

10954	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	± 9.6 %
10955	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	± 9.6 %
10956	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	± 9.6 %
10957	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	± 9.6 %
10958	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	± 9.6 %
10959	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	± 9.6 %
10960	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	± 9.6 %
10961	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	± 9.6 %
10962	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.40	± 9.6 %
10963	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10964	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	± 9.6 %
10965	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.37	± 9.6 %
10966	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10967	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.42	± 9.6 %
10968	AAA	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	± 9.6 %

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



Appendix E. Conducted RF Output Power Table

The detailed power table are shown as follows.



LAT-Full Power-DSI 2/3/4/6

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	924.2	839.4	843.8	924.2	839.4	843.8		
Frequency (MHz)	924.2	839.4	843.8	924.2	839.4	843.8		
GSM 1 Tx slot	33.61	33.58	33.48	34.00	24.61	24.58	24.48	25.00
GPRS 1 Tx slot	33.80	33.57	33.45	34.00	24.80	24.57	24.45	25.00
GPRS 2 Tx slots	29.70	29.40	29.32	30.00	23.70	23.40	23.32	24.00
GPRS 3 Tx slots	28.44	28.12	28.00	29.00	24.18	23.86	23.74	24.74
GPRS 4 Tx slots	26.37	26.52	26.20	28.00	23.37	23.52	23.20	25.00
EDGE 1 Tx slot	25.48	25.66	25.20	26.00	16.48	16.66	16.20	17.00
EDGE 2 Tx slots	24.00	24.25	23.81	25.00	18.00	18.25	17.81	19.00
EDGE 3 Tx slots	22.85	23.05	22.60	24.00	18.59	18.79	18.34	19.74
EDGE 4 Tx slots	20.89	21.05	20.68	22.00	17.89	18.05	17.68	19.00

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1850.2	1880	1909.8	1850.2	1880	1909.8		
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8		
GSM 1 Tx slot	30.45	30.79	30.53	31.00	21.45	21.79	21.53	22.00
GPRS 1 Tx slot	30.44	30.78	30.52	31.00	21.44	21.78	21.52	22.00
GPRS 2 Tx slots	26.39	26.54	26.44	28.00	20.39	20.54	20.44	22.00
GPRS 3 Tx slots	25.39	25.58	25.11	26.50	21.13	21.32	20.85	22.24
GPRS 4 Tx slots	23.14	23.55	23.39	25.00	20.14	20.55	20.39	22.00
EDGE 1 Tx slot	24.38	24.58	24.40	25.00	15.38	15.58	15.40	16.00
EDGE 2 Tx slots	22.87	23.07	23.11	24.00	16.87	17.07	17.11	18.00
EDGE 3 Tx slots	21.84	21.93	21.99	23.00	17.58	17.67	17.73	18.74
EDGE 4 Tx slots	19.66	19.88	19.69	21.00	16.66	16.88	16.69	18.00

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
	9262	9400	9538		4132	4182	4233		
TX Channel	9662	9800	9938	9662	9800	9938			
Rx Channel	9662	9800	9938	9662	9800	9938			
Frequency (MHz)	1852.4	1880	1907.6	1852.4	1880	1907.6			
3GPP Rel 99	AMR 12.2Kbps	23.38	23.44	23.41	24.00	23.34	23.35	23.14	24.00
3GPP Rel 99	RM-C 12.2Kbps	23.39	23.46	23.43	24.00	23.37	23.39	23.17	24.00
3GPP Rel 6	HSDPA Subtest-1	22.36	22.50	22.49	23.00	22.64	22.61	22.48	23.00
3GPP Rel 6	HSDPA Subtest-2	22.36	22.52	22.52	23.00	22.68	22.65	22.46	23.00
3GPP Rel 6	HSDPA Subtest-3	21.82	22.02	21.99	22.50	22.13	22.14	21.97	22.50
3GPP Rel 6	HSDPA Subtest-4	21.75	21.99	21.92	22.50	22.11	22.13	21.98	22.50
3GPP Rel 6	DC-HSDPA Subtest-1	22.28	22.37	22.44	23.00	22.56	22.48	22.39	23.00
3GPP Rel 6	DC-HSDPA Subtest-2	22.28	22.35	22.43	23.00	22.60	22.43	22.37	23.00
3GPP Rel 6	DC-HSDPA Subtest-3	21.71	21.89	21.94	22.50	22.05	22.01	21.88	22.50
3GPP Rel 6	DC-HSDPA Subtest-4	21.67	21.86	21.87	22.50	22.03	22.00	21.89	22.50
3GPP Rel 6	HSUPA Subtest-1	22.43	22.56	22.62	23.00	22.65	22.66	22.47	23.00
3GPP Rel 6	HSUPA Subtest-2	20.34	20.74	20.76	21.00	20.68	20.66	20.45	21.00
3GPP Rel 6	HSUPA Subtest-3	21.48	21.56	21.56	22.00	21.69	21.65	21.47	22.00
3GPP Rel 6	HSUPA Subtest-4	20.41	20.56	20.53	21.00	20.64	20.68	20.49	21.00
3GPP Rel 6	HSUPA Subtest-5	22.40	22.60	22.40	23.00	22.70	22.70	22.50	23.00



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				18700	18900	19100			
Frequency (MHz)				1860	1880	1900			
20	QPSK	1	0	22.83	23.02	22.90			
20	QPSK	1	49	22.91	22.75	22.75		24	0
20	QPSK	1	99	22.92	22.75	22.58			
20	QPSK	50	0	21.85	21.80	21.80			
20	QPSK	50	24	22.01	21.98	22.07			
20	QPSK	50	50	22.08	22.04	21.99		23	1
20	QPSK	100	0	21.95	21.97	21.91			
20	16QAM	1	0	22.18	22.23	22.11			
20	16QAM	1	49	22.23	22.22	22.16			
20	16QAM	1	99	22.08	22.21	22.08		23	1
20	16QAM	50	0	20.80	20.87	20.85			
20	16QAM	50	24	21.00	20.99	21.06			
20	16QAM	50	50	20.96	21.04	21.01		22	2
20	16QAM	100	0	20.97	20.88	20.83			
20	64QAM	1	0	21.04	21.16	21.05			
20	64QAM	1	49	21.01	21.16	21.03		22	2
20	64QAM	1	99	20.91	21.19	20.91			
20	64QAM	50	0	19.79	19.68	19.80			
20	64QAM	50	24	19.97	19.86	19.83		21	3
20	64QAM	50	50	19.83	19.84	19.82			
20	64QAM	100	0	19.84	19.86	19.88			
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	0	22.59	22.63	22.61			
15	QPSK	1	37	22.67	22.68	22.72		24	0
15	QPSK	1	74	22.59	22.73	22.54			
15	QPSK	36	0	21.79	21.84	21.87			
15	QPSK	36	20	21.98	21.95	22.03			
15	QPSK	36	39	22.02	22.02	21.96		23	1
15	QPSK	75	0	21.93	21.89	21.85			
15	16QAM	1	0	22.15	22.20	22.07			
15	16QAM	1	37	22.19	22.18	22.12		23	1
15	16QAM	1	74	22.06	22.28	22.03			
15	16QAM	36	0	20.77	20.85	20.81			
15	16QAM	36	20	20.96	20.93	21.00		22	2
15	16QAM	36	39	20.93	21.00	20.99			
15	16QAM	75	0	20.95	20.85	20.80			
15	64QAM	1	0	20.98	21.12	21.01			
15	64QAM	1	37	20.98	21.10	20.97		22	2
15	64QAM	1	74	20.89	21.17	20.88			
15	64QAM	36	0	19.73	19.65	19.76			
15	64QAM	36	20	19.94	19.80	19.81		21	3
15	64QAM	36	39	19.83	19.80	19.82			
15	64QAM	75	0	19.78	19.83	19.82			
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	0	22.56	22.57	22.58			
10	QPSK	1	25	22.65	22.65	22.69		24	0
10	QPSK	1	49	22.56	22.71	22.50			
10	QPSK	25	0	21.79	21.74	21.84			
10	QPSK	25	12	21.95	21.92	21.99			
10	QPSK	25	25	21.96	22.00	21.93		23	1
10	QPSK	50	0	21.91	21.83	21.79			
10	16QAM	1	0	22.12	22.17	22.03			
10	16QAM	1	25	22.19	22.14	22.11		23	1
10	16QAM	1	49	22.04	22.15	22.00			
10	16QAM	25	0	20.74	20.83	20.77			
10	16QAM	25	12	20.92	20.87	20.94		22	2
10	16QAM	25	25	20.90	20.96	20.97			
10	16QAM	50	0	20.93	20.82	20.77			
10	64QAM	1	0	20.92	21.04	20.97		22	2
10	64QAM	1	25	20.95	21.04	20.91			
10	64QAM	1	49	20.87	21.15	20.85			
10	64QAM	25	0	19.67	19.62	19.72			
10	64QAM	25	12	19.91	19.74	19.79		21	3
10	64QAM	25	25	19.86	19.80	19.86			
10	64QAM	50	0	19.72	19.80	19.76			
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	0	22.53	22.51	22.55			
5	QPSK	1	12	22.63	22.62	22.66		24	0
5	QPSK	1	24	22.53	22.69	22.46			
5	QPSK	12	0	21.67	21.64	21.68			
5	QPSK	12	7	21.92	21.89	21.95			
5	QPSK	12	13	21.90	21.98	21.90		23	1
5	QPSK	25	0	21.89	21.77	21.73			
5	16QAM	1	0	22.09	22.14	21.99			
5	16QAM	1	12	22.11	22.10	22.15		23	1
5	16QAM	1	24	22.02	22.12	21.97			
5	16QAM	12	0	20.71	20.81	20.73			
5	16QAM	12	7	20.88	20.81	20.88		22	2
5	16QAM	12	13	20.87	20.82	20.95			
5	16QAM	25	0	20.91	20.79	20.74			
5	64QAM	1	0	20.88	21.04	20.97		22	2
5	64QAM	1	12	20.92	20.98	20.85			
5	64QAM	1	24	20.85	21.13	20.82			
5	64QAM	12	0	19.61	19.59	19.68			
5	64QAM	12	7	19.88	19.68	19.77		21	3
5	64QAM	12	13	19.85	19.76	19.88			
5	64QAM	25	0	19.66	19.77	19.70			
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1851.5	1880	1908.5			
3	QPSK	1	0	22.50	22.45	22.52			
3	QPSK	1	8	22.61	22.59	22.63		24	0
3	QPSK	1	14	22.50	22.67	22.42			
3	QPSK	8	0	21.61	21.54	21.78			
3	QPSK	8	4	21.88	21.86	21.91			
3	QPSK	8	7	21.84	21.86	21.87		23	1
3	QPSK	15	0	21.87	21.71	21.67			
3	16QAM	1	0	22.06	22.11	21.95			
3	16QAM	1	8	22.07	22.06	22.12		23	1
3	16QAM	1	14	22.00	22.09	21.94			
3	16QAM	8	0	20.68	20.79	20.69			
3	16QAM	8	4	20.84	20.75	20.82		22	2
3	16QAM	8	7	20.84	20.88	20.93			
3	16QAM	15	0	20.89	20.76	20.71			
3	64QAM	1	0	20.80	21.00	20.89		22	2
3	64QAM	1	8	20.89	20.92	20.79			
3	64QAM	1	14	20.83	21.11	20.79			
3	64QAM	8	0	19.55	19.56	19.64			
3	64QAM	8	4	19.85	19.62	19.75		21	3
3	64QAM	8	7	19.81	19.76	19.83			
3	64QAM	15	0	19.60	19.74	19.64			
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1850.7	1880	1909.3			
1.4	QPSK	1	0	22.47	22.59	22.49			
1.4	QPSK	1	3	22.59	22.56	22.60		24	0
1.4	QPSK	1	5	22.47	22.65	22.38			
1.4	QPSK	3	0	21.33	21.34	22.53			
1.4	QPSK	3	1	22.64	22.61	22.65			
1.4	QPSK	3	3	22.56	22.72	22.62			
1.4	QPSK	6	0	21.85	21.85	21.81		23	1
1.4	16QAM	1	0	22.03	22.08	21.91			
1.4	16QAM	1	3	22.03	22.03	22.12			
1.4	16QAM	1	5	21.98	22.06	21.91		23	1
1.4	16QAM	3	0	21.63	21.75	21.63			
1.4	16QAM	3	1	21.76	21.67	21.74			
1.4	16QAM	3	3	21.79	21.82	21.89		22	2
1.4	16QAM	6	0	20.67	20.73	20.68			
1.4	64QAM	1	0	20.74	20.96	20.85			
1.4	64QAM	1	3	20.86	20.86	20.73		22	2
1.4	64QAM	1	5	20.81	21.09	20.76			
1.4	64QAM	3	0	20.47	20.51	20.58			
1.4	64QAM	3	1	20.80	20.84	20.71		21	3
1.4	64QAM	3	3	20.75	20.76	20.78			
1.4	64QAM	6	0	19.54	19.71	19.58			

Band 4 (AWS Band) Part 27L (only on channel required)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch				



Band 5 (Cellular Band) Part 22(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				20450	20525	20600			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	0	22.59	22.94	22.74			
10	QPSK	1	25	22.61	22.61	22.83	24	0	
10	QPSK	1	49	22.64	22.45	22.73			
10	QPSK	25	0	21.82	21.82	21.83			
10	QPSK	25	12	21.88	21.82	21.59	23	1	
10	QPSK	25	25	21.88	21.83	21.57			
10	QPSK	50	0	21.86	21.87	21.58			
10	16QAM	1	0	21.96	21.97	21.77			
10	16QAM	1	25	21.95	22.04	21.86	23	1	
10	16QAM	1	49	22.05	21.95	21.78			
10	16QAM	25	0	20.97	20.75	20.63			
10	16QAM	25	12	20.99	20.85	20.66	22	2	
10	16QAM	25	25	20.93	20.91	20.65			
10	16QAM	50	0	20.93	20.99	20.67			
10	64QAM	1	0	21.08	20.73	20.75			
10	64QAM	1	25	21.03	20.91	20.86	22	2	
10	64QAM	1	49	20.68	20.97	20.67			
10	64QAM	25	0	20.00	19.71	19.69			
10	64QAM	25	12	19.86	19.89	19.67	21	3	
10	64QAM	25	25	19.80	19.79	19.68			
10	64QAM	50	0	19.80	19.68	19.69			
Channel				20425	20525	20625			
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	22.56	22.35	22.27			
5	QPSK	1	12	22.57	22.53	22.34	24	0	
5	QPSK	1	24	22.56	22.42	22.22			
5	QPSK	12	0	21.79	21.64	21.63			
5	QPSK	12	7	21.85	21.79	21.55	23	1	
5	QPSK	12	13	21.85	21.75	21.54			
5	QPSK	25	0	21.82	21.68	21.52			
5	16QAM	1	0	22.15	21.94	21.69			
5	16QAM	1	12	22.14	22.00	21.78	23	1	
5	16QAM	1	24	22.17	21.87	21.74			
5	16QAM	12	0	20.89	20.71	20.60			
5	16QAM	12	7	20.95	20.82	20.62	22	2	
5	16QAM	12	13	20.90	20.83	20.61			
5	16QAM	25	0	20.89	20.72	20.64			
5	64QAM	1	0	21.00	20.70	20.71			
5	64QAM	1	12	20.99	20.87	20.78	22	2	
5	64QAM	1	24	20.85	20.93	20.83			
5	64QAM	12	0	19.96	19.67	19.65			
5	64QAM	12	7	19.78	19.81	19.84	21	3	
5	64QAM	12	13	19.86	19.77	19.66			
5	64QAM	25	0	19.77	19.64	19.65			
Channel				20415	20525	20635			
Frequency (MHz)				826.5	836.5	847.5			
3	QPSK	1	0	22.56	22.37	22.32			
3	QPSK	1	8	22.59	22.58	22.34	24	0	
3	QPSK	1	14	22.61	22.43	22.22			
3	QPSK	8	0	21.76	21.62	21.60			
3	QPSK	8	4	21.86	21.79	21.55	23	1	
3	QPSK	8	7	21.82	21.81	21.54			
3	QPSK	15	0	21.84	21.66	21.50			
3	16QAM	1	0	22.15	21.94	21.73			
3	16QAM	1	8	22.14	22.00	21.83	23	1	
3	16QAM	1	14	22.03	21.92	21.75			
3	16QAM	8	0	20.94	20.73	20.69			
3	16QAM	8	4	20.95	20.79	20.60	22	2	
3	16QAM	8	7	20.90	20.87	20.63			
3	16QAM	15	0	20.91	20.77	20.64			
3	64QAM	1	0	21.02	20.69	20.71			
3	64QAM	1	8	21.00	20.85	20.80	22	2	
3	64QAM	1	14	20.86	20.95	20.84			
3	64QAM	8	0	19.94	19.68	19.65			
3	64QAM	8	4	19.83	19.83	19.85	21	3	
3	64QAM	8	7	19.86	19.77	19.66			
3	64QAM	15	0	19.74	19.65	19.63			
Channel				20407	20525	20643			
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	22.53	22.31	22.29			
1.4	QPSK	1	3	22.57	22.55	22.31	24	0	
1.4	QPSK	1	5	22.58	22.41	22.18			
1.4	QPSK	3	0	22.48	22.34	22.35			
1.4	QPSK	3	1	22.61	22.54	22.29			
1.4	QPSK	3	3	22.54	22.57	22.29			
1.4	QPSK	6	0	21.82	21.60	21.44	23	1	
1.4	16QAM	1	0	22.12	21.91	21.69			
1.4	16QAM	1	3	22.10	21.96	21.80	23	1	
1.4	16QAM	1	5	22.01	21.89	21.72			
1.4	16QAM	3	0	21.59	21.39	21.23			
1.4	16QAM	3	1	21.59	21.41	21.22	22	2	
1.4	16QAM	3	3	21.55	21.51	21.29			
1.4	16QAM	6	0	20.89	20.74	20.61			
1.4	64QAM	1	0	20.96	20.65	20.67			
1.4	64QAM	1	3	20.97	20.79	20.74	22	2	
1.4	64QAM	1	5	20.84	20.93	20.81			
1.4	64QAM	3	0	20.56	20.74	20.85			
1.4	64QAM	3	1	20.48	20.45	20.84	21	3	
1.4	64QAM	3	3	20.60	20.43	20.71			
1.4	64QAM	6	0	19.68	19.62	19.57	21	3	

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				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	22.76	23.00	22.84			
20	QPSK	1	49	22.71	22.60	22.82	24	0	
20	QPSK	1	99	22.69	22.63	22.84			
20	QPSK	50	0	22.10	21.83	21.59			
20	QPSK	50	24	22.10	21.93	21.91	23	1	
20	QPSK	50	50	22.04	21.88	21.79			
20	QPSK	100	0	21.97	21.99	21.83			
20	16QAM	1	0	21.84	21.83	22.13			
20	16QAM	1	49	22.25	22.27	22.06	23	1	
20	16QAM	1	99	22.12	22.07	22.00			
20	16QAM	50	0	21.02	20.91	21.01			
20	16QAM	50	24	21.06	21.00	20.92	22	2	
20	16QAM	50	50	21.03	20.87	20.75			
20	16QAM	100	0	21.01	20.90	20.79			
20	64QAM	1	0	21.25	21.12	21.14			
20	64QAM	1	49	21.05	21.03	20.99	22	2	
20	64QAM	1	99	21.07	21.00	20.91			
20	64QAM	50	0	19.99	20.01	19.98			
20	64QAM	50	24	20.09	20.01	19.91	21	3	
20	64QAM	50	50	20.05	19.95	19.87			
20	64QAM	100	0	19.99	19.93	19.88			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	22.85	22.70	22.61			
15	QPSK	1	37	22.77	22.68	22.53	24	0	
15	QPSK	1	74	22.80	22.60	22.52			
15	QPSK	36	0	22.11	21.92	21.92			
15	QPSK	36	20	22.14	21.94	22.00	23	1	
15	QPSK	36	39	22.06	21.95	21.92			
15	QPSK	75	0	22.06	21.91	21.89			
15	16QAM	1	0	21.84	22.11	21.95			
15	16QAM	1	37	22.04	22.25	22.01	23	1	
15	16QAM	1	74	22.26	22.22	22.07			
15	16QAM	36	0	21.13	20.99	20.97			
15	16QAM	36	20	21.10	20.94	20.88	22	2	
15	16QAM	36	39	21.07	20.86	20.89			
15	16QAM	75	0	21.12	20.95	20.91			
15	64QAM	1	0	21.30	21.08	21.06			
15	64QAM	1	37	21.17	21.22	21.04	22	2	
15	64QAM	1	74	20.99	21.04	20.85			
15	64QAM	36	0	20.07	19.97	19.94			
15	64QAM	36	20	20.17	20.00	19.88	21	3	
15	64QAM	36	39	20.11	19.96	19.86			
15	64QAM	75	0	20.11	19.90	19.86			



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				2350	2395	2330			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	22.74	22.92	22.73			
10	QPSK	1	25	22.57	22.59	22.74			
10	QPSK	1	49	22.64	22.52	22.46			24
10	QPSK	25	0	21.76	21.88	21.80			
10	QPSK	25	12	21.81	21.81	21.95			
10	QPSK	25	25	21.83	21.77	21.76			23
10	QPSK	50	0	21.88	21.89	21.81			
10	16QAM	1	0	22.06	22.07	21.96			
10	16QAM	1	25	21.83	22.02	22.13			
10	16QAM	1	49	22.06	22.07	21.97			23
10	16QAM	25	0	20.77	20.80	20.80			
10	16QAM	25	12	20.87	20.82	20.89			
10	16QAM	25	25	20.78	20.84	20.77			22
10	16QAM	50	0	20.85	20.85	20.77			
10	64QAM	1	0	21.03	20.94	21.14			
10	64QAM	1	25	21.21	21.19	21.21			22
10	64QAM	1	49	20.99	20.89	20.86			
10	64QAM	25	0	19.70	19.69	19.79			
10	64QAM	25	12	19.95	19.86	19.94			
10	64QAM	25	25	19.84	19.84	19.76			21
10	64QAM	50	0	19.80	19.88	19.84			3
Channel				2305	2395	2365			
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	22.53	22.45	22.55			
5	QPSK	1	12	22.55	22.56	22.45			24
5	QPSK	1	24	22.61	22.37	22.42			
5	QPSK	12	0	21.70	21.68	21.97			
5	QPSK	12	7	21.78	21.78	21.91			
5	QPSK	12	13	21.77	21.75	21.73			23
5	QPSK	25	0	21.86	21.86	21.75			
5	16QAM	1	0	22.03	22.04	21.96			
5	16QAM	1	12	21.89	21.98	22.07			
5	16QAM	1	24	22.04	22.04	21.94			23
5	16QAM	12	0	20.74	20.78	20.76			
5	16QAM	12	7	20.83	20.76	20.83			22
5	16QAM	12	13	20.75	20.80	20.75			
5	16QAM	25	0	20.83	20.82	20.74			
5	64QAM	1	0	20.97	20.86	21.08			
5	64QAM	1	12	21.18	21.13	21.15			22
5	64QAM	1	24	20.97	20.87	20.83			
5	64QAM	12	0	19.84	19.66	19.75			
5	64QAM	12	7	19.92	19.80	19.92			21
5	64QAM	12	13	19.80	19.84	19.72			
5	64QAM	25	0	19.74	19.85	19.78			3
Channel				2305	2395	2365			
Frequency (MHz)				700.5	707.5	714.5			
3	QPSK	1	0	22.50	22.39	22.52			
3	QPSK	1	8	22.53	22.53	22.42			24
3	QPSK	1	14	22.58	22.35	22.38			
3	QPSK	8	0	21.04	21.62	21.74			
3	QPSK	8	4	21.75	21.75	21.87			23
3	QPSK	8	7	21.71	21.73	21.70			
3	QPSK	15	0	21.84	21.60	21.69			
3	16QAM	1	0	22.00	22.01	21.85			
3	16QAM	1	8	21.85	21.84	22.07			23
3	16QAM	1	14	22.02	22.01	21.91			
3	16QAM	8	0	20.71	20.76	20.72			
3	16QAM	8	4	20.79	20.70	20.77			22
3	16QAM	8	7	20.72	20.76	20.73			
3	16QAM	15	0	20.81	20.59	20.71			
3	64QAM	1	0	20.91	20.86	21.08			
3	64QAM	1	8	21.15	21.07	21.09			22
3	64QAM	1	14	20.95	20.85	20.80			
3	64QAM	8	0	19.58	19.63	19.71			
3	64QAM	8	4	19.89	19.74	19.90			21
3	64QAM	8	7	19.76	19.80	19.72			
3	64QAM	15	0	19.68	19.82	19.72			3
Channel				2307	2395	2373			
Frequency (MHz)				699.7	707.5	715.3			
1.4	QPSK	1	0	22.47	22.33	22.49			
1.4	QPSK	1	3	22.51	22.50	22.39			24
1.4	QPSK	1	5	22.55	22.33	22.34			
1.4	QPSK	3	0	22.36	22.34	22.49			
1.4	QPSK	3	1	22.50	22.50	22.61			
1.4	QPSK	3	3	22.43	22.49	22.45			
1.4	QPSK	6	0	21.82	21.84	21.63			23
1.4	16QAM	1	0	21.97	21.98	22.13			
1.4	16QAM	1	3	21.81	21.80	22.04			
1.4	16QAM	1	5	22.00	21.98	21.88			23
1.4	16QAM	3	0	21.70	21.76	21.70			
1.4	16QAM	3	1	21.77	21.66	21.73			
1.4	16QAM	3	3	21.71	21.74	21.73			
1.4	16QAM	6	0	20.79	20.58	20.68			22
1.4	64QAM	1	0	20.85	20.82	21.02			
1.4	64QAM	1	3	21.12	21.01	21.03			
1.4	64QAM	1	5	20.93	20.83	20.77			22
1.4	64QAM	3	0	20.88	20.96	21.03			
1.4	64QAM	3	1	21.22	21.04	21.24			
1.4	64QAM	3	3	21.08	21.14	21.05			
1.4	64QAM	6	0	19.82	19.79	19.88			21

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				2330	2330	2330			
Frequency (MHz)				782					
10	QPSK	1	0	22.82					
10	QPSK	1	25	22.71					24
10	QPSK	1	49	22.53					
10	QPSK	25	0	21.84					23
10	QPSK	25	12	21.83					
10	QPSK	25	25	21.79					23
10	QPSK	50	0	21.81					
10	16QAM	1	0	22.81					
10	16QAM	1	25	22.81					23
10	16QAM	1	49	22.81					
10	16QAM	25	0	20.76					
10	16QAM	25	12	20.82					22
10	16QAM	25	25	20.68					
10	16QAM	50	0	20.75					
10	64QAM	1	0	20.93					
10	64QAM	1	25	20.87					22
10	64QAM	1	49	20.85					
10	64QAM	25	0	19.88					
10	64QAM	25	12	19.88					21
10	64QAM	25	25	19.85					
10	64QAM	50	0	19.85					3
Channel				23205	23230	23295			
Frequency (MHz)				779.5	782	784.5			
5	QPSK	1	0	22.36	22.50	22.43			
5	QPSK	1	12	22.47	22.50	22.56			24
5	QPSK	1	24	22.48	22.48	22.51			
5	QPSK	12	0	21.72	21.70	21.73			
5	QPSK	12	7	21.79	21.79	21.84			
5	QPSK	12	13	21.72	21.80	21.85			23
5	QPSK	25	0	21.74	21.81	21.70			
5	16QAM	1	0	21.78	22.62	21.94			
5	16QAM	1	12	21.93	22.02	22.03			23
5	16QAM	1	24	21.94	22.02	22.02			
5	16QAM	12	0	20.73	20.76	20.78			
5	16QAM	12	7	20.85	20.85	20.85			22
5	16QAM	12	13	20.75	20.79	20.80			
5	16QAM	25	0	20.78	20.77	20.71			
5	64QAM	1	0	20.97	20.88	20.88			
5	64QAM	1	12	20.92	20.90	20.88			22
5	64QAM	1	24	20.91	20.92	20.89			
5	64QAM	12	0	19.78	19.78	19.85			
5	64QAM	12	7	19.88	19.84	19.92			21
5	64QAM	12	13	19.82	19.87	19.87			
5	64QAM	25	0	19.70	19.82	19.78			



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				23760	23790	23800			
Frequency (MHz)				709	710	711			
10	QPSK	1	0	22.83	22.80	22.82			
10	QPSK	1	25	22.54	22.57	22.53		24	0
10	QPSK	1	49	22.81	22.50	22.37			
10	QPSK	25	0	21.85	21.86	21.85			
10	QPSK	25	12	21.94	21.83	21.86		23	1
10	QPSK	25	25	21.81	21.87	21.85			
10	QPSK	50	0	21.84	21.87	21.84			
10	16QAM	1	0	21.85	21.78	21.84			
10	16QAM	1	25	21.96	21.74	21.85		23	1
10	16QAM	1	49	21.73	21.83	22.01			
10	16QAM	25	0	20.90	20.78	20.81			
10	16QAM	25	12	20.85	20.81	20.89			
10	16QAM	25	25	20.79	20.87	20.81		22	2
10	16QAM	50	0	20.92	20.83	20.86			
10	64QAM	1	0	20.96	21.02	21.11			
10	64QAM	1	25	21.00	21.05	21.07		22	2
10	64QAM	1	49	20.83	20.83	20.93			
10	64QAM	25	0	19.88	19.88	19.89			
10	64QAM	25	12	19.98	19.83	19.93			
10	64QAM	25	25	19.92	19.90	19.86		21	3
10	64QAM	50	0	19.94	19.81	19.83			
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				706.5	710	713.5			
5	QPSK	1	0	22.53	22.42	22.47			
5	QPSK	1	12	22.54	22.87	22.81		24	0
5	QPSK	1	24	22.47	22.53	22.52			
5	QPSK	12	0	21.81	21.80	21.87			
5	QPSK	12	7	21.94	21.89	21.84		23	1
5	QPSK	12	13	21.82	21.90	21.83			
5	QPSK	25	0	21.83	21.82	21.77			
5	16QAM	1	0	21.98	21.74	21.73			
5	16QAM	1	12	21.85	21.94	21.83		23	1
5	16QAM	1	24	21.74	21.94	21.83			
5	16QAM	12	0	20.83	20.86	20.83			
5	16QAM	12	7	20.97	20.86	20.89		22	2
5	16QAM	12	13	20.90	20.92	20.89			
5	16QAM	25	0	20.94	20.85	20.86			
5	64QAM	1	0	20.92	20.97	21.01			
5	64QAM	1	12	21.04	20.93	21.00		22	2
5	64QAM	1	24	20.94	20.94	20.91			
5	64QAM	12	0	19.88	19.88	19.90			
5	64QAM	12	7	19.98	19.88	19.93		21	3
5	64QAM	12	13	19.94	19.94	19.86			
5	64QAM	25	0	19.91	19.92	19.86			

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	132322	132572			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	22.45	22.64	22.44			
20	QPSK	1	49	22.25	22.34	22.34		24	0
20	QPSK	1	99	22.33	22.45	22.43			
20	QPSK	50	0	21.42	21.56	21.29			
20	QPSK	50	24	21.40	21.40	21.35		23	1
20	QPSK	50	50	21.35	21.36	21.30			
20	QPSK	100	0	21.36	21.39	21.33			
20	16QAM	1	0	21.64	21.65	21.62			
20	16QAM	1	49	21.69	21.72	21.54		23	1
20	16QAM	1	99	21.45	21.52	21.51			
20	16QAM	50	0	20.42	20.33	20.42			
20	16QAM	50	24	20.38	20.47	20.39		22	2
20	16QAM	50	50	20.38	20.42	20.30			
20	16QAM	100	0	20.44	20.30	20.36			
20	64QAM	1	0	20.45	20.48	20.43			
20	64QAM	1	49	20.50	20.35	20.29		22	2
20	64QAM	1	99	20.45	20.22	20.31			
20	64QAM	50	0	19.45	19.31	19.38			
20	64QAM	50	24	19.41	19.42	19.27		21	3
20	64QAM	50	50	19.35	19.39	19.31			
20	64QAM	100	0	19.44	19.35	19.35			
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	22.41	22.47	22.45			
15	QPSK	1	37	22.83	22.80	22.41		24	0
15	QPSK	1	74	22.43	22.34	22.47			
15	QPSK	36	0	21.58	21.53	21.58			
15	QPSK	36	20	21.82	21.87	21.84		23	1
15	QPSK	36	39	21.87	21.85	21.66			
15	QPSK	75	0	21.74	21.80	21.65			
15	16QAM	1	0	21.78	21.84	21.85			
15	16QAM	1	37	21.87	21.56	21.55		23	1
15	16QAM	1	74	21.60	21.73	21.57			
15	16QAM	36	0	20.87	20.84	20.87			
15	16QAM	36	20	20.81	20.71	20.87		22	2
15	16QAM	36	39	20.71	20.86	20.66			
15	16QAM	75	0	20.87	20.81	20.57			
15	64QAM	1	0	20.48	20.59	20.53			
15	64QAM	1	37	20.51	20.71	20.68		22	2
15	64QAM	1	74	20.47	20.59	20.41			
15	64QAM	36	0	19.84	19.57	19.84			
15	64QAM	36	20	19.84	19.54	19.70		21	3
15	64QAM	36	39	19.46	19.66	19.70			
15	64QAM	75	0	19.73	19.59	19.67			
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	0	22.38	22.41	22.42			
10	QPSK	1	25	22.61	22.57	22.38		24	0
10	QPSK	1	49	22.40	22.32	22.43			
10	QPSK	25	0	21.58	21.57	21.58			
10	QPSK	25	12	21.79	21.84	21.60		23	1
10	QPSK	25	25	21.61	21.63	21.63			
10	QPSK	50	0	21.72	21.54	21.59			
10	16QAM	1	0	21.75	21.81	21.81			
10	16QAM	1	25	21.87	21.55	21.55		23	1
10	16QAM	1	49	21.58	21.70	21.54			
10	16QAM	25	0	20.64	20.62	20.63			
10	16QAM	25	12	20.77	20.65	20.61		22	2
10	16QAM	25	25	20.68	20.62	20.64			
10	16QAM	50	0	20.85	20.58	20.54			
10	64QAM	1	0	20.42	20.46	20.49			
10	64QAM	1	25	20.48	20.65	20.62		22	2
10	64QAM	1	49	20.45	20.57	20.38			
10	64QAM	25	0	19.58	19.54	19.60			
10	64QAM	25	12	19.81	19.48	19.68		21	3
10	64QAM	25	25	19.42	19.66	19.67			
10	64QAM	50	0	19.67	19.56	19.61			
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	0	22.35	22.35	22.39			
5	QPSK	1	12	22.59	22.54	22.35		24	0
5	QPSK	1	24	22.37	22.30	22.39			
5	QPSK	12	0	21.52	21.51	21.56			
5	QPSK	12	7	21.76	21.61	21.56		23	1
5	QPSK	12	13	21.55	21.61	21.60			
5	QPSK	25	0	21.70	21.48	21.53			
5	16QAM	1	0	21.72	21.78	21.77			
5	16QAM	1	12	21.84	21.55	21.55		23	1
5	16QAM	1	24	21.56	21.87	21.51			
5	16QAM	12	0	20.61	20.60	20.59			
5	16QAM	12	7	20.73	20.59	20.55		22	2
5	16QAM	12	13	20.65	20.58	20.62			
5	16QAM	25	0	20.63	20.55	20.51			
5	64QAM	1	0	20.36	20.42	20.45			
5	64QAM	1	12	20.45	20.59	20.56		22	2
5	64QAM	1	24	20.43	20.55	20.35			
5	64QAM	12	0	19.52	19.51	19.56			
5	64QAM	12	7	19.78	19.42	19.66		21	3
5	64QAM	12	13	19.38	19.64	19.64			
5	64QAM	25	0	19.61	19.53	19.55			
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1711.5	1745	1778.5			
3	QPSK	1	0	22.08	22.05	22.12			
3	QPSK	1	8	22.33	22.27	22.08		24	0
3	QPSK	1	14	22.10	22.04	22.11			
3	QPSK	8	0	21.46	21.45	21.52			
3	QPSK	8	4	21.73	21.58	21.52		23	1
3	QPSK	8	7	21.49	21.59	21.57			
3	QPSK	15	0	21.88	21.42	21.47			
3	16QAM	1	0	21.69	21.75	21.73			
3	16QAM	1	8	21.86	21.45	21.84		23	1
3	16QAM	1	14	21.54	21.84	21.48			
3	16QAM	8	0	20.58	20.58	20.55			
3	16QAM	8	4	20.69	20.53	20.49		22	2
3	16QAM	8	7	20.62	20.54	20.60			
3	16QAM	15	0	20.61	20.52	20.48			
3	64QAM	1	0	20.30	20.38	20.41			
3	64QAM	1	8	20.42	20.53	20.50		22	2
3	64QAM	1	14	20.41	20.53	20.32			
3									



UAT-Full Power-DSI 2/3/4/6

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	21.91	21.92	21.92	23	0	
20	QPSK	1	49	21.83	21.71	21.91			
20	QPSK	1	99	21.87	21.83	21.83			
20	QPSK	50	0	21.11	21.13	21.12	22	1	
20	QPSK	50	24	21.13	21.11	21.11			
20	QPSK	50	50	21.13	21.18	20.90			
20	QPSK	100	0	20.74	20.86	20.72	22	1	
20	16QAM	1	0	20.83	21.16	21.16			
20	16QAM	1	49	20.91	20.81	20.99			
20	16QAM	1	99	21.05	21.12	21.18	21	2	
20	16QAM	50	0	20.25	20.24	20.23			
20	16QAM	50	24	20.36	20.48	20.47			
20	16QAM	50	50	20.32	20.33	20.53	21	2	
20	16QAM	100	0	20.30	20.30	20.36			
20	64QAM	1	0	20.51	20.56	20.58			
20	64QAM	1	49	20.28	20.49	20.35	21	2	
20	64QAM	1	99	20.56	20.52	20.51			
20	64QAM	50	0	19.06	19.31	19.35			
20	64QAM	50	24	19.07	19.43	19.56	20	3	
20	64QAM	50	50	19.08	19.42	19.08			
20	64QAM	100	0	19.32	19.33	19.30			
Channel									
Frequency (MHz)									
15	QPSK	1	0	21.82	21.81	21.65	23	0	
15	QPSK	1	37	21.80	21.83	21.77			
15	QPSK	1	74	21.45	21.47	21.78			
15	QPSK	36	0	20.82	20.82	20.90	22	1	
15	QPSK	36	20	20.88	20.91	21.01			
15	QPSK	36	39	20.84	20.92	21.10			
15	QPSK	75	0	21.11	21.18	21.21	22	1	
15	16QAM	1	0	20.70	20.95	20.88			
15	16QAM	1	37	20.95	21.07	20.90			
15	16QAM	1	74	20.89	21.06	21.14	21	2	
15	16QAM	36	0	20.24	20.24	20.32			
15	16QAM	36	20	20.43	20.32	20.40			
15	16QAM	36	39	20.37	20.37	20.51	21	2	
15	16QAM	75	0	20.36	20.36	20.48			
15	64QAM	1	0	20.27	20.50	20.71			
15	64QAM	1	37	20.36	20.37	20.40	21	2	
15	64QAM	1	74	20.25	20.58	20.42			
15	64QAM	36	0	19.36	19.34	19.40			
15	64QAM	36	20	19.87	19.47	19.46	20	3	
15	64QAM	36	39	19.42	19.52	19.51			
15	64QAM	75	0	19.59	19.51	19.54			
Channel									
Frequency (MHz)									
10	QPSK	1	0	21.54	21.44	21.79	23	0	
10	QPSK	1	25	21.70	21.69	21.65			
10	QPSK	1	49	21.52	21.68	21.84			
10	QPSK	25	0	20.91	20.74	20.95	22	1	
10	QPSK	25	12	20.95	21.02	21.03			
10	QPSK	25	25	20.81	20.83	21.07			
10	QPSK	50	0	21.08	21.13	21.26	22	1	
10	16QAM	1	0	21.09	21.03	21.26			
10	16QAM	1	25	21.18	21.12	21.13			
10	16QAM	1	49	21.13	21.14	21.12	21	2	
10	16QAM	25	0	20.36	20.32	20.38			
10	16QAM	25	12	20.46	20.51	20.57			
10	16QAM	25	25	20.25	20.37	20.48	21	2	
10	16QAM	50	0	20.30	20.35	20.45			
10	64QAM	1	0	20.39	20.64	20.49			
10	64QAM	1	25	20.62	20.68	20.66	20	3	
10	64QAM	1	49	20.24	20.60	20.51			
10	64QAM	25	0	19.47	19.48	19.56			
10	64QAM	25	12	19.57	19.58	19.64	20	3	
10	64QAM	25	25	19.67	19.40	19.61			
10	64QAM	50	0	19.39	19.47	19.58			
Channel									
Frequency (MHz)									
5	QPSK	1	0	21.68	21.74	21.73	23	0	
5	QPSK	1	12	21.85	21.75	21.83			
5	QPSK	1	24	21.65	21.59	21.73			
5	QPSK	12	0	20.99	20.90	21.12	22	1	
5	QPSK	12	7	20.97	21.05	21.11			
5	QPSK	12	13	20.86	20.92	21.06			
5	QPSK	25	0	21.25	21.23	21.14	22	1	
5	16QAM	1	0	21.16	21.13	21.13			
5	16QAM	1	12	21.04	21.15	21.18			
5	16QAM	1	24	21.06	21.03	21.28	21	2	
5	16QAM	12	0	20.48	20.48	20.66			
5	16QAM	12	7	20.50	20.52	20.72			
5	16QAM	12	13	20.42	20.47	20.57	21	2	
5	16QAM	25	0	20.43	20.48	20.60			
5	64QAM	1	0	20.70	20.65	20.82			
5	64QAM	1	12	20.66	20.66	20.61	21	2	
5	64QAM	1	24	20.59	20.58	20.62			
5	64QAM	12	0	19.52	19.58	19.70			
5	64QAM	12	7	19.49	19.58	19.72	20	3	
5	64QAM	12	13	19.58	19.62	19.66			
5	64QAM	25	0	19.50	19.57	19.65			
Channel									
Frequency (MHz)									
3	QPSK	1	0	21.78	21.75	21.84	23	0	
3	QPSK	1	8	21.71	21.50	21.90			
3	QPSK	1	14	21.64	21.59	21.81			
3	QPSK	8	0	21.83	21.70	21.83	22	1	
3	QPSK	8	4	21.75	21.83	21.82			
3	QPSK	8	7	21.64	21.67	21.87			
3	QPSK	15	0	21.70	21.77	21.90	22	1	
3	16QAM	1	0	21.67	21.74	21.72			
3	16QAM	1	8	21.90	21.66	21.84			
3	16QAM	1	14	21.73	21.84	21.78	21	2	
3	16QAM	8	0	20.57	20.51	20.72			
3	16QAM	8	4	20.63	20.55	20.63			
3	16QAM	8	7	20.46	20.44	20.63	21	2	
3	16QAM	15	0	20.43	20.51	20.63			
3	64QAM	1	0	20.73	20.70	20.85			
3	64QAM	1	8	20.61	20.73	20.82	21	2	
3	64QAM	1	14	20.52	20.59	20.98			
3	64QAM	8	0	19.52	19.46	19.70			
3	64QAM	8	4	19.51	19.59	19.74	20	3	
3	64QAM	8	7	19.30	19.52	19.59			
3	64QAM	15	0	19.47	19.52	19.73			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	21.65	21.68	21.81	23	0	
1.4	QPSK	1	3	21.66	21.73	21.74			
1.4	QPSK	1	5	21.61	21.67	21.76			
1.4	QPSK	3	0	21.74	21.72	21.83	22	1	
1.4	QPSK	3	1	21.72	21.80	21.85			
1.4	QPSK	3	3	21.69	21.67	21.81			
1.4	QPSK	6	0	20.87	20.96	20.99	22	1	
1.4	16QAM	1	0	20.97	20.92	20.97			
1.4	16QAM	1	3	20.94	20.98	21.01			
1.4	16QAM	1	5	21.06	20.96	21.24	22	1	
1.4	16QAM	3	0	20.90	21.00	21.09			
1.4	16QAM	3	1	21.00	20.93	21.07			
1.4	16QAM	3	3	20.82	20.90	20.99	21	2	
1.4	16QAM	6	0	20.42	20.41	20.61			
1.4	64QAM	1	0	20.74	20.69	20.68			
1.4	64QAM	1	3	20.65	20.58	20.51	21	2	
1.4	64QAM	1	5	20.66	20.37	20.65			
1.4	64QAM	3	0	20.51	20.56	20.50			
1.4	64QAM	3	1	20.43	20.46	20.72	20	3	
1.4	64QAM	3	3	20.41	20.42	20.59			
1.4	64QAM	6	0	19.34	19.44	19.53			

Band 4 (AWS Band) Part 27L (only on channel required)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	21.73	21.66	21.84	23	0	
20	QPSK	1	49	21.89	21.80	21.83			
20	QPSK	1	99	21.79	21.90	21.90			
20	QPSK	50	0	21.03	21.04	20.77	22	1	
20	QPSK	50	24	20.99	20.85	21.02			
20	QPSK	50	50	20.99	20.92	20.70			
20	QPSK	100	0	21.15	21.16	21.05	22	1	
20	16QAM	1	0	21.05	21.12	21.02			
20	16QAM	1	49	21.21	21.10	21.00			
20	16QAM	1	99	20.94	20.80	20.90	21	2	
20	16QAM	50	0	20.44	20.46	20.30			
20	16QAM	50	24	20.55	20.54	20.56			
20	16QAM	50	50	20.39	20.50	20.39	21	2	
20	16QAM	100	0	20.45	20.09	20.47			
20	64QAM	1	0	20.09	19.97	20.03			
20	64QAM	1	49	20.06	19.99	20.02	21	2	
20	64QAM	1	99	20.07	20.09	19.82			
20	64QAM	50	0	19.03	19.0				



Band 5 (Cellular Band) Part 22(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				20450	20525	20600			
Frequency (MHz)				826.5	836.5	846.5			
10	QPSK	1	0	22.46	22.64	22.45	23.5	0	
10	QPSK	1	25	22.49	22.42	22.41			
10	QPSK	1	49	22.48	22.37	22.32			
10	QPSK	25	0	21.59	21.65	21.46			
10	QPSK	25	12	21.64	21.48	21.54	22.5	1	
10	QPSK	25	25	21.61	21.53	21.47			
10	QPSK	50	0	21.58	21.59	21.43			
10	16QAM	1	0	21.76	21.72	21.70	22.5	1	
10	16QAM	1	25	21.76	21.70	21.65			
10	16QAM	1	49	21.73	21.66	21.61			
10	16QAM	25	0	20.99	20.92	20.81			
10	16QAM	25	12	20.77	20.89	20.91	21.5	2	
10	16QAM	25	25	20.87	20.92	20.89			
10	16QAM	50	0	20.98	20.81	20.85			
10	64QAM	1	0	20.98	20.99	20.96			
10	64QAM	1	25	20.97	20.99	20.89	21.5	2	
10	64QAM	1	49	20.88	20.86	20.79			
10	64QAM	25	0	19.86	19.79	19.75			
10	64QAM	25	12	19.92	19.82	19.82	20.5	3	
10	64QAM	25	25	19.87	19.82	19.72			
10	64QAM	50	0	19.87	19.69	19.74			
Channel				20425	20525	20625			
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	22.51	22.36	22.31	23.5	0	
5	QPSK	1	12	22.56	22.49	22.40			
5	QPSK	1	24	22.47	22.40	22.27			
5	QPSK	12	0	21.62	21.52	21.40	22.5	1	
5	QPSK	12	7	21.67	21.61	21.42			
5	QPSK	12	13	21.62	21.55	21.41			
5	QPSK	25	0	21.66	21.47	21.37			
5	16QAM	1	0	21.84	21.69	21.60	22.5	1	
5	16QAM	1	12	21.82	21.80	21.65			
5	16QAM	1	24	21.81	21.70	21.57	21.5	2	
5	16QAM	12	0	20.63	20.55	20.43			
5	16QAM	12	7	20.68	20.64	20.43			
5	16QAM	12	13	20.61	20.57	20.47	21.5	2	
5	16QAM	25	0	20.64	20.50	20.39			
5	64QAM	1	0	20.72	20.62	20.53	21.5	2	
5	64QAM	1	12	20.78	20.74	20.57			
5	64QAM	1	24	20.68	20.66	20.49			
5	64QAM	12	0	19.62	19.51	19.39	20.5	3	
5	64QAM	12	7	19.68	19.61	19.44			
5	64QAM	12	13	19.63	19.53	19.46			
5	64QAM	25	0	19.64	19.53	19.39			
Channel				20415	20525	20635			
Frequency (MHz)				825.5	836.5	847.5			
3	QPSK	1	0	22.57	22.42	22.34	23.5	0	
3	QPSK	1	8	22.63	22.54	22.41			
3	QPSK	1	14	22.54	22.45	22.27			
3	QPSK	8	0	21.62	21.51	21.44	22.5	1	
3	QPSK	8	4	21.65	21.58	21.46			
3	QPSK	8	7	21.62	21.54	21.39			
3	QPSK	15	0	21.65	21.55	21.42	22.5	1	
3	16QAM	1	0	21.86	21.68	21.63	22.5	1	
3	16QAM	1	8	21.92	21.87	21.69			
3	16QAM	1	14	21.80	21.79	21.62			
3	16QAM	8	0	20.71	20.55	20.29	21.5	2	
3	16QAM	8	4	20.71	20.64	20.33			
3	16QAM	8	7	20.70	20.62	20.44			
3	16QAM	15	0	20.65	20.60	20.45	21.5	2	
3	64QAM	1	0	20.79	20.63	20.59			
3	64QAM	1	8	20.81	20.73	20.60	21.5	2	
3	64QAM	1	14	20.74	20.63	20.56			
3	64QAM	8	0	19.65	19.52	19.48	20.5	3	
3	64QAM	8	4	19.68	19.61	19.49			
3	64QAM	8	7	19.64	19.57	19.43			
3	64QAM	15	0	19.67	19.55	19.44			
Channel				20407	20525	20643			
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	22.42	22.37	22.20	23.5	0	
1.4	QPSK	1	3	22.50	22.45	22.29			
1.4	QPSK	1	5	22.43	22.37	22.18			
1.4	QPSK	3	0	22.43	22.43	22.27	22.5	1	
1.4	QPSK	3	1	22.52	22.42	22.30			
1.4	QPSK	3	3	22.46	22.41	22.24			
1.4	QPSK	6	0	21.54	21.45	21.34	22.5	1	
1.4	16QAM	1	0	21.76	21.72	21.54			
1.4	16QAM	1	3	21.84	21.72	21.60	22.5	1	
1.4	16QAM	1	5	21.76	21.68	21.55			
1.4	16QAM	3	0	21.54	21.48	21.30	21.5	2	
1.4	16QAM	3	1	21.62	21.52	21.37			
1.4	16QAM	3	3	21.54	21.46	21.30			
1.4	16QAM	6	0	20.64	20.55	20.41	21.5	2	
1.4	64QAM	1	0	20.64	20.62	20.47			
1.4	64QAM	1	3	20.68	20.63	20.51	21.5	2	
1.4	64QAM	1	5	20.64	20.58	20.44			
1.4	64QAM	3	0	20.61	20.47	20.37	20.5	3	
1.4	64QAM	3	1	20.68	20.57	20.42			
1.4	64QAM	3	3	20.58	20.50	20.36			
1.4	64QAM	6	0	19.56	19.48	19.32	20.5	3	

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	132322	132572			
Frequency (MHz)				1722	1745	1770			
20	QPSK	1	0	21.88	21.90	21.90	23	0	
20	QPSK	1	49	21.76	21.86	21.78			
20	QPSK	1	99	21.84	21.85	21.80			
20	QPSK	50	0	20.74	20.92	20.80	22	1	
20	QPSK	50	24	20.84	20.91	20.80			
20	QPSK	50	50	20.72	20.83	20.69			
20	QPSK	100	0	20.71	20.82	20.71			
20	16QAM	1	0	20.68	20.79	20.95	22	1	
20	16QAM	1	49	20.88	21.00	20.83			
20	16QAM	1	99	20.68	20.55	20.62			
20	16QAM	50	0	20.08	20.14	20.35	21	2	
20	16QAM	50	24	20.28	20.40	20.23			
20	16QAM	50	50	20.08	20.12	20.02			
20	16QAM	100	0	20.28	20.40	20.23			
20	64QAM	1	0	20.22	20.23	20.47	21	2	
20	64QAM	1	49	20.36	20.34	20.32			
20	64QAM	1	99	20.22	20.30	20.02			
20	64QAM	50	0	19.99	19.12	19.06	20	3	
20	64QAM	50	24	19.10	19.16	19.03			
20	64QAM	50	50	18.95	19.06	18.95			
20	64QAM	100	0	19.06	19.14	19.04			
Channel				132047	132322	132597			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	21.70	21.91	21.90	23	0	
15	QPSK	1	37	21.75	21.96	21.79			
15	QPSK	1	74	21.60	21.72	21.66			
15	QPSK	36	0	20.83	21.05	20.91	22	1	
15	QPSK	36	20	20.89	21.03	20.93			
15	QPSK	36	39	20.82	20.99	20.81			
15	QPSK	75	0	20.88	20.98	20.82	22	1	
15	16QAM	1	0	20.75	20.90	20.89			
15	16QAM	1	37	20.73	20.97	20.71	22	1	
15	16QAM	1	74	20.61	20.71	20.59			
15	16QAM	36	0	19.97	20.08	19.89	21	2	
15	16QAM	36	20	19.94	20.02	19.95			
15	16QAM	36	39	19.83	20.00	19.83			
15	16QAM	75	0	19.88	20.00	19.85	21	2	
15	64QAM	1	0	20.10	20.13	20.23			
15	64QAM	1	37	19.95	20.10	19.91			
15	64QAM	1	74	19.81	19.76	19.73	20	3	
15	64QAM	36	0	18.88	18.08	18.93			
15	64QAM	36	20	18.94	18.04	18.94			
15	64QAM	36	39	18.84	18.99	18.84			



UAT-Reduced Power - DSI 2 for Head

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				1870	1890	1910			
Frequency (MHz)				1860	1880	1900			
20	QPSK	1	0	13.34	13.48	13.31			
20	QPSK	1	49	13.09	13.30	13.29	14.3	0	
20	QPSK	1	99	13.12	13.22	13.28			
20	QPSK	50	0	13.17	13.40	13.28			
20	QPSK	50	24	13.32	13.39	13.38	14.3	0	
20	QPSK	50	50	13.23	13.35	13.39			
20	QPSK	100	0	13.22	13.34	13.33			
20	16QAM	1	0	13.22	13.23	13.23			
20	16QAM	1	49	13.43	13.22	13.23	14.3	0	
20	16QAM	1	99	13.46	13.33	13.23			
20	16QAM	50	0	13.11	13.20	13.20			
20	16QAM	50	24	13.27	13.30	13.38	14.3	0	
20	16QAM	50	50	13.19	13.32	13.37			
20	16QAM	100	0	13.15	13.20	13.27			
20	84QAM	1	0	13.24	13.38	13.35			
20	84QAM	1	49	13.16	13.28	13.29	14.3	0	
20	84QAM	1	99	13.11	13.31	13.32			
20	84QAM	50	0	13.08	13.19	13.20			
20	84QAM	50	24	13.20	13.25	13.40	14.3	0	
20	84QAM	50	50	13.18	13.32	13.37			
20	84QAM	100	0	13.17	13.18	13.23			
Channel				1875	1890	1905	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1875	1890	1905			
15	QPSK	1	0	13.14	13.30	13.28			
15	QPSK	1	37	13.16	13.28	13.33	14.3	0	
15	QPSK	1	74	12.99	13.28	13.30			
15	QPSK	36	0	13.22	13.30	13.28			
15	QPSK	36	20	13.32	13.37	13.44	14.3	0	
15	QPSK	36	39	13.23	13.39	13.43			
15	QPSK	75	0	13.28	13.31	13.29			
15	16QAM	1	0	13.36	13.23	13.47			
15	16QAM	1	37	13.38	13.23	13.23	14.3	0	
15	16QAM	1	74	13.30	13.47	13.23			
15	16QAM	36	0	13.07	13.19	13.19			
15	16QAM	36	20	13.24	13.24	13.36	14.3	0	
15	16QAM	36	39	13.19	13.30	13.34			
15	16QAM	75	0	13.18	13.20	13.25			
15	84QAM	1	0	13.08	13.27	13.30			
15	84QAM	1	37	13.19	13.28	13.29	14.3	0	
15	84QAM	1	74	13.16	13.28	13.28			
15	84QAM	36	0	13.11	13.19	13.19			
15	84QAM	36	20	13.21	13.25	13.38	14.3	0	
15	84QAM	36	39	13.19	13.32	13.36			
15	84QAM	75	0	13.24	13.22	13.26			
Channel				1865	1890	1915	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1890	1915			
10	QPSK	1	0	12.88	13.00	13.28			
10	QPSK	1	25	13.14	13.27	13.22	14.3	0	
10	QPSK	1	49	12.86	12.92	13.24			
10	QPSK	25	0	13.15	13.22	13.27			
10	QPSK	25	12	13.20	13.30	13.34	14.3	0	
10	QPSK	25	25	13.11	13.29	13.37			
10	QPSK	50	0	13.13	13.21	13.24			
10	16QAM	1	0	13.38	13.28	13.22			
10	16QAM	1	25	13.47	13.23	13.33	14.3	0	
10	16QAM	1	49	13.42	13.31	13.23			
10	16QAM	25	0	13.12	13.14	13.23			
10	16QAM	25	12	13.19	13.27	13.31	14.3	0	
10	16QAM	25	25	13.05	13.25	13.25			
10	16QAM	50	0	13.10	13.15	13.24			
10	84QAM	1	0	13.25	13.17	13.21	14.3	0	
10	84QAM	1	49	13.36	13.23	13.22			
10	84QAM	25	0	13.10	13.24	13.21			
10	84QAM	25	12	13.19	13.00	13.31	14.3	0	
10	84QAM	25	25	13.05	13.23	13.28			
10	84QAM	50	0	13.10	13.16	13.14			
Channel				1862.5	1890	1917.5	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1890	1917.5			
5	QPSK	1	0	13.05	13.12	13.25			
5	QPSK	1	12	13.11	13.30	13.24	14.3	0	
5	QPSK	1	24	13.02	13.15	13.08			
5	QPSK	12	0	13.15	13.28	13.37			
5	QPSK	12	7	13.24	13.33	13.42	14.3	0	
5	QPSK	12	13	13.19	13.35	13.38			
5	QPSK	25	0	13.16	13.28	13.37			
5	16QAM	1	0	13.42	13.44	13.33	14.3	0	
5	16QAM	1	12	13.43	13.32	13.34			
5	16QAM	1	24	13.31	13.44	13.23			
5	16QAM	12	0	13.24	13.27	13.38			
5	16QAM	12	7	13.21	13.31	13.40	14.3	0	
5	16QAM	12	13	13.15	13.25	13.32			
5	16QAM	25	0	13.12	13.22	13.32			
5	84QAM	1	0	13.28	13.31	13.23	14.3	0	
5	84QAM	1	12	13.44	13.21	13.23			
5	84QAM	1	24	13.28	13.29	13.34			
5	84QAM	12	0	13.19	13.24	13.38			
5	84QAM	12	7	13.14	13.25	13.35	14.3	0	
5	84QAM	12	13	13.10	13.21	13.30			
5	84QAM	25	0	13.18	13.20	13.33			
Channel				1861.5	1890	1916.5	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1861.5	1890	1916.5			
3	QPSK	1	0	13.12	13.17	13.18			
3	QPSK	1	8	13.16	13.36	13.28	14.3	0	
3	QPSK	1	14	13.10	13.21	13.28			
3	QPSK	8	0	13.19	13.27	13.40			
3	QPSK	8	4	13.23	13.32	13.41	14.3	0	
3	QPSK	8	7	13.20	13.31	13.35			
3	QPSK	15	0	13.17	13.28	13.37			
3	16QAM	1	0	13.22	13.23	13.23			
3	16QAM	1	8	13.23	13.23	13.23	14.3	0	
3	16QAM	1	14	13.31	13.44	13.21			
3	16QAM	8	0	13.30	13.31	13.44			
3	16QAM	8	4	13.30	13.42	13.23	14.3	0	
3	16QAM	8	7	13.20	13.31	13.44			
3	16QAM	15	0	13.22	13.31	13.39			
3	84QAM	1	0	13.34	13.32	13.45			
3	84QAM	1	8	13.43	13.42	13.34	14.3	0	
3	84QAM	1	14	13.20	13.24	13.46			
3	84QAM	8	0	13.22	13.28	13.31			
3	84QAM	8	4	13.23	13.32	13.39	14.3	0	
3	84QAM	8	7	13.14	13.23	13.30			
3	84QAM	15	0	13.16	13.27	13.34			
Channel				1860.7	1890	1919.3	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860.7	1890	1919.3			
1.4	QPSK	1	0	13.04	13.23	13.20			
1.4	QPSK	1	3	13.06	13.16	13.27	14.3	0	
1.4	QPSK	1	5	12.98	13.19	13.20			
1.4	QPSK	3	0	13.07	13.21	13.24			
1.4	QPSK	3	1	13.11	13.26	13.32			
1.4	QPSK	3	3	13.03	13.21	13.24	14.3	0	
1.4	QPSK	6	0	13.10	13.32	13.36			
1.4	16QAM	1	0	13.30	13.46	13.23			
1.4	16QAM	1	3	13.36	13.22	13.34	14.3	0	
1.4	16QAM	1	5	13.28	13.42	13.21			
1.4	16QAM	3	0	13.10	13.30	13.34			
1.4	16QAM	3	1	13.19	13.32	13.43			
1.4	16QAM	3	3	13.05	13.25	13.43	14.3	0	
1.4	16QAM	6	0	13.14	13.25	13.35			
1.4	84QAM	1	0	13.18	13.37	13.43			
1.4	84QAM	1	3	13.22	13.42	13.23	14.3	0	
1.4	84QAM	1	5	13.13	13.34	13.23			
1.4	84QAM	3	0	13.15	13.33	13.39			
1.4	84QAM	3	1	13.21	13.39	13.22			
1.4	84QAM	3	3	13.07	13.25	13.40	14.3	0	
1.4	84QAM	6	0	13.09	13.25	13.30			

Band 4 (AWS Band)									
Part 27L (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				2050	2075	2100			
Frequency (MHz)				1720	1732.5	1745			
20	QPSK	1	0	14.11	14.34	14.21			
20	QPSK	1	49	14.01	13.94	13.92	14.9	0	
20	QPSK	1	99	13.99	14.00	13.98			
20	QPSK	50	0	14.02	14.13	14.02			
20	QPSK	50	24	14.12	14.06	14.07	14.9	0	
20	QPSK	50	50	13.96	14.01	14.00			
20	QPSK	100	0	14.00	14.01	13.96			
20	16QAM	1	0	14.04	13.99	13.98			
20	16QAM	1	49	14.19	13.98	13.89	14.9	0	
20	16QAM	1	99	13.85	13.91	13.75			
20	16QAM	50	0	13.86	13.88	13.89			
20	16QAM	50	24	13.98	13.93	13.95	14.9	0	
20	16QAM	50	50	13.88	13.93	13.90			
20	16QAM	100	0	13.86	13.83	13.83			
20	84QAM	1	0	14.02	13.81	13.91			
20	84QAM	1	49	14.04	13.86	14.05	14.9	0	
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	14.32	14.35	14.09			
20	QPSK	1	49	13.89	14.32	14.10	14.9	0	
20	QPSK	1	99	14.23	14.09	14.09			
20	QPSK	50	0	13.99	14.14	14.04			
20	QPSK	50	24	14.07	14.04	14.13	14.9	0	
20	QPSK	50	50	13.91	13.94	13.97			
20	QPSK	100	0	13.97	14.08	14.07			
20	16QAM	1	0	14.02	13.93	14.02			
20	16QAM	1	49	14.23	14.26	14.23	14.9	0	
20	16QAM	1	99	13.89	13.96	14.02			
20	16QAM	50	0	13.94	13.96	13.95			
20	16QAM	50	24	14.04	14.03	13.98	14.9	0	
20	16QAM	50	50	13.87	13.97	13.87			
20	16QAM	100	0	13.93	13.95	13.95			
20	64QAM	1	0	13.94	13.95	13.93			
20	64QAM	1	49	14.03	13.95	13.95	14.9	0	
20	64QAM	1	99	13.74	13.80	13.76			
20	64QAM	50	0	13.92	13.97	13.92			
20	64QAM	50	24	14.05	14.01	13.95	14.9	0	
20	64QAM	50	50	13.85	13.94	13.90			
20	64QAM	100	0	13.95	13.92	13.86			
Channel				132077	132077	132077			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	13.89	13.95	13.95			
15	QPSK	1	37	13.88	13.97	14.01	14.9	0	
15	QPSK	1	74	13.72	13.79	13.87			
15	QPSK	36	0	14.02	14.08	14.10			
15	QPSK	36	20	14.07	14.07	14.13	14.9	0	
15	QPSK	36	39	13.95	14.03	13.96			
15	QPSK	75	0	14.03	14.03	14.00			
15	16QAM	1	0	14.20	14.19	14.04			
15	16QAM	1	37	14.16	14.15	14.23	14.9	0	
15	16QAM	1	74	13.93	13.95	14.07			
15	16QAM	36	0	14.01	14.01	13.95			
15	16QAM	36	20	14.05	13.99	13.93	14.9	0	
15	16QAM	36	39	13.97	13.96	13.91			
15	16QAM	75	0	14.03	13.98	13.93			
15	64QAM	1	0	13.97	13.63	13.59			
15	64QAM	1	37	13.95	13.95	13.98	14.9	0	
15	64QAM	1	74	13.66	13.63	13.79			
15	64QAM	36	0	13.96	13.95	13.98			
15	64QAM	36	20	14.00	14.02	13.95	14.9	0	
15	64QAM	36	39	13.89	13.93	13.91			
15	64QAM	75	0	13.96	13.97	13.91			
Channel				132022	132022	132022			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	0	13.80	13.82	13.86			
10	QPSK	1	25	13.91	13.96	13.96	14.9	0	
10	QPSK	1	49	13.61	13.71	13.69			
10	QPSK	25	0	14.00	13.98	13.98			
10	QPSK	25	12	14.04	13.95	14.01	14.9	0	
10	QPSK	25	25	13.97	14.02	14.01			
10	QPSK	50	0	13.99	14.00	13.97			
10	16QAM	1	0	13.99	14.04	14.03			
10	16QAM	1	25	14.25	14.03	14.03	14.9	0	
10	16QAM	1	49	13.94	14.04	13.93			
10	16QAM	25	0	13.94	13.95	13.93			
10	16QAM	25	12	13.96	13.98	13.98	14.9	0	
10	16QAM	25	25	13.87	13.96	13.93			
10	16QAM	50	0	13.90	13.89	13.87			
10	64QAM	1	0	14.00	14.04	14.20			
10	64QAM	1	25	14.18	14.02	14.26	14.9	0	
10	64QAM	1	49	13.83	13.96	13.85			
10	64QAM	25	0	13.93	13.96	13.96			
10	64QAM	25	12	14.00	14.01	13.95			
10	64QAM	25	25	13.88	13.94	13.92	14.9	0	
10	64QAM	50	0	13.90	13.92	13.87			
Channel				131997	132022	132047			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	0	13.89	13.94	13.94			
5	QPSK	1	12	14.00	14.03	14.01	14.9	0	
5	QPSK	1	24	13.89	13.93	13.88			
5	QPSK	12	0	14.00	14.04	14.03			
5	QPSK	12	7	14.07	14.06	13.94	14.9	0	
5	QPSK	12	13	14.03	13.90	14.06			
5	QPSK	25	0	14.02	14.05	14.04			
5	16QAM	1	0	14.09	14.26	14.26	14.9	0	
5	16QAM	1	12	14.21	14.03	14.25			
5	16QAM	1	24	14.16	14.21	14.09			
5	16QAM	12	0	14.05	14.04	14.06			
5	16QAM	12	7	14.03	14.06	14.06	14.9	0	
5	16QAM	12	13	13.98	14.00	13.95			
5	16QAM	25	0	13.99	13.97	13.97			
5	64QAM	1	0	14.16	14.17	14.17			
5	64QAM	1	12	14.15	14.22	14.17	14.9	0	
5	64QAM	1	24	14.01	14.13	14.16			
5	64QAM	12	0	14.04	14.00	14.02			
5	64QAM	12	7	14.00	14.02	14.04	14.9	0	
5	64QAM	12	13	13.92	13.98	13.96			
5	64QAM	25	0	13.97	13.97	13.94			
Channel				131987	132022	132057			
Frequency (MHz)				1711.5	1745	1778.5			
3	QPSK	1	0	13.88	13.91	13.84			
3	QPSK	1	8	13.95	14.04	13.98	14.9	0	
3	QPSK	1	14	13.92	13.96	13.86			
3	QPSK	8	0	14.00	13.98	13.90			
3	QPSK	8	4	14.04	14.07	14.01	14.9	0	
3	QPSK	8	7	14.03	14.08	13.97			
3	QPSK	15	0	14.00	14.05	13.99			
3	16QAM	1	0	14.23	14.26	14.25			
3	16QAM	1	8	14.27	14.03	14.24	14.9	0	
3	16QAM	1	14	14.12	14.21	14.18			
3	16QAM	8	0	14.03	14.07	14.02			
3	16QAM	8	4	14.07	14.12	14.02	14.9	0	
3	16QAM	8	7	13.96	14.04	13.96			
3	16QAM	15	0	14.01	13.96	13.96			
3	64QAM	1	0	14.20	14.05	14.12			
3	64QAM	1	8	14.21	14.03	14.19	14.9	0	
3	64QAM	1	14	14.03	14.00	14.00			
3	64QAM	8	0	14.03	13.96	13.99			
3	64QAM	8	4	14.03	14.03	14.06	14.9	0	
3	64QAM	8	7	13.85	13.89	13.89			
3	64QAM	15	0	13.95	13.95	13.92			
Channel				131979	132022	132095			
Frequency (MHz)				1710.7	1745	1779.3			
1.4	QPSK	1	0	13.85	13.90	13.80			
1.4	QPSK	1	3	13.94	13.95	13.88			
1.4	QPSK	1	5	13.87	13.91	13.80	14.9	0	
1.4	QPSK	3	0	13.85	13.88	13.83			
1.4	QPSK	3	1	13.92	13.98	13.86			
1.4	QPSK	3	3	13.91	13.91	13.95			
1.4	QPSK	6	0	13.97	13.98	13.89	14.9	0	
1.4	16QAM	1	0	14.16	14.18	14.07			
1.4	16QAM	1	3	14.19	14.20	14.08			
1.4	16QAM	1	5	14.09	14.13	13.99	14.9	0	
1.4	16QAM	3	0	13.93	13.96	13.87			
1.4	16QAM	3	1	13.96	14.01	13.95			
1.4	16QAM	3	3	13.87	13.96	13.85			
1.4	16QAM	6	0	13.97	13.99	13.88	14.9	0	
1.4	64QAM	1	0	14.07	14.12	14.01			
1.4	64QAM	1	3	14.08	14.12	13.99			
1.4	64QAM	1	5	14.02	14.04	13.97			
1.4	64QAM	3	0	13.85	14.04	13.98	14.9	0	
1.4	64QAM	3	1	14.02	14.05	14.03			
1.4	64QAM	3	3	13.92	14.03	13.84			
1.4	64QAM	6	0	13.81	13.79	13.83	14.9	0	



UAT-Reduced Power - DSI 3 for BodyWorn / Hotspot

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				1870	1890	1910			
Frequency (MHz)				1870	1890	1910			
20	QPSK	1	0	15.02	15.02	15.00			
20	QPSK	1	49	14.98	14.98	14.70	15.8	0	
20	QPSK	1	99	14.99	14.88	14.76			
20	QPSK	50	0	14.66	14.77	14.54			
20	QPSK	50	24	14.71	14.73	14.68	15.8	0	
20	QPSK	50	50	14.65	14.76	14.58			
20	QPSK	100	0	14.62	14.67	14.24			
20	16QAM	1	0	15.02	15.04	14.66			
20	16QAM	1	99	14.87	14.89	14.76	15.8	0	
20	16QAM	1	99	14.83	14.97	15.04			
20	16QAM	50	0	14.59	14.69	14.65			
20	16QAM	50	24	14.74	14.77	14.86			
20	16QAM	50	50	14.69	14.79	14.85	15.8	0	
20	16QAM	100	0	14.65	14.68	14.71			
20	64QAM	1	0	14.54	14.91	14.56			
20	64QAM	1	49	14.54	14.48	14.52	15.8	0	
20	64QAM	1	99	14.59	14.74	14.70			
20	64QAM	50	0	14.59	14.69	14.62			
20	64QAM	50	24	14.70	14.76	14.68	15.8	0	
20	64QAM	50	50	14.54	14.79	14.85			
20	64QAM	100	0	14.25	14.68	14.74			
Channel				1887.5	1890	1912.5			
Frequency (MHz)				1887.5	1890	1912.5			
15	QPSK	1	0	14.48	14.71	14.71			
15	QPSK	1	37	14.51	14.69	14.74	15.8	0	
15	QPSK	1	74	14.43	14.68	14.74			
15	QPSK	36	0	14.34	14.71	14.74			
15	QPSK	36	20	14.69	14.77	14.92	15.8	0	
15	QPSK	36	39	14.65	14.80	14.91			
15	QPSK	75	0	14.63	14.72	14.76			
15	16QAM	1	0	14.73	15.05	15.02			
15	16QAM	1	37	14.84	14.94	14.94	15.8	0	
15	16QAM	1	74	14.73	14.92	14.92			
15	16QAM	36	0	14.59	14.71	14.72			
15	16QAM	36	20	14.67	14.74	14.84	15.8	0	
15	16QAM	36	39	14.66	14.81	14.87			
15	16QAM	75	0	14.66	14.69	14.71			
15	64QAM	1	0	14.54	14.85	14.78	15.8	0	
15	64QAM	1	37	14.72	14.77	14.84			
15	64QAM	1	74	14.65	14.85	14.72			
15	64QAM	36	0	14.57	14.70	14.74			
15	64QAM	36	20	14.72	14.75	14.88	15.8	0	
15	64QAM	36	39	14.68	14.72	14.88			
15	64QAM	75	0	14.68	14.69	15.01			
Channel				1950	1950	19150			
Frequency (MHz)				1950	1950	19150			
10	QPSK	1	0	14.58	14.72	14.86			
10	QPSK	1	25	14.58	14.70	14.82	15.8	0	
10	QPSK	1	49	14.62	14.56	14.80			
10	QPSK	25	0	14.66	14.78	14.80			
10	QPSK	25	12	14.70	14.76	14.89	15.8	0	
10	QPSK	25	25	14.58	14.75	14.89			
10	QPSK	50	0	14.54	14.85	14.78			
10	16QAM	1	0	14.76	14.74	14.79	15.8	0	
10	16QAM	1	25	14.58	14.89	14.89			
10	16QAM	1	49	14.88	14.85	14.88			
10	16QAM	25	0	14.66	14.69	14.63			
10	16QAM	25	12	14.74	14.79	14.84	15.8	0	
10	16QAM	25	25	14.81	14.74	14.78			
10	16QAM	50	0	14.61	14.68	14.69			
10	64QAM	1	0	14.78	14.70	14.69	15.8	0	
10	64QAM	1	25	14.88	14.78	14.87			
10	64QAM	1	49	14.68	14.81	14.88			
10	64QAM	25	0	14.65	14.70	15.01			
10	64QAM	25	12	14.71	14.76	14.82	15.8	0	
10	64QAM	25	25	14.68	14.82	14.79			
10	64QAM	50	0	14.75	14.64	15.02			
Channel				1882.5	1890	1917.5			
Frequency (MHz)				1882.5	1890	1917.5			
5	QPSK	1	0	14.57	14.60	14.72			
5	QPSK	1	12	14.67	14.77	14.78	15.8	0	
5	QPSK	1	24	14.46	14.62	14.65			
5	QPSK	12	0	14.76	14.78	14.96			
5	QPSK	12	7	14.74	14.82	14.94	15.8	0	
5	QPSK	12	13	14.68	14.80	14.90			
5	QPSK	25	0	14.70	14.74	14.95			
5	16QAM	1	0	15.00	15.01	14.98			
5	16QAM	1	12	15.06	14.89	14.89	15.8	0	
5	16QAM	1	24	14.90	14.98	15.05			
5	16QAM	12	0	14.78	14.84	14.94			
5	16QAM	12	7	14.79	14.83	14.94	15.8	0	
5	16QAM	12	13	14.68	14.82	14.88			
5	16QAM	25	0	14.71	14.75	14.88			
5	64QAM	1	0	14.90	14.90	14.97			
5	64QAM	1	12	14.93	15.05	14.89	15.8	0	
5	64QAM	1	24	14.73	14.67	14.90			
5	64QAM	12	0	14.73	14.65	14.89			
5	64QAM	12	7	14.72	14.74	14.83	15.8	0	
5	64QAM	12	13	14.65	14.58	14.87			
5	64QAM	25	0	14.69	14.73	14.88			
Channel				1881.5	1890	1918.5			
Frequency (MHz)				1881.5	1890	1918.5			
3	QPSK	1	0	14.65	14.67	14.86			
3	QPSK	1	8	14.69	14.76	14.91	15.8	0	
3	QPSK	1	14	14.52	14.54	14.77			
3	QPSK	8	0	14.71	14.71	14.97			
3	QPSK	8	4	14.74	14.81	14.94	15.8	0	
3	QPSK	8	7	14.88	14.74	14.88			
3	QPSK	15	0	14.72	14.80	14.95			
3	16QAM	1	0	15.00	15.06	14.89			
3	16QAM	1	8	14.78	14.89	14.88	15.8	0	
3	16QAM	1	14	14.90	14.98	15.02			
3	16QAM	8	0	14.84	14.86	15.03			
3	16QAM	8	4	14.83	14.93	15.04	15.8	0	
3	16QAM	8	7	14.74	14.83	14.93			
3	16QAM	15	0	14.77	14.87	14.86			
3	64QAM	1	0	14.87	14.93	15.06			
3	64QAM	1	8	14.98	15.05	14.87	15.8	0	
3	64QAM	1	14	14.92	14.96	14.88			
3	64QAM	8	0	14.86	14.91	14.94			
3	64QAM	8	4	14.75	14.83	14.94	15.8	0	
3	64QAM	8	7	14.65	14.83	14.90			
3	64QAM	15	0	14.65	14.84	15.01			
Channel				1907	1950	19193			
Frequency (MHz)				1907	1950	19193			
1.4	QPSK	1	0	14.51	14.66	14.80			
1.4	QPSK	1	3	14.54	14.69	14.81	15.8	0	
1.4	QPSK	1	5	14.51	14.62	14.70			
1.4	QPSK	3	0	14.55	14.68	14.82			
1.4	QPSK	3	1	14.59	14.77	14.86	15.8	0	
1.4	QPSK	3	3	14.55	14.65	14.79			
1.4	QPSK	6	0	14.64	14.77	14.85	15.8	0	
1.4	16QAM	1	0	14.85	15.03	14.88			
1.4	16QAM	1	3	14.83	15.03	14.87	15.8	0	
1.4	16QAM	1	5	14.85	14.93	15.04			
1.4	16QAM	3	0	14.71	14.88	14.96	15.8	0	
1.4	16QAM	3	1	14.73	14.90	14.96			
1.4	16QAM	3	3	14.67	14.83	14.87			
1.4	16QAM	6	0	14.66	14.84	14.88	15.8	0	
1.4	64QAM	1	0	14.80	14.94	14.94			
1.4	64QAM	1	3	14.83	14.93	15.01	15.8	0	
1.4	64QAM	1	5	14.74	14.83	14.89			
1.4	64QAM	3	0	14.73	14.80	14.86	15.8	0	
1.4	64QAM	3	1	14.82	14.94	15.00			
1.4	64QAM	3	3	14.68	14.85	14.95			
1.4	64QAM	6	0	14.64	14.80	14.95	15.8	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	132322	132572			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	15.23	15.40	15.14	16.5	0	
20	QPSK	1	49	15.06	15.16	15.14			
20	QPSK	1	99	15.22	15.23	15.32			
20	QPSK	50	0	15.16	15.27	15.19			
20	QPSK	50	24	15.26	15.24	15.22	16.5	0	
20	QPSK	50	50	15.11	15.17	15.21			
20	QPSK	100	0	15.15	15.19	15.15			
20	16QAM	1	0	15.25	15.32	15.21			
20	16QAM	1	49	15.11	15.22	15.21	16.5	0	
20	16QAM	1	99	15.13	15.21	15.25			
20	16QAM	50	0	15.15	15.14	15.20			
20	16QAM	50	24	15.28	15.26	15.25	16.5	0	
20	16QAM	50	50	15.14	15.21	15.13			
20	16QAM	100	0	15.18	15.17	15.14			
20	64QAM	1	0	15.30	14.95	15.22			
20	64QAM	1	49	15.21	14.95	15.18	16.5	0	
20	64QAM	1	99	15.15	15.16	15.21			
20	64QAM	50	0	15.16	15.22	15.19			
20	64QAM	50	24	15.24	15.28	15.21	16.5	0	
20	64QAM	50	50	15.12	15.21	15.14			
20	64QAM	100	0	15.19	15.18	15.16			
Channel				133047	133292	133537			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	15.04	15.12	15.06	16.5	0	
15	QPSK	1	37	15.07	15.17	15.10			
15	QPSK	1	74	14.92	15.01	14.99			
15	QPSK	36	0	15.20	15.24	15.23	16.5	0	
15	QPSK	36	20	15.25	15.25	15.19			
15	QPSK	36	39	15.12	15.22	15.16			
15	QPSK	75	0	15.23	15.20	15.16			
15	16QAM	1	0	15.21	15.21	15.22			
15	16QAM	1	37	15.21	15.21	15.22	16.5	0	
15	16QAM	1	74	15.24	15.23	15.31			
15	16QAM	36	0	15.20	15.26	15.23			
15	16QAM	36	20	15.26	15.26	15.23	16.5	0	
15	16QAM	36	39	15.15	15.22	15.14			
15	16QAM	75	0	15.21	15.23	15.23			
15	64QAM	1	0	15.21	15.21	15.23	16.5	0	
15	64QAM	1	37	15.31	15.23	15.36			
15	64QAM	1	74	15.22	15.17	15.18			
15	64QAM	36	0	15.20	15.27	15.18	16.5	0	
15	64QAM	36	20	15.25	15.21	15.16			
15	64QAM	36	39	15.17	15.13	15.15			
15	64QAM	75	0	15.20	15.19	15.17			
Channel				133222	133222	133222			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	0	14.83	14.85	14.85	16.5	0	
10	QPSK	1	25	15.06	15.06	15.06			
10	QPSK	1	49	14.77	14.92	15.21			
10	QPSK	25	0	15.14	15.19	15.19			
10	QPSK	25	12	15.18	15.25	15.14	16.5	0	
10	QPSK	25	25	15.10	15.21	15.17			
10	QPSK	50	0	15.11	15.19	15.11			
10	16QAM	1	0	15.21	15.27	15.22	16.5	0	
10	16QAM	1	25	15.21	15.23	15.21			
10	16QAM	1	49	15.21	15.26	15.15			
10	16QAM	25	0	15.18	15.13	15.11	16.5	0	
10	16QAM	25	12	15.21	15.21	15.13			
10	16QAM	25	25	15.06	15.15	15.09			
10	16QAM	50	0	15.12	15.13	15.07			
10	64QAM	1	0	15.25	15.31	15.19	16.5	0	
10	64QAM	1	25	15.22	15.38	15.23			
10	64QAM	1	49	15.18	15.22	15.07			
10	64QAM	25	0	15.13	15.16	15.10	16.5	0	
10	64QAM	25	12	15.24	15.21	15.20			
10	64QAM	25	25	15.10	15.17	15.11			
10	64QAM	50	0	15.13	15.36	15.07			
Channel				131997	132222	132647			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	0	15.10	15.11	15.13	16.5	0	
5	QPSK	1	12	15.11	15.22	15.11			
5	QPSK	1	24	15.08	15.10	14.95			
5	QPSK	12	0	15.15	15.18	15.23	16.5	0	
5	QPSK	12	7	15.21	15.21	15.21			
5	QPSK	12	13	15.14	15.23	15.11			
5	QPSK	25	0	15.17	15.20	15.15			
5	16QAM	1	0	15.11	15.12	15.21	16.5	0	
5	16QAM	1	12	15.12	15.13	15.12			
5	16QAM	1	24	15.32	15.28	15.27			
5	16QAM	12	0	15.26	15.24	15.26	16.5	0	
5	16QAM	12	7	15.27	15.26	15.25			
5	16QAM	12	13	15.19	15.16	15.13			
5	16QAM	25	0	15.16	15.14	15.17			
5	64QAM	1	0	15.36	15.32	15.36	16.5	0	
5	64QAM	1	12	15.34	15.36	15.32			
5	64QAM	1	24	15.24	15.23	15.21			
5	64QAM	12	0	15.24	15.21	15.23	16.5	0	
5	64QAM	12	7	15.25	15.21	15.16			
5	64QAM	12	13	15.14	15.08	15.11			
5	64QAM	25	0	15.12	15.15	15.17			
Channel				131997	132222	132695			
Frequency (MHz)				1711.5	1745	1779.5			
3	QPSK	1	0	15.15	15.18	15.05	16.5	0	
3	QPSK	1	8	15.12	15.26	15.10			
3	QPSK	1	14	15.01	15.11	14.95			
3	QPSK	8	0	15.19	15.17	15.16	16.5	0	
3	QPSK	8	4	15.17	15.28	15.15			
3	QPSK	8	7	15.13	15.20	15.04			
3	QPSK	15	0	15.18	15.19	15.11			
3	16QAM	1	0	15.23	15.11	15.37	16.5	0	
3	16QAM	1	8	15.22	15.21	15.22			
3	16QAM	1	14	15.36	15.38	15.23			
3	16QAM	8	0	15.27	15.26	15.26	16.5	0	
3	16QAM	8	4	15.27	15.33	15.23			
3	16QAM	8	7	15.18	15.28	15.24			
3	16QAM	15	0	15.21	15.22	15.21	16.5	0	
3	64QAM	1	0	15.21	15.36	15.32			
3	64QAM	1	8	15.11	15.21	15.38	16.5	0	
3	64QAM	1	14	15.34	15.36	15.38			
3	64QAM	8	0	15.18	15.23	15.16	16.5	0	
3	64QAM	8	4	15.14	15.16	15.18			
3	64QAM	8	7	15.12	15.10	15.09			
3	64QAM	15	0	15.14	15.16	15.12			
Channel				131919	132222	132695			
Frequency (MHz)				1710.7	1745	1779.3			
1.4	QPSK	1	0	15.06	15.09	14.96	16.5	0	
1.4	QPSK	1	3	15.09	15.11	14.95			
1.4	QPSK	1	5	15.01	15.03	14.80			
1.4	QPSK	3	0	15.05	15.14	15.02			
1.4	QPSK	3	1	15.11	15.18	15.06	16.5	0	
1.4	QPSK	3	3	15.01	15.08	14.90			
1.4	QPSK	6	0	15.09	15.20	15.04	16.5	0	
1.4	16QAM	1	0	15.21	15.21	15.30			
1.4	16QAM	1	3	15.23	15.21	15.38	16.5	0	
1.4	16QAM	1	5	15.21	15.12	15.34			
1.4	16QAM	3	0	15.27	15.24	15.06			
1.4	16QAM	3	1	15.26	15.26	15.13			
1.4	16QAM	3	3	15.18	15.19	15.02	16.5	0	
1.4	16QAM	6	0	15.21	15.25	15.08			
1.4	64QAM	1	0	15.23	15.38	15.16			
1.4	64QAM	1	3	15.21	15.21	15.19	16.5	0	
1.4	64QAM	1	5	15.23	15.12	15.09			
1.4	64QAM	3	0	15.20	15.21	15.08			
1.4	64QAM	3	1	15.23	15.26	15.24			
1.4	64QAM	3	3	15.16	15.19	14.90	16.5	0	
1.4	64QAM	6	0	15.16	15.15	15.13			



UAT-Reduced Power - DSI 6 for Handheld

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				1870	1880	1910			
Frequency (MHz)				1880	1890	1900			
20	QPSK	1	0	19.23	19.36	19.21			
20	QPSK	1	49	19.12	19.11	19.21	20.5	0	
20	QPSK	1	99	19.24	19.04	19.07			
20	QPSK	50	0	19.12	19.29	19.11			
20	QPSK	50	24	19.15	19.12	19.28	20.5	0	
20	QPSK	50	50	19.05	19.21	19.27			
20	QPSK	100	0	19.02	19.06	19.27			
20	16QAM	1	0	19.21	19.08	19.22			
20	16QAM	1	49	19.24	19.06	19.21	20.5	0	
20	16QAM	1	99	19.25	19.23	19.21			
20	16QAM	50	0	18.98	19.20	19.10			
20	16QAM	50	24	19.11	19.23	19.29	20.5	0	
20	16QAM	50	50	19.05	19.17	19.27			
20	16QAM	100	0	19.05	19.05	19.15			
20	16QAM	1	0	19.05	19.33	19.12			
20	16QAM	1	49	19.12	19.20	19.21	20.5	0	
20	16QAM	1	99	19.03	19.13	19.19			
20	16QAM	50	0	18.95	19.03	19.10			
20	16QAM	50	24	19.04	19.17	19.31	20.5	0	
20	16QAM	50	50	19.02	19.16	19.32			
20	16QAM	100	0	19.02	19.05	19.21			
Channel				1887.5	1880	1912.5	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1887.5	1880	1912.5			
15	QPSK	1	0	18.87	19.18	19.12			
15	QPSK	1	37	18.91	19.12	19.24	20.5	0	
15	QPSK	1	74	18.83	19.13	19.12			
15	QPSK	36	0	19.02	19.13	19.14			
15	QPSK	36	20	19.11	19.19	19.15	20.5	0	
15	QPSK	36	39	19.05	19.22	19.05			
15	QPSK	75	0	19.06	19.13	19.18			
15	16QAM	1	0	19.17	19.21	19.12	20.5	0	
15	16QAM	1	37	19.21	19.23	19.22			
15	16QAM	1	74	19.16	19.21	19.18			
15	16QAM	36	0	18.98	19.11	19.13	20.5	0	
15	16QAM	36	20	19.09	19.14	19.28			
15	16QAM	36	39	19.06	19.20	19.26			
15	16QAM	75	0	19.09	19.12	19.19			
15	16QAM	1	0	18.91	19.25	19.22	20.5	0	
15	16QAM	1	37	19.08	19.20	19.34			
15	16QAM	1	74	19.06	19.17	19.21			
15	16QAM	36	0	18.86	19.12	19.16	20.5	0	
15	16QAM	36	20	19.07	19.26	19.21			
15	16QAM	36	39	19.07	19.13	19.12			
15	16QAM	75	0	19.10	19.08	19.16			
Channel				1885	1880	1915	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1885	1880	1915			
10	QPSK	1	0	19.01	18.75	19.20	20.5	0	
10	QPSK	1	25	18.97	19.21	19.21			
10	QPSK	1	49	19.14	19.06	19.20			
10	QPSK	25	0	19.02	19.05	19.18			
10	QPSK	25	12	19.11	19.19	19.28	20.5	0	
10	QPSK	25	25	19.01	19.28	19.28			
10	QPSK	50	0	19.03	19.09	19.17			
10	16QAM	1	0	19.09	19.24	19.16	20.5	0	
10	16QAM	1	25	19.21	19.34	19.06			
10	16QAM	1	49	19.07	19.30	19.21			
10	16QAM	25	0	19.04	19.08	19.16	20.5	0	
10	16QAM	25	12	19.12	19.19	19.27			
10	16QAM	25	25	18.99	19.18	19.23			
10	16QAM	50	0	19.03	19.10	19.14	20.5	0	
10	16QAM	1	0	19.04	19.09	19.16			
10	16QAM	1	25	19.30	19.14	19.20			
10	16QAM	1	49	19.06	18.96	19.26	20.5	0	
10	16QAM	25	0	19.15	19.11	19.05			
10	16QAM	25	12	19.06	19.21	19.13			
10	16QAM	25	25	19.05	19.12	19.16			
10	16QAM	50	0	18.97	19.21	19.02			
Channel				1882.5	1880	1917.5	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1882.5	1880	1917.5			
5	QPSK	1	0	19.01	19.06	19.32	20.5	0	
5	QPSK	1	12	19.09	19.14	19.25			
5	QPSK	1	24	18.90	19.05	19.03			
5	QPSK	12	0	19.17	19.19	19.34	20.5	0	
5	QPSK	12	7	19.15	19.20	19.12			
5	QPSK	12	13	19.08	19.23	19.27			
5	QPSK	25	0	19.12	19.19	19.30			
5	16QAM	1	0	19.12	19.35	19.13	20.5	0	
5	16QAM	1	12	19.21	19.25	19.34			
5	16QAM	1	24	19.30	19.12	19.12			
5	16QAM	12	0	19.18	19.26	19.21	20.5	0	
5	16QAM	12	7	19.22	19.23	19.12			
5	16QAM	12	13	19.11	19.23	19.32			
5	16QAM	25	0	19.12	19.18	19.29	20.5	0	
5	16QAM	1	0	19.23	19.33	19.21			
5	16QAM	1	12	19.28	19.12	19.34			
5	16QAM	1	24	19.11	19.31	19.39	20.5	0	
5	16QAM	12	0	19.15	19.28	19.04			
5	16QAM	12	7	19.13	19.20	19.35	20.5	0	
5	16QAM	12	13	19.08	19.18	19.02			
5	16QAM	25	0	19.15	19.20	19.26			
Channel				1881.5	1880	1918.5	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1881.5	1880	1918.5			
3	QPSK	1	0	19.08	19.13	19.27	20.5	0	
3	QPSK	1	8	19.11	19.21	19.21			
3	QPSK	1	14	18.96	19.16	19.35			
3	QPSK	8	0	19.13	19.21	19.32	20.5	0	
3	QPSK	8	4	19.15	19.24	19.22			
3	QPSK	8	7	19.08	19.19	19.23			
3	QPSK	15	0	19.11	19.22	19.21			
3	16QAM	1	0	19.22	19.21	19.21	20.5	0	
3	16QAM	1	8	19.21	19.34	19.22			
3	16QAM	1	14	19.30	19.12	19.12			
3	16QAM	8	0	19.23	19.31	19.26	20.5	0	
3	16QAM	8	4	19.25	19.34	19.12			
3	16QAM	8	7	19.13	19.20	19.21			
3	16QAM	15	0	19.13	19.25	19.22			
3	16QAM	1	0	19.21	19.33	19.22	20.5	0	
3	16QAM	1	8	19.21	19.12	19.21			
3	16QAM	1	14	19.21	19.21	19.12			
3	16QAM	8	0	19.18	19.14	19.14			
3	16QAM	8	4	19.16	19.28	19.24	20.5	0	
3	16QAM	8	7	19.10	19.21	19.32			
3	16QAM	15	0	19.13	19.19	19.35			
Channel				1880.7	1880	1919.3	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1880.7	1880	1919.3			
1.4	QPSK	1	0	19.16	19.10	19.15	20.5	0	
1.4	QPSK	1	3	19.00	19.16	19.17			
1.4	QPSK	1	5	18.96	19.04	19.11			
1.4	QPSK	3	0	19.05	19.17	19.18			
1.4	QPSK	3	1	18.09	19.20	19.19	20.5	0	
1.4	QPSK	3	3	19.02	19.11	19.15			
1.4	16QAM	1	0	19.09	19.18	19.21	20.5	0	
1.4	16QAM	1	0	19.21	19.18	19.13			
1.4	16QAM	1	3	19.12	19.11	19.20			
1.4	16QAM	1	5	19.26	19.21	19.21	20.5	0	
1.4	16QAM	3	0	19.14	19.28	19.25			
1.4	16QAM	3	1	19.21	19.33	19.32	20.5	0	
1.4	16QAM	3	3	19.14	19.25	19.22			
1.4	16QAM	6	0	19.11	19.28	19.30			
1.4	16QAM	1	0	19.25	19.33	19.21	20.5	0	
1.4	16QAM	1	3	19.27	19.23	19.22			
1.4	16QAM	1	5	19.13	19.27	19.25			
1.4	16QAM	3	0	19.28	19.28	19.14	20.5	0	
1.4	16QAM	3	1	19.12	19.26	19.34			
1.4	16QAM	3	3	19.11	19.25	19.23			
1.4	16QAM	6	0	19.08	19.13	19.12	20.5	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)				1722	1745	1770			
20	QPSK	1	0	19.09	19.31	19.10			
20	QPSK	1	49	18.92	19.03	18.96	20	0	
20	QPSK	1	99	19.12	19.21	18.92			
20	QPSK	50	0	19.05	19.17	19.05			
20	QPSK	50	24	19.16	19.03	19.06	20	0	
20	QPSK	50	50	19.00	18.97	18.99			
20	QPSK	100	0	19.01	19.06	19.02			
20	16QAM	1	0	19.21	19.26	19.21			
20	16QAM	1	49	19.12	19.21	19.21	20	0	
20	16QAM	1	99	19.10	19.01	19.23			
20	16QAM	50	0	19.07	19.12	19.02			
20	16QAM	50	24	19.14	19.14	19.06	20	0	
20	16QAM	50	50	19.06	19.06	19.09			
20	16QAM	100	0	19.04	19.07	19.01			
20	64QAM	1	0	19.06	19.12	19.13			
20	64QAM	1	49	19.21	19.22	19.26	20	0	
20	64QAM	1	99	19.10	19.08	19.93			
20	64QAM	50	0	19.05	18.99	18.84			
20	64QAM	50	24	19.12	19.05	19.08	20	0	
20	64QAM	50	50	19.00	19.06	19.02			
20	64QAM	100	0	19.07	19.04	19.00			
Channel				132047	132322	132597			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	18.88	18.84	18.75			
15	QPSK	1	37	19.94	19.05	19.96	20	0	
15	QPSK	1	74	18.76	18.89	18.86			
15	QPSK	36	0	19.05	19.14	18.90			
15	QPSK	36	20	19.10	19.12	18.93	20	0	
15	QPSK	36	39	19.01	19.08	19.19			
15	QPSK	75	0	19.05	19.07	19.00			
15	16QAM	1	0	19.28	19.21	19.21			
15	16QAM	1	37	19.28	19.12	19.20	20	0	
15	16QAM	1	74	19.08	19.14	19.05			
15	16QAM	36	0	19.06	19.14	19.09			
15	16QAM	36	20	19.10	19.11	19.05	20	0	
15	16QAM	36	39	19.03	19.11	18.97			
15	16QAM	75	0	19.09	19.11	19.03			
15	64QAM	1	0	19.22	19.25	19.30			
15	64QAM	1	37	19.13	19.22	19.18	20	0	
15	64QAM	1	74	19.12	19.10	19.14			
15	64QAM	36	0	19.08	19.14	19.01			
15	64QAM	36	20	19.12	19.12	19.01	20	0	
15	64QAM	36	39	19.03	19.00	18.96			
15	64QAM	75	0	19.08	19.02	19.01			
Channel				132022	132322	132622			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	0	18.76	18.80	18.73			
10	QPSK	1	25	19.06	19.04	18.93	20	0	
10	QPSK	1	49	18.74	18.66	18.92			
10	QPSK	25	0	19.01	19.02	18.97			
10	QPSK	25	12	19.07	19.07	19.01	20	0	
10	QPSK	25	25	19.03	19.10	19.95			
10	QPSK	50	0	18.77	19.04	18.98			
10	16QAM	1	0	18.95	19.19	19.14			
10	16QAM	1	25	19.24	19.23	19.21	20	0	
10	16QAM	1	49	18.95	19.14	19.06			
10	16QAM	25	0	18.95	19.06	18.99			
10	16QAM	25	12	19.02	19.10	19.05	20	0	
10	16QAM	25	25	18.88	18.03	19.00			
10	16QAM	50	0	19.15	19.01	18.96			
10	64QAM	1	0	19.15	19.15	19.08			
10	64QAM	1	25	19.12	19.16	19.28	20	0	
10	64QAM	1	49	19.08	19.05	18.92			
10	64QAM	25	0	19.04	19.09	19.02			
10	64QAM	25	12	19.11	19.05	19.06	20	0	
10	64QAM	25	25	18.97	19.05	18.99			
10	64QAM	50	0	18.98	19.00	18.95			
Channel				131997	132322	132647			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	0	18.90	19.00	18.92			
5	QPSK	1	12	19.10	19.05	19.03	20	0	
5	QPSK	1	24	18.88	19.00	18.79			
5	QPSK	12	0	19.11	19.08	19.07			
5	QPSK	12	7	19.11	19.04	19.05	20	0	
5	QPSK	12	13	19.04	19.09	18.96			
5	QPSK	25	0	19.06	19.04	19.03			
5	16QAM	1	0	19.23	19.12	19.23			
5	16QAM	1	12	19.12	19.21	19.12	20	0	
5	16QAM	1	24	19.21	19.26	19.16			
5	16QAM	12	0	19.14	19.17	19.11			
5	16QAM	12	7	19.14	19.13	19.12	20	0	
5	16QAM	12	13	19.09	19.15	19.06			
5	16QAM	25	0	19.08	19.10	19.05			
5	64QAM	1	0	19.26	19.29	19.30			
5	64QAM	1	12	19.24	19.21	19.29	20	0	
5	64QAM	1	24	19.15	19.21	19.12			
5	64QAM	12	0	19.11	19.10	19.08			
5	64QAM	12	7	19.10	19.09	19.04	20	0	
5	64QAM	12	13	19.04	19.08	18.96			
5	64QAM	25	0	19.08	19.08	19.04			
Channel				131987	132322	132657			
Frequency (MHz)				1711.5	1745	1775.5			
3	QPSK	1	0	19.03	19.07	19.02			
3	QPSK	1	8	19.03	19.13	19.06	20	0	
3	QPSK	1	14	18.98	18.99	18.81			
3	QPSK	8	0	19.06	19.10	19.06			
3	QPSK	8	4	18.91	19.17	19.04	20	0	
3	QPSK	8	7	19.01	18.91	18.93			
3	QPSK	15	0	19.06	18.91	18.99			
3	16QAM	1	0	19.30	19.19	19.28			
3	16QAM	1	8	19.21	19.22	19.23	20	0	
3	16QAM	1	14	19.16	19.28	19.11			
3	16QAM	8	0	19.18	19.19	19.16			
3	16QAM	8	4	19.14	19.23	19.15	20	0	
3	16QAM	8	7	19.10	19.19	19.09			
3	16QAM	15	0	19.09	19.09	19.06			
3	64QAM	1	0	19.29	19.28	19.23			
3	64QAM	1	8	19.22	19.18	19.23	20	0	
3	64QAM	1	14	19.14	19.16	19.22			
3	64QAM	8	0	19.11	19.14	19.06			
3	64QAM	8	4	19.11	19.17	19.05	20	0	
3	64QAM	8	7	19.06	19.12	19.03			
3	64QAM	15	0	19.08	19.07	19.01			
Channel				131979	132322	132695			
Frequency (MHz)				1710.7	1745	1779.3			
1.4	QPSK	1	0	18.95	18.94	18.95			
1.4	QPSK	1	3	18.76	18.97	18.88	20	0	
1.4	QPSK	1	5	18.75	18.90	18.78			
1.4	QPSK	3	0	18.84	19.02	18.92			
1.4	QPSK	3	1	18.86	19.06	18.94			
1.4	QPSK	3	3	18.82	19.00	18.85			
1.4	QPSK	6	0	18.90	19.01	18.93	20	0	
1.4	16QAM	1	0	19.22	19.29	19.19			
1.4	16QAM	1	3	19.20	19.12	19.21			
1.4	16QAM	1	5	19.15	19.22	19.14	20	0	
1.4	16QAM	3	0	19.05	19.11	19.03			
1.4	16QAM	3	1	19.05	19.16	19.04			
1.4	16QAM	3	3	18.98	19.05	18.91			
1.4	16QAM	6	0	19.05	19.14	19.00	20	0	
1.4	64QAM	1	0	19.28	19.27	19.21			
1.4	64QAM	1	3	19.20	19.22	19.26			
1.4	64QAM	1	5	19.16	19.14	19.11	20	0	
1.4	64QAM	3	0	19.06	19.08	19.04			
1.4	64QAM	3	1	19.06	18.93	18.98			
1.4	64QAM	3	3	19.03	18.95	18.96			
1.4	64QAM	6	0	18.95	18.94	18.89	20	0	



LAT-Reduced Power - DSI 3 for BodyWorm / Hotspot

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	824.2	836.4	848.6		824.2	836.4	848.6	
Frequency (MHz)	824.2	836.4	848.6		824.2	836.4	848.6	
GSM 1 Tx slot	32.45	32.51	32.20	33.30	23.45	23.51	23.20	24.30
GPRS 1 Tx slot	32.44	32.50	32.19	33.30	23.44	23.50	23.19	24.30
GPRS 2 Tx slots	28.14	28.67	28.96	30.00	23.14	22.67	22.99	24.00
GPRS 3 Tx slots	27.33	27.63	27.13	28.56	23.07	23.37	22.87	24.30
GPRS 4 Tx slots	26.26	26.26	25.95	27.30	23.26	23.26	22.95	24.30
EDGE 1 Tx slot	25.49	25.66	25.20	26.00	18.49	18.66	18.20	17.00
EDGE 2 Tx slots	24.00	24.25	23.81	25.00	18.00	18.25	17.81	19.00
EDGE 3 Tx slots	22.85	23.05	22.60	24.00	18.59	18.79	18.34	19.74
EDGE 4 Tx slots	20.89	21.05	20.68	22.00	17.89	18.05	17.68	19.00

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1852.2	1863	1863.8		1852.2	1860	1863.8	
Frequency (MHz)	1852.2	1863	1863.8		1852.2	1860	1863.8	
GSM 1 Tx slot	25.90	26.20	26.12	27.10	16.90	17.20	17.12	18.10
GPRS 1 Tx slot	25.87	26.19	26.11	27.10	16.87	17.19	17.11	18.10
GPRS 2 Tx slots	22.65	23.14	23.01	24.10	16.95	17.14	17.01	18.10
GPRS 3 Tx slots	21.04	21.45	21.25	22.36	16.79	17.19	16.99	18.10
GPRS 4 Tx slots	20.00	20.25	20.12	21.10	17.00	17.25	17.12	18.10
EDGE 1 Tx slot	24.36	24.58	24.40	25.00	15.36	15.58	15.40	16.00
EDGE 2 Tx slots	22.67	23.07	23.11	24.00	16.67	17.07	17.11	18.00
EDGE 3 Tx slots	21.31	21.32	21.40	22.36	17.25	17.26	17.14	18.10
EDGE 4 Tx slots	19.66	19.88	19.69	21.00	16.66	16.88	16.69	18.00

Burst	WCDMA #			Tune-up Limit (dBm)
	9262	9400	9538	
TX Channel	9562	9600	9638	
Rx Channel	9562	9600	9638	
Frequency (MHz)	1852.4	1860	1867.6	
3GPP Rel 99 AMR 12.2kops	13.26	13.36	13.10	16.30
3GPP Rel 99 RMC 12.2kops	15.25	15.37	15.20	15.30
3GPP Rel 6 HSDPA Subtest-1	14.36	14.45	14.00	15.30
3GPP Rel 6 HSDPA Subtest-2	14.26	14.45	13.99	15.30
3GPP Rel 6 HSDPA Subtest-3	13.56	13.55	13.15	14.80
3GPP Rel 6 HSDPA Subtest-4	13.82	13.91	13.54	14.80
3GPP Rel 8 DC-HSDPA Subtest-1	14.32	14.41	14.06	15.30
3GPP Rel 8 DC-HSDPA Subtest-2	14.24	14.42	13.98	15.30
3GPP Rel 8 DC-HSDPA Subtest-3	13.83	13.52	13.12	14.80
3GPP Rel 8 DC-HSDPA Subtest-4	13.79	13.90	13.52	14.80
3GPP Rel 6 HSUPA Subtest-1	14.62	14.87	14.44	15.30
3GPP Rel 6 HSUPA Subtest-2	12.92	12.88	12.46	13.30
3GPP Rel 6 HSUPA Subtest-3	13.84	13.87	13.43	14.30
3GPP Rel 6 HSUPA Subtest-4	12.82	12.84	12.39	13.30
3GPP Rel 6 HSUPA Subtest-5	14.70	14.61	14.52	15.30



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	15.30	15.22	15.9	0	
20	QPSK	1	49	15.02	15.06	15.05			
20	QPSK	1	99	14.90	15.02	15.03	15.9	0	
20	QPSK	50	0	15.02	15.17	15.06			
20	QPSK	50	24	15.16	15.15	15.14	15.9	0	
20	QPSK	50	50	15.04	15.13	15.12			
20	QPSK	100	0	15.07	15.12	15.11	15.9	0	
20	16QAM	1	0	15.32	15.36	15.31			
20	16QAM	1	49	15.23	15.24	15.23	15.9	0	
20	16QAM	1	99	15.16	15.28	15.16			
20	16QAM	50	0	14.94	14.97	15.00	15.9	0	
20	16QAM	50	24	15.07	15.04	15.14			
20	16QAM	50	50	15.03	15.09	15.11	15.9	0	
20	16QAM	100	0	15.00	14.95	15.01			
20	64QAM	1	0	15.18	15.21	15.02	15.9	0	
20	64QAM	1	49	15.00	15.14	15.04			
20	64QAM	1	99	14.97	15.05	14.99	15.9	0	
20	64QAM	50	0	14.90	15.00	15.00			
20	64QAM	50	24	15.08	15.08	15.11	15.9	0	
20	64QAM	50	50	14.98	15.09	15.06			
20	64QAM	100	0	15.00	14.96	15.10	15.9	0	
Channel									
Frequency (MHz)									
15	QPSK	1	0	14.80	15.12	15.12	15.9	0	
15	QPSK	1	37	15.01	15.08	15.06			
15	QPSK	1	74	14.80	15.04	15.03	15.9	0	
15	QPSK	36	0	15.00	15.15	15.08			
15	QPSK	36	20	15.10	15.16	15.23	15.9	0	
15	QPSK	36	39	15.03	15.19	15.16			
15	QPSK	75	0	15.08	15.11	15.13	15.9	0	
15	16QAM	1	0	15.17	15.31	15.31			
15	16QAM	1	37	15.24	15.30	15.28	15.9	0	
15	16QAM	1	74	15.13	15.24	15.25			
15	16QAM	36	0	14.92	14.98	14.98	15.9	0	
15	16QAM	36	20	15.05	15.05	15.11			
15	16QAM	36	39	14.98	15.07	15.08	15.9	0	
15	16QAM	75	0	15.00	15.02	14.99			
15	64QAM	1	0	14.92	15.15	15.09	15.9	0	
15	64QAM	1	37	14.96	15.16	15.13			
15	64QAM	1	74	14.88	15.08	14.95	15.9	0	
15	64QAM	36	0	14.92	15.18	14.98			
15	64QAM	36	20	15.06	15.14	15.12	15.9	0	
15	64QAM	36	39	15.03	15.39	15.09			
15	64QAM	75	0	15.01	15.00	15.05	15.9	0	
Channel									
Frequency (MHz)									
10	QPSK	1	0	14.66	14.80	15.05	15.9	0	
10	QPSK	1	25	14.94	14.65	15.06			
10	QPSK	1	49	14.58	14.85	15.02	15.9	0	
10	QPSK	25	0	14.82	15.02	15.02			
10	QPSK	25	12	15.07	15.14	15.14	15.9	0	
10	QPSK	25	25	14.97	15.11	15.13			
10	QPSK	50	0	15.00	15.05	15.06	15.9	0	
10	16QAM	1	0	15.03	15.17	15.23			
10	16QAM	1	25	15.34	15.23	15.23	15.9	0	
10	16QAM	1	49	15.01	15.20	15.37			
10	16QAM	25	0	14.96	15.00	14.99	15.9	0	
10	16QAM	25	12	15.03	15.09	15.11			
10	16QAM	25	25	14.91	15.06	15.05	15.9	0	
10	16QAM	50	0	14.83	15.01	15.01			
10	64QAM	1	0	15.01	15.07	15.35	15.9	0	
10	64QAM	1	25	15.17	15.38	15.33			
10	64QAM	1	49	14.97	14.89	15.06	15.9	0	
10	64QAM	25	0	15.08	15.09	15.21			
10	64QAM	25	12	15.28	15.09	15.30	15.9	0	
10	64QAM	25	25	14.92	15.03	15.32			
10	64QAM	50	0	14.93	15.01	15.00	15.9	0	
Channel									
Frequency (MHz)									
5	QPSK	1	0	14.81	14.83	14.99	15.9	0	
5	QPSK	1	12	15.01	15.09	15.10			
5	QPSK	1	24	14.86	14.86	14.86	15.9	0	
5	QPSK	12	0	15.07	15.08	15.12			
5	QPSK	12	7	15.11	15.12	15.23	15.9	0	
5	QPSK	12	13	15.04	15.13	15.16			
5	QPSK	25	0	15.05	15.11	15.18	15.9	0	
5	16QAM	1	0	15.29	15.32	15.23			
5	16QAM	1	12	15.34	15.23	15.21	15.9	0	
5	16QAM	1	24	15.22	15.32	15.30			
5	16QAM	12	0	15.10	15.13	15.16	15.9	0	
5	16QAM	12	7	15.07	15.22	15.19			
5	16QAM	12	13	14.99	15.09	15.11	15.9	0	
5	16QAM	25	0	15.04	15.08	15.15			
5	64QAM	1	0	15.17	15.22	15.25	15.9	0	
5	64QAM	1	12	15.25	15.34	15.22			
5	64QAM	1	24	15.05	15.18	15.22	15.9	0	
5	64QAM	12	0	15.08	15.09	15.17			
5	64QAM	12	7	15.20	15.15	15.18	15.9	0	
5	64QAM	12	13	15.30	15.09	15.07			
5	64QAM	25	0	14.94	15.10	15.12	15.9	0	
Channel									
Frequency (MHz)									
3	QPSK	1	0	15.00	15.21	15.04	15.9	0	
3	QPSK	1	8	15.12	15.15	15.17			
3	QPSK	1	14	14.97	15.05	15.06	15.9	0	
3	QPSK	8	0	15.09	15.11	15.30			
3	QPSK	8	4	15.12	15.14	15.11	15.9	0	
3	QPSK	8	7	15.07	15.15	15.18			
3	QPSK	15	0	15.06	15.13	15.19	15.9	0	
3	16QAM	1	0	15.29	15.33	15.38			
3	16QAM	1	8	15.31	15.21	15.22	15.9	0	
3	16QAM	1	14	15.19	15.31	15.35			
3	16QAM	8	0	15.16	15.21	15.29	15.9	0	
3	16QAM	8	4	15.12	15.27	15.31			
3	16QAM	8	7	15.05	15.20	15.19	15.9	0	
3	16QAM	15	0	15.08	15.39	15.20			
3	64QAM	1	0	15.23	15.29	15.27	15.9	0	
3	64QAM	1	8	15.26	15.23	15.22			
3	64QAM	1	14	15.11	15.20	15.24	15.9	0	
3	64QAM	8	0	15.11	15.20	15.23			
3	64QAM	8	4	15.21	15.20	15.22	15.9	0	
3	64QAM	8	7	15.23	15.13	15.13			
3	64QAM	15	0	15.32	15.18	15.14	15.9	0	
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	14.81	14.83	14.85	15.9	0	
1.4	QPSK	1	3	14.93	15.04	14.90			
1.4	QPSK	1	5	14.79	14.93	14.93	15.9	0	
1.4	QPSK	3	0	14.91	14.97	14.99			
1.4	QPSK	3	1	14.98	15.04	15.11	15.9	0	
1.4	QPSK	3	3	14.88	14.94	15.00			
1.4	QPSK	6	0	15.00	15.08	15.03	15.9	0	
1.4	16QAM	1	0	15.07	15.35	15.16			
1.4	16QAM	1	3	15.10	15.11	15.38	15.9	0	
1.4	16QAM	1	5	15.01	15.16	14.82			
1.4	16QAM	3	0	14.98	15.10	15.25	15.9	0	
1.4	16QAM	3	1	15.08	15.04	15.28			
1.4	16QAM	3	3	14.95	15.04	15.05	15.9	0	
1.4	16QAM	6	0	15.06	15.16	15.15			
1.4	64QAM	1	0	14.98	15.03	14.94	15.9	0	
1.4	64QAM	1	3	14.82	14.93	15.16			
1.4	64QAM	1	5	14.74	14.83	15.21	15.9	0	
1.4	64QAM	3	0	14.64	14.86	14.91			
1.4	64QAM	3	1	14.83	14.73	14.92	15.9	0	
1.4	64QAM	3	3	14.68	14.80	14.87			
1.4	64QAM	6	0	14.80	14.95	14.87	15.9	0	
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	14.87	14.79	14.86	15.9	0	
1.4	QPSK	1	3	14.93	14.87	14.82			
1.4	QPSK	1	5	14.78	14.83	14.76	15.9	0	
1.4	QPSK	3	0	14.89	14.91	14.87			
1.4	QPSK	3	1	14.89	14.86	14.86	15.9	0	
1.4	QPSK	3	3	14.81	14.83	14.79			
1.4	QPSK	6	0	14.78	14.90	14.82	15.9	0	
1.4	16QAM	1	0	15.01	15.12	15.28			
1.4	16QAM	1	3	15.01					



Band 5 (Cellular Band) Part 221(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				20450	20525	20600		
Frequency (MHz)								
10	QPSK	1	0	22.51	22.54	22.59	23.7	0
10	QPSK	1	25	22.80	22.83	22.86		
10	QPSK	1	49	22.83	22.87	22.84		
10	QPSK	25	0	21.50	21.52	21.34	23	0.7
10	QPSK	25	12	21.50	21.66	21.61		
10	QPSK	25	25	21.47	21.40	21.25		
10	QPSK	50	0	21.43	21.34	21.25	23	0.7
10	16QAM	1	0	21.76	21.62	21.69		
10	16QAM	1	25	21.77	21.65	21.65		
10	16QAM	1	49	21.80	21.63	21.51	22	1.7
10	16QAM	25	0	20.76	20.64	20.55		
10	16QAM	25	12	20.74	20.65	20.48		
10	16QAM	25	25	20.66	20.54	20.50		
10	16QAM	50	0	20.67	20.49	20.39	22	1.7
10	64QAM	1	0	20.78	20.43	20.45		
10	64QAM	1	25	20.73	20.61	20.55		
10	64QAM	1	49	20.38	20.61	20.57	21	2.7
10	64QAM	25	0	19.70	19.41	19.39		
10	64QAM	25	12	19.56	19.59	19.57		
10	64QAM	25	25	19.70	19.49	19.79	21	2.7
10	64QAM	50	0	19.50	19.38	19.39		
Channel				20425	20525	20625		
Frequency (MHz)								
5	QPSK	1	0	22.60	22.48	22.47	23.7	0
5	QPSK	1	12	22.43	22.46	22.35		
5	QPSK	1	24	22.47	22.43	22.25		
5	QPSK	12	0	21.58	21.29	21.15	23	0.7
5	QPSK	12	7	21.58	21.42	21.24		
5	QPSK	12	13	21.53	21.32	21.10		
5	QPSK	25	0	21.62	21.34	21.21	23	0.7
5	16QAM	1	0	21.39	21.43	21.48		
5	16QAM	1	12	21.63	21.68	21.45		
5	16QAM	1	24	21.73	21.58	21.23	22	1.7
5	16QAM	12	0	20.75	20.60	20.40		
5	16QAM	12	7	20.76	20.62	20.45		
5	16QAM	12	13	20.70	20.51	20.40		
5	16QAM	25	0	20.76	20.47	20.41	22	1.7
5	64QAM	1	0	20.78	20.36	20.45		
5	64QAM	1	12	20.70	20.52	20.50		
5	64QAM	1	24	20.33	20.67	20.57	21	2.7
5	64QAM	12	0	19.61	19.48	19.45		
5	64QAM	12	7	19.63	19.65	19.48		
5	64QAM	12	13	19.64	19.49	19.66	21	2.7
5	64QAM	25	0	19.50	19.45	19.45		
Channel				20415	20525	20635		
Frequency (MHz)								
3	QPSK	1	0	22.33	22.48	22.43	23.7	0
3	QPSK	1	8	22.46	22.48	22.49		
3	QPSK	1	14	22.44	22.61	22.41		
3	QPSK	8	0	21.55	21.39	21.28	23	0.7
3	QPSK	8	4	21.65	21.50	21.30		
3	QPSK	8	7	21.55	21.42	21.29		
3	QPSK	15	0	21.83	21.46	21.32	23	0.7
3	16QAM	1	0	21.83	21.60	21.53		
3	16QAM	1	8	21.84	21.83	21.58		
3	16QAM	1	14	21.78	21.63	21.39	22	1.7
3	16QAM	8	0	20.82	20.62	20.55		
3	16QAM	8	4	20.91	20.74	20.62		
3	16QAM	8	7	20.79	20.73	20.55	22	1.7
3	16QAM	15	0	20.82	20.56	20.54		
3	64QAM	1	0	20.72	20.32	20.41		
3	64QAM	1	8	20.67	20.46	20.44	22	1.7
3	64QAM	1	14	20.31	20.65	20.54		
3	64QAM	8	0	19.55	19.45	19.41		
3	64QAM	8	4	19.60	19.59	19.46	21	2.7
3	64QAM	8	7	19.60	19.47	19.83		
3	64QAM	15	0	19.44	19.42	19.39		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
1.4	QPSK	1	0	22.40	22.42	22.48	23.7	0
1.4	QPSK	1	3	22.59	22.33	22.35		
1.4	QPSK	1	5	22.52	22.40	22.23		
1.4	QPSK	3	0	22.61	22.45	22.25	23	0.7
1.4	QPSK	3	1	22.36	22.54	22.32		
1.4	QPSK	3	3	22.31	22.46	22.32		
1.4	QPSK	6	0	21.56	21.44	21.33	23	0.7
1.4	16QAM	1	0	21.80	21.73	21.48		
1.4	16QAM	1	3	21.84	21.81	21.66		
1.4	16QAM	1	5	21.77	21.72	21.44	23	0.7
1.4	16QAM	3	0	21.50	21.54	21.24		
1.4	16QAM	3	1	21.62	21.47	21.33		
1.4	16QAM	3	3	21.55	21.39	21.19	22	1.7
1.4	16QAM	6	0	20.89	20.79	20.57		
1.4	64QAM	1	0	20.76	20.38	20.47		
1.4	64QAM	1	3	20.74	20.50	20.48	22	1.7
1.4	64QAM	1	5	20.39	20.73	20.61		
1.4	64QAM	3	0	20.27	20.61	20.71		
1.4	64QAM	3	1	20.36	20.31	20.55	21	2.7
1.4	64QAM	3	3	20.34	20.23	20.58		
1.4	64QAM	6	0	19.48	19.49	19.43		

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				20850	21100	21350		
Frequency (MHz)								
20	QPSK	1	0	13.66	13.75	13.62	14.2	0
20	QPSK	1	49	13.67	13.75	13.56		
20	QPSK	1	99	13.55	13.73	13.63		
20	QPSK	50	0	13.72	13.94	13.58	14.2	0
20	QPSK	50	24	13.94	13.78	13.90		
20	QPSK	50	50	13.87	13.90	13.94		
20	QPSK	100	0	13.67	13.78	13.74	14.2	0
20	16QAM	1	0	13.89	13.62	13.69		
20	16QAM	1	49	13.75	13.86	13.82		
20	16QAM	1	99	13.58	13.62	13.73	14.2	0
20	16QAM	50	0	13.61	13.74	13.73		
20	16QAM	50	24	13.86	13.81	13.57		
20	16QAM	50	50	13.87	13.88	13.91	14.2	0
20	16QAM	100	0	13.80	13.80	13.88		
20	64QAM	1	0	13.56	13.61	13.56		
20	64QAM	1	49	13.66	13.63	13.47	14.2	0
20	64QAM	1	99	13.64	13.91	13.89		
20	64QAM	50	0	13.48	13.53	13.82		
20	64QAM	50	24	13.63	13.65	13.66	14.2	0
20	64QAM	50	50	13.74	13.72	13.61		
20	64QAM	100	0	13.85	13.62	13.81		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
15	QPSK	1	0	13.66	13.80	13.625	14.2	0
15	QPSK	1	37	13.67	13.75	13.63		
15	QPSK	1	74	13.55	13.73	13.63		
15	QPSK	36	0	13.72	13.74	13.58	14.2	0
15	QPSK	36	20	13.94	13.78	13.90		
15	QPSK	36	39	13.87	13.90	13.94		
15	QPSK	75	0	13.66	13.75	13.62	14.2	0
15	16QAM	1	0	13.75	13.78	13.61		
15	16QAM	1	37	13.86	13.94	13.85		
15	16QAM	1	74	13.78	13.95	13.89	14.2	0
15	16QAM	36	0	13.64	13.69	13.66		
15	16QAM	36	20	13.74	13.68	13.54		
15	16QAM	36	39	13.62	13.65	13.55	14.2	0
15	16QAM	75	0	13.69	13.64	13.58		
15	64QAM	1	0	13.79	13.84	13.77		
15	64QAM	1	37	13.86	13.88	13.72	14.2	0
15	64QAM	1	74	13.38	13.66	13.65		
15	64QAM	36	0	13.80	13.82	13.58		
15	64QAM	36	20	13.78	13.83	13.79	14.2	0
15	64QAM	36	39	13.86	13.83	13.71		
15	64QAM	75	0	13.65	13.69	13.63		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
10	QPSK	1	0	13.66	13.84	13.62	14.2	0
10	QPSK	1	25	13.67	13.75	13.56		
10	QPSK	1	49	13.55	13.73	13.63		
10	QPSK	25	0	13.72	13.74	13.56	14.2	0
10	QPSK	25	12	13.94	13.78	13.90		
10	QPSK	25	25	13.87	13.90	13.94		
10	QPSK	50	0	13.66	13.75	13.62	14.2	0
10	16QAM	1	0	13.75	13.78	13.61		
10	16QAM	1	25	13.88	13.94	13.85		
10	16QAM	1	49	13.76	13.95	13.89	14.2	0
10	16QAM	25	0	13.64	13.69	13.66		
10	16QAM	25	12	13.74	13.68	13.54		
10	16QAM	25	25	13.62	13.65	13.55	14.2	0
10	16QAM	50	0	13.69	13.64	13.58		
10	64QAM	1	0	13.79	13.84	13.77		
10	64QAM	1	25	13.86	13.88	13.72	14.2	0
10	64QAM	1	49	13.38	13.66	13.65		
10	64QAM	25	0	13.84	13.82	13.58		
10	64QAM	25	12	13.79	13.83	13.79	14.2	0
10	64QAM	25	25	13.86	13.83	13.71		
10	64QAM	50	0	13.65	13.69	13.63		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
5	QPSK	1	0	13.66	13.82	13.62	14.2	0
5	QPSK	1	12	13.67	13.75	13.56		
5	QPSK	1	24	13.55	13.73	13.63		
5	QPSK	12	0	13.72	13.74	13.56	14.2	0
5	QPSK	12	7	13.94	13.78	13.90		
5	QPSK	12	13	13.87	13.90	13.94		
5	QPSK	25	0	13.66	13.75	13.62	14.2	0
5	16QAM	1	0	13.75	13.78	13.61		
5	16QAM	1	12	13.86	13.94	13.85		
5	16QAM	1	24	13.83	13.95	13.89	14.2	0
5	16QAM	12	0	13.64	13.69	13.66		
5	16QAM	12	7	13.74	13.68	13.54		
5	16QAM	12	13	13.71	13.83	13.73	14.2	0
5	16QAM	25	0	13.89	13.79	13.63		
5								



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	132222	132572			
Frequency (MHz)				1725	1745	1770			
20	QPSK	1	0	15.22	15.43	15.32	16.1	0	
20	QPSK	1	49	15.00	15.07	15.06			
20	QPSK	1	99	15.22	15.23	15.14			
20	QPSK	50	0	15.09	15.33	15.32			
20	QPSK	50	24	15.20	15.15	15.15			
20	QPSK	50	50	15.05	15.06	15.09			
20	QPSK	100	0	15.11	15.12	15.08			
20	16QAM	1	0	15.20	15.26	15.16	16.1	0	
20	16QAM	1	49	15.38	15.42	15.39			
20	16QAM	1	99	15.06	15.05	15.26			
20	16QAM	50	0	15.08	14.91	15.14			
20	16QAM	50	24	15.18	14.98	15.15			
20	16QAM	50	50	15.04	15.10	15.09			
20	16QAM	100	0	15.09	15.05	15.07			
20	64QAM	1	0	15.01	14.96	15.36	16.1	0	
20	64QAM	1	49	15.20	15.30	15.31			
20	64QAM	1	99	15.08	14.98	15.10			
20	64QAM	50	0	15.09	15.15	15.09			
20	64QAM	50	24	15.18	15.14	15.03			
20	64QAM	50	50	15.03	15.09	15.32			
20	64QAM	100	0	15.10	15.06	15.07			
Channel				132047	132222	132597			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	15.00	15.02	15.15	16.1	0	
15	QPSK	1	37	15.01	15.00	15.04			
15	QPSK	1	74	14.83	14.91	15.09			
15	QPSK	36	0	15.11	15.10	15.14			
15	QPSK	36	20	15.16	15.15	15.14			
15	QPSK	36	39	15.10	15.12	15.13			
15	QPSK	75	0	15.14	15.08	15.10			
15	16QAM	1	0	15.27	15.29	15.16	16.1	0	
15	16QAM	1	37	15.33	15.34	15.36			
15	16QAM	1	74	15.13	15.19	15.25			
15	16QAM	36	0	15.12	15.14	15.15			
15	16QAM	36	20	15.16	15.11	15.10			
15	16QAM	36	39	15.08	15.11	15.08			
15	16QAM	75	0	15.13	15.13	15.09			
15	64QAM	1	0	15.17	15.17	15.32	16.1	0	
15	64QAM	1	37	15.32	15.30	15.24			
15	64QAM	1	74	15.02	15.20	15.05			
15	64QAM	36	0	15.09	15.20	15.13			
15	64QAM	36	20	15.16	15.08	15.05			
15	64QAM	36	39	15.11	15.10	15.11			
15	64QAM	75	0	15.17	15.10	15.13			
Channel				132222	132222	132622			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	0	14.85	14.65	14.90	16.1	0	
10	QPSK	1	25	15.00	14.97	14.97			
10	QPSK	1	49	14.69	14.67	14.82			
10	QPSK	25	0	15.07	15.06	15.14			
10	QPSK	25	12	14.93	15.13	15.09			
10	QPSK	25	25	15.04	14.99	15.12			
10	QPSK	50	0	15.10	15.09	15.03			
10	16QAM	1	0	15.14	15.36	15.39	16.1	0	
10	16QAM	1	25	15.27	15.25	15.36			
10	16QAM	1	49	14.85	15.04	15.36			
10	16QAM	25	0	15.09	15.09	15.21			
10	16QAM	25	12	15.16	15.04	15.16			
10	16QAM	25	25	15.10	15.14	15.06			
10	16QAM	50	0	15.16	15.10	15.18			
10	64QAM	1	0	15.09	15.02	15.33	16.1	0	
10	64QAM	1	25	15.37	15.18	15.38			
10	64QAM	1	49	15.10	15.15	15.26			
10	64QAM	25	0	15.12	15.20	15.08			
10	64QAM	25	12	15.08	15.21	15.12			
10	64QAM	25	25	15.03	14.96	15.01			
10	64QAM	50	0	15.05	15.02	15.13			
Channel				131997	132222	132647			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	0	14.95	15.10	15.13	16.1	0	
5	QPSK	1	12	15.06	15.17	15.16			
5	QPSK	1	24	15.00	15.05	15.00			
5	QPSK	12	0	15.23	15.21	15.27			
5	QPSK	12	7	15.21	15.22	15.11			
5	QPSK	12	13	15.05	15.14	15.04			
5	QPSK	25	0	15.08	15.12	15.16			
5	16QAM	1	0	15.21	15.22	15.23	16.1	0	
5	16QAM	1	12	15.23	15.22	15.22			
5	16QAM	1	24	15.21	15.21	15.22			
5	16QAM	12	0	15.12	15.21	15.17			
5	16QAM	12	7	15.16	15.20	15.22			
5	16QAM	12	13	15.04	15.12	15.13			
5	16QAM	25	0	15.14	15.27	15.18			
5	64QAM	1	0	15.25	15.21	15.21	16.1	0	
5	64QAM	1	12	15.23	15.23	15.21			
5	64QAM	1	24	15.23	15.21	15.23			
5	64QAM	12	0	15.11	15.05	15.13			
5	64QAM	12	7	15.00	15.10	15.08			
5	64QAM	12	13	14.95	14.98	15.01			
5	64QAM	25	0	15.14	15.14	15.16			
Channel				131987	132222	132697			
Frequency (MHz)				1711.5	1745	1775.5			
3	QPSK	1	0	15.16	15.11	15.14	16.1	0	
3	QPSK	1	8	15.03	15.09	15.08			
3	QPSK	1	14	15.06	15.13	14.96			
3	QPSK	8	0	15.18	15.07	15.09			
3	QPSK	8	4	15.23	15.13	15.09			
3	QPSK	8	7	15.05	15.08	15.08			
3	QPSK	15	0	15.17	15.08	15.14			
3	16QAM	1	0	15.21	15.22	15.12	16.1	0	
3	16QAM	1	8	15.16	15.23	15.11			
3	16QAM	1	14	15.23	15.25	15.20			
3	16QAM	8	0	15.26	15.10	15.22			
3	16QAM	8	4	15.21	15.22	15.22			
3	16QAM	8	7	15.16	15.10	15.13			
3	16QAM	15	0	15.13	15.13	15.21			
3	64QAM	1	0	15.12	15.23	15.12	16.1	0	
3	64QAM	1	8	15.16	15.22	15.22			
3	64QAM	1	14	15.20	15.21	15.13			
3	64QAM	8	0	15.22	15.14	15.13			
3	64QAM	8	4	15.13	15.13	15.11			
3	64QAM	8	7	15.12	15.16	15.02			
3	64QAM	15	0	15.05	15.32	15.07			
Channel				131979	132222	132695			
Frequency (MHz)				1710.7	1745	1773.3			
1.4	QPSK	1	0	15.04	15.19	14.93	16.1	0	
1.4	QPSK	1	3	14.95	15.05	14.94			
1.4	QPSK	1	5	14.89	15.01	14.94			
1.4	QPSK	3	0	15.00	15.02	15.01			
1.4	QPSK	3	1	14.97	15.10	14.96			
1.4	QPSK	3	3	15.03	15.02	14.96			
1.4	QPSK	6	0	15.05	15.09	15.06			
1.4	16QAM	1	0	15.21	15.22	15.21	16.1	0	
1.4	16QAM	1	3	15.23	15.23	15.21			
1.4	16QAM	1	5	15.23	15.23	15.21			
1.4	16QAM	3	0	15.00	15.04	15.19			
1.4	16QAM	3	1	15.04	15.31	15.08			
1.4	16QAM	3	3	14.87	15.16	14.90			
1.4	16QAM	6	0	15.10	15.14	15.32			
1.4	64QAM	1	0	15.26	15.37	15.41	16.1	0	
1.4	64QAM	1	3	15.22	15.32	15.19			
1.4	64QAM	1	5	15.21	15.13	15.21			
1.4	64QAM	3	0	15.29	15.30	15.16			
1.4	64QAM	3	1	15.22	15.37	15.26			
1.4	64QAM	3	3	15.21	15.21	15.41			
1.4	64QAM	6	0	15.21	15.09	15.26			



LAT-Reduced Power - DSI 6 for Handheld

Band		WCDMA #			Tune-up Limit (dBm)
TX Channel		9262	9400	9538	
Rx Channel		9662	9800	9938	
Frequency (MHz)		1852.4	1880	1907.6	
3GPP Rel 99	AMR 12.2kops	18.16	18.22	18.10	20.20
3GPP Rel 99	AMR 12.2kops	18.18	18.23	18.12	20.20
3GPP Rel 6	HSDPA Subtest-1	18.21	18.31	18.18	19.20
3GPP Rel 6	HSDPA Subtest-2	18.09	18.13	18.06	19.20
3GPP Rel 6	HSDPA Subtest-3	17.58	17.52	17.56	18.70
3GPP Rel 6	HSDPA Subtest-4	17.34	17.57	17.59	18.70
3GPP Rel 8	DC-HSDPA Subtest-1	18.20	18.30	18.15	19.20
3GPP Rel 8	DC-HSDPA Subtest-2	18.11	18.11	18.02	19.20
3GPP Rel 8	DC-HSDPA Subtest-3	17.59	17.55	17.51	18.70
3GPP Rel 8	DC-HSDPA Subtest-4	17.31	17.53	17.55	18.70
3GPP Rel 6	HSUPA Subtest-1	18.36	18.30	18.11	19.20
3GPP Rel 6	HSUPA Subtest-2	16.74	16.73	16.58	17.20
3GPP Rel 6	HSUPA Subtest-3	17.65	17.56	17.71	18.20
3GPP Rel 6	HSUPA Subtest-4	16.75	16.57	16.56	17.20
3GPP Rel 6	HSUPA Subtest-5	16.12	18.36	18.15	19.20



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	19.34	19.40	19.32	20.3	0	
20	QPSK	1	49	19.23	19.02	19.12			
20	QPSK	1	99	19.30	18.93	19.11	20.3	0	
20	QPSK	50	0	19.02	19.22	19.03			
20	QPSK	50	24	19.02	19.09	19.20	20.3	0	
20	QPSK	50	50	19.01	19.14	19.15			
20	QPSK	100	0	19.02	19.10	19.09	20.3	0	
20	16QAM	1	0	19.36	19.12	19.32			
20	16QAM	1	49	19.32	19.35	19.29	20.3	0	
20	16QAM	1	99	19.24	19.31	19.28			
20	16QAM	50	0	18.95	19.03	19.04	20.3	0	
20	16QAM	50	24	19.08	19.20	19.18			
20	16QAM	50	50	19.04	19.08	19.18	20.3	0	
20	16QAM	100	0	19.05	19.01	19.04			
20	64QAM	1	0	19.32	19.32	19.21	20.3	0	
20	64QAM	1	49	19.12	19.11	19.15			
20	64QAM	1	99	19.30	19.21	19.02	20.3	0	
20	64QAM	50	0	19.21	19.01	19.02			
20	64QAM	50	24	19.12	19.10	19.19	20.3	0	
20	64QAM	50	50	19.01	19.11	19.14			
20	64QAM	100	0	19.05	19.25	19.06	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	0	18.91	19.05	19.09	20.3	0	
15	QPSK	1	37	18.95	18.87	19.05			
15	QPSK	1	74	18.86	18.99	19.05	20.3	0	
15	QPSK	36	0	19.00	19.06	19.06			
15	QPSK	36	20	19.13	19.11	19.19	20.3	0	
15	QPSK	36	39	19.09	19.17	19.16			
15	QPSK	75	0	19.08	19.06	19.09	20.3	0	
15	16QAM	1	0	19.22	19.11	19.36			
15	16QAM	1	37	19.26	19.35	19.34	20.3	0	
15	16QAM	1	74	19.20	19.31	19.24			
15	16QAM	36	0	19.07	19.04	19.05	20.3	0	
15	16QAM	36	20	19.11	19.11	19.20			
15	16QAM	36	39	19.06	19.17	19.16	20.3	0	
15	16QAM	75	0	19.10	19.10	19.31			
15	64QAM	1	0	18.99	19.36	19.34	20.3	0	
15	64QAM	1	37	19.04	19.33	19.31			
15	64QAM	1	74	18.90	19.25	19.23	20.3	0	
15	64QAM	36	0	18.98	19.32	19.21			
15	64QAM	36	20	19.07	19.10	19.25	20.3	0	
15	64QAM	36	39	19.21	19.15	19.21			
15	64QAM	75	0	19.25	19.02	19.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	19.10	19.06	19.01	20.3	0	
10	QPSK	1	25	19.06	18.64	18.79			
10	QPSK	1	49	19.12	19.09	19.05	20.3	0	
10	QPSK	25	0	19.27	19.24	19.14			
10	QPSK	25	12	19.05	19.10	19.10	20.3	0	
10	QPSK	25	25	19.19	19.06	19.10			
10	QPSK	50	0	19.07	19.23	19.18	20.3	0	
10	16QAM	1	0	19.25	19.12	19.13			
10	16QAM	1	25	19.14	18.98	19.03	20.3	0	
10	16QAM	1	49	19.11	19.10	19.12			
10	16QAM	25	0	19.21	19.08	19.07	20.3	0	
10	16QAM	25	12	18.90	18.99	19.02			
10	16QAM	25	25	19.05	18.96	19.09	20.3	0	
10	16QAM	50	0	19.03	19.02	19.19			
10	64QAM	1	0	19.22	19.15	19.23	20.3	0	
10	64QAM	1	25	19.06	19.04	19.13			
10	64QAM	1	49	19.10	19.07	19.06	20.3	0	
10	64QAM	25	0	19.19	19.14	19.13			
10	64QAM	25	12	18.98	19.09	19.05	20.3	0	
10	64QAM	25	25	19.11	19.07	19.04			
10	64QAM	50	0	18.60	18.70	18.89	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
5	QPSK	1	0	19.08	19.21	19.23	20.3	0	
5	QPSK	1	12	19.23	19.19	19.16			
5	QPSK	1	24	18.83	18.92	19.24	20.3	0	
5	QPSK	12	0	19.19	19.27	19.16			
5	QPSK	12	7	19.11	19.17	19.28	20.3	0	
5	QPSK	12	13	19.15	19.11	19.29			
5	QPSK	25	0	19.08	19.17	19.26	20.3	0	
5	16QAM	1	0	18.99	19.29	19.22			
5	16QAM	1	12	19.19	19.23	19.25	20.3	0	
5	16QAM	1	24	19.13	19.18	19.18			
5	16QAM	12	0	19.18	19.30	19.30	20.3	0	
5	16QAM	12	7	19.19	19.25	19.25			
5	16QAM	12	13	19.22	19.13	19.13	20.3	0	
5	16QAM	25	0	19.13	19.21	19.19			
5	64QAM	1	0	19.15	19.19	19.21	20.3	0	
5	64QAM	1	12	19.11	18.92	19.19			
5	64QAM	1	24	19.35	19.27	18.92	20.3	0	
5	64QAM	12	0	19.23	19.17	19.27			
5	64QAM	12	7	19.14	19.11	19.17	20.3	0	
5	64QAM	12	13	19.12	19.17	19.11			
5	64QAM	25	0	19.25	19.17	19.17	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
3	QPSK	1	0	19.03	19.14	19.19	20.3	0	
3	QPSK	1	8	18.95	19.08	19.00			
3	QPSK	1	14	19.18	19.21	19.33	20.3	0	
3	QPSK	8	0	19.13	19.33	19.20			
3	QPSK	8	4	19.05	19.22	19.13	20.3	0	
3	QPSK	8	7	19.17	19.22	19.02			
3	QPSK	15	0	19.21	19.36	19.23	20.3	0	
3	16QAM	1	0	19.23	19.21	19.22			
3	16QAM	1	8	19.32	19.34	19.25	20.3	0	
3	16QAM	1	14	19.33	19.25	19.07			
3	16QAM	8	0	19.36	19.34	19.07	20.3	0	
3	16QAM	8	4	19.21	19.35	18.93			
3	16QAM	8	7	19.24	19.31	19.97	20.3	0	
3	16QAM	15	0	19.03	19.14	19.97			
3	64QAM	1	0	19.23	19.26	19.30	20.3	0	
3	64QAM	1	8	19.08	19.15	18.83			
3	64QAM	1	14	19.20	19.23	19.21	20.3	0	
3	64QAM	8	0	19.12	19.22	19.34			
3	64QAM	8	4	19.06	19.14	19.24	20.3	0	
3	64QAM	8	7	19.10	19.20	19.23			
3	64QAM	15	0	19.12	19.97	19.14	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	19.10	19.12	19.20	20.3	0	
1.4	QPSK	1	3	18.95	19.12	19.14			
1.4	QPSK	1	5	18.86	19.01	18.93	20.3	0	
1.4	QPSK	3	0	19.08	19.17	19.20			
1.4	QPSK	3	1	19.10	19.16	19.20	20.3	0	
1.4	QPSK	3	3	19.02	19.09	19.11			
1.4	QPSK	6	0	19.03	19.15	19.10	20.3	0	
1.4	16QAM	1	0	19.33	19.29	19.22			
1.4	16QAM	1	3	19.16	19.21	19.22	20.3	0	
1.4	16QAM	1	5	19.05	19.22	19.20			
1.4	16QAM	3	0	19.27	19.26	19.12	20.3	0	
1.4	16QAM	3	1	19.21	19.32	19.21			
1.4	16QAM	3	3	19.16	19.18	19.21	20.3	0	
1.4	16QAM	6	0	19.23	19.33	19.34			
1.4	64QAM	1	0	19.01	19.18	18.84	20.3	0	
1.4	64QAM	1	3	18.95	19.32	19.33			
1.4	64QAM	1	5	19.08	19.13	19.91	20.3	0	
1.4	64QAM	3	0	19.04	19.06	19.04			
1.4	64QAM	3	1	18.98	19.14	19.17	20.3	0	
1.4	64QAM	3	3	19.02	19.05	19.06			
1.4	64QAM	6	0	19.01	19.10	19.08	Tune-up limit (dBm)	MPR (dB)	

Band 4 (AWS Band) Part 27L (only on channel required)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	19.24	19.30	19.21	20.5	0	
20	QPSK	1	49	19.06	19.09	19.06			
20	QPSK	1	99	19.12	19.11	19.24	20.5	0	
20	QPSK	50	0	19.09	19.22	19.08			
20	QPSK	50	24	19.21	19.14	19.12	20.5	0	
20	QPSK	50	50	19.11	19.10	19.09			
20	QPSK	100	0	19.12					



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				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	18.12	18.19	18.11	19.5	0	
20	QPSK	1	49	17.83	17.94	17.78			
20	QPSK	1	99	17.75	17.89	17.82			
20	QPSK	50	0	17.99	18.02	18.00			
20	QPSK	50	24	17.89	17.98	17.90	19.5	0	
20	QPSK	50	50	17.91	17.98	17.78			
20	QPSK	100	0	17.88	17.92	17.77			
20	16QAM	1	0	18.11	17.98	18.38	19.5	0	
20	16QAM	1	49	17.99	17.96	17.88			
20	16QAM	1	99	17.98	17.98	17.98			
20	16QAM	50	0	17.82	17.86	17.83			
20	16QAM	50	24	17.90	17.96	17.87	19.5	0	
20	16QAM	50	50	17.95	17.96	17.79			
20	16QAM	100	0	17.83	17.86	17.75			
20	64QAM	1	0	17.94	17.99	18.10	19.5	0	
20	64QAM	1	49	18.02	17.99	18.04			
20	64QAM	1	99	17.96	18.14	17.83			
20	64QAM	50	0	17.79	17.84	17.82			
20	64QAM	50	24	17.93	17.92	17.85	19.5	0	
20	64QAM	50	50	17.96	17.96	17.77			
20	64QAM	100	0	17.82	17.82	17.71			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	17.72	17.87	17.66	19.5	0	
15	QPSK	1	37	17.78	17.94	17.78			
15	QPSK	1	74	17.82	17.94	17.78			
15	QPSK	38	0	17.88	17.94	17.85			
15	QPSK	38	20	17.89	18.01	17.87	19.5	0	
15	QPSK	38	39	17.89	17.97	17.84			
15	QPSK	75	0	17.88	17.92	17.79			
15	16QAM	1	0	17.99	17.88	18.12	19.5	0	
15	16QAM	1	37	18.10	18.10	18.03			
15	16QAM	1	74	18.12	17.89	18.12			
15	16QAM	38	0	17.95	17.87	17.84	19.5	0	
15	16QAM	38	20	17.85	17.83	17.88			
15	16QAM	38	39	17.98	18.01	17.84			
15	16QAM	75	0	17.83	17.83	17.83			
15	64QAM	1	0	17.94	18.06	18.00	19.5	0	
15	64QAM	1	37	18.16	18.10	17.96			
15	64QAM	1	74	17.89	17.81	17.95			
15	64QAM	38	0	17.94	17.97	17.85	19.5	0	
15	64QAM	38	20	17.86	17.83	17.91			
15	64QAM	38	39	17.91	17.89	17.83			
15	64QAM	75	0	17.91	17.88	17.79			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	17.78	17.85	17.67	19.5	0	
10	QPSK	1	25	17.75	18.02	17.85			
10	QPSK	1	49	17.80	17.89	17.81			
10	QPSK	25	0	17.92	17.92	17.85	19.5	0	
10	QPSK	25	12	17.89	17.91	17.80			
10	QPSK	25	25	17.81	17.83	17.78			
10	QPSK	50	0	17.88	17.91	17.89	19.5	0	
10	16QAM	1	0	17.88	18.12	18.14			
10	16QAM	1	25	18.10	17.89	18.16	19.5	0	
10	16QAM	1	49	17.78	17.83	17.99			
10	16QAM	25	0	17.82	17.83	17.81	19.5	0	
10	16QAM	25	12	17.82	17.82	17.75			
10	16QAM	25	25	17.80	17.68	17.71			
10	16QAM	50	0	17.89	17.96	18.13	19.5	0	
10	64QAM	1	0	18.16	17.98	18.17			
10	64QAM	1	25	17.98	17.98	18.12	19.5	0	
10	64QAM	1	49	17.81	17.91	17.74			
10	64QAM	25	0	17.76	17.87	17.83	19.5	0	
10	64QAM	25	12	17.85	17.86	17.75			
10	64QAM	25	25	17.80	17.81	17.73			
10	64QAM	50	0	17.79	17.82	17.82			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	17.89	17.96	17.79	19.5	0	
5	QPSK	1	12	17.77	17.88	17.75			
5	QPSK	1	24	17.85	17.84	17.78			
5	QPSK	12	0	17.85	17.92	17.83	19.5	0	
5	QPSK	12	7	17.78	17.91	17.80			
5	QPSK	12	13	17.87	17.84	17.71			
5	QPSK	25	0	17.88	17.89	17.99	19.5	0	
5	16QAM	1	0	18.10	18.12	18.00			
5	16QAM	1	12	18.15	18.11	18.14	19.5	0	
5	16QAM	1	24	17.76	17.87	17.73			
5	16QAM	12	0	17.87	17.93	17.81	19.5	0	
5	16QAM	12	7	17.79	17.84	17.77			
5	16QAM	12	13	17.80	17.81	17.69			
5	16QAM	25	0	18.00	18.06	17.97	19.5	0	
5	64QAM	1	0	18.10	18.17	18.06	19.5	0	
5	64QAM	1	12	18.01	18.07	18.10			
5	64QAM	1	24	17.83	17.86	17.77			
5	64QAM	12	0	17.88	17.92	17.83	19.5	0	
5	64QAM	12	7	17.84	17.85	17.81			
5	64QAM	12	13	17.83	17.83	17.70	19.5	0	
5	64QAM	25	0	17.80	17.72	17.56			

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	132322	132572			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	19.51	19.54	19.34	20.5	0	
20	QPSK	1	49	19.34	19.13	19.21			
20	QPSK	1	99	19.22	19.21	19.33			
20	QPSK	50	0	19.19	19.30	19.23	20.5	0	
20	QPSK	50	24	19.29	19.24	19.24			
20	QPSK	50	50	19.14	19.18	19.19			
20	QPSK	100	0	19.21	19.22	19.15			
20	16QAM	1	0	19.26	19.37	19.34	20.5	0	
20	16QAM	1	49	19.47	19.23	19.52			
20	16QAM	1	99	19.12	19.40	19.33			
20	16QAM	50	0	19.23	19.21	19.26	20.5	0	
20	16QAM	50	24	19.31	19.10	19.27			
20	16QAM	50	50	19.29	19.21	19.20			
20	16QAM	100	0	19.23	19.18	19.19			
20	64QAM	1	0	19.26	19.44	19.21	20.5	0	
20	64QAM	1	49	19.20	19.26	19.49			
20	64QAM	1	99	19.18	19.20	19.24			
20	64QAM	50	0	19.19	19.22	19.23	20.5	0	
20	64QAM	50	24	19.29	19.24	19.24			
20	64QAM	50	50	19.15	19.18	19.16			
20	64QAM	100	0	19.23	19.13	19.19			
Channel				132047	132322	132597			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	19.16	19.14	19.28	20.5	0	
15	QPSK	1	37	19.07	19.12	19.16			
15	QPSK	1	74	18.92	18.99	19.10			
15	QPSK	38	0	19.23	19.27	19.28	20.5	0	
15	QPSK	38	20	19.30	19.25	19.27			
15	QPSK	38	39	19.18	19.25	19.22			
15	QPSK	75	0	19.23	19.20	19.21	20.5	0	
15	16QAM	1	0	19.39	19.52	19.22			
15	16QAM	1	37	19.46	19.23	19.53	20.5	0	
15	16QAM	1	74	19.24	19.37	19.35			
15	16QAM	38	0	19.24	19.30	19.28	20.5	0	
15	16QAM	38	20	19.28	19.28	19.24			
15	16QAM	38	39	19.20	19.26	19.21			
15	16QAM	75	0	19.26	19.26	19.24	20.5	0	
15	64QAM	1	0	19.50	19.48	19.42			
15	64QAM	1	37	19.46	19.38	19.42	20.5	0	
15	64QAM	1	74	19.21	19.25	19.22			
15	64QAM	38	0	19.25	19.29	19.23	20.5	0	
15	64QAM	38	20	19.05	19.28	19.18			
15	64QAM								



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n2 (only SCS15KHz has 5M BW)									
BW [MHz]	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	23.11	23.10	23.03	24.0	0.0	
20	PI/2 BPSK	1	53	23.11	23.07	23.05			
20	PI/2 BPSK	1	104	23.04	23.08	23.01			
20	PI/2 BPSK	50	0	23.01	22.93	22.95	24.0	0.0	
20	PI/2 BPSK	50	28	23.07	23.02	23.02			
20	PI/2 BPSK	50	56	23.03	22.91	22.91			
20	PI/2 BPSK	100	0	22.46	22.44	22.51	23.5	0.5	
20	QPSK	1	1	23.11	23.25	23.06	24.0	0.0	
20	QPSK	1	53	23.15	23.22	23.08			
20	QPSK	1	104	23.00	23.15	23.02			
20	QPSK	50	0	22.49	22.57	22.53	23.5	0.5	
20	QPSK	50	28	23.08	23.16	23.01	24.0	0.0	
20	QPSK	50	56	22.55	22.53	22.59	23.5	0.5	
20	QPSK	100	0	22.13	22.26	22.17	23.0	1.0	
20	16QAM	1	1	22.10	22.32	22.13	23.0	1.0	
20	64QAM	1	1	20.88	20.95	20.84	21.5	2.5	
20	256QAM	1	1	18.42	18.65	18.39	19.5	4.5	
Channel				371500	376000	380500			
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	23.21	23.28	23.19	24.0	0.0	
Channel				371000	376000	381000			
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	23.20	23.27	23.29	24.0	0.0	
Channel				370500	376000	381500			
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	23.08	23.04	23.05	24.0	0.0	

n5 (only SCS15KHz has 5M BW)									
BW [MHz]	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	23.04	23.07	23.09	24.0	0.0	
20	PI/2 BPSK	1	53	23.04	23.03	23.03			
20	PI/2 BPSK	1	104	23.03	23.01	23.02			
20	PI/2 BPSK	50	0	22.93	22.97	22.97	24.0	0.0	
20	PI/2 BPSK	50	28	23.09	23.01	23.09			
20	PI/2 BPSK	50	56	22.94	22.94	22.92			
20	PI/2 BPSK	100	0	22.44	22.47	22.48	23.5	0.5	
20	QPSK	1	1	23.15	23.23	23.17	24.0	0.0	
20	QPSK	1	53	23.11	23.19	23.07			
20	QPSK	1	104	23.06	23.02	23.16			
20	QPSK	50	0	22.54	22.57	22.51	23.5	0.5	
20	QPSK	50	28	23.10	23.23	23.22	24.0	0.0	
20	QPSK	50	56	22.49	22.55	22.55	23.5	0.5	
20	QPSK	100	0	22.16	22.23	22.15	23.0	1.0	
20	16QAM	1	1	22.16	22.25	22.24	23.0	1.0	
20	64QAM	1	1	21.72	21.67	21.69	21.5	2.5	
20	256QAM	1	1	19.61	19.56	19.59	19.5	4.5	
Channel				166300	167300	168300			
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	23.25	23.24	23.18	24.0	0.0	
Channel				165800	167300	168800			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	23.26	23.22	23.14	24.0	0.0	
Channel				165300	167300	169300			
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	23.12	23.21	23.20	24.0	0.0	



n66 (only SCS15KHz has 5M BW)

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel	344000	349000	354000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	1720	1745	1770					
20	PI/2 BPSK	1	1	23.00	23.01	22.96	24.0	0.0
20	PI/2 BPSK	1	53	22.94	22.84	22.98		
20	PI/2 BPSK	1	104	22.91	22.86	22.95		
20	PI/2 BPSK	50	0	22.85	22.91	22.86	24.0	0.0
20	PI/2 BPSK	50	28	23.00	23.03	22.97		
20	PI/2 BPSK	50	56	22.89	22.87	22.87		
20	PI/2 BPSK	100	0	22.79	22.76	22.81	23.5	0.5
20	QPSK	1	1	23.03	23.06	23.04		
20	QPSK	1	53	22.86	22.91	22.61		
20	QPSK	1	104	22.85	22.93	22.75	24.0	0.0
20	QPSK	50	0	22.43	22.45	22.36		
20	QPSK	50	28	22.97	23.00	22.94		
20	QPSK	50	56	22.44	22.53	22.41	23.5	0.5
20	QPSK	100	0	22.04	22.09	21.95		
20	16QAM	1	1	22.33	22.30	21.72		
20	64QAM	1	1	20.56	20.50	20.16	21.5	2.5
20	256QAM	1	1	18.49	18.44	18.35		
Channel	343500	349000	354500	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	1717.5	1745	1772.5					
15	QPSK	1	1	22.85	22.99	22.90	24.0	0.0
Channel	343000	349000	355000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	1715	1745	1775					
10	QPSK	1	1	22.77	23.01	22.88	24.0	0.0
Channel	342500	349000	355500	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	1712.5	1745	1777.5					
5	QPSK	1	1	22.91	23.00	22.84	24.0	0.0



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n2 (only SCS15KHz has 5M BW)

BW [MHz]	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	23.35	23.50	23.33	24.0	0.0
20	PI/2 BPSK	1	53	23.69	23.79	23.52		
20	PI/2 BPSK	1	104	23.85	23.39	23.42		
20	PI/2 BPSK	50	0	23.24	23.36	23.31	24.0	0.0
20	PI/2 BPSK	50	28	23.29	23.40	23.25		
20	PI/2 BPSK	50	56	23.11	23.26	23.17		
20	PI/2 BPSK	100	0	23.18	23.30	23.23	23.5	0.5
20	QPSK	1	1	23.55	23.81	23.59	24.0	0.0
20	QPSK	1	53	23.88	23.80	23.93		
20	QPSK	1	104	23.39	23.40	23.45		
20	QPSK	50	0	23.06	22.61	23.01	23.5	0.5
20	QPSK	50	28	23.45	23.50	23.39	24.0	0.0
20	QPSK	50	56	22.50	22.60	22.53	23.5	0.5
20	QPSK	100	0	22.53	22.60	22.49	23.0	1.0
20	16QAM	1	1	22.23	22.45	22.42	23.0	1.0
20	64QAM	1	1	20.91	20.94	20.71	21.5	2.5
20	256QAM	1	1	19.09	19.13	18.96	19.5	4.5
Channel				371500	376000	380500		
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	23.38	23.43	23.59	24.0	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	23.47	23.56	23.53	24.0	0.0
Channel				370500	376000	381500		
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	23.41	23.43	23.47	24.0	0.0

n5 (only SCS15KHz has 5M BW)

BW [MHz]	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	23.03	23.16	23.12	24.0	0.0
20	PI/2 BPSK	1	53	23.11	23.06	23.16		
20	PI/2 BPSK	1	104	23.04	23.12	23.03		
20	PI/2 BPSK	50	0	23.09	23.01	23.06	24.0	0.0
20	PI/2 BPSK	50	28	23.22	23.29	23.23		
20	PI/2 BPSK	50	56	23.02	23.05	23.11		
20	PI/2 BPSK	100	0	22.26	22.36	22.30	23.5	0.5
20	QPSK	1	1	23.24	23.25	23.21	24.0	0.0
20	QPSK	1	53	23.11	23.16	23.20		
20	QPSK	1	104	23.11	23.23	23.20		
20	QPSK	50	0	22.68	22.61	22.66	23.5	0.5
20	QPSK	50	28	23.17	23.22	23.17	24.0	0.0
20	QPSK	50	56	22.63	22.75	22.57	23.5	0.5
20	QPSK	100	0	22.18	22.23	22.14	23.0	1.0
20	16QAM	1	1	22.22	22.18	22.20	23.0	1.0
20	64QAM	1	1	21.35	21.44	21.30	21.5	2.5
20	256QAM	1	1	19.35	19.47	19.56	19.5	4.5
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.16	23.28	23.21	24.0	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.20	23.24	23.13	24.0	0.0
Channel				165300	167300	169300		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.27	23.31	23.14	24.0	0.0



n66 (only SCS15KHz has 5M BW)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	PI/2 BPSK	1	1	23.03	23.10	22.95	24.0	0.0
20	PI/2 BPSK	1	53	22.76	22.90	22.78		
20	PI/2 BPSK	1	104	22.82	22.92	22.83		
20	PI/2 BPSK	50	0	22.85	22.84	22.88	24.0	0.0
20	PI/2 BPSK	50	28	22.87	23.03	22.96		
20	PI/2 BPSK	50	56	22.72	22.83	22.80		
20	PI/2 BPSK	100	0	22.70	22.83	22.76	23.5	0.5
20	QPSK	1	1	22.92	23.10	22.95	24.0	0.0
20	QPSK	1	53	22.79	22.95	22.88		
20	QPSK	1	104	22.88	22.99	22.95		
20	QPSK	50	0	22.64	22.80	22.70	23.5	0.5
20	QPSK	50	28	22.90	22.95	22.84	24.0	0.0
20	QPSK	50	56	22.60	22.52	22.66	23.5	0.5
20	QPSK	100	0	22.19	22.26	22.13	23.0	1.0
20	16QAM	1	1	21.94	22.00	21.97	23.0	1.0
20	64QAM	1	1	21.80	21.89	20.71	21.5	2.5
20	256QAM	1	1	18.84	18.79	18.88	19.5	4.5
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	23.43	23.58	23.23	24.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	23.35	23.61	23.39	24.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	23.41	23.60	23.28	24.0	0.0

LAT Reduced power - DS13 for Body worn / Hotspot

n2 (only SCS15KHz has 5M BW)								
BW [MHz]	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	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	16.93	17.20	17.18	17.8	0.0
20	PI/2 BPSK	1	53	16.93	17.34	17.36		
20	PI/2 BPSK	1	104	16.96	17.06	17.16		
20	PI/2 BPSK	50	0	16.89	17.16	17.20	17.8	0.0
20	PI/2 BPSK	50	28	16.87	17.18	17.29		
20	PI/2 BPSK	50	56	16.98	17.14	17.19		
20	PI/2 BPSK	100	0	16.88	17.12	17.39	17.8	0.0
20	QPSK	1	1	17.42	17.56	17.50	17.8	0.0
20	QPSK	1	53	16.96	17.21	17.28		
20	QPSK	1	104	16.93	17.08	17.09		
20	QPSK	50	0	16.89	17.19	17.19	17.8	0.0
20	QPSK	50	28	17.37	17.45	17.44		
20	QPSK	50	56	16.98	17.15	17.25		
20	QPSK	100	0	16.89	17.40	17.23	17.8	0.0
20	16QAM	1	1	16.96	17.08	17.16	17.8	0.0
20	64QAM	1	1	17.27	17.02	17.50	17.8	0.0
20	256QAM	1	1	16.63	17.03	16.68	17.8	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	17.03	17.12	17.18	17.8	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	17.12	17.25	17.25	17.8	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	17.05	17.35	17.32	17.8	0.0

n66 (only SCS15KHz has 5M BW)								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	PI/2 BPSK	1	1	17.96	18.18	18.35	19.0	0.0
20	PI/2 BPSK	1	53	18.19	18.28	18.37		
20	PI/2 BPSK	1	104	18.27	18.33	18.48		
20	PI/2 BPSK	50	0	18.04	18.19	18.31	19.0	0.0
20	PI/2 BPSK	50	28	18.17	18.28	18.35		
20	PI/2 BPSK	50	56	18.21	18.33	18.43		
20	PI/2 BPSK	100	0	18.12	18.29	18.30	19.0	0.0
20	QPSK	1	1	18.60	18.76	18.63	19.0	0.0
20	QPSK	1	53	18.64	18.54	18.32		
20	QPSK	1	104	18.62	18.41	18.46		
20	QPSK	50	0	18.07	18.23	18.35	19.0	0.0
20	QPSK	50	28	18.48	18.56	18.54		
20	QPSK	50	56	18.36	18.32	18.43		
20	QPSK	100	0	18.29	18.43	18.35	19.0	0.0
20	16QAM	1	1	17.94	18.23	18.56	19.0	0.0
20	64QAM	1	1	18.55	18.54	18.51	19.0	0.0
20	256QAM	1	1	17.86	18.10	18.18	19.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	18.29	18.26	18.37	19.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	18.24	18.21	18.30	19.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	18.27	18.35	18.25	19.0	0.0

LAT Reduced power - DS16 for Handheld

n2 (only SCS15KHz has 5M BW)								
BW [MHz]	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	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	21.61	21.79	21.82	22.3	0.0
20	PI/2 BPSK	1	53	21.51	21.95	21.96		
20	PI/2 BPSK	1	104	21.57	21.62	21.77		
20	PI/2 BPSK	50	0	21.45	21.77	21.79	22.3	0.0
20	PI/2 BPSK	50	28	21.47	21.72	21.87		
20	PI/2 BPSK	50	56	21.58	21.67	21.77		
20	PI/2 BPSK	100	0	21.43	21.74	21.75	22.3	0.0
20	QPSK	1	1	21.85	21.97	21.83	22.3	0.0
20	QPSK	1	53	21.58	21.84	21.93		
20	QPSK	1	104	21.57	21.72	21.74		
20	QPSK	50	0	21.52	21.74	21.81	22.3	0.0
20	QPSK	50	28	21.73	21.85	21.82		
20	QPSK	50	56	21.58	21.72	21.84		
20	QPSK	100	0	21.51	21.80	21.71	22.3	0.0
20	16QAM	1	1	21.58	21.78	21.76	22.3	0.0
20	64QAM	1	1	21.05	21.45	21.35	21.5	0.8
20	256QAM	1	1	18.43	18.78	18.79	19.5	2.8
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	21.78	21.87	21.65	22.3	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	21.62	21.90	21.68	22.3	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	21.71	21.77	21.70	22.3	0.0

n66 (only SCS15KHz has 5M BW)								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	PI/2 BPSK	1	1	22.05	22.23	22.57	22.8	0.0
20	PI/2 BPSK	1	53	22.38	22.29	22.56		
20	PI/2 BPSK	1	104	22.39	22.33	22.66		
20	PI/2 BPSK	50	0	21.97	22.17	22.50	22.8	0.0
20	PI/2 BPSK	50	28	22.14	22.28	22.47		
20	PI/2 BPSK	50	56	22.21	22.29	22.55		
20	PI/2 BPSK	100	0	22.06	22.29	22.39	22.8	0.0
20	QPSK	1	1	22.63	22.72	22.58	22.8	0.0
20	QPSK	1	53	22.62	22.59	22.55		
20	QPSK	1	104	22.52	22.41	22.63		
20	QPSK	50	0	21.97	22.21	22.43	22.8	0.0
20	QPSK	50	28	22.47	22.61	22.50		
20	QPSK	50	56	22.25	22.36	22.58		
20	QPSK	100	0	22.15	22.52	22.48	22.8	0.0
20	16QAM	1	1	22.00	22.35	22.60	22.8	0.0
20	64QAM	1	1	21.23	21.25	21.39	21.5	1.3
20	256QAM	1	1	18.47	18.67	18.92	19.5	3.3
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	22.51	22.56	22.41	22.8	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.35	22.60	22.56	22.8	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	22.47	22.53	22.61	22.8	0.0

UAT Reduced power - DS12 for Head

n2 (only SCS15KHz has 5M BW)								
BW [MHz]	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	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	15.01	15.20	15.05	15.5	0.0
20	PI/2 BPSK	1	53	15.16	15.15	15.04		
20	PI/2 BPSK	1	104	15.16	15.05	14.99		
20	PI/2 BPSK	50	0	15.30	15.19	15.03	15.5	0.0
20	PI/2 BPSK	50	28	15.24	15.13	15.03		
20	PI/2 BPSK	50	56	15.28	15.19	14.98		
20	PI/2 BPSK	100	0	15.23	15.14	15.01	15.5	0.0
20	QPSK	1	1	15.24	15.32	15.27	15.5	0.0
20	QPSK	1	53	15.20	15.02	15.03		
20	QPSK	1	104	15.20	15.09	14.98		
20	QPSK	50	0	15.26	15.16	15.01	15.5	0.0
20	QPSK	50	28	15.17	15.25	15.23		
20	QPSK	50	56	15.24	15.17	15.04		
20	QPSK	100	0	15.14	15.18	14.99	15.5	0.0
20	16QAM	1	1	15.09	15.03	15.08	15.5	0.0
20	64QAM	1	1	15.25	15.15	14.91	15.5	0.0
20	256QAM	1	1	15.28	15.09	14.98	15.5	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	15.21	15.23	15.11	15.5	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	15.13	15.14	15.08	15.5	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	15.07	14.86	15.03	15.5	0.0

n66 (only SCS15KHz has 5M BW)								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	PI/2 BPSK	1	1	15.75	15.66	15.64	16.5	0.0
20	PI/2 BPSK	1	53	15.73	15.89	15.65		
20	PI/2 BPSK	1	104	15.70	15.63	15.59		
20	PI/2 BPSK	50	0	15.65	15.60	15.53	16.5	0.0
20	PI/2 BPSK	50	28	15.63	15.54	15.55		
20	PI/2 BPSK	50	56	15.56	15.55	15.49		
20	PI/2 BPSK	100	0	15.62	15.53	15.54	16.5	0.0
20	QPSK	1	1	15.84	15.91	15.86	16.5	0.0
20	QPSK	1	53	15.75	15.88	15.47		
20	QPSK	1	104	15.79	15.53	15.51		
20	QPSK	50	0	15.66	15.66	15.58	16.5	0.0
20	QPSK	50	28	15.67	15.78	15.63		
20	QPSK	50	56	15.63	15.53	15.49		
20	QPSK	100	0	15.64	15.67	15.56	16.5	0.0
20	16QAM	1	1	15.78	15.60	15.46	16.5	0.0
20	64QAM	1	1	15.75	15.55	15.50	16.5	0.0
20	256QAM	1	1	15.58	15.59	15.51	16.5	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	15.63	15.48	15.68	16.5	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	15.71	15.52	15.71	16.5	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	15.62	15.56	15.58	16.5	0.0

UAT Reduced power - DS13 for Body worn / Hotspot

n2 (only SCS15KHz has 5M BW)								
BW [MHz]	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	15.54	15.80	15.89	16.0	0.0
20	PI/2 BPSK	1	53	15.65	15.62	15.50		
20	PI/2 BPSK	1	104	15.50	15.74	15.58		
20	PI/2 BPSK	50	0	15.53	15.77	15.64	16.0	0.0
20	PI/2 BPSK	50	28	15.79	15.68	15.66		
20	PI/2 BPSK	50	56	15.63	15.68	15.50		
20	PI/2 BPSK	100	0	15.63	15.73	15.52	16.0	0.0
20	QPSK	1	1	15.68	15.87	15.68	16.0	0.0
20	QPSK	1	53	15.61	15.73	15.63		
20	QPSK	1	104	15.84	15.66	15.56		
20	QPSK	50	0	15.62	15.69	15.65	16.0	0.0
20	QPSK	50	28	15.72	15.81	15.60		
20	QPSK	50	56	15.71	15.65	15.64		
20	QPSK	100	0	15.65	15.67	15.63	16.0	0.0
20	16QAM	1	1	15.56	15.68	15.68	16.0	0.0
20	64QAM	1	1	15.68	15.77	15.62	16.0	0.0
20	256QAM	1	1	15.63	15.76	15.45	16.0	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5	16.0	0.0
15	QPSK	1	1	15.46	15.62	15.68	16.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905	16.0	0.0
10	QPSK	1	1	15.52	15.57	15.43	16.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5	16.0	0.0
5	QPSK	1	1	15.61	15.47	15.51	16.0	0.0

n66 (only SCS15KHz has 5M BW)								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	PI/2 BPSK	1	1	16.35	16.15	16.19	17.0	0.0
20	PI/2 BPSK	1	53	16.47	16.45	16.28		
20	PI/2 BPSK	1	104	16.33	16.19	16.17		
20	PI/2 BPSK	50	0	16.22	16.07	16.15	17.0	0.0
20	PI/2 BPSK	50	28	16.23	16.16	16.06		
20	PI/2 BPSK	50	56	16.17	16.13	16.05		
20	PI/2 BPSK	100	0	16.21	16.15	16.11	17.0	0.0
20	QPSK	1	1	16.45	16.56	16.48	17.0	0.0
20	QPSK	1	53	16.44	16.41	16.25		
20	QPSK	1	104	16.31	16.10	16.14		
20	QPSK	50	0	16.25	16.09	16.13	17.0	0.0
20	QPSK	50	28	16.43	16.48	16.41		
20	QPSK	50	56	16.16	16.13	16.09		
20	QPSK	100	0	16.21	16.35	16.10	17.0	0.0
20	16QAM	1	1	16.18	16.07	16.09	17.0	0.0
20	64QAM	1	1	16.33	16.18	16.12	17.0	0.0
20	256QAM	1	1	16.30	16.09	16.23	17.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	17.0	0.0
15	QPSK	1	1	16.21	15.98	16.09	17.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	17.0	0.0
10	QPSK	1	1	15.99	16.03	16.04	17.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	17.0	0.0
5	QPSK	1	1	15.98	16.12	16.12	17.0	0.0

UAT Reduced power - DS16 for Handheld

n2 (only SCS15KHz has 5M BW)								
BW [MHz]	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	20.79	20.77	20.58		
20	PI/2 BPSK	1	53	20.79	20.67	20.69	21.0	0.0
20	PI/2 BPSK	1	104	20.67	20.61	20.54		
20	PI/2 BPSK	50	0	20.67	20.69	20.59		
20	PI/2 BPSK	50	28	20.75	20.69	20.51	21.0	0.0
20	PI/2 BPSK	50	56	20.69	20.66	20.48		
20	PI/2 BPSK	100	0	20.73	20.66	20.50	21.0	0.0
20	QPSK	1	1	20.68	20.82	20.73		
20	QPSK	1	53	20.66	20.76	20.67	21.0	0.0
20	QPSK	1	104	20.61	20.69	20.51		
20	QPSK	50	0	20.70	20.63	20.59		
20	QPSK	50	28	20.64	20.74	20.58	21.0	0.0
20	QPSK	50	56	20.71	20.70	20.53		
20	QPSK	100	0	20.69	20.73	20.52	21.0	0.0
20	16QAM	1	1	20.70	20.67	20.57	21.0	0.0
20	64QAM	1	1	20.75	20.78	20.63	21.0	0.0
20	256QAM	1	1	19.01	19.31	19.10	19.5	1.5
Channel				371500	376000	380500		
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	20.40	20.52	20.39	21.0	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	20.46	20.61	20.49	21.0	0.0
Channel				370500	376000	381500		
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	20.58	20.67	20.51	21.0	0.0

n66 (only SCS15KHz has 5M BW)								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	PI/2 BPSK	1	1	20.40	20.21	20.31		
20	PI/2 BPSK	1	53	20.33	20.28	20.56	21.0	0.0
20	PI/2 BPSK	1	104	20.41	20.23	20.19		
20	PI/2 BPSK	50	0	20.27	20.24	20.23		
20	PI/2 BPSK	50	28	20.29	20.23	20.16	21.0	0.0
20	PI/2 BPSK	50	56	20.32	20.18	20.15		
20	PI/2 BPSK	100	0	20.30	20.25	20.15	21.0	0.0
20	QPSK	1	1	20.60	20.67	20.58		
20	QPSK	1	53	20.54	20.28	20.43	21.0	0.0
20	QPSK	1	104	20.62	20.23	20.19		
20	QPSK	50	0	20.33	20.25	20.21		
20	QPSK	50	28	20.53	20.57	20.51	21.0	0.0
20	QPSK	50	56	20.39	20.15	20.15		
20	QPSK	100	0	20.41	20.49	20.37	21.0	0.0
20	16QAM	1	1	20.46	20.46	20.15	21.0	0.0
20	64QAM	1	1	20.48	20.34	20.26	21.0	0.0
20	256QAM	1	1	19.47	19.38	19.15	19.5	1.5
Channel				343500	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	20.12	20.15	20.09	21.0	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	20.15	20.02	20.13	21.0	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	19.98	20.05	20.10	21.0	0.0

LAT Full Power - DSI 2/3/4/6

CA_5B										
Combination 10MHz+10MHz (50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20549	QPSK	1	49	1	0	1	0	22.95	24.00
20575	20476	QPSK	1	0	1	49	1	0	22.91	24.00
20600	20501	QPSK	1	0	1	49	1	0	22.94	24.00

LAT Reduced Power - DSI3 for Body worn / Hotspot

CA_5B										
Combination 10MHz+10MHz (50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20549	QPSK	1	49	1	0	1	0	22.64	23.70
20575	20476	QPSK	1	0	1	49	1	0	22.62	23.70
20600	20501	QPSK	1	0	1	49	1	0	22.54	23.70

LAT Full Power - DSI 2/3/4/6

CA_66B										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	74	1	0	1	0	22.78	24.00
132322	132229	QPSK	1	0	1	24	1	0	22.79	24.00
132597	132504	QPSK	1	0	1	24	1	0	22.73	24.00

LAT Reduced Power - DSI3 for Body worn / Hotspot

CA_66B										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	74	1	0	1	0	14.91	16.10
132322	132229	QPSK	1	0	1	24	1	0	15.13	16.10
132597	132504	QPSK	1	0	1	24	1	0	15.10	16.10

LAT Reduced Power - DSI6 for Handheld

CA_66B										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	74	1	0	1	0	19.04	20.20
132322	132229	QPSK	1	0	1	24	1	0	19.38	20.20
132597	132504	QPSK	1	0	1	24	1	0	19.18	20.20

LAT Full Power - DSI 2/3/4/6

CA_66C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	99	1	0	1	0	22.96	24.00
132322	132124	QPSK	1	0	1	99	1	0	22.93	24.00
132572	132374	QPSK	1	0	1	99	1	0	22.87	24.00

LAT Reduced Power - DSI3 for Body worn / Hotspot

CA_66C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	99	1	0	1	0	15.34	16.10
132322	132124	QPSK	1	0	1	99	1	0	15.35	16.10
132572	132374	QPSK	1	0	1	99	1	0	15.33	16.10

LAT Reduced Power - DSI6 for Handheld

CA_66C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	99	1	0	1	0	19.25	20.20
132322	132124	QPSK	1	0	1	99	1	0	19.31	20.20
132572	132374	QPSK	1	0	1	99	1	0	19.48	20.20



UAT Full Power - DSI 2/3/4/6

CA_5B										
Combination 10MHz+10MHz (50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20549	QPSK	1	49	1	0	1	0	22.69	23.50
20575	20476	QPSK	1	0	1	49	1	0	22.64	23.50
20600	20501	QPSK	1	0	1	49	1	0	22.56	23.50

UAT Full Power - DSI 2/3/4/6

CA_66B										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	74	1	0	1	0	21.87	23.00
132322	132229	QPSK	1	0	1	24	1	0	21.89	23.00
132597	132504	QPSK	1	0	1	24	1	0	21.75	23.00

LAT Reduced Power - DSI2 for Head

CA_66B										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	74	1	0	1	0	13.78	14.90
132322	132229	QPSK	1	0	1	24	1	0	13.94	14.90
132597	132504	QPSK	1	0	1	24	1	0	13.88	14.90

LAT Reduced Power - DSI3 for Body worn / Hotspot

CA_66B										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	74	1	0	1	0	15.00	15.90
132322	132229	QPSK	1	0	1	24	1	0	15.02	15.90
132597	132504	QPSK	1	0	1	24	1	0	14.95	15.90

LAT Reduced Power - DSI6 for Handheld

CA_66B										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	74	1	0	1	0	19.05	19.90
132322	132229	QPSK	1	0	1	24	1	0	18.98	19.90
132597	132504	QPSK	1	0	1	24	1	0	18.88	19.90

UAT Full Power - DSI 2/3/4/6

CA_66C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	99	1	0	1	0	22.23	23.00
132322	132124	QPSK	1	0	1	99	1	0	22.10	23.00
132572	132374	QPSK	1	0	1	99	1	0	22.03	23.00

LAT Reduced Power - DSI2 for Head

CA_66C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	99	1	0	1	0	14.20	14.90
132322	132124	QPSK	1	0	1	99	1	0	14.31	14.90
132572	132374	QPSK	1	0	1	99	1	0	14.13	14.90

LAT Reduced Power - DSI3 for Body worn / Hotspot

CA_66C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	99	1	0	1	0	15.22	15.90
132322	132124	QPSK	1	0	1	99	1	0	15.40	15.90
132572	132374	QPSK	1	0	1	99	1	0	15.05	15.90

LAT Reduced Power - DSI6 for Handheld

CA_66C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	99	1	0	1	0	19.09	19.90
132322	132124	QPSK	1	0	1	99	1	0	19.26	19.90
132572	132374	QPSK	1	0	1	99	1	0	19.21	19.90



3CA DL Full power - DSI 2/3/4/6

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

Configure	PCC										SCC1				SCC2				Power			
	LTE Band	Antenna Port	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL Offset	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL Antenna Configuration	With CA Tx. Power (dBm)	Without CA Tx. Power (dBm)	
CA_2A-4A-13A	Band 2	1	20M	1880	18900	QPS-K	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 13	10M	751	5230				
	Band 2	2	20M	1880	18900	QPS-K	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 13	10M	751	5230			21.9	21.92
	Band 4	1	20M	1732.5	20175	QPS-K	1	0	4xMIMO	Band 13	10M	751	5230		Band 2	20M	1960	900	4xMIMO		22.72	22.58
	Band 4	2	20M	1732.5	20175	QPS-K	1	0	4xMIMO	Band 13	10M	751	5230		Band 2	20M	1960	900	4xMIMO		21.9	21.99
Band 13	1	10M	782	23230	QPS-K	1	0		Band 2	20M	1960	900	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO		22.93	22.82	

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

Configure	PCC										SCC1				SCC2				Power			
	LTE Band	Antenna Port	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL Offset	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL Antenna Configuration	With CA Tx. Power (dBm)	Without CA Tx. Power (dBm)	
CA_4A-4A-13A	Band 4	1	20M	1732.5	20175	QPS-K	1	0	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	Band 13	10M	751	5230			22.62	22.58
	Band 4	2	20M	1732.5	20175	QPS-K	1	0	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	Band 13	10M	751	5230			21.89	21.99
	Band 13	1	10M	782	23230	QPS-K	1	0		Band 4	20M	2132.5	2175	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO		22.78	22.82
CA_6A-6B	Band 66	1	20M	1745	132322	QPS-K	1	0	4xMIMO	Band 66	5M	2112.5	66461	4xMIMO	Band 66	15M	2121.8	66554	4xMIMO		22.68	22.64
	Band 66	2	20M	1745	132322	QPS-K	1	0	4xMIMO	Band 66	5M	2112.5	66461	4xMIMO	Band 66	15M	2121.8	66554	4xMIMO		21.87	21.99
	Band 66	1	15M	1745	132322	QPS-K	1	0	4xMIMO	Band 66	5M	2164.3	66979	4xMIMO	Band 66	20M	2120	66536	4xMIMO		22.66	22.47
CA_6A-66C	Band 66	2	15M	1745	132322	QPS-K	1	0	4xMIMO	Band 66	5M	2164.3	66979	4xMIMO	Band 66	20M	2120	66536	4xMIMO		21.88	21.91
	Band 66	1	20M	1745	132322	QPS-K	1	0	4xMIMO	Band 66	20M	2174.8	67084	4xMIMO	Band 66	5M	2197.5	66461	4xMIMO		22.89	22.84
	Band 66	2	20M	1745	132322	QPS-K	1	0	4xMIMO	Band 66	20M	2174.8	67084	4xMIMO	Band 66	5M	2197.5	66461	4xMIMO		21.89	21.99
CA_66D	Band 66	1	20M	1745	132322	QPS-K	1	0	4xMIMO	Band 66	5M	2197.5	66461	4xMIMO	Band 66	20M	2209.2	66578	4xMIMO		22.57	22.64
	Band 66	2	20M	1745	132322	QPS-K	1	0	4xMIMO	Band 66	5M	2197.5	66461	4xMIMO	Band 66	20M	2209.2	66578	4xMIMO		21.88	21.99
	Band 66	1	20M	1745	132322	QPS-K	1	0	4xMIMO	Band 66	20M	2174.8	67084	4xMIMO	Band 29	20M	2194.6	67282			22.58	22.64
Band 66	2	20M	1745	132322	QPS-K	1	0	4xMIMO	Band 66	20M	2174.8	67084	4xMIMO	Band 29	20M	2194.6	67282			21.87	21.99	



2.4GHz WLAN Ant 3+6 Full Power & Handheld -Standalone						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	22.11	22.50	100
		6	2437	22.12	22.50	
		11	2462	22.11	22.50	
	802.11g 6Mbps	1	2412	20.83	21.50	98.28
		6	2437	21.04	21.50	
		11	2462	19.57	21.50	
802.11n-HT20 MCS0	1	2412	19.36	21.00	98.16	
	6	2437	21.22	21.50		
	11	2462	18.93	21.00		

2.4GHz WLAN Ant 3+6 For Head(Rec on)-Standalone						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	20.85	21.00	100
		6	2437	20.31	21.00	
		11	2462	20.25	21.00	
	802.11g 6Mbps	1	2412		21.00	98.28
		6	2437		21.00	
		11	2462		21.00	
802.11n-HT20 MCS0	1	2412		21.00	98.16	
	6	2437		21.00		
	11	2462		21.00		

2.4GHz WLAN Ant 3+6 For Body Worn/Hotspot-Standalone						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	20.85	21.00	100
		6	2437	20.31	21.00	
		11	2462	20.25	21.00	
	802.11g 6Mbps	1	2412		21.00	98.28
		6	2437		21.00	
		11	2462		21.00	
802.11n-HT20 MCS0	1	2412		21.00	98.16	
	6	2437		21.00		
	11	2462		21.00		

5.2GHz WLAN Ant 5+6 Full Power & Handheld & Head-Standalone						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	19.52	21.00	98.62
		40	5200	20.19	21.00	
		44	5220	20.42	21.00	
		48	5240	20.58	21.00	
	802.11n-HT20 MCS0	36	5180	19.55	20.00	97.79
		40	5200	19.12	20.00	
		44	5220	19.27	20.00	
		48	5240	19.52	20.00	
	802.11n-HT40 MCS0	38	5190	11.95	13.00	96.32
		46	5230	18.99	20.00	
	802.11ac-VHT20 MCS0	36	5180	19.57	20.00	98.89
		40	5200	19.06	20.00	
44		5220	19.35	20.00		
48		5240	19.51	20.00		
802.11ac-VHT40 MCS0	38	5190	11.96	13.00	96.49	
	46	5230	19.05	20.00		
802.11ac-VHT80 MCS0	42	5210	11.74	13.00	93.06	

5.2GHz WLAN Ant 5+6 For Body Worn/Hotspot-Standalone						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	13.40	14.00	98.62
		40	5200	13.41	14.00	
		44	5220	13.32	14.00	
		48	5240	13.38	14.00	
	802.11n-HT20 MCS0	36	5180		13.50	97.79
		40	5200		13.50	
		44	5220		13.50	
		48	5240		13.50	
	802.11n-HT40 MCS0	38	5190		13.00	96.32
		46	5230		13.00	
	802.11ac-VHT20 MCS0	36	5180		13.50	98.89
		40	5200		13.50	
44		5220		13.50		
48		5240		13.50		
802.11ac-VHT40 MCS0	38	5190		13.00	96.49	
	46	5230		13.00		
802.11ac-VHT80 MCS0	42	5210		13.00	93.06	

5.3GHz WLAN Ant 5+6 Full Power & Handheld & Head-Standalone						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	20.35	21.00	98.62
		56	5280	20.42	21.00	
		60	5300	20.32	21.00	
		64	5320	20.41	21.00	
	802.11n-HT20 MCS0	52	5260	19.36	20.00	97.79
		56	5280	19.34	20.00	
		60	5300	19.44	20.00	
		64	5320	19.53	20.00	
	802.11n-HT40 MCS0	54	5270	18.80	20.00	96.32
		62	5310	12.78	13.00	
	802.11ac-VHT20 MCS0	52	5260	19.31	20.00	98.89
		56	5280	19.38	20.00	
60		5300	19.41	20.00		
64		5320	19.55	20.00		
802.11ac-VHT40 MCS0	54	5270	18.91	20.00	96.49	
	62	5310	12.83	13.00		
802.11ac-VHT80 MCS0	58	5290	13.50	14.50	93.06	

5.3GHz WLAN Ant 5+6 For Body Worn-Standalone						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	13.30	13.50	98.62
		56	5280	13.34	13.50	
		60	5300	13.32	13.50	
		64	5320	13.29	13.50	
	802.11n-HT20 MCS0	52	5260		13.50	97.79
		56	5280		13.50	
		60	5300		13.50	
		64	5320		13.50	
	802.11n-HT40 MCS0	54	5270		13.00	96.32
		62	5310		13.00	
	802.11ac-VHT20 MCS0	52	5260		13.50	98.89
		56	5280		13.50	
60		5300		13.50		
64		5320		13.50		
802.11ac-VHT40 MCS0	54	5270		13.00	96.49	
	62	5310		13.00		
802.11ac-VHT80 MCS0	58	5290		13.00	93.06	

5.5GHz WLAN Ant 5+6 Full Power & Handheld & Head-Standalone						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	20.59	21.50	98.62
		116	5580	20.77	21.50	
		132	5660	20.74	21.50	
		140	5700	20.53	21.50	
	802.11n-HT20 MCS0	100	5500	19.61	20.00	97.79
		116	5580	20.20	21.00	
		132	5660	19.95	20.00	
		140	5700	18.22	19.00	
	802.11n-HT40 MCS0	102	5510	14.55	15.50	96.32
		110	5550	19.21	20.00	
		134	5670	19.30	20.00	
		140	5700	19.58	20.00	
802.11ac-VHT20 MCS0	116	5580	20.21	21.00	98.89	
	132	5660	19.98	21.00		
	140	5700	18.26	19.50		
	102	5510	14.58	15.50		
802.11ac-VHT40 MCS0	110	5550	19.24	20.00	96.49	
	134	5670	19.36	20.00		
802.11ac-VHT80 MCS0	106	5530	12.52	13.50	93.06	

5.5GHz WLAN Ant 5+6 For Body Worn-Standalone						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	13.15	14.50	98.62
		116	5580	14.11	14.50	
		132	5660	13.49	14.50	
		140	5700	13.33	14.50	
	802.11n-HT20 MCS0	100	5500		14.50	97.79
		116	5580		14.50	
		132	5660		14.50	
		140	5700		14.50	
	802.11n-HT40 MCS0	102	5510		14.00	96.32
		110	5550		14.00	
		134	5670		14.00	
		140	5700		14.50	
802.11ac-VHT20 MCS0	116	5580		14.50	98.89	
	132	5660		14.50		
	140	5700		14.50		
	102	5510		14.00		
802.11ac-VHT40 MCS0	110	5550		14.00	96.49	
	134	5670		14.00		
802.11ac-VHT80 MCS0	106	5530		13.50	93.06	

5.8GHz WLAN Ant 5+6 Full Power & Handheld & Head-Standalone						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	20.98	21.50	98.62
		157	5785	20.55	21.50	
		165	5825	20.94	21.50	
	802.11n-HT20 MCS0	149	5745	19.98	21.00	97.79
		157	5785	19.61	20.50	
		165	5825	20.00	21.00	
	802.11n-HT40 MCS0	151	5755	19.06	20.00	96.32
		159	5795	18.94	20.00	
	802.11ac-VHT20 MCS0	149	5745	20.01	21.00	96.48
		157	5785	19.61	20.50	
		165	5825	19.96	21.00	
	802.11ac-VHT40 MCS0	151	5755	19.14	20.00	96.49
159		5795	18.93	20.00		
802.11ac-VHT80 MCS0	155	5775	19.04	20.00	93.06	

5.8GHz WLAN Ant 5+6 For Body Worn/Hotspot-Standalone						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	15.72	16.50	98.62
		157	5785	15.67	16.50	
		165	5825	15.75	16.50	
	802.11n-HT20 MCS0	149	5745		16.50	97.79
		157	5785		16.50	
		165	5825		16.50	
	802.11n-HT40 MCS0	151	5755		16.00	96.32
		159	5795		16.00	
	802.11ac-VHT20 MCS0	149	5745		16.50	96.48
		157	5785		16.50	
		165	5825		16.50	
	802.11ac-VHT40 MCS0	151	5755		16.00	96.49
159		5795		16.00		
802.11ac-VHT80 MCS0	155	5775		16.00	93.06	



2.4GHz WLAN		Ant 3+6 For Head(Rec on)-Simultaneous					
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %	
802.11b 1Mbps	1	2412	16.47	16.50	12.50	100	
	6	2437	15.84	16.50	12.50		
	11	2462	15.91	16.50	12.50		
802.11g 6Mbps	1	2412	Not Required	16.50	Not Required	98.28	
	6	2437		16.50			
	11	2462		16.50			
802.11n-HT20 MCSO	1	2412	Not Required	16.50	Not Required	98.16	
	6	2437		16.50			
	11	2462		16.50			

2.4GHz WLAN		Ant 3+6 For Body-worn&Hotspot-Simultaneous					
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %	
802.11b 1Mbps	1	2412	16.47	16.50	12.50	100	
	6	2437	15.84	16.50	12.50		
	11	2462	15.91	16.50	12.50		
802.11g 6Mbps	1	2412	Not Required	16.50	Not Required	98.28	
	6	2437		16.50			
	11	2462		16.50			
802.11n-HT20 MCSO	1	2412	Not Required	16.50	Not Required	98.16	
	6	2437		16.50			
	11	2462		16.50			

2.4GHz WLAN		Ant 3+6 For Handheld-Simultaneous					
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %	
802.11b 1Mbps	1	2412	20.85	21.00	17.00	100	
	6	2437	20.31	21.00	17.00		
	11	2462	20.25	21.00	17.00		
802.11g 6Mbps	1	2412	Not Required	21.00	Not Required	98.28	
	6	2437		21.00			
	11	2462		21.00			
802.11n-HT20 MCSO	1	2412	Not Required	21.00	Not Required	98.16	
	6	2437		21.00			
	11	2462		21.00			

5.2GHz WLAN		Ant 5+6 For Body-worn&Hotspot-Simultaneous					
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %	
802.11a 6Mbps	36	5180	9.30	10.00	6.00	98.82	
	40	5200	9.24	10.00	6.00		
	44	5220	9.17	10.00	6.00		
	48	5240	9.20	10.00	6.00		
802.11n-HT20 MCSO	36	5180	Not Required	10.00	Not Required	97.79	
	40	5200		10.00			
	44	5220		10.00			
802.11n-HT40 MCSO	38	5190	Not Required	9.50	Not Required	96.32	
	46	5230		9.50			
	48	5240		9.50			
802.11ac-VHT20 MCSO	36	5180	Not Required	10.00	Not Required	98.89	
	40	5200		10.00			
	44	5220		10.00			
	48	5240		10.00			
802.11ac-VHT40 MCSO	38	5190	Not Required	9.50	Not Required	96.49	
	46	5230		9.50			
802.11ac-VHT80 MCSO	42	5210	Not Required	9.50	Not Required	93.06	

5.2GHz WLAN		Ant 5+6 For Handheld-Simultaneous					
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %	
802.11a 6Mbps	36	5180	13.40	14.00	10.00	98.82	
	40	5200	13.41	14.00	10.00		
	44	5220	13.32	14.00	10.00		
	48	5240	13.38	14.00	10.00		
802.11n-HT20 MCSO	36	5180	Not Required	14.00	Not Required	97.79	
	40	5200		14.00			
	44	5220		14.00			
802.11n-HT40 MCSO	38	5190	Not Required	13.50	Not Required	96.32	
	46	5230		13.50			
	48	5240		13.50			
802.11ac-VHT20 MCSO	36	5180	Not Required	14.00	Not Required	98.89	
	40	5200		14.00			
	44	5220		14.00			
	48	5240		14.00			
802.11ac-VHT40 MCSO	38	5190	Not Required	13.50	Not Required	96.49	
	46	5230		13.50			
802.11ac-VHT80 MCSO	42	5210	Not Required	13.50	Not Required	93.06	

5.3GHz WLAN		Ant 5+6 For Body-worn-Simultaneous					
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %	
802.11a 6Mbps	52	5260	8.84	9.00	5.50	98.82	
	56	5280	8.97	9.00	5.50		
	60	5300	8.88	9.00	5.50		
	64	5320	8.71	9.00	5.50		
802.11n-HT20 MCSO	52	5260	Not Required	9.00	Not Required	97.79	
	56	5280		9.00			
	60	5300		9.00			
	64	5320		9.00			
802.11n-HT40 MCSO	54	5270	Not Required	8.50	Not Required	96.32	
	62	5310		8.50			
	64	5320		8.50			
802.11ac-VHT20 MCSO	52	5260	Not Required	9.00	Not Required	98.89	
	56	5280		9.00			
	60	5300		9.00			
	64	5320		9.00			
802.11ac-VHT40 MCSO	54	5270	Not Required	8.50	Not Required	96.49	
	62	5310		8.50			
802.11ac-VHT80 MCSO	58	5290	Not Required	8.50	Not Required	93.06	

5.3GHz WLAN		Ant 5+6 For Handheld-Simultaneous					
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %	
802.11a 6Mbps	52	5260	13.30	13.50	10.00	98.82	
	56	5280	13.34	13.50	10.00		
	60	5300	13.32	13.50	10.00		
	64	5320	13.29	13.50	10.00		
802.11n-HT20 MCSO	52	5260	Not Required	13.50	Not Required	97.79	
	56	5280		13.50			
	60	5300		13.50			
	64	5320		13.50			
802.11n-HT40 MCSO	54	5270	Not Required	13.00	Not Required	96.32	
	62	5310		13.00			
	64	5320		13.00			
802.11ac-VHT20 MCSO	52	5260	Not Required	13.50	Not Required	98.89	
	56	5280		13.50			
	60	5300		13.50			
	64	5320		13.50			
802.11ac-VHT40 MCSO	54	5270	Not Required	13.00	Not Required	96.49	
	62	5310		13.00			
802.11ac-VHT80 MCSO	58	5290	Not Required	13.00	Not Required	93.06	

5.5GHz WLAN		Ant 5+6 For Body-worn-Simultaneous					
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %	
802.11a 6Mbps	100	5500	7.50	8.50	4.50	98.82	
	118	5580	8.27	8.50	4.50		
	132	5660	7.95	8.50	4.50		
	140	5700	7.88	8.50	4.50		
802.11n-HT20 MCSO	100	5500	Not Required	8.50	Not Required	97.79	
	116	5580		8.50			
	132	5660		8.50			
	140	5700		8.50			
802.11n-HT40 MCSO	102	5510	Not Required	8.00	Not Required	96.32	
	110	5550		8.00			
	124	5670		8.00			
	100	5500		8.50			
802.11ac-VHT20 MCSO	118	5580	Not Required	8.50	Not Required	98.89	
	132	5660		8.50			
	140	5700		8.50			
	102	5510		8.00			
802.11ac-VHT40 MCSO	110	5550	Not Required	8.00	Not Required	96.49	
	134	5670		8.00			
802.11ac-VHT80 MCSO	108	5530	Not Required	8.00	Not Required	93.06	

5.5GHz WLAN		Ant 5+6 For Handheld-Simultaneous					
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %	
802.11a 6Mbps	100	5500	13.15	14.50	10.00	98.82	
	118	5580	14.11	14.50	10.00		
	132	5660	13.49	14.50	10.00		
	140	5700	13.33	14.50	10.00		
802.11n-HT20 MCSO	100	5500	Not Required	14.50	Not Required	97.79	
	116	5580		14.50			
	132	5660		14.50			
	140	5700		14.50			
802.11n-HT40 MCSO	102	5510	Not Required	14.00	Not Required	96.32	
	110	5550		14.00			
	124	5670		14.00			
	100	5500		14.50			
802.11ac-VHT20 MCSO	118	5580	Not Required	14.50	Not Required	98.89	
	132	5660		14.50			
	140	5700		14.50			
	102	5510		14.00			
802.11ac-VHT40 MCSO	110	5550	Not Required	14.00	Not Required	96.49	
	134	5670		14.00			
802.11ac-VHT80 MCSO	108	5530	Not Required	13.50	Not Required	93.06	

5.8GHz WLAN		Ant 5+6 For Body-worn&Hotspot-Simultaneous					
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %	
802.11a 6Mbps	149	5745	11.16	11.50	8.50	98.82	
	157	5785	11.47	11.50	8.50		
	165	5825	11.47	11.50	8.50		
802.11n-HT20 MCSO	149	5745	Not Required	11.50	Not Required	97.79	
	157	5785		11.50			
	165	5825		11.50			
802.11n-HT40 MCSO	151	5755	Not Required	11.00	Not Required	96.32	
	159	5795		11.00			
	149	5745		11.50			
802.11ac-VHT20 MCSO	149	5745	Not Required	11.50	Not Required	96.48	
	157	5785		11.50			
	165	5825		11.50			
802.11ac-VHT40 MCSO	151	5755	Not Required	11.00	Not Required	96.49	
	159	5795		11.00			
802.11ac-VHT80 MCSO	155	5775	Not Required	11.00	Not Required	93.06	

5.8GHz WLAN		Ant 5+6 For Handheld-Simultaneous					
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %	
802.11a 6Mbps	149	5745	17.38	18.00	15.00	98.82	
	157	5785	17.62	18.00	15.00		
	165	5825	17.76	18.00	15.00		
802.11n-HT20 MCSO	149	5745	Not Required	18.00	Not Required	97.79	
	157	5785		18.00			
	165	5825		18.00			
802.11n-HT40 MCSO	151	5755	Not Required	17.50	Not Required	96.32	
	159	5795		17.50			
	149	5745		17.50			
802.11ac-VHT20 MCSO	149	5745	Not Required	17.50	Not Required	96.48	
	157	5785		17.50			
	165	5825		17.50			
802.11ac-VHT40 MCSO	151	5755	Not Required	17.50	Not Required	96.49	
	159	5795		17.50			
802.11ac-VHT80 MCSO	155	5775	Not Required	17.50	Not Required	93.06	

BR / EDR Ant 6

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	10.22	7.44	7.53
	CH 39	2441	11.40	8.20	8.77
	CH 78	2480	10.20	8.43	8.51
Tune-up Limit			12		

LE v4.0 Ant 6

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	5.58
	CH 19	2440	6.02
	CH 39	2480	6.48
Tune-up Limit			8

LE v5.0 Ant 6

Mode	Channel	Frequency (MHz)	Average power (dBm)
			LE
LE	CH 00	2402	5.27
	CH 19	2440	6.03
	CH 39	2480	6.53
Tune-up Limit			8.00



Appendix F. Supplemental Tuner Head & Body SAR Results

The results are shown as follows.

Head - LAT

Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)														
									Auto-Tune	0	11	22	33	44	55	66	77	88	99	110	121	132	143
WCDMA II	RMC 12.2Kbps	9400	1880	-	-	Left Tilted	0mm	0.090	0.115	0.013	0.024	0.018	0.022	0.024	0.015	0.015	0.020	0.021	0.023	0.023	0.025	0.024	0.021
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)														
WCDMA V	RMC 12.2Kbps	4182	836.4			Right Cheek	0mm	0.297	0.357	0.029	0.185	0.122	0.346	0.020	0.026	0.156	0.171	0.357	0.154	0.026	0.111	0.151	
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)														
LTE Band 2-LAT	20M/QPSK	18900	1880	1	0	Right Cheek	0mm	0.095	0.110	0.044	0.069	0.060	0.062	0.059	0.059	0.047	0.075	0.046	0.078	0.056	0.055	0.055	0.061
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)														
LTE Band 5-LAT	10M/QPSK	20525	836.5	1	0	Right Tilted	0mm	0.197	0.214	0.028	0.038	0.111	0.146	0.185	0.176	0.188	0.148	0.159	0.198	0.193	0.195	0.128	
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)														
LTE Band 12	10M/QPSK	23095	707.5	1	0	Left Cheek	0mm	0.198	0.214	0.138	0.060	0.102	0.033	0.051	0.033	0.023	0.035	0.127	0.056	0.015	0.006	0.001	
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)														
LTE Band 13	10M/QPSK	23230	782	1	0	Right Cheek	0mm	0.216	0.235	0.057	0.144	0.026	0.013	0.064	0.028	0.038	0.003	0.072	0.110	0.032	0.039	0.008	
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)														
LTE Band 7	20M/QPSK	21100	2535	1	0	Left Tilted	0mm	0.088	0.109	0.095	0.102	0.082	0.086	0.096	0.097	0.051	0.082	0.078	0.090	0.107	0.082	0.089	
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)														
LTE Band 66-LAT	20M/QPSK	132322	1745	1	0	Right Cheek	0mm	0.101	0.110	0.053	0.060	0.062	0.038	0.024	0.034	0.054	0.059	0.056	0.039	0.067	0.035	0.023	
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)														
FR1 n2	20M/QPSK	376000	1880	1	1	Left Cheek	0mm	0.056	0.066	0.021	0.033	0.046	0.029	0.045	0.030	0.027	0.043	0.046	0.052	0.030	0.043	0.030	
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)														
FR1 n5	20M/QPSK	167300	836.5	1	1	Right Cheek	0mm	0.146	0.175	0.039	0.013	0.169	0.100	0.152	0.030	0.049	0.152	0.141	0.003	0.028	0.038	0.085	
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)														
FR1 n66	20M/QPSK	349000	1745	1	1	Left Cheek	0mm	0.050	0.068	0.030	0.003	0.052	0.036	0.046	0.009	0.037	0.042	0.043	0.007	0.043	0.039	0.046	

Body worn - LAT

Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)														
									Auto-Tune	0	11	22	33	44	55	66	77	88	99	110	121	132	143
WCDMA II	RMC 12.2Kpps	9400	1880	-	-	Bottom Side	5mm	0.575	0.942	0.595	0.921	0.778	0.903	0.895	0.627	0.751	0.912	0.934	0.910	0.679	0.588	0.721	0.471
WCDMA V	RMC 12.2Kpps	4182	838.4	-	-	Back	5mm	0.677	1.18	0.187	0.868	0.714	0.946	0.090	0.156	0.934	0.950	1.06	0.654	0.170	0.601	0.930	
LTE Band 2-LAT	20M/QPSK	18900	1880	50	0	Bottom Side	5mm	0.619	1.04	0.785	0.866	0.607	0.558	0.726	0.655	0.593	0.738	0.588	0.973	0.644	0.518	0.698	
LTE Band 5-LAT	10M/QPSK	20525	836.5	1	0	Back	5mm	0.645	0.893	0.115	0.371	0.245	0.240	0.018	0.083	0.358	0.374	0.081	0.053	0.118	0.259	0.013	
LTE Band 12	10M/QPSK	23095	707.5	1	0	Bottom Side	5mm	0.522	0.715	0.434	0.199	0.325	0.110	0.171	0.168	0.121	0.025	0.663	0.232	0.091	0.030	0.005	
LTE Band 13	10M/QPSK	23230	782	1	0	Back	5mm	0.585	0.745	0.277	0.698	0.159	0.055	0.342	0.248	0.149	0.616	0.337	0.654	0.183	0.041	0.384	
LTE Band 7	20M/QPSK	21100	2535	50	0	Bottom Side	5mm	0.795	1.07	1.00	0.729	0.688	1.03	0.973	0.904	0.695	0.896	0.917	0.913	0.824	0.939	0.899	
LTE Band 66-LAT	20M/QPSK	132322	1745	50	0	Bottom Side	5mm	0.669	0.865	0.704	0.724	0.757	0.778	0.588	0.658	0.771	0.746	0.653	0.729	0.528	0.728	0.788	
FR1 n2	20M/QPSK	372000	1860	50	28	Bottom Side	5mm	0.953	1.60	0.921	0.696	1.31	0.863	1.26	1.26	0.896	1.26	0.896	0.968	0.863	0.797	0.867	
FR1 n5	20M/QPSK	167300	836.5	1	1	Back	5mm	0.623	1.09	0.712	0.664	0.751	0.656	0.698	0.417	0.376	0.552	0.475	0.761	0.732	0.593	0.963	
FR1 n66	20M/QPSK	354000	1770	1	1	Bottom Side	5mm	0.942	1.57	0.869	1.02	1.21	0.796	1.08	0.659	1.12	1.21	0.978	0.941	0.746	0.716	0.426	

Verified SAR >1.2w/kg_Body worn - LAT

Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	Average Value of Time Sweep (W/kg)																
										0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
FR1 #2	20M/QPSK	372000	1860	50	28	Bottom Side	5mm	0.953	1.60	0.651	0.526	0.589	0.636	0.686	0.826	0.801	0.896	0.921	0.865	0.844	0.716	0.689	0.635	0.812	0.696	0.762
										17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
										0.618	0.672	0.696	0.812	0.765	0.689	0.916	0.989	0.786	0.995	0.876	0.966	1.26	1.31	1.28	1.04	1.11
										34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
										1.26	0.568	0.689	0.769	0.698	0.784	0.896	0.863	0.846	0.768	0.862	0.896	0.763	0.812	0.836	0.886	1.13
										51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67
										1.21	1.26	0.916	0.856	0.765	0.812	0.689	0.712	1.06	1.21	0.963	0.975	1.26	1.34	0.836	0.963	0.842
										67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83
										0.896	0.935	0.763	0.869	0.683	0.786	0.687	0.896	0.867	0.698	0.968	0.987	0.687	0.962	1.21	1.14	1.28
										83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99
										1.36	1.26	1.26	1.12	1.26	1.11	0.765	0.715	0.796	0.965	0.876	0.912	0.826	0.896	0.796	0.34	0.819
										99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115
										0.984	0.876	1.31	1.35	1.26	1.06	1.01	0.987	0.968	0.789	0.891	0.683	0.512	0.686	0.796	1.02	0.963
										115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131
										0.869	1.11	0.967	0.863	0.802	0.765	0.884	0.852	0.986	0.876	0.708	0.863	0.715	0.831	0.797	0.968	0.826
										131	132	133	134	135	136	137	138	139	140	141	142	143				
										0.769	0.845	0.696	0.589	0.986	0.972	0.869	0.789	0.712	0.867	0.912	0.712	0.861				

Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	Average Value of Time Sweep (W/kg)																
										0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
FR1 #68	20M/QPSK	354000	1770	1	1	Bottom Side	5mm	0.942	1.57	1.35	1.21	1.16	1.21	1.01	1.13	1.21	1.08	0.986	0.954	0.869	1.37	1.26	1.21	1.41	1.11	1.15
										17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
										1.45	1.27	1.31	1.25	1.02	0.946	1.38	1.26	1.18	1.26	1.15	1.31	1.29	1.11	1.26	1.21	1.36
										34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
										1.14	0.906	0.951	0.894	0.693	0.846	0.925	0.867	0.894	0.796	0.822	0.963	0.786	0.745	0.786	0.863	0.842
										51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67
										1.02	0.868	1.06	1.08	1.12	1.36	1.11	0.976	0.886	0.793	0.871	0.846	0.751	0.879	0.659	0.641	0.712
										67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83
										0.812	0.914	0.675	0.851	1.35	1.26	1.27	1.23	1.22	1.12	1.26	1.13	1.14	1.10	1.03	0.945	1.27
										83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99
										1.26	1.13	1.17	1.32	1.21	1.24	1.30	1.15	1.33	1.27	1.17	1.26	1.25	1.13	0.846	0.978	1.27
										99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115
										1.22	1.14	1.16	1.13	1.25	1.27	1.21	1.23	0.732	0.863	0.944	1.02	0.871	0.951	0.682	0.988	0.794
										115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131
										0.856	0.841	0.836	0.942	0.603	0.746	0.863	0.723	0.852	0.911	0.869	0.796	0.749	0.826	0.951	0.845	0.716
										131	132	133	134	135	136	137	138	139	140	141	142	143				
										0.684	0.762	0.715	0.961	0.875	0.748	0.596	0.686	0.752	0.863	0.952	0.426	0.406				

Head - UAT

Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									Auto-Tune	0	1	2	3	4	5
LTE Band 2-UAT	20M/QPSK	18900	1880	1	0	Left Tilted	0mm	0.685	0.942	0.903	0.869	0.896	0.655	0.514	0.503

Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									Auto-Tune	0	1	2	3	4	5
LTE Band 5-UAT	10M/QPSK	20525	836.5	1	0	Left Cheek	0mm	0.610	0.753	0.397	0.435	0.469	0.549	0.727	0.636

Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									Auto-Tune	0	1	2	3	4	5
LTE Band 66-UAT	20M/QPSK	132322	1745	1	0	Left Tilted	0mm	0.672	0.939	0.545	0.526	0.558	0.627	0.896	0.912

Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									Auto-Tune	0	1	2	3	4	5
FR1 n2	20M/QPSK	380000	1900	50	28	Left Tilted	0mm	0.920	1.65	1.16	1.17	1.24	1.58	1.52	1.49

Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									Auto-Tune	0	1	2	3	4	5
FR1 N5	20M/QPSK	167300	836.5	50	28	Left Cheek	0mm	0.657	0.872	0.807	0.814	0.817	0.736	0.821	0.836

Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									Auto-Tune	0	1	2	3	4	5
FR1 N66	20M/QPSK	354000	1770	1	1	Left Tilted	0mm	0.842	1.54	1.17	1.28	1.18	1.47	1.49	1.14

Body worn - UAT

Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									Auto-Tune	0	1	2	3	4	5
LTE Band 5-UAT	10M/QPSK	20525	836.5	1	0	Top Side	5mm	0.371	0.499	0.463	0.418	0.457	0.438	0.459	0.452

Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									Auto-Tune	0	1	2	3	4	5
LTE Band 2-UAT	20M/QPSK	18900	1880	1	0	Top Side	5mm	0.669	0.915	0.861	0.552	0.568	0.450	0.393	0.347

Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									Auto-Tune	0	1	2	3	4	5
LTE Band 66-UAT	20M/QPSK	132322	1745	1	0	Top Side	5mm	0.563	0.743	0.534	0.679	0.563	0.271	0.270	0.271

Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									Auto-Tune	0	1	2	3	4	5
FR1 n2	20M/QPSK	380000	1900	50	28	Top Side	5mm	0.731	1.30	1.03	1.25	1.22	1.27	1.23	1.21

Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									Auto-Tune	0	1	2	3	4	5
FR1 n5	20M/QPSK	167300	836.5	1	1	Top Side	5mm	0.408	0.752	0.276	0.457	0.736	0.359	0.475	0.354

Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									Auto-Tune	0	1	2	3	4	5
FR1 n66	20M/QPSK	354000	1770	50	28	Top Side	5mm	0.742	1.30	0.956	0.856	0.962	1.21	1.18	1.12