66	18.00	98.02
		60	5300	16.03	17.50	
		64	5320	15.19	17.00	
		54	5270	15.92	17.50	
802.11ac-VHT40 MCS0		62	5310	15.99	17.50	96.05
		58	5290	13.96	15.50	
		58	5290	13.96	15.50	

5.5GHz WLAN						
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps		100	5500	15.99	17.00
		116	5580	15.58	17.00	
		132	5660	15.32	16.50	
		140	5700	14.70	15.00	
802.11n-HT20 MCS0		100	5500	15.89	17.00	98.16
		116	5580	15.90	17.00	
		132	5660	15.86	17.00	
		140	5700	15.73	17.00	
802.11n-HT40 MCS0		102	5510	15.25	16.50	96.75
		110	5550	14.89	16.50	
		134	5670	15.05	16.50	
		100	5500	15.95	17.00	
802.11ac-VHT20 MCS0		116	5580	15.96	17.00	98.02
		132	5660	15.91	17.00	
		140	5700	15.19	16.50	
		102	5510	15.17	16.50	
802.11ac-VHT40 MCS0		110	5550	14.81	16.50	96.05
		134	5670	14.97	16.50	
		106	5530	12.71	13.50	

5.8GHz WLAN						
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps		149	5745	18.18	19.50
		157	5785	18.19	19.50	
		165	5825	18.27	19.50	
802.11n-HT20 MCS0		149	5745	18.36	19.50	98.16
		157	5785	18.31	19.50	
		165	5825	18.44	19.50	
802.11n-HT40 MCS0		151	5755	17.80	19.00	96.75
		159	5795	17.93	19.00	
		149	5745	18.35	19.50	
802.11ac-VHT20 MCS0		157	5785	18.30	19.50	98.02
		165	5825	18.40	19.50	
		151	5755	17.06	18.00	
802.11ac-VHT40 MCS0		159	5795	16.83	18.00	96.05
		155	5775	16.88	18.00	



Handheld Sim-Tx

2.4GHz WLAN						
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps		1	2412	20.00	22.00
		6	2437	20.10	22.00	
		11	2462	20.00	22.00	
802.11g 6Mbps		1	2412	19.20	21.00	98.28
		6	2437	19.10	21.00	
		11	2462	19.00	21.00	
802.11n-HT20 MCS0		1	2412	19.30	21.00	98.15
		6	2437	19.10	21.00	
		11	2462	19.20	21.00	

5.2GHz WLAN						
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps		36	5180	13.11	14.50
		40	5200	13.92	15.50	
		44	5220	13.91	15.50	
		48	5240	13.94	15.50	
802.11n-HT20 MCS0		36	5180	12.35	14.00	98.16
		40	5200	14.04	15.50	
		44	5220	14.15	15.50	
		48	5240	14.25	15.50	
802.11n-HT40 MCS0		38	5190	11.72	13.00	96.75
		46	5230	13.61	15.00	
		36	5180	12.31	14.00	
802.11ac-VHT20 MCS0		40	5200	14.02	15.00	98.02
		44	5220	14.11	15.50	
		48	5240	14.22	15.50	
		38	5190	11.69	13.00	
802.11ac-VHT40 MCS0		46	5230	13.53	15.00	96.05
		42	5210	11.54	13.00	
		42	5210	11.54	13.00	

5.3GHz WLAN						
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps		52	5260	14.36	15.50
		56	5280	14.33	15.50	
		60	5300	14.32	15.50	
		64	5320	14.01	15.00	
802.11n-HT20 MCS0		52	5260	14.21	15.50	98.16
		56	5280	14.87	15.50	
		60	5300	14.25	15.50	
		64	5320	14.16	15.50	
802.11n-HT40 MCS0		54	5270	14.26	15.50	96.75
		62	5310	13.75	15.50	
		52	5260	14.07	15.00	
802.11ac-VHT20 MCS0		56	5280	14.74	15.50	98.02
		60	5300	14.11	15.00	
		64	5320	13.52	15.00	
		54	5270	13.72	15.00	
802.11ac-VHT40 MCS0		62	5310	13.21	15.00	96.05
		58	5290	13.38	15.00	
		58	5290	13.38	15.00	

5.5GHz WLAN						
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps		100	5500	14.30	15.50
		116	5580	14.21	15.50	
		132	5660	13.95	15.00	
		140	5700	12.73	13.50	
802.11n-HT20 MCS0		100	5500	14.28	15.50	98.16
		116	5580	14.29	15.50	
		132	5660	14.27	15.50	
		140	5700	12.33	13.50	
802.11n-HT40 MCS0		102	5510	13.14	15.00	96.75
		110	5550	13.45	15.00	
		134	5670	13.71	15.00	
		100	5500	14.26	15.50	
802.11ac-VHT20 MCS0		116	5580	14.28	15.50	98.02
		132	5660	14.22	15.50	
		140	5700	12.23	13.50	
		102	5510	13.08	15.00	
802.11ac-VHT40 MCS0		110	5550	13.39	15.00	96.05
		134	5670	13.65	15.00	
		106	5530	12.71	13.50	

5.8GHz WLAN						
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps		149	5745	15.98	17.50
		157	5785	15.99	17.50	
		165	5825	16.07	17.50	
802.11n-HT20 MCS0		149	5745	16.16	17.50	98.16
		157	5785	16.11	17.50	
		165	5825	16.24	17.50	
802.11n-HT40 MCS0		151	5755	15.48	17.00	96.75
		159	5795	14.88	17.00	
		149	5745	16.15	17.50	
802.11ac-VHT20 MCS0		157	5785	16.10	17.50	98.02
		165	5825	16.20	17.50	
		151	5755	15.39	17.00	
802.11ac-VHT40 MCS0		159	5795	14.79	17.00	96.05
		155	5775	15.63	17.00	
		155	5775	15.63	17.00	



Appendix F. Supplemental Tuner Head & Body SAR Results

The results are shown as follows.



RF exposure position										Average Value of Time Sweep (W/kg)																			
Antenna	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																		
											0	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136	
WWAN_Ant B Head	CDMA2000 BC0	RC3-S055	Full power	384	836.52	N/A	N/A	Right Cheek	0mm	0.157	0	0	0.09	0	0.102	0	0.087	0	0.074	0	0	0.088	0.082	0.089	0	0.083	0	0.059	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	1	9	17	25	33	41	49	57	65	73	81	89	97	105	113	121	129	137	
	CDMA2000 BC10	RC3-S055	Full power	580	820.5	N/A	N/A	Right Cheek	0mm	0.105	0	0	0.057	0	0.085	0	0.102	0.055	0.061	0	0	0.057	0.062	0.07	0	0.062	0	0.062	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	2	10	18	26	34	42	50	58	66	74	82	90	98	106	114	122	130	138	
	WCDMA V	RMC 12.2Kbps	Full power	4182	836.4	N/A	N/A	Right Cheek	0mm	0.178	0	0.051	0	0	0.093	0	0.08	0.055	0.084	0	0	0	0	0.09	0	0.086	0	0.089	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	3	11	19	27	35	43	51	59	67	75	83	91	99	107	115	123	131	139	
	LTE Band 71	20M-QPSK	Full power	13332	683	1	0	Left Cheek	0mm	0.073	0	0	0	0	0	0	0	0.044	0	0	0	0.02	0	0	0	0	0	0	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	4	12	20	28	36	44	52	60	68	76	84	92	100	108	116	124	132	140	
	LTE Band 12	10M-QPSK	Full power	22095	707.5	1	49	Left Cheek	0mm	0.080	0	0	0	0	0	0.021	0	0	0	0	0	0	0	0	0	0.03	0	0	0
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	5	13	21	29	37	45	53	61	69	77	85	93	101	109	117	125	133	141	
	LTE Band 13	10M-QPSK	Full power	23230	782	1	49	Left Cheek	0mm	0.158	0.02	0	0.075	0	0	0.089	0	0	0	0	0	0	0	0	0.1	0.068	0.102	0	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	6	14	22	30	38	46	54	62	70	78	86	94	102	110	118	126	134	142	
	LTE Band 14	10M-QPSK	Full power	23330	793	1	49	Right Cheek	0mm	0.164	0.052	0.043	0.027	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.057	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	7	15	23	31	39	47	55	63	71	79	87	95	103	111	119	127	135		
LTE Band 26	15M-QPSK	Full power	26765	821.5	1	0	Left Cheek	0mm	0.085	0	0.076	0	0.021	0	0.018	0	0	0.05	0.044	0.075	0	0	0	0	0	0	0		
Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	0	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136		
WWAN_Ant B Body	CDMA2000 BC0	RC3 S032 (F-SGH)	DS13/body-worn	1013	824.7	N/A	N/A	Back	5mm	0.864	0.104	0.193	0.747	0.132	0.778	0.203	0.789	0.36	0.575	0.105	0.114	0.733	0.557	0.667	0.197	0.66	0.258	0.458	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	1	9	17	25	33	41	49	57	65	73	81	89	97	105	113	121	129	137	
	CDMA2000 BC10	RC3 S032 (F-SGH)	DS13/body-worn	684	823.1	N/A	N/A	Back	5mm	0.938	0.186	0.276	0.349	0.232	0.882	0.253	0.862	0.459	0.743	0.154	0.171	0.341	0.44	0.824	0.27	0.874	0.355	0.733	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	2	10	18	26	34	42	50	58	66	74	82	90	98	106	114	122	130	138	
	WCDMA V	RMC 12.2Kbps	Full power	4132	826.4	N/A	N/A	Back	5mm	0.731	0.21	0.37	0.121	0.301	0.721	0.233	0.73	0.533	0.723	0.155	0.237	0.115	0.104	0.717	0.261	0.715	0.341	0.712	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	3	11	19	27	35	43	51	59	67	75	83	91	99	107	115	123	131	139	
	LTE Band 71	20M-QPSK	Full power	13332	683	1	0	Back	5mm	0.609	0.447	0.13	0.348	0.078	0.067	0.602	0.129	0.134	0.115	0.606	0.227	0.608	0.157	0.082	0.466	0.149	0.491	0.124	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	4	12	20	28	36	44	52	60	68	76	84	92	100	108	116	124	132	140	
	LTE Band 12	10M-QPSK	Full power	22095	707.5	1	49	Back	5mm	0.725	0.471	0.14	0.285	0.085	0.113	0.713	0.128	0.286	0.131	0.638	0.179	0.414	0.114	0.105	0.706	0.206	0.425	0.14	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	5	13	21	29	37	45	53	61	69	77	85	93	101	109	117	125	133	141	
	LTE Band 13	10M-QPSK	Full power	23230	782	0	0	Back	5mm	0.761	0.249	0.232	0.506	0.128	0.147	0.577	0.104	0.085	0.213	0.231	0.245	0.162	0.108	0.213	0.603	0.42	0.595	0.23	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	6	14	22	30	38	46	54	62	70	78	86	94	102	110	118	126	134	142	
	LTE Band 14	10M-QPSK	Full power	23330	793	1	49	Back	5mm	0.889	0.509	0.415	0.586	0.205	0.204	0.229	0.181	0.135	0.348	0.308	0.426	0.23	0.164	0.232	0.199	0.16	0.117	0.463	
	Band	Mode	Power Reduction	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	7	15	23	31	39	47	55	63	71	79	87	95	103	111	119	127	135		
LTE Band 26	15M-QPSK	Full power	26765	821.5	36	0	Back	5mm	0.900	0.103	0.604	0.054	0.478	0.146	0.451	0.239	0.294	0.224	0.335	0.603	0.268	0.361	0.146	0.32	0.157	0.182			