

Appendix E

Conducted RF Output Power Table

Measurement of RF Conducted Power
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Measurement of RF Conducted Power

1 Conducted Power of Main Antenna(Ant1)

1.1 Conducted Power of GSM

GSM 850										
Burst Output Power(dBm)				Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up	
Channel		128	190			251	128	190		251
GSM(GMSK)	GSM	32.85	32.94	32.91	34.00	-9.19	23.66	23.75	23.72	24.81
GPRS/EGPRS (GMSK)	1 TX Slot	32.88	32.92	32.93	34.00	-9.19	23.69	23.73	23.74	24.81
	2 TX Slots	29.67	29.76	29.70	31.00	-6.18	23.49	23.58	23.52	24.82
	3 TX Slots	27.73	27.78	27.76	29.20	-4.42	23.31	23.36	23.34	24.78
	4 TX Slots	26.14	26.26	26.16	28.00	-3.17	22.97	23.09	22.99	24.83
EGPRS(8PSK)	1 TX Slot	26.93	26.88	27.05	28.50	-9.19	17.74	17.69	17.86	19.31
	2 TX Slots	23.67	23.64	23.66	25.50	-6.18	17.49	17.46	17.48	19.32
	3 TX Slots	21.73	21.74	21.79	23.70	-4.42	17.31	17.32	17.37	19.28
	4 TX Slots	20.64	20.51	20.53	22.50	-3.17	17.47	17.34	17.36	19.33

1.2 Conducted Power of WCDMA

WCDMA Band V Full power					
Average Conducted Power(dBm)					
Channel		4132	4182	4233	Tune up
WCDMA	12.2kbps RMC	23.92	23.92	24.06	25.50
	12.2kbps AMR	23.90	23.89	24.01	25.50
	Subtest 1	23.19	23.16	23.16	24.50
HSDPA	Subtest 2	23.18	23.17	23.14	24.50
	Subtest 3	22.66	22.74	22.64	23.50
	Subtest 4	22.66	22.72	22.60	23.50
	Subtest 1	21.12	21.17	21.07	22.50
HSUPA	Subtest 2	21.18	21.19	21.00	22.50
	Subtest 3	22.18	22.16	22.10	23.50
	Subtest 4	20.60	20.69	20.54	21.50
	Subtest 5	22.18	22.12	22.06	22.50

WCDMA Band V Sensor on&Hotspot on					
Average Conducted Power(dBm)					
Channel		4132	4182	4233	Tune up
WCDMA	12.2kbps RMC	22.97	23.13	23.11	24.50
	12.2kbps AMR	22.86	23.05	22.98	24.50
	Subtest 1	22.15	22.18	22.05	23.50
HSDPA	Subtest 2	22.13	22.13	22.10	23.50
	Subtest 3	21.66	21.67	21.64	22.50
	Subtest 4	21.61	21.64	21.59	22.50
	Subtest 1	20.08	20.10	20.06	21.50
HSUPA	Subtest 2	20.13	20.09	20.08	21.50
	Subtest 3	21.17	21.18	21.08	22.50
	Subtest 4	19.64	19.69	19.52	20.50
	Subtest 5	21.06	21.20	21.07	21.50

1.3 Conducted Power of LTE

LTE Band 5 Full power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20407	20525	20643	
1.4MHz	QPSK	1	0	24.06	24.00	23.85	25.50
		1	2	23.77	23.85	23.75	25.50
		1	5	23.81	24.10	23.76	25.50
		3	0	23.88	23.98	23.95	25.50
		3	2	23.82	23.89	23.95	25.50
		3	3	23.91	23.85	24.00	25.50
	16QAM	6	0	22.80	22.85	22.88	24.50
		1	0	23.01	23.19	22.95	24.50
		1	2	22.95	23.46	23.38	24.50
		1	5	22.94	22.77	23.31	24.50
		3	0	22.96	22.99	22.94	24.50
		3	2	22.74	22.98	22.88	24.50
	64QAM	3	3	22.77	22.85	22.86	24.50
		6	0	21.87	22.04	21.82	23.50
		1	0	21.95	21.90	21.83	23.50
		1	2	21.70	21.74	21.63	23.50
		1	5	21.78	21.98	21.72	23.50
		3	0	21.84	21.94	21.89	23.50
3MHz	QPSK	3	2	21.81	21.87	21.86	23.50
		3	3	21.90	21.84	21.99	23.50
		6	0	20.75	20.82	20.77	22.50
		1	0	23.75	23.87	23.82	25.50
		1	7	23.84	23.92	23.79	25.50
		1	14	23.82	23.9	23.87	25.50
	16QAM	8	0	22.84	22.82	22.88	24.50
		8	4	22.83	22.88	22.86	24.50
		8	7	22.82	22.89	22.91	24.50
		15	0	22.83	22.92	22.88	24.50
		1	0	22.95	23.13	22.84	24.50
		1	7	23.11	23.48	22.75	24.50
64QAM	1	14	22.69	23.32	23.48	24.50	
	8	0	21.87	21.98	21.88	23.50	
	8	4	21.92	22.05	22.02	23.50	
	8	7	21.86	21.89	21.89	23.50	
	15	0	21.85	21.92	22.01	23.50	
	1	0	21.70	21.85	21.81	23.50	
5MHz	QPSK	1	7	21.80	21.82	21.67	23.50
		1	14	21.73	21.82	21.86	23.50
		8	0	20.79	20.76	20.78	22.50
		8	4	20.80	20.87	20.81	22.50
		8	7	20.78	20.88	20.79	22.50
		15	0	20.76	20.80	20.82	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
5MHz	QPSK	1	0	20425	20525	20625	25.50
				23.85	23.99	23.88	25.50

		1	13	23.82	23.83	23.79	25.50
		1	24	24.09	23.84	23.95	25.50
		12	0	22.9	22.93	22.96	24.50
		12	6	22.88	22.94	22.91	24.50
		12	13	22.86	22.88	22.87	24.50
		25	0	22.8	22.94	22.93	24.50
		25	0	22.8	22.94	22.93	24.50
	16QAM	1	0	22.74	23.01	23.27	24.50
		1	13	23.22	23.06	22.71	24.50
		1	24	23.18	23.4	23.48	24.50
		12	0	21.89	21.83	21.95	23.50
		12	6	21.88	21.8	21.97	23.50
		12	13	21.77	21.78	21.84	23.50
		25	0	21.85	21.88	21.86	23.50
	64QAM	1	0	21.79	21.92	21.80	23.50
		1	13	21.71	21.74	21.69	23.50
		1	24	22.00	21.73	21.85	23.50
		12	0	20.84	20.92	20.94	22.50
		12	6	20.76	20.85	20.80	22.50
		12	13	20.75	20.80	20.82	22.50
		25	0	20.78	20.91	20.89	22.50
Bandwidth	Modulation	RB size	RB offset	Channel 20450	Channel 20525	Channel 20600	Tune up
10MHz	QPSK	1	0	23.76	24.14	23.91	25.50
		1	25	23.87	24.14	24.02	25.50
		1	49	23.99	23.95	23.92	25.50
		25	0	22.95	22.96	22.88	24.50
		25	13	22.88	22.95	22.89	24.50
		25	25	22.92	22.95	22.90	24.50
		50	0	22.86	22.96	22.93	24.50
	16QAM	1	0	23.42	23.40	23.13	24.50
		1	25	23.14	23.46	22.81	24.50
		1	49	23.27	22.79	23.45	24.50
		25	0	21.94	21.84	21.91	23.50
		25	13	21.96	21.98	21.93	23.50
		25	25	21.89	21.90	21.94	23.50
		50	0	21.87	21.99	21.91	23.50
	64QAM	1	0	21.66	22.09	21.90	23.50
		1	25	21.80	22.04	21.93	23.50
		1	49	21.94	21.85	21.86	23.50
		25	0	20.88	20.91	20.85	22.50
		25	13	20.82	20.89	20.88	22.50
		25	25	20.85	20.94	20.83	22.50
		50	0	20.74	20.88	20.92	22.50

LTE Band 5 Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20407	Channel 20525	Channel 20643	Tune up
1.4MHz	QPSK	1	0	22.17	22.25	22.27	23.50
		1	2	22.38	22.16	22.11	23.50
		1	5	22.19	22.14	22.18	23.50
		3	0	22.18	22.15	22.11	23.50
		3	2	22.13	22.20	22.14	23.50

	16QAM	3	3	22.13	22.16	22.19	23.50
		6	0	22.17	22.26	22.18	23.50
		1	0	22.13	22.07	22.12	23.50
		1	2	22.09	22.07	22.17	23.50
		1	5	22.16	22.10	22.08	23.50
		3	0	22.24	22.22	22.22	23.50
	64QAM	3	2	22.23	22.21	22.24	23.50
		3	3	22.24	22.24	22.21	23.50
		6	0	21.87	22.04	21.82	23.50
		1	0	21.95	21.90	21.83	23.50
		1	2	21.70	21.74	21.63	23.50
		1	5	21.78	21.98	21.72	23.50
		3	0	21.84	21.94	21.89	23.50
		3	2	21.81	21.87	21.86	23.50
3MHz	QPSK	3	3	21.90	21.84	21.99	23.50
		6	0	20.75	20.82	20.77	22.50
		1	0	22.33	22.26	22.27	23.50
		1	7	22.15	22.19	22.07	23.50
		1	14	22.27	22.29	22.16	23.50
		8	0	22.22	22.24	22.13	23.50
		8	4	22.22	22.16	22.17	23.50
	16QAM	8	7	22.22	22.22	22.09	23.50
		15	0	22.25	22.34	22.13	23.50
		1	0	22.19	22.11	22.13	23.50
		1	7	22.12	22.16	22.09	23.50
		1	14	22.16	22.17	22.14	23.50
		8	0	21.87	21.98	21.88	23.50
		8	4	21.92	22.05	22.02	23.50
64QAM	8	7	21.86	21.89	21.89	23.50	
	15	0	21.85	21.92	22.01	23.50	
	1	0	21.70	21.85	21.81	23.50	
	1	7	21.80	21.82	21.67	23.50	
	1	14	21.73	21.82	21.86	23.50	
	8	0	20.79	20.76	20.78	22.50	
	8	4	20.80	20.87	20.81	22.50	
5MHz	QPSK	8	7	20.78	20.88	20.79	22.50
		15	0	20.76	20.80	20.82	22.50
		1	0	22.15	22.16	22.17	23.50
		1	13	22.32	22.32	22.00	23.50
		1	24	22.40	22.40	22.19	23.50
		12	0	22.25	22.19	22.09	23.50
		12	6	22.27	22.16	22.10	23.50
	16QAM	12	13	22.22	22.22	22.03	23.50
		25	0	22.32	22.33	22.28	23.50
		1	0	22.17	22.18	22.17	23.50
		1	13	22.19	22.20	21.93	23.50
		1	24	22.16	22.15	22.13	23.50
		12	0	22.39	22.29	22.24	23.50
		12	6	22.02	22.27	22.26	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20415	20525	20635	
		12	13	22.23	22.13	22.15	23.50

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				20450	20525	20600		
10MHz	64QAM	25	0	22.30	22.21	22.29	23.50	
		1	0	21.79	21.92	21.80	23.50	
		1	13	21.71	21.74	21.69	23.50	
		1	24	22.00	21.73	21.85	23.50	
		12	0	20.84	20.92	20.94	22.50	
		12	6	20.76	20.85	20.80	22.50	
		12	13	20.75	20.80	20.82	22.50	
		25	0	20.78	20.91	20.89	22.50	
	10MHz	QPSK	1	0	22.25	22.23	22.21	23.50
			1	25	22.22	22.40	22.08	23.50
			1	49	22.35	22.30	22.24	23.50
			25	0	22.22	22.22	22.19	23.50
			25	13	22.19	22.22	22.17	23.50
			25	25	22.22	22.22	22.10	23.50
			50	0	22.25	22.28	22.22	23.50
		16QAM	1	0	22.14	22.11	22.19	23.50
			1	25	22.10	22.19	22.00	23.50
			1	49	22.18	22.11	22.13	23.50
			25	0	21.94	21.84	21.91	23.50
			25	13	21.96	21.98	21.93	23.50
			25	25	21.89	21.90	21.94	23.50
			50	0	21.87	21.99	21.91	23.50
		64QAM	1	0	21.66	22.09	21.90	23.50
			1	25	21.80	22.04	21.93	23.50
			1	49	21.94	21.85	21.86	23.50
			25	0	20.88	20.91	20.85	22.50
			25	13	20.82	20.89	20.88	22.50
			25	25	20.85	20.94	20.83	22.50
50			0	20.74	20.88	20.92	22.50	

LTE Band 12				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				23017	23095	23173	
1.4MHz	QPSK	1	0	24	23.75	24.1	25.50
		1	2	23.95	23.72	23.79	25.50
		1	5	24	23.88	23.73	25.50
		3	0	24	23.89	23.86	25.50
		3	2	23.89	23.84	23.94	25.50
		3	3	23.98	23.87	23.91	25.50
		6	0	23	22.81	22.86	24.50
	16QAM	1	0	23.22	23.56	23.1	24.50
		1	2	22.91	23.31	23.06	24.50
		1	5	23.23	23	23.59	24.50
		3	0	22.75	22.99	22.71	24.50
		3	2	22.8	22.72	22.67	24.50
		3	3	22.87	22.69	22.86	24.50
		6	0	21.93	21.96	21.98	23.50
	64QAM	1	0	21.91	21.65	22.07	23.50
		1	2	21.85	21.66	21.70	23.50
		1	5	21.98	21.79	21.70	23.50



		3	0	21.97	21.80	21.83	23.50	
		3	2	21.79	21.77	21.86	23.50	
		3	3	21.97	21.75	21.86	23.50	
		6	0	20.96	20.70	20.80	22.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				23025	23095	23165		
3MHz	QPSK	1	0	23.94	23.92	23.85	25.50	
		1	7	23.88	23.87	23.81	25.50	
		1	14	24	23.92	23.92	25.50	
		8	0	22.82	22.78	22.95	24.50	
		8	4	22.97	22.79	22.76	24.50	
		8	7	22.87	22.86	22.87	24.50	
	16QAM	15	0	22.93	22.89	22.91	24.50	
		1	0	23.55	22.74	23.61	24.50	
		1	7	23.53	23.17	23.61	24.50	
		1	14	23.69	23.16	23.14	24.50	
		8	0	22.01	21.82	22.04	23.50	
		8	4	22.04	21.96	21.8	23.50	
	64QAM	8	7	22.09	21.89	21.9	23.50	
		15	0	21.88	21.88	21.94	23.50	
		1	0	21.83	21.88	21.74	23.50	
		1	7	21.85	21.85	21.73	23.50	
		1	14	21.89	21.84	21.91	23.50	
		8	0	20.72	20.69	20.91	22.50	
		8	4	20.87	20.70	20.70	22.50	
		8	7	20.86	20.75	20.82	22.50	
		15	0	20.90	20.77	20.79	22.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				23035	23095	23155		
5MHz	QPSK	1	0	23.99	24.01	23.91	25.50	
		1	13	24.03	23.98	23.83	25.50	
		1	24	23.9	23.89	23.97	25.50	
		12	0	22.9	22.96	22.88	24.50	
		12	6	22.94	22.92	22.85	24.50	
		12	13	22.98	22.83	22.83	24.50	
	16QAM	25	0	22.97	22.87	22.91	24.50	
		1	0	23.32	23.12	22.83	24.50	
		1	13	23.62	22.7	22.78	24.50	
		1	24	23.29	23.25	23.6	24.50	
		12	0	21.94	21.9	21.83	23.50	
		12	6	21.97	21.9	21.83	23.50	
	64QAM	12	13	21.96	21.79	21.81	23.50	
		25	0	22.02	21.86	21.83	23.50	
		1	0	21.98	21.90	21.80	23.50	
		1	13	22.01	21.92	21.82	23.50	
		1	24	21.84	21.82	21.87	23.50	
		12	0	20.84	20.91	20.83	22.50	
			12	6	20.83	20.91	20.76	22.50
			12	13	20.90	20.78	20.74	22.50
			25	0	20.92	20.78	20.82	22.50
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
					23060	23095	23130	
	10MHz	QPSK	1	0	24.01	23.91	23.93	25.50
1			25	23.95	24.09	23.91	25.50	

		1	49	24.08	24.06	24.07	25.50
		25	0	22.79	22.99	22.98	24.50
		25	13	22.94	22.91	22.97	24.50
		25	25	22.87	22.88	22.95	24.50
		50	0	22.91	22.92	22.99	24.50
	16QAM	1	0	23.11	23.57	23.05	24.50
		1	25	23.59	23.59	23.47	24.50
		1	49	23.48	23.76	22.85	24.50
		25	0	21.87	21.9	21.98	23.50
		25	13	21.89	21.98	21.85	23.50
		25	25	21.75	21.79	22.01	23.50
	64QAM	50	0	21.86	21.91	21.97	23.50
		1	0	21.99	21.86	21.85	23.50
		1	25	21.94	21.98	21.82	23.50
		1	49	22.00	22.01	21.98	23.50
		25	0	20.68	20.94	20.90	22.50
		25	13	20.83	20.83	20.93	22.50
			25	25	20.78	20.86	20.85
		50	0	20.87	20.91	20.90	22.50

LTE Band 13				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				23205	23230	23255	
5MHz	QPSK	1	0	23.92	23.88	23.94	25.50
		1	13	23.88	23.86	23.7	25.50
		1	24	23.81	23.76	23.76	25.50
		12	0	22.79	22.78	22.79	24.50
		12	6	22.88	22.78	22.79	24.50
		12	13	22.83	22.74	22.72	24.50
		25	0	22.8	22.79	22.76	24.50
	16QAM	1	0	23.09	23.31	23.42	24.50
		1	13	23.3	22.91	23.16	24.50
		1	24	22.74	23.03	22.69	24.50
		12	0	21.73	21.83	21.76	23.50
		12	6	21.71	21.77	21.73	23.50
		12	13	21.72	21.69	21.69	23.50
		25	0	21.72	21.75	21.74	23.50
	64QAM	1	0	21.80	21.78	21.93	23.50
		1	13	21.77	21.79	21.66	23.50
		1	24	21.80	21.66	21.72	23.50
		12	0	20.67	20.74	20.78	22.50
		12	6	20.83	20.76	20.75	22.50
		12	13	20.79	20.69	20.66	22.50
		25	0	20.71	20.69	20.68	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	23230	/	
10MHz	QPSK	1	0	/	23.76	/	25.50
		1	25	/	23.85	/	25.50
		1	49	/	23.83	/	25.50
		25	0	/	22.77	/	24.50
		25	13	/	22.77	/	24.50
		25	25	/	22.76	/	24.50



		50	0	/	22.78	/	24.50
	16QAM	1	0	/	23.31	/	24.50
		1	25	/	23.01	/	24.50
		1	49	/	22.81	/	24.50
		25	0	/	21.78	/	23.50
		25	13	/	21.87	/	23.50
		25	25	/	21.86	/	23.50
		50	0	/	21.73	/	23.50
	64QAM	1	0	/	21.67	/	23.50
		1	25	/	21.77	/	23.50
		1	49	/	21.82	/	23.50
		25	0	/	20.76	/	22.50
		25	13	/	20.72	/	22.50
		25	25	/	20.69	/	22.50
		50	0	/	20.68	/	22.50

LTE Band 17				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				23755	23790	23825		
5MHz	QPSK	1	0	23.96	23.83	23.9	25.50	
		1	13	23.91	23.91	23.92	25.50	
		1	24	23.92	24.04	24.03	25.50	
		12	0	22.92	22.92	22.87	24.50	
		12	6	22.9	22.9	22.87	24.50	
		12	13	22.83	22.88	22.81	24.50	
		25	0	22.85	22.9	22.76	24.50	
	16QAM	1	0	23.15	22.8	23.22	24.50	
		1	13	23.53	23.24	22.91	24.50	
		1	24	23.57	23.16	23.18	24.50	
		12	0	21.87	21.89	21.9	23.50	
		12	6	21.92	21.86	21.68	23.50	
		12	13	21.72	21.87	21.78	23.50	
		25	0	21.81	21.87	21.95	23.50	
	64QAM	1	0	21.93	21.78	21.87	23.50	
		1	13	21.82	21.87	21.91	23.50	
		1	24	21.85	21.93	21.99	23.50	
		12	0	20.83	20.90	20.80	22.50	
		12	6	20.88	20.81	20.75	22.50	
		12	13	20.78	20.82	20.76	22.50	
		25	0	20.73	20.83	20.75	22.50	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
	10MHz	QPSK	1	0	23.90	24.04	23.97	25.50
			1	25	23.96	24.05	24.00	25.50
1			49	24.01	23.94	23.94	25.50	
25			0	22.90	22.99	22.98	24.50	
25			13	22.92	22.91	22.94	24.50	
25			25	22.93	22.99	22.96	24.50	
50			0	23.02	22.95	23.03	24.50	
16QAM		1	0	23.53	23.05	22.92	24.50	
		1	25	23.18	23.19	23.66	24.50	
		1	49	22.97	23.25	23.60	24.50	

		25	0	21.87	21.99	21.88	23.50
		25	13	21.90	21.87	21.83	23.50
		25	25	21.90	21.85	21.96	23.50
		50	0	21.96	21.94	22.00	23.50
	64QAM	1	0	21.82	21.92	21.85	23.50
		1	25	21.90	21.97	21.89	23.50
		1	49	21.99	21.83	21.90	23.50
		25	0	20.83	20.89	20.88	22.50
		25	13	20.87	20.82	20.90	22.50
		25	25	20.91	20.92	20.88	22.50
		50	0	21.01	20.92	21.00	22.50

LTE Band 26				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				26697	26865	27033		
1.4MHz	QPSK	1	0	23.75	24.24	23.66	25.50	
		1	2	24	23.86	23.86	25.50	
		1	5	24.03	23.85	23.89	25.50	
		3	0	23.97	23.96	23.72	25.50	
		3	2	23.88	23.99	23.85	25.50	
		3	3	23.89	23.82	23.96	25.50	
		6	0	22.83	22.93	22.9	24.50	
	16QAM	1	0	22.69	22.88	22.79	24.50	
		1	2	23.28	23.14	23.56	24.50	
		1	5	23.15	23.13	23.07	24.50	
		3	0	22.81	22.92	22.81	24.50	
		3	2	22.82	22.95	22.84	24.50	
		3	3	22.93	22.92	22.65	24.50	
		6	0	21.89	21.85	21.94	23.50	
	64QAM	1	0	21.70	22.22	21.57	23.50	
		1	2	21.91	21.82	21.85	23.50	
		1	5	21.91	21.80	21.77	23.50	
		3	0	21.90	21.95	21.70	23.50	
		3	2	21.82	21.89	21.75	23.50	
		3	3	21.83	21.71	21.87	23.50	
		6	0	20.76	20.85	20.89	22.50	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
					26705	26865	27025	
	3MHz	QPSK	1	0	23.83	23.9	23.8	25.50
1			7	23.92	23.84	23.82	25.50	
1			14	23.79	24.15	23.83	25.50	
8			0	22.86	22.82	22.85	24.50	
8			4	22.85	22.89	22.85	24.50	
8			7	22.85	22.95	22.9	24.50	
15			0	22.78	22.92	22.88	24.50	
16QAM		1	0	22.84	23.13	23.42	24.50	
		1	7	23.1	23.13	23.38	24.50	
		1	14	22.92	22.99	23.55	24.50	
		8	0	21.94	21.96	21.92	23.50	
		8	4	21.88	22.01	21.8	23.50	
		8	7	21.9	21.98	21.94	23.50	
		15	0	21.78	21.88	21.99	23.50	



		1	0	21.77	21.79	21.77	23.50
		1	7	21.89	21.80	21.81	23.50
		1	14	21.75	22.11	21.71	23.50
	64QAM	8	0	20.80	20.79	20.82	22.50
		8	4	20.75	20.81	20.77	22.50
		8	7	20.82	20.86	20.81	22.50
		15	0	20.76	20.90	20.81	22.50
Bandwidth	Modulation	RB size	RB offset	Channel 26715	Channel 26865	Channel 27015	Tune up
5MHz	QPSK	1	0	23.87	23.87	23.95	25.50
		1	13	24.05	23.84	24	25.50
		1	24	23.95	23.92	23.94	25.50
		12	0	22.87	22.92	22.93	24.50
		12	6	22.89	22.95	22.87	24.50
		12	13	22.88	22.88	22.9	24.50
		25	0	22.92	22.93	22.93	24.50
	16QAM	1	0	23.01	23.39	23.14	24.50
		1	13	22.91	23.45	23.28	24.50
		1	24	23.35	23.2	23.36	24.50
		12	0	21.84	21.95	21.93	23.50
		12	6	21.8	21.79	21.88	23.50
		12	13	21.85	21.79	21.9	23.50
		25	0	21.98	21.92	21.88	23.50
	64QAM	1	0	21.77	21.83	21.86	23.50
		1	13	21.97	21.79	21.92	23.50
		1	24	21.88	21.84	21.87	23.50
		12	0	20.77	20.81	20.86	22.50
		12	6	20.86	20.93	20.83	22.50
		12	13	20.80	20.76	20.80	22.50
		25	0	20.83	20.84	20.88	22.50
Bandwidth	Modulation	RB size	RB offset	Channel 26750	Channel 26865	Channel 26990	Tune up
10MHz	QPSK	1	0	24.05	23.9	23.84	25.50
		1	25	23.83	24.05	23.94	25.50
		1	49	23.97	23.92	24.03	25.50
		25	0	22.77	22.96	22.97	24.50
		25	13	22.88	22.96	22.92	24.50
		25	25	22.87	22.94	22.88	24.50
		50	0	22.88	22.99	22.91	24.50
	16QAM	1	0	22.68	22.74	23.07	24.50
		1	25	23.38	23.49	22.97	24.50
		1	49	22.78	23.22	23.04	24.50
		25	0	21.82	21.92	21.92	23.50
		25	13	21.93	21.9	21.86	23.50
		25	25	21.79	21.96	21.81	23.50
		50	0	21.85	21.9	21.93	23.50
	64QAM	1	0	22.03	21.80	21.78	23.50
		1	25	21.74	21.97	21.90	23.50
		1	49	21.92	21.85	21.91	23.50
		25	0	20.67	20.87	20.85	22.50
		25	13	20.83	20.87	20.87	22.50
		25	25	20.80	20.90	20.76	22.50
		50	0	20.87	20.97	20.85	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up



				26775	26865	26965	
15MHz	QPSK	1	0	24.07	24.05	24.10	25.50
		1	38	23.76	24.16	23.69	25.50
		1	74	23.86	24.08	23.94	25.50
		36	0	22.76	22.92	22.81	24.50
		36	18	22.86	22.83	22.80	24.50
		36	39	22.83	22.91	22.87	24.50
		75	0	22.83	22.97	22.82	24.50
	16QAM	1	0	22.67	23.23	22.73	24.50
		1	38	22.70	23.20	23.40	24.50
		1	74	23.36	22.99	23.16	24.50
		36	0	21.81	21.87	21.76	23.50
		36	18	21.79	21.90	21.85	23.50
		36	39	21.84	21.88	21.90	23.50
		75	0	21.81	21.93	21.78	23.50
	64QAM	1	0	22.03	21.95	21.99	23.50
		1	38	21.69	22.05	21.59	23.50
		1	74	21.75	22.04	21.87	23.50
		36	0	20.73	20.81	20.77	22.50
		36	18	20.78	20.81	20.69	22.50
		36	39	20.72	20.89	20.77	22.50
		75	0	20.79	20.96	20.76	22.50

2 Conducted Power of Main Antenna(Ant2)

2.1 Conducted Power of GSM

GSM 1900										
Burst Output Power(dBm)				Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up	
Channel		512	661			810	512	661		810
GSM(GMSK)	GSM	29.92	29.93	29.82	31.00	-9.19	20.73	20.74	20.63	21.81
GPRS/EGPRS (GMSK)	1 TX Slot	29.97	29.95	29.87	31.00	-9.19	20.78	20.76	20.68	21.81
	2 TX Slots	26.77	26.73	26.66	28.00	-6.18	20.59	20.55	20.48	21.82
	3 TX Slots	24.78	24.74	24.66	26.20	-4.42	20.36	20.32	20.24	21.78
	4 TX Slots	24.33	24.36	24.24	25.00	-3.17	21.16	21.19	21.07	21.83
EGPRS(8PSK)	1 TX Slot	25.06	24.98	24.87	26.50	-9.19	15.87	15.79	15.68	17.31
	2 TX Slots	21.98	22.01	22.04	23.50	-6.18	15.8	15.83	15.86	17.32
	3 TX Slots	20.12	20.14	20.05	21.70	-4.42	15.7	15.72	15.63	17.28
	4 TX Slots	18.95	18.99	18.96	20.50	-3.17	15.78	15.82	15.79	17.33

2.2 Conducted Power of WCDMA

WCDMA Band II Full power					
Average Conducted Power(dBm)					
Channel		9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	23.64	23.60	23.63	25.50
	12.2kbps AMR	23.61	23.53	23.57	25.50
HSDPA	Subtest 1	23.17	23.26	23.34	24.50
	Subtest 2	23.18	23.30	23.29	24.50
	Subtest 3	22.72	22.81	22.84	23.50
	Subtest 4	22.63	22.78	22.76	23.50
HSUPA	Subtest 1	21.13	21.25	21.31	22.50
	Subtest 2	21.13	21.23	21.26	22.50
	Subtest 3	22.19	22.28	22.33	23.50
	Subtest 4	20.83	20.93	20.80	21.50
	Subtest 5	22.09	22.26	22.30	22.50

WCDMA Band II Hotspot on&Sensor on					
Average Conducted Power(dBm)					
Channel		9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	21.13	20.96	21.20	22.50
	12.2kbps AMR	21.10	20.94	21.16	22.50
HSDPA	Subtest 1	20.26	20.35	20.43	21.50
	Subtest 2	20.29	20.40	20.43	21.50
	Subtest 3	19.79	19.92	19.92	20.50
	Subtest 4	19.77	19.88	19.93	20.50
HSUPA	Subtest 1	18.22	18.32	18.31	19.50
	Subtest 2	18.23	18.34	18.37	19.50
	Subtest 3	19.22	19.40	19.41	20.50
	Subtest 4	17.75	17.86	17.86	18.50
	Subtest 5	19.18	19.26	19.37	19.50



WCDMA Band IV Full power					
Average Conducted Power(dBm)					
	Channel	1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	23.77	23.81	23.76	25.50
	12.2kbps AMR	23.72	23.78	23.69	25.50
HSDPA	Subtest 1	23.05	23.14	23.24	24.50
	Subtest 2	23.03	23.18	23.18	24.50
	Subtest 3	22.57	22.66	22.69	23.50
	Subtest 4	22.51	22.64	22.63	23.50
HSUPA	Subtest 1	20.99	21.10	21.20	22.50
	Subtest 2	21.01	21.08	21.11	22.50
	Subtest 3	22.08	22.13	22.22	23.50
	Subtest 4	20.73	20.81	20.70	21.50
	Subtest 5	21.98	22.12	22.16	22.50

WCDMA Band IV Hotspot on&Sensor on					
Average Conducted Power(dBm)					
	Channel	1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	21.63	21.61	21.61	23.50
	12.2kbps AMR	21.61	21.59	21.58	23.50
HSDPA	Subtest 1	21.11	21.24	21.29	22.50
	Subtest 2	21.17	21.27	21.28	22.50
	Subtest 3	20.64	20.77	20.78	21.50
	Subtest 4	20.62	20.78	20.78	21.50
HSUPA	Subtest 1	19.11	19.20	19.16	20.50
	Subtest 2	19.10	19.23	19.27	20.50
	Subtest 3	20.07	20.30	20.30	21.50
	Subtest 4	18.61	18.72	18.73	19.50
	Subtest 5	20.03	20.12	20.25	20.50

2.3 Conducted Power of LTE

LTE Band 2 Full power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18607	18900	19193	
1.4MHz	QPSK	1	0	23.85	23.79	23.86	25.50
		1	2	23.86	23.77	23.88	25.50
		1	5	23.67	23.97	23.77	25.50
		3	0	23.73	24	24.05	25.50
		3	2	23.9	23.75	24.09	25.50
		3	3	23.77	23.8	23.92	25.50
	16QAM	6	0	22.87	22.83	22.94	24.50
		1	0	22.83	22.95	22.99	24.50
		1	2	23	22.87	23.02	24.50
		1	5	23.24	22.88	23.23	24.50
		3	0	22.89	22.87	22.94	24.50
		3	2	22.8	22.71	22.98	24.50
	64QAM	3	3	22.82	22.73	22.89	24.50
		6	0	21.96	21.92	22.04	23.50
		1	0	21.83	21.69	21.76	23.50
		1	2	21.81	21.67	21.80	23.50
		1	5	21.60	21.92	21.76	23.50
		3	0	21.71	21.97	21.93	23.50
3MHz	QPSK	3	2	21.78	21.67	22.01	23.50
		3	3	21.71	21.76	21.89	23.50
		6	0	20.81	20.76	20.89	22.50
		1	0	23.79	23.74	23.77	25.50
		1	7	23.73	24.04	23.84	25.50
		1	14	23.84	23.94	23.78	25.50
3MHz	QPSK	8	0	22.89	22.77	22.99	24.50
		8	4	22.9	22.83	22.97	24.50
		8	7	22.71	22.74	22.68	24.50
		15	0	22.79	22.74	22.94	24.50
		1	0	23.11	22.86	22.91	24.50
		1	7	22.87	22.87	23.15	24.50
	16QAM	1	14	23.2	23.05	23.21	24.50
		8	0	21.82	21.73	21.86	23.50
		8	4	21.87	21.78	21.78	23.50
		8	7	21.73	21.67	21.65	23.50
		15	0	21.75	21.86	21.94	23.50
		1	0	21.75	21.73	21.70	23.50
	16QAM	1	7	21.67	22.00	21.74	23.50
		1	14	21.76	21.86	21.74	23.50
		8	0	20.86	20.75	20.94	22.50
		8	4	20.86	20.74	20.92	22.50
		8	7	20.62	20.71	20.61	22.50
		15	0	20.72	20.69	20.90	22.50
5MHz	QPSK	1	0	23.73	23.78	23.8	25.50



		1	13	23.72	24.07	23.8	25.50
		1	24	23.8	23.77	23.81	25.50
		12	0	22.88	22.72	23.04	24.50
		12	6	22.74	22.75	22.91	24.50
		12	13	22.79	22.82	22.75	24.50
		25	0	22.87	22.83	22.82	24.50
		1	0	23.03	22.93	22.99	24.50
	16QAM	1	13	22.91	22.74	23.14	24.50
		1	24	23.27	23.09	23.21	24.50
		12	0	21.86	21.84	21.84	23.50
		12	6	21.91	21.84	21.88	23.50
		12	13	21.72	21.73	21.7	23.50
		25	0	21.82	21.88	21.93	23.50
	16QAM	1	0	21.67	21.73	21.76	23.50
		1	13	21.70	21.98	21.70	23.50
		1	24	21.76	21.74	21.74	23.50
		12	0	20.81	20.66	21.03	22.50
		12	6	20.65	20.70	20.79	22.50
		12	13	20.78	20.79	20.74	22.50
	25	0	20.75	20.81	20.70	22.50	
	Bandwidth	Modulation	RB size	RB offset	Channel 18650	Channel 18900	Channel 19150
10MHz	QPSK	1	0	23.87	23.7	23.77	25.50
		1	25	23.71	23.91	24	25.50
		1	49	23.85	23.75	23.78	25.50
		25	0	22.84	22.68	22.99	24.50
		25	13	22.87	22.81	23	24.50
		25	25	22.86	22.81	22.81	24.50
		50	0	22.72	22.71	22.81	24.50
	16QAM	1	0	23.14	22.91	23.01	24.50
		1	25	22.92	22.75	23.15	24.50
		1	49	23.32	23.11	23.18	24.50
		25	0	21.84	21.88	22.01	23.50
		25	13	21.84	21.77	21.86	23.50
		25	25	21.85	21.75	21.74	23.50
		50	0	21.8	21.78	21.87	23.50
	64QAM	1	0	21.75	21.66	21.74	23.50
		1	25	21.59	21.82	21.94	23.50
		1	49	21.82	21.73	21.69	23.50
		25	0	20.82	20.63	20.90	22.50
		25	13	20.82	20.75	20.96	22.50
		25	25	20.78	20.72	20.74	22.50
		50	0	20.67	20.61	20.80	22.50
Bandwidth	Modulation	RB size	RB offset	Channel 18675	Channel 18900	Channel 19125	Tune up
15MHz	QPSK	1	0	23.89	23.83	23.83	25.50
		1	38	23.82	24.08	23.83	25.50
		1	74	23.78	23.9	23.82	25.50
		36	0	22.9	22.69	22.96	24.50
		36	18	22.93	22.86	22.83	24.50
		36	39	22.79	22.84	22.71	24.50
		75	0	22.89	22.79	22.94	24.50
	16QAM	1	0	23.08	22.84	22.84	24.50
		1	38	22.74	22.74	23.11	24.50

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				18700	18900	19100		
20MHz	64QAM	1	74	23.31	23.01	23.21	24.50	
		36	0	21.79	21.86	21.9	23.50	
		36	18	21.81	21.75	21.94	23.50	
		36	39	21.76	21.74	21.77	23.50	
		75	0	21.9	21.84	21.8	23.50	
	QPSK	1	0	21.85	21.78	21.74	23.50	
		1	38	21.72	21.97	21.77	23.50	
		1	74	21.70	21.88	21.74	23.50	
		36	0	20.83	20.57	20.94	22.50	
		36	18	20.87	20.85	20.74	22.50	
		36	39	20.70	20.74	20.60	22.50	
		75	0	20.79	20.70	20.91	22.50	
		16QAM	1	0	23.07	22.88	22.91	24.50
			1	50	22.84	22.77	23.14	24.50
1	99		23.26	23.1	23.23	24.50		
50	0		21.79	21.81	21.94	23.50		
50	25		21.83	21.79	21.87	23.50		
50	50		21.78	21.75	21.75	23.50		
100	0		21.81	21.8	21.86	23.50		
64QAM	1		0	21.71	21.68	21.72	23.50	
	1		50	21.65	21.93	21.84	23.50	
	1		99	21.67	21.82	21.76	23.50	
	50		0	20.76	20.67	20.87	22.50	
	50		25	20.80	20.73	20.89	22.50	
	50		50	20.76	20.74	20.67	22.50	
	100		0	20.76	20.71	20.81	22.50	

LTE Band 2 Sensor on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18607	18900	19193	
1.4MHz	QPSK	1	0	21.51	21.6	21.78	22.50
		1	2	21.61	21.66	21.76	22.50
		1	5	21.51	21.66	21.78	22.50
		3	0	21.55	21.59	21.82	22.50
		3	2	21.56	21.62	21.83	22.50
		3	3	21.55	21.65	21.79	22.50
		6	0	21.57	21.5	21.82	22.50
	16QAM	1	0	21.73	21.76	22.06	22.50
		1	2	21.81	21.79	22.03	22.50
		1	5	21.67	21.74	21.95	22.50
		3	0	21.64	21.52	21.83	22.50
		3	2	21.63	21.53	21.85	22.50
		3	3	21.6	21.66	21.83	22.50

		6	0	21.64	21.64	22.05	22.50
	64QAM	1	0	21.44	21.52	21.75	22.50
		1	2	21.50	21.63	21.65	22.50
		1	5	21.49	21.59	21.71	22.50
		3	0	21.44	21.49	21.75	22.50
		3	2	21.45	21.59	21.78	22.50
		3	3	21.54	21.61	21.68	22.50
		6	0	21.56	21.49	21.78	22.50
Bandwidth	Modulation	RB size	RB offset	Channel 18615	Channel 18900	Channel 19185	Tune up
3MHz	QPSK	1	0	21.61	21.81	21.55	22.50
		1	7	21.65	21.64	21.76	22.50
		1	14	21.89	21.6	21.82	22.50
		8	0	21.53	21.71	21.67	22.50
		8	4	21.55	21.51	21.63	22.50
		8	7	21.66	21.62	21.74	22.50
		15	0	21.64	21.84	21.62	22.50
	16QAM	1	0	21.89	21.72	21.71	22.50
		1	7	21.8	21.84	21.99	22.50
		1	14	21.62	21.56	21.93	22.50
		8	0	21.6	21.82	21.52	22.50
		8	4	21.88	21.67	21.67	22.50
		8	7	21.77	21.79	21.87	22.50
		15	0	21.61	21.5	21.84	22.50
	16QAM	1	0	21.56	21.79	21.48	22.50
		1	7	21.62	21.52	21.74	22.50
		1	14	21.84	21.59	21.74	22.50
		8	0	21.44	21.66	21.66	22.50
		8	4	21.46	21.50	21.62	22.50
		8	7	21.64	21.54	21.72	22.50
		15	0	21.63	21.72	21.54	22.50
Bandwidth	Modulation	RB size	RB offset	Channel 18625	Channel 18900	Channel 19175	Tune up
5MHz	QPSK	1	0	21.66	21.6	21.55	22.50
		1	13	21.51	21.6	21.71	22.50
		1	24	21.8	21.83	21.67	22.50
		12	0	21.71	21.81	21.68	22.50
		12	6	21.64	21.61	21.69	22.50
		12	13	21.63	21.66	21.63	22.50
		25	0	21.66	21.87	21.61	22.50
	16QAM	1	0	21.76	21.84	21.74	22.50
		1	13	21.88	21.79	21.8	22.50
		1	24	21.73	21.56	22.02	22.50
		12	0	21.6	21.85	21.5	22.50
		12	6	21.75	21.73	21.62	22.50
		12	13	21.77	21.71	21.75	22.50
		25	0	21.72	21.45	22	22.50
	16QAM	1	0	21.64	21.50	21.53	22.50
		1	13	21.49	21.52	21.64	22.50
		1	24	21.72	21.72	21.61	22.50
		12	0	21.59	21.73	21.67	22.50
		12	6	21.54	21.52	21.57	22.50
		12	13	21.55	21.62	21.56	22.50
		25	0	21.63	21.83	21.56	22.50



Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18650	18900	19150	
10MHz	QPSK	1	0	21.61	21.62	21.77	22.50
		1	25	21.64	21.58	21.76	22.50
		1	49	21.7	21.7	21.68	22.50
		25	0	21.55	21.69	21.63	22.50
		25	13	21.77	21.6	21.64	22.50
		25	25	21.71	21.63	21.78	22.50
		50	0	21.52	21.85	21.56	22.50
	16QAM	1	0	21.73	21.68	21.62	22.50
		1	25	21.94	21.63	21.94	22.50
		1	49	21.65	21.52	22.08	22.50
		25	0	21.45	21.79	21.46	22.50
		25	13	21.7	21.66	21.56	22.50
		25	25	21.85	21.51	21.85	22.50
		50	0	21.61	21.51	22.07	22.50
	64QAM	1	0	21.59	21.55	21.66	22.50
		1	25	21.56	21.51	21.74	22.50
		1	49	21.66	21.69	21.63	22.50
		25	0	21.52	21.65	21.55	22.50
		25	13	21.66	21.58	21.60	22.50
		25	25	21.67	21.61	21.69	22.50
		50	0	21.46	21.76	21.46	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	QPSK	1	0	21.67	21.6	21.74	22.50
		1	38	21.65	21.63	21.63	22.50
		1	74	21.64	21.8	21.88	22.50
		36	0	21.8	21.59	21.64	22.50
		36	18	21.64	21.67	21.54	22.50
		36	39	21.64	21.61	21.55	22.50
		75	0	21.51	21.74	21.82	22.50
	16QAM	1	0	21.79	21.64	21.66	22.50
		1	38	21.81	21.67	21.94	22.50
		1	74	21.86	21.57	21.98	22.50
		36	0	21.45	21.72	21.75	22.50
		36	18	21.74	21.62	21.54	22.50
		36	39	21.8	21.58	21.83	22.50
		75	0	21.81	21.5	21.89	22.50
	64QAM	1	0	21.56	21.53	21.69	22.50
		1	38	21.64	21.52	21.61	22.50
		1	74	21.61	21.75	21.83	22.50
		36	0	21.79	21.54	21.52	22.50
		36	18	21.53	21.59	21.53	22.50
		36	39	21.58	21.58	21.50	22.50
		75	0	21.43	21.65	21.75	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	QPSK	1	0	21.55	21.71	21.68	22.50
		1	50	21.58	21.81	21.67	22.50
		1	99	21.74	21.71	21.75	22.50
		50	0	21.66	21.71	21.65	22.50
		50	25	21.62	21.52	21.66	22.50
		50	50	21.56	21.51	21.64	22.50
		50	50	21.56	21.51	21.64	22.50



	16QAM	100	0	21.61	21.74	21.69	22.50
		1	0	21.79	21.77	21.69	22.50
		1	50	21.83	21.74	21.92	22.50
		1	99	21.72	21.65	22.05	22.50
		50	0	21.59	21.63	21.57	22.50
		50	25	21.76	21.75	21.64	22.50
		50	50	21.73	21.63	21.88	22.50
		100	0	21.64	21.56	21.98	22.50
	64QAM	1	0	21.53	21.69	21.57	22.50
		1	50	21.51	21.48	21.66	22.50
		1	99	21.68	21.61	21.73	22.50
		50	0	21.60	21.67	21.55	22.50
		50	25	21.59	21.51	21.58	22.50
		50	50	21.48	21.40	21.54	22.50
		100	0	21.53	21.67	21.58	22.50

LTE Band 2 Hotspot on				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				18607	18900	19193		
1.4MHz	QPSK	1	0	19.57	19.61	19.73	20.50	
		1	2	19.57	19.62	19.76	20.50	
		1	5	19.56	19.64	19.72	20.50	
		3	0	19.59	19.66	19.79	20.50	
		3	2	19.58	19.63	19.79	20.50	
		3	3	19.62	19.63	19.8	20.50	
		6	0	19.63	19.68	19.82	20.50	
	16QAM	1	0	19.86	19.85	19.97	20.50	
		1	2	19.89	20.03	20.06	20.50	
		1	5	19.89	19.95	20	20.50	
		3	0	19.64	19.66	19.82	20.50	
		3	2	19.65	19.7	19.82	20.50	
		3	3	19.64	19.65	19.79	20.50	
		6	0	19.73	19.75	19.86	20.50	
	64QAM	1	0	19.49	19.59	19.63	20.50	
		1	2	19.52	19.55	19.73	20.50	
		1	5	19.55	19.55	19.62	20.50	
		3	0	19.48	19.55	19.67	20.50	
		3	2	19.47	19.53	19.67	20.50	
		3	3	19.61	19.62	19.70	20.50	
		6	0	19.59	19.64	19.77	20.50	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
	3MHz	QPSK			18615	18900	19185	
			1	0	19.52	19.58	19.56	20.50
1			7	19.62	19.65	19.55	20.50	
1			14	19.55	19.53	19.69	20.50	
8			0	19.6	19.55	19.71	20.50	
8			4	19.62	19.67	19.68	20.50	
8			7	19.58	19.59	19.58	20.50	
15		0	19.62	19.62	19.72	20.50		
16QAM		1	0	19.83	19.92	19.84	20.50	
		1	7	19.77	19.95	19.84	20.50	
	1	14	19.84	19.77	19.99	20.50		

		8	0	19.63	19.62	19.73	20.50	
		8	4	19.6	19.66	19.7	20.50	
		8	7	19.6	19.66	19.61	20.50	
		15	0	19.65	19.54	19.69	20.50	
	16QAM	1	0	19.42	19.47	19.47	20.50	
		1	7	19.54	19.54	19.52	20.50	
		1	14	19.45	19.46	19.61	20.50	
		8	0	19.51	19.54	19.65	20.50	
		8	4	19.53	19.58	19.56	20.50	
		8	7	19.49	19.49	19.57	20.50	
15	0	19.58	19.58	19.62	20.50			
Bandwidth	Modulation	RB size	RB offset	Channel 18625	Channel 18900	Channel 19175	Tune up	
5MHz	QPSK	1	0	19.54	19.57	19.57	20.50	
		1	13	19.59	19.64	19.59	20.50	
		1	24	19.54	19.54	19.69	20.50	
		12	0	19.63	19.59	19.7	20.50	
		12	6	19.67	19.67	19.69	20.50	
		12	13	19.61	19.61	19.61	20.50	
	16QAM	25	0	19.63	19.6	19.71	20.50	
		1	0	19.83	19.96	19.88	20.50	
		1	13	19.82	19.95	19.81	20.50	
		1	24	19.85	19.76	19.96	20.50	
		12	0	19.64	19.59	19.75	20.50	
		12	6	19.64	19.61	19.73	20.50	
	16QAM	12	13	19.54	19.61	19.58	20.50	
		25	0	19.61	19.57	19.72	20.50	
		1	0	19.51	19.50	19.53	20.50	
		1	13	19.47	19.56	19.56	20.50	
		1	24	19.43	19.51	19.63	20.50	
		12	0	19.62	19.48	19.62	20.50	
16QAM	12	6	19.57	19.62	19.66	20.50		
	12	13	19.54	19.60	19.56	20.50		
	25	0	19.57	19.50	19.68	20.50		
	Bandwidth	Modulation	RB size	RB offset	Channel 18650	Channel 18900	Channel 19150	Tune up
	10MHz	QPSK	1	0	19.6	19.68	19.64	20.50
			1	25	19.7	19.69	19.79	20.50
1			49	19.59	19.66	19.78	20.50	
25			0	19.6	19.66	19.8	20.50	
25			13	19.63	19.69	19.77	20.50	
25			25	19.62	19.68	19.82	20.50	
16QAM		50	0	19.64	19.67	19.84	20.50	
		1	0	19.89	20.03	19.89	20.50	
		1	25	19.94	19.97	20.07	20.50	
		1	49	19.89	19.91	20.06	20.50	
		25	0	19.66	19.68	19.85	20.50	
		25	13	19.66	19.7	19.78	20.50	
64QAM		25	25	19.65	19.72	19.84	20.50	
		50	0	19.64	19.66	19.87	20.50	
		1	0	19.52	19.62	19.52	20.50	
		1	25	19.66	19.64	19.77	20.50	
		1	49	19.57	19.61	19.77	20.50	
		25	0	19.59	19.64	19.79	20.50	



Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18675	18900	19125	
		25	13	19.58	19.65	19.74	20.50
		25	25	19.51	19.57	19.78	20.50
		50	0	19.63	19.61	19.78	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	QPSK	1	0	19.56	19.6	19.59	20.50
		1	38	19.57	19.67	19.69	20.50
		1	74	19.52	19.58	19.75	20.50
		36	0	19.63	19.65	19.74	20.50
		36	18	19.6	19.63	19.73	20.50
		36	39	19.59	19.64	19.7	20.50
		75	0	19.61	19.68	19.77	20.50
	16QAM	1	0	19.84	19.93	19.93	20.50
		1	38	19.86	19.93	20.02	20.50
		1	74	19.88	19.87	20.01	20.50
		36	0	19.68	19.7	19.76	20.50
		36	18	19.64	19.67	19.76	20.50
		36	39	19.61	19.64	19.76	20.50
		75	0	19.63	19.66	19.79	20.50
	64QAM	1	0	19.46	19.50	19.53	20.50
		1	38	19.45	19.56	19.58	20.50
		1	74	19.48	19.50	19.72	20.50
		36	0	19.59	19.61	19.72	20.50
		36	18	19.50	19.59	19.62	20.50
		36	39	19.58	19.56	19.58	20.50
		75	0	19.51	19.57	19.72	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18700	18900	19100	
				18700	18900	19100	
				18700	18900	19100	
20MHz	QPSK	1	0	19.6	19.62	19.61	20.50
		1	50	19.64	19.78	19.62	20.50
		1	99	19.56	19.56	19.75	20.50
		50	0	19.68	19.83	19.78	20.50
		50	25	19.69	19.69	19.7	20.50
		50	50	19.63	19.67	19.62	20.50
		100	0	19.65	19.64	19.74	20.50
	16QAM	1	0	19.84	19.98	19.9	20.50
		1	50	19.85	19.96	19.87	20.50
		1	99	19.9	19.83	20.04	20.50
		50	0	19.68	19.64	19.81	20.50
		50	25	19.68	19.68	19.75	20.50
		50	50	19.62	19.67	19.63	20.50
		100	0	19.66	19.61	19.74	20.50
	64QAM	1	0	19.52	19.61	19.55	20.50
		1	50	19.59	19.58	19.59	20.50
		1	99	19.49	19.51	19.74	20.50
		50	0	19.65	19.58	19.70	20.50
		50	25	19.60	19.57	19.59	20.50
		50	50	19.61	19.64	19.52	20.50
		100	0	19.64	19.53	19.65	20.50

LTE Band 4 Full power				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				19957	20175	20393		
1.4MHz	QPSK	1	0	23.74	24.05	24.01	25.50	
		1	2	23.8	24.09	23.98	25.50	
		1	5	23.86	24.04	24.01	25.50	
		3	0	23.92	23.98	24.01	25.50	
		3	2	23.89	24.01	24.01	25.50	
		3	3	24.06	23.99	23.9	25.50	
	16QAM	6	0	22.96	22.96	23.02	24.50	
		1	0	22.87	23.29	23.05	24.50	
		1	2	22.98	22.98	22.99	24.50	
		1	5	22.88	23.29	22.97	24.50	
		3	0	22.99	23.07	23.06	24.50	
		3	2	22.93	22.93	22.95	24.50	
	64QAM	3	3	22.96	22.86	22.77	24.50	
		6	0	22.02	21.97	21.92	23.50	
		1	0	21.62	22.04	21.89	23.50	
		1	2	21.70	22.00	21.93	23.50	
		1	5	21.79	22.02	21.91	23.50	
		3	0	21.82	21.91	21.90	23.50	
	3MHz	QPSK	3	2	21.81	21.96	21.99	23.50
			3	3	22.01	21.89	21.79	23.50
			6	0	20.84	20.94	20.92	22.50
1			0	23.74	23.78	23.84	25.50	
1			7	23.92	23.8	24.01	25.50	
1			14	23.73	23.89	24	25.50	
16QAM		8	0	22.91	23.08	22.83	24.50	
		8	4	23.03	23.03	22.87	24.50	
		8	7	22.78	22.98	22.87	24.50	
		15	0	22.83	22.91	22.87	24.50	
		1	0	23.32	23.23	23.28	24.50	
		1	7	22.93	22.99	23.44	24.50	
64QAM		1	14	22.97	22.64	22.93	24.50	
		8	0	21.66	21.98	21.9	23.50	
		8	4	21.77	21.81	21.89	23.50	
		8	7	21.69	21.86	21.8	23.50	
		15	0	21.68	21.86	21.82	23.50	
		1	0	21.62	21.76	21.73	23.50	
5MHz		QPSK	1	7	21.87	21.76	21.94	23.50
			1	14	21.62	21.78	21.92	23.50
			8	0	20.85	21.06	20.82	22.50
	8		4	20.97	20.99	20.76	22.50	
	8		7	20.71	20.88	20.75	22.50	
	15		0	20.76	20.90	20.83	22.50	
	LTE Band 4 Full power	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
					19975	20175	20375	
	5MHz	QPSK	1	0	23.82	23.88	23.83	25.50
			1	13	23.85	23.98	23.86	25.50
			1	24	23.71	23.93	23.92	25.50
			12	0	22.88	22.97	22.8	24.50

	16QAM	12	6	22.85	22.99	22.81	24.50
		12	13	22.83	22.84	23	24.50
		25	0	22.82	23.05	23.03	24.50
		1	0	23.37	23.19	23.37	24.50
		1	13	22.86	22.82	23.48	24.50
		1	24	22.91	22.56	22.92	24.50
		12	0	21.67	22.11	21.87	23.50
		12	6	21.94	21.9	21.83	23.50
		12	13	21.85	21.97	21.92	23.50
	25	0	21.74	21.88	21.78	23.50	
	64QAM	1	0	21.70	21.81	21.71	23.50
		1	13	21.82	21.94	21.76	23.50
		1	24	21.67	21.90	21.81	23.50
		12	0	20.82	20.89	20.68	22.50
		12	6	20.82	20.91	20.69	22.50
12		13	20.81	20.75	20.91	22.50	
25	0	20.81	20.94	20.94	22.50		
Bandwidth	Modulation	RB size	RB offset	Channel 20000	Channel 20175	Channel 20350	Tune up
10MHz	QPSK	1	0	23.88	23.78	23.86	25.50
		1	25	23.81	23.99	24.01	25.50
		1	49	23.67	23.99	23.89	25.50
		25	0	22.73	22.9	22.72	24.50
		25	13	22.96	23.04	22.95	24.50
		25	25	22.67	22.9	22.92	24.50
	16QAM	50	0	22.9	22.88	22.96	24.50
		1	0	23.24	23.14	23.33	24.50
		1	25	22.98	22.91	23.54	24.50
		1	49	22.99	22.7	22.96	24.50
		25	0	21.83	22.06	21.92	23.50
		25	13	21.87	21.79	21.97	23.50
	64QAM	25	25	21.66	21.94	21.9	23.50
		50	0	21.69	21.98	21.93	23.50
		1	0	21.84	21.77	21.76	23.50
		1	25	21.72	21.92	21.98	23.50
		1	49	21.59	21.98	21.86	23.50
		25	0	20.66	20.88	20.68	22.50
25	13	20.85	20.92	20.93	22.50		
25	25	20.57	20.82	20.90	22.50		
50	0	20.84	20.78	20.95	22.50		
Bandwidth	Modulation	RB size	RB offset	Channel 20025	Channel 20175	Channel 20325	Tune up
15MHz	QPSK	1	0	23.93	23.97	23.86	25.50
		1	38	23.85	23.82	24.02	25.50
		1	74	23.57	23.84	23.92	25.50
		36	0	22.86	22.96	22.76	24.50
		36	18	22.99	23.02	22.77	24.50
		36	39	22.71	22.89	22.95	24.50
	75	0	22.84	22.97	22.92	24.50	
	16QAM	1	0	23.36	23.19	23.38	24.50
		1	38	22.99	22.85	23.39	24.50
		1	74	23.08	22.58	22.86	24.50
36		0	21.84	22.05	21.81	23.50	
36	18	21.87	21.85	21.98	23.50		

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				20050	20175	20300		
20MHz	64QAM	36	39	21.67	21.88	21.82	23.50	
		75	0	21.81	21.88	21.86	23.50	
		1	0	21.81	21.86	21.82	23.50	
		1	38	21.79	21.74	21.91	23.50	
		1	74	21.57	21.78	21.80	23.50	
		36	0	20.80	20.89	20.64	22.50	
		36	18	20.98	20.96	20.76	22.50	
		36	39	20.66	20.88	20.84	22.50	
		75	0	20.75	20.85	20.81	22.50	
	20MHz	QPSK	1	0	23.83	23.88	23.91	25.50
			1	50	23.88	23.94	23.93	25.50
			1	99	23.66	23.91	23.92	25.50
			50	0	22.81	23.00	22.82	24.50
			50	25	22.94	22.94	22.86	24.50
			50	50	22.77	22.93	22.92	24.50
			100	0	22.81	22.98	22.96	24.50
		16QAM	1	0	23.27	23.16	23.32	24.50
			1	50	22.94	22.91	23.44	24.50
			1	99	22.99	22.63	22.87	24.50
			50	0	21.75	22.01	21.84	23.50
			50	25	21.85	21.88	21.92	23.50
			50	50	21.75	21.93	21.87	23.50
			100	0	21.77	21.92	21.87	23.50
		64QAM	1	0	21.77	21.79	21.85	23.50
			1	50	21.85	21.86	21.91	23.50
			1	99	21.59	21.89	21.88	23.50
			50	0	20.74	20.98	20.76	22.50
			50	25	20.92	20.88	20.83	22.50
50			50	20.68	20.90	20.82	22.50	
100			0	20.79	20.93	20.85	22.50	

LTE Band 4 Sensor on&Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19957	20175	20393	
1.4MHz	QPSK	1	0	21.5	21.55	21.57	22.50
		1	2	21.55	21.56	21.56	22.50
		1	5	21.51	21.55	21.55	22.50
		3	0	21.58	21.59	21.57	22.50
		3	2	21.56	21.6	21.61	22.50
		3	3	21.57	21.61	21.63	22.50
		6	0	21.62	21.57	21.59	22.50
	16QAM	1	0	21.81	21.88	21.83	22.50
		1	2	21.83	21.85	21.86	22.50
		1	5	21.82	21.9	21.76	22.50
		3	0	21.58	21.64	21.61	22.50
		3	2	21.6	21.63	21.62	22.50
		3	3	21.63	21.67	21.6	22.50
		6	0	21.65	21.66	21.69	22.50
	64QAM	1	0	21.41	21.47	21.50	22.50
		1	2	21.49	21.54	21.53	22.50



		1	5	21.46	21.50	21.43	22.50	
		3	0	21.46	21.55	21.49	22.50	
		3	2	21.53	21.59	21.53	22.50	
		3	3	21.51	21.57	21.52	22.50	
		6	0	21.61	21.55	21.57	22.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				19965	20175	20385		
3MHz	QPSK	1	0	21.53	21.53	21.53	22.50	
		1	7	21.58	21.54	21.54	22.50	
		1	14	21.52	21.48	21.41	22.50	
		8	0	21.39	21.64	21.46	22.50	
		8	4	21.65	21.55	21.57	22.50	
		8	7	21.47	21.51	21.56	22.50	
		15	0	21.44	21.66	21.59	22.50	
	16QAM	1	0	21.85	21.83	21.92	22.50	
		1	7	21.75	21.9	21.83	22.50	
		1	14	21.86	21.77	21.82	22.50	
		8	0	21.45	21.63	21.52	22.50	
		8	4	21.5	21.53	21.58	22.50	
		8	7	21.46	21.63	21.61	22.50	
		15	0	21.38	21.61	21.59	22.50	
	64QAM	1	0	21.44	21.46	21.46	22.50	
		1	7	21.48	21.47	21.45	22.50	
		1	14	21.50	21.46	21.30	22.50	
		8	0	21.33	21.61	21.42	22.50	
		8	4	21.62	21.48	21.52	22.50	
		8	7	21.44	21.46	21.52	22.50	
		15	0	21.32	21.56	21.56	22.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				19975	20175	20375		
5MHz	QPSK	1	0	21.58	21.52	21.51	22.50	
		1	13	21.53	21.53	21.55	22.50	
		1	24	21.46	21.46	21.51	22.50	
		12	0	21.47	21.61	21.47	22.50	
		12	6	21.6	21.57	21.5	22.50	
		12	13	21.49	21.54	21.55	22.50	
		25	0	21.4	21.6	21.53	22.50	
	16QAM	1	0	21.82	21.76	21.91	22.50	
		1	13	21.81	21.91	21.8	22.50	
		1	24	21.75	21.84	21.75	22.50	
		12	0	21.44	21.59	21.49	22.50	
		12	6	21.55	21.62	21.63	22.50	
		12	13	21.39	21.65	21.63	22.50	
		25	0	21.42	21.63	21.51	22.50	
	64QAM	1	0	21.51	21.44	21.41	22.50	
		1	13	21.43	21.46	21.51	22.50	
		1	24	21.45	21.37	21.45	22.50	
		12	0	21.41	21.56	21.36	22.50	
		12	6	21.54	21.47	21.40	22.50	
		12	13	21.44	21.44	21.51	22.50	
		25	0	21.36	21.53	21.47	22.50	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
					20000	20175	20350	
	10MHz	QPSK	1	0	21.63	21.64	21.65	22.50

		1	25	21.61	21.6	21.6	22.50	
		1	49	21.53	21.63	21.62	22.50	
		25	0	21.46	21.59	21.52	22.50	
		25	13	21.55	21.62	21.6	22.50	
		25	25	21.59	21.58	21.65	22.50	
		50	0	21.53	21.64	21.57	22.50	
	16QAM	1	0	21.88	21.92	21.93	22.50	
		1	25	21.89	21.9	21.83	22.50	
		1	49	21.84	21.89	21.79	22.50	
		25	0	21.51	21.68	21.55	22.50	
		25	13	21.63	21.62	21.62	22.50	
		25	25	21.59	21.62	21.69	22.50	
	64QAM	50	0	21.58	21.64	21.6	22.50	
		1	0	21.55	21.58	21.64	22.50	
		1	25	21.54	21.52	21.51	22.50	
		1	49	21.46	21.59	21.58	22.50	
		25	0	21.43	21.50	21.43	22.50	
		25	13	21.44	21.56	21.48	22.50	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
					20025	20175	20325	
	15MHz	QPSK	1	0	21.5	21.52	21.54	22.50
1			38	21.48	21.56	21.53	22.50	
1			74	21.41	21.53	21.54	22.50	
36			0	21.49	21.57	21.51	22.50	
36			18	21.53	21.62	21.53	22.50	
36			39	21.51	21.55	21.59	22.50	
16QAM		75	0	21.5	21.58	21.55	22.50	
		1	0	21.8	21.75	21.88	22.50	
		1	38	21.71	21.92	21.73	22.50	
		1	74	21.67	21.81	21.77	22.50	
		36	0	21.54	21.59	21.5	22.50	
		36	18	21.51	21.63	21.57	22.50	
64QAM		36	39	21.57	21.59	21.59	22.50	
		75	0	21.48	21.61	21.55	22.50	
		1	0	21.46	21.45	21.53	22.50	
		1	38	21.41	21.50	21.51	22.50	
		1	74	21.39	21.42	21.49	22.50	
		36	0	21.38	21.51	21.46	22.50	
Bandwidth		Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
					20050	20175	20300	
20MHz		QPSK	36	39	21.45	21.50	21.43	22.50
	75		0	21.46	21.53	21.51	22.50	
	1		0	21.55	21.47	21.54	22.50	
	1		50	21.65	21.84	21.74	22.50	
	1		99	21.51	21.46	21.49	22.50	
	50		0	21.6	21.81	21.59	22.50	
	16QAM	50	25	21.57	21.56	21.57	22.50	
		50	50	21.44	21.59	21.58	22.50	
		100	0	21.41	21.6	21.55	22.50	
		1	0	21.83	21.79	21.83	22.50	
		1	50	21.77	21.82	21.82	22.50	

		1	99	21.82	21.77	21.77	22.50
		50	0	21.46	21.67	21.5	22.50
		50	25	21.54	21.62	21.56	22.50
		50	50	21.44	21.59	21.59	22.50
		100	0	21.46	21.57	21.59	22.50
	64QAM	1	0	21.52	21.41	21.46	22.50
		1	50	21.53	21.80	21.62	22.50
		1	99	21.42	21.44	21.41	22.50
		50	0	21.49	21.54	21.58	22.50
		50	25	21.54	21.47	21.51	22.50
		50	50	21.43	21.49	21.49	22.50
		100	0	21.38	21.49	21.54	22.50

LTE Band 7 Full power				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				20775	21100	21425		
5MHz	QPSK	1	0	23.51	23.57	23.66	25.50	
		1	13	23.51	23.54	23.91	25.50	
		1	24	23.71	23.6	23.88	25.50	
		12	0	22.6	22.64	22.73	24.50	
		12	6	22.57	22.62	22.73	24.50	
		12	13	22.61	22.56	22.74	24.50	
		25	0	22.57	22.62	22.72	24.50	
	16QAM	1	0	22.9	22.7	22.77	24.50	
		1	13	22.76	22.78	23.1	24.50	
		1	24	22.92	22.97	22.87	24.50	
		12	0	21.58	21.57	21.74	23.50	
		12	6	21.61	21.57	21.7	23.50	
		12	13	21.62	21.55	21.71	23.50	
		25	0	21.57	21.63	21.76	23.50	
	64QAM	1	0	21.52	21.50	21.59	23.50	
		1	13	21.53	21.54	21.88	23.50	
		1	24	21.69	21.50	21.83	23.50	
		12	0	21.58	20.62	20.61	22.50	
		12	6	20.52	20.56	20.64	22.50	
		12	13	20.57	20.51	20.67	22.50	
		25	0	20.53	20.60	20.69	22.50	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
	10MHz	QPSK	1	0	23.55	23.54	23.62	
			1	25	23.52	23.6	23.72	25.50
1			49	23.62	23.5	23.95	25.50	
25			0	22.53	22.59	22.71	24.50	
25			13	22.61	22.57	22.7	24.50	
25			25	22.66	22.61	22.75	24.50	
50			0	22.62	22.66	22.77	24.50	
16QAM		1	0	22.78	22.93	23	24.50	
		1	25	22.96	22.53	23.03	24.50	
		1	49	22.58	22.68	22.59	24.50	
		25	0	21.56	21.53	21.75	23.50	
		25	13	21.64	21.54	21.74	23.50	
		25	25	21.58	21.6	21.72	23.50	

		50	0	21.61	21.54	21.66	23.50	
	64QAM	1	0	21.53	21.56	21.52	23.50	
		1	25	21.54	21.59	21.61	23.50	
		1	49	21.60	21.51	21.92	23.50	
		25	0	20.50	20.59	20.60	22.50	
		25	13	20.51	20.58	20.61	22.50	
		25	25	20.62	20.54	20.67	22.50	
		50	0	20.52	20.65	20.74	22.50	
Bandwidth		Modulation	RB size	RB offset	Channel 20825	Channel 21100	Channel 21375	Tune up
15MHz	QPSK	1	0	23.87	23.57	23.5	25.50	
		1	38	23.87	23.81	23.87	25.50	
		1	74	23.61	24.01	24.18	25.50	
		36	0	22.71	22.77	22.9	24.50	
		36	18	22.82	22.75	22.9	24.50	
		36	39	22.82	22.81	22.99	24.50	
		75	0	22.8	22.84	23	24.50	
	16QAM	1	0	22.97	22.74	23.08	24.50	
		1	38	23.04	23.19	23.16	24.50	
		1	74	23.12	22.84	23.23	24.50	
		36	0	21.66	21.81	21.91	23.50	
		36	18	21.73	21.74	21.89	23.50	
		36	39	21.84	21.79	21.98	23.50	
		75	0	21.75	21.76	21.95	23.50	
	64QAM	1	0	21.82	21.53	21.51	23.50	
		1	38	21.77	21.69	21.85	23.50	
		1	74	21.57	21.93	22.11	23.50	
		36	0	20.62	20.75	20.87	22.50	
		36	18	20.77	20.74	20.82	22.50	
		36	39	20.73	20.70	20.87	22.50	
		75	0	20.75	20.83	20.89	22.50	
	Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350	Tune up
	20MHz	QPSK	1	0	23.87	23.60	23.68	25.50
			1	50	23.81	23.91	23.93	25.50
1			99	23.87	23.78	24.07	25.50	
50			0	22.71	22.80	23.00	24.50	
50			25	22.86	22.83	22.99	24.50	
50			50	22.94	22.91	22.99	24.50	
100			0	22.80	22.89	23.00	24.50	
16QAM		1	0	22.89	22.68	23.11	24.50	
		1	50	23.22	23.24	23.26	24.50	
		1	99	22.57	22.73	22.99	24.50	
		50	0	21.70	21.78	22.02	23.50	
		50	25	21.83	21.89	21.91	23.50	
		50	50	22.00	21.93	22.01	23.50	
		100	0	21.75	21.88	22.03	23.50	
64QAM		1	0	21.86	21.50	21.57	23.50	
		1	50	21.80	21.88	21.91	23.50	
		1	99	21.79	21.76	22.06	23.50	
		50	0	20.69	20.69	20.90	22.50	
		50	25	20.80	20.79	20.93	22.50	
		50	50	20.83	20.88	20.91	22.50	
		100	0	20.68	20.81	20.89	22.50	



LTE Band 7 Sensor on&Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20775	21100	21425	
5MHz	QPSK	1	0	18.66	18.63	18.54	20.00
		1	13	18.7	18.62	18.6	20.00
		1	24	18.74	18.65	18.56	20.00
		12	0	18.61	18.72	18.64	20.00
		12	6	18.72	18.63	18.6	20.00
		12	13	18.73	18.77	18.65	20.00
		25	0	18.71	18.69	18.68	20.00
	16QAM	1	0	18.87	18.93	18.77	20.00
		1	13	18.99	19.00	18.87	20.00
		1	24	19.00	18.89	18.87	20.00
		12	0	18.68	18.78	18.58	20.00
		12	6	18.80	18.71	18.62	20.00
		12	13	18.73	18.66	18.67	20.00
		25	0	18.75	18.74	18.7	20.00
	64QAM	1	0	18.56	18.53	18.52	20.00
		1	13	18.67	18.59	18.53	20.00
		1	24	18.69	18.59	18.49	20.00
		12	0	18.58	18.69	18.58	20.00
		12	6	18.64	18.55	18.49	20.00
		12	13	18.65	18.67	18.59	20.00
		25	0	18.61	18.64	18.57	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20800	21100	21400	
10MHz	QPSK	1	0	18.62	18.65	18.53	20.00
		1	25	18.73	18.66	18.65	20.00
		1	49	18.73	18.67	18.6	20.00
		25	0	18.64	18.7	18.63	20.00
		25	13	18.72	18.67	18.61	20.00
		25	25	18.75	18.74	18.64	20.00
		50	0	18.75	18.71	18.65	20.00
	16QAM	1	0	18.85	18.92	18.76	20.00
		1	25	18.97	18.95	18.89	20.00
		1	49	19.01	18.91	18.85	20.00
		25	0	18.69	18.74	18.63	20.00
		25	13	18.76	18.71	18.62	20.00
		25	25	18.78	18.71	18.7	20.00
		50	0	18.75	18.73	18.65	20.00
	64QAM	1	0	18.60	18.64	18.47	20.00
		1	25	18.63	18.64	18.59	20.00
		1	49	18.66	18.64	18.51	20.00
		25	0	18.61	18.60	18.62	20.00
		25	13	18.67	18.58	18.59	20.00
		25	25	18.67	18.71	18.52	20.00
		50	0	18.68	18.65	18.63	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20825	21100	21375	
15MHz	QPSK	1	0	18.59	18.61	18.62	20.00
		1	38	18.73	18.68	18.6	20.00

		1	74	18.72	18.67	18.62	20.00	
		36	0	18.64	18.63	18.55	20.00	
		36	18	18.7	18.65	18.61	20.00	
		36	39	18.76	18.71	18.66	20.00	
		75	0	18.73	18.74	18.66	20.00	
	16QAM	1	0	18.81	18.82	18.93	20.00	
		1	38	19.03	18.97	18.86	20.00	
		1	74	18.93	18.94	18.83	20.00	
		36	0	18.65	18.73	18.58	20.00	
		36	18	18.72	18.67	18.64	20.00	
		36	39	18.82	18.71	18.7	20.00	
		75	0	18.74	18.76	18.66	20.00	
	64QAM	1	0	18.57	18.50	18.53	20.00	
		1	38	18.61	18.62	18.57	20.00	
		1	74	18.71	18.64	18.57	20.00	
		36	0	18.59	18.59	18.54	20.00	
		36	18	18.66	18.61	18.49	20.00	
		36	39	18.68	18.66	18.64	20.00	
		75	0	18.66	18.68	18.56	20.00	
	Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350	Tune up
	20MHz	QPSK	1	0	18.52	18.54	18.54	20.00
1			50	18.66	18.61	18.53	20.00	
1			99	18.66	18.90	19.00	20.00	
50			0	18.57	18.70	18.81	20.00	
50			25	18.70	18.71	18.60	20.00	
50			50	18.77	18.80	18.62	20.00	
100			0	18.67	18.71	18.61	20.00	
16QAM		1	0	18.73	18.68	18.81	20.00	
		1	50	18.93	18.96	18.81	20.00	
		1	99	18.86	18.91	18.86	20.00	
		50	0	18.59	18.64	18.78	20.00	
		50	25	18.70	18.72	18.63	20.00	
		50	50	18.73	18.73	18.62	20.00	
		100	0	18.62	18.73	18.61	20.00	
64QAM		1	0	18.46	18.42	18.49	20.00	
		1	50	18.60	18.54	18.42	20.00	
		1	99	18.63	18.78	18.88	20.00	
		50	0	18.53	18.67	18.70	20.00	
		50	25	18.69	18.65	18.57	20.00	
		50	50	18.69	18.70	18.61	20.00	
		100	0	18.55	18.65	18.55	20.00	

LTE Band 38 Full power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 37775	Channel 38000	Channel 38225	Tune up
5MHz	QPSK	1	0	23.74	23.76	23.77	25.50
		1	13	23.8	23.77	23.71	25.50
		1	24	23.73	23.74	23.75	25.50
		12	0	22.76	22.77	22.69	24.50
		12	6	22.73	22.73	22.67	24.50
		12	13	22.68	22.65	22.65	24.50

	16QAM	25	0	22.7	22.73	22.62	24.50
		1	0	22.7	22.69	22.61	24.50
		1	13	22.69	22.69	22.62	24.50
		1	24	22.71	22.68	22.67	24.50
		12	0	21.63	21.69	21.64	23.50
		12	6	21.62	21.65	21.62	23.50
		12	13	21.61	21.61	21.56	23.50
	25	0	21.71	21.7	21.72	23.50	
	64QAM	1	0	21.65	21.68	21.76	23.50
		1	13	21.78	21.74	21.60	23.50
		1	24	21.71	21.64	21.63	23.50
		12	0	20.72	20.66	20.58	22.50
		12	6	20.72	20.71	20.61	22.50
		12	13	20.65	20.58	20.58	22.50
25		0	20.59	20.61	20.59	22.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37800	38000	38200	
10MHz	QPSK	1	0	23.75	23.76	23.72	25.50
		1	25	23.79	23.83	23.75	25.50
		1	49	23.79	23.74	23.7	25.50
		25	0	22.74	22.78	22.71	24.50
		25	13	22.69	22.71	22.65	24.50
		25	25	22.73	22.7	22.68	24.50
		50	0	22.71	22.69	22.67	24.50
	16QAM	1	0	22.69	22.8	22.7	24.50
		1	25	22.63	22.72	22.67	24.50
		1	49	22.74	22.69	22.64	24.50
		25	0	21.7	21.73	21.74	23.50
		25	13	21.69	21.74	21.68	23.50
		25	25	21.74	21.69	21.62	23.50
		50	0	21.69	21.75	21.7	23.50
	64QAM	1	0	21.70	21.70	21.65	23.50
		1	25	21.69	21.77	21.66	23.50
		1	49	21.74	21.63	21.67	23.50
		25	0	20.73	20.72	20.62	22.50
		25	13	20.67	20.66	20.63	22.50
		25	25	20.72	20.68	20.57	22.50
		50	0	20.65	20.64	20.66	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37825	38000	38175	
15MHz	QPSK	1	0	23.69	23.67	23.61	25.50
		1	38	23.77	23.78	23.73	25.50
		1	74	23.69	23.7	23.67	25.50
		36	0	22.63	22.64	22.64	24.50
		36	18	22.73	22.71	22.63	24.50
		36	39	22.72	22.68	22.61	24.50
		75	0	22.72	22.7	22.64	24.50
	16QAM	1	0	22.6	22.6	22.58	24.50
		1	38	22.75	22.72	22.68	24.50
		1	74	22.64	22.57	22.61	24.50
		36	0	21.61	21.64	21.63	23.50
		36	18	21.67	21.68	21.65	23.50
		36	39	21.66	21.62	21.59	23.50
		75	0	21.7	21.67	21.68	23.50



Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				37850	38000	38150		
20MHz	64QAM	1	0	21.65	21.58	21.60	23.50	
		1	38	21.69	21.73	21.67	23.50	
		1	74	21.58	21.66	21.64	23.50	
		36	0	20.61	20.58	20.57	22.50	
		36	18	20.66	20.67	20.52	22.50	
		36	39	20.63	20.62	20.59	22.50	
		75	0	20.62	20.66	20.58	22.50	
	20MHz	QPSK	1	0	23.68	23.6	23.65	25.50
			1	50	23.81	23.78	23.75	25.50
			1	99	23.72	23.67	23.83	25.50
			50	0	22.67	22.75	22.79	24.50
			50	25	22.77	22.73	22.73	24.50
			50	50	22.78	22.69	22.67	24.50
			100	0	22.71	22.7	22.63	24.50
		16QAM	1	0	22.63	22.67	22.56	24.50
			1	50	22.69	22.67	22.7	24.50
			1	99	22.67	22.63	22.52	24.50
			50	0	21.66	21.72	21.7	23.50
			50	25	21.73	21.75	21.68	23.50
			50	50	21.78	21.73	21.62	23.50
			100	0	21.69	21.68	21.64	23.50
64QAM		1	0	21.60	21.54	21.54	23.50	
		1	50	21.74	21.67	21.69	23.50	
		1	99	21.70	21.66	21.70	23.50	
		50	0	20.57	20.66	20.71	22.50	
		50	25	20.71	20.65	20.61	22.50	
		50	50	20.77	20.57	20.59	22.50	
		100	0	20.68	20.60	20.51	22.50	

LTE Band 38 Sensor on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37775	38000	38225	
5MHz	QPSK	1	0	21.58	21.74	21.68	23.50
		1	13	21.72	21.8	21.76	23.50
		1	24	21.65	21.75	21.7	23.50
		12	0	21.67	21.76	21.68	23.50
		12	6	21.65	21.75	21.6	23.50
		12	13	21.66	21.67	21.61	23.50
		25	0	21.73	21.66	21.65	23.50
	16QAM	1	0	21.72	21.79	21.76	23.50
		1	13	21.76	21.68	21.73	23.50
		1	24	21.73	21.72	21.68	23.50
		12	0	21.75	21.74	21.75	23.50
		12	6	21.67	21.73	21.72	23.50
		12	13	21.77	21.72	21.67	23.50
		25	0	21.67	21.78	21.72	23.50
	64QAM	1	0	21.65	21.68	21.76	23.50
		1	13	21.78	21.74	21.60	23.50
		1	24	21.71	21.64	21.63	23.50
		12	0	20.72	20.66	20.58	22.50



Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				37800	38000	38200		
10MHz	QPSK	12	6	20.72	20.71	20.61	22.50	
		12	13	20.65	20.58	20.58	22.50	
		25	0	20.59	20.61	20.59	22.50	
		1	0	21.62	21.71	21.66	23.50	
		1	25	21.69	21.75	21.72	23.50	
		1	49	21.67	21.7	21.66	23.50	
		25	0	21.67	21.75	21.66	23.50	
	16QAM	25	13	21.66	21.7	21.62	23.50	
		25	25	21.71	21.68	21.64	23.50	
		50	0	21.69	21.7	21.69	23.50	
		1	0	21.7	21.74	21.72	23.50	
		1	25	21.72	21.72	21.71	23.50	
		1	49	21.72	21.68	21.69	23.50	
		25	0	21.71	21.77	21.74	23.50	
	64QAM	25	13	21.7	21.76	21.73	23.50	
		25	25	21.73	21.7	21.69	23.50	
		50	0	21.7	21.73	21.69	23.50	
		1	0	21.70	21.70	21.65	23.50	
		1	25	21.69	21.77	21.66	23.50	
		1	49	21.74	21.63	21.67	23.50	
		25	0	20.73	20.72	20.62	22.50	
	15MHz	QPSK	25	13	20.67	20.66	20.63	22.50
			25	25	20.72	20.68	20.57	22.50
			50	0	20.65	20.64	20.66	22.50
			1	0	21.61	21.62	21.58	23.50
			1	38	21.71	21.75	21.68	23.50
			1	74	21.64	21.63	21.59	23.50
36			0	21.65	21.67	21.66	23.50	
16QAM		36	18	21.68	21.62	21.66	23.50	
		36	39	21.65	21.65	21.55	23.50	
		75	0	21.71	21.66	21.62	23.50	
		1	0	21.64	21.63	21.57	23.50	
		1	38	21.72	21.7	21.69	23.50	
		1	74	21.66	21.61	21.58	23.50	
		36	0	21.63	21.61	21.65	23.50	
64QAM		36	18	21.66	21.63	21.62	23.50	
		36	39	21.63	21.66	21.61	23.50	
		75	0	21.7	21.68	21.64	23.50	
		1	0	21.65	21.58	21.60	23.50	
		1	38	21.69	21.73	21.67	23.50	
		1	74	21.58	21.66	21.64	23.50	
		36	0	20.61	20.58	20.57	22.50	
20MHz		QPSK	36	18	20.66	20.67	20.52	22.50
			36	39	20.63	20.62	20.59	22.50
			75	0	20.62	20.66	20.58	22.50
			1	0	21.51	21.54	21.55	23.50
			1	50	21.68	21.68	21.64	23.50
			1	99	21.57	21.54	21.54	23.50
	Bandwidth		Modulation	RB size	RB offset	Channel	Channel	Channel
		37850				38000	38150	



		50	0	21.59	21.69	21.64	23.50	
		50	25	21.65	21.65	21.7	23.50	
		50	50	21.67	21.66	21.58	23.50	
		100	0	21.63	21.66	21.63	23.50	
	16QAM	1	0	21.57	21.54	21.58	23.50	
		1	50	21.69	21.69	21.62	23.50	
		1	99	21.55	21.55	21.53	23.50	
		50	0	21.6	21.68	21.67	23.50	
		50	25	21.7	21.72	21.69	23.50	
		50	50	21.72	21.63	21.66	23.50	
	64QAM	100	0	21.68	21.69	21.66	23.50	
		1	0	21.60	21.54	21.54	23.50	
		1	50	21.74	21.67	21.69	23.50	
		1	99	21.70	21.66	21.70	23.50	
		50	0	20.57	20.66	20.71	22.50	
		50	25	20.71	20.65	20.61	22.50	
		50	50	20.77	20.57	20.59	22.50	
			100	0	20.68	20.60	20.51	22.50

LTE Band 38 Hotspot on				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				37775	38000	38225		
5MHz	QPSK	1	0	21.42	21.59	21.52	22.50	
		1	13	21.57	21.61	21.56	22.50	
		1	24	21.47	21.55	21.55	22.50	
		12	0	21.48	21.57	21.48	22.50	
		12	6	21.5	21.6	21.41	22.50	
		12	13	21.51	21.48	21.42	22.50	
		25	0	21.57	21.5	21.45	22.50	
	16QAM	1	0	21.56	21.64	21.58	22.50	
		1	13	21.59	21.48	21.57	22.50	
		1	24	21.56	21.53	21.5	22.50	
		12	0	21.6	21.56	21.58	22.50	
		12	6	21.51	21.53	21.56	22.50	
		12	13	21.6	21.56	21.5	22.50	
		25	0	21.48	21.59	21.54	22.50	
	64QAM	1	0	21.41	21.47	21.51	22.50	
		1	13	21.50	21.58	21.52	22.50	
		1	24	21.37	21.52	21.51	22.50	
		12	0	21.37	21.56	21.38	22.50	
		12	6	21.39	21.57	21.30	22.50	
		12	13	21.50	21.39	21.35	22.50	
		25	0	21.50	21.41	21.40	22.50	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
	10MHz	QPSK			37800	38000	38200	
			1	0	21.47	21.52	21.5	22.50
1			25	21.52	21.6	21.55	22.50	
1			49	21.48	21.5	21.47	22.50	
25			0	21.52	21.6	21.51	22.50	
25			13	21.48	21.54	21.47	22.50	
25			25	21.51	21.53	21.49	22.50	
		50	0	21.49	21.51	21.53	22.50	

	16QAM	1	0	21.5	21.57	21.57	22.50
		1	25	21.54	21.53	21.53	22.50
		1	49	21.57	21.5	21.51	22.50
		25	0	21.52	21.57	21.54	22.50
		25	13	21.5	21.57	21.55	22.50
		25	25	21.53	21.51	21.53	22.50
		50	0	21.53	21.55	21.49	22.50
	64QAM	1	0	21.37	21.50	21.45	22.50
		1	25	21.48	21.58	21.51	22.50
		1	49	21.42	21.49	21.45	22.50
		25	0	21.42	21.52	21.45	22.50
		25	13	21.47	21.46	21.41	22.50
		25	25	21.43	21.51	21.44	22.50
		50	0	21.37	21.45	21.44	22.50
Bandwidth	Modulation	RB size	RB offset	Channel 37825	Channel 38000	Channel 38175	Tune up
15MHz	QPSK	1	0	21.41	21.44	21.39	22.50
		1	38	21.56	21.55	21.49	22.50
		1	74	21.46	21.44	21.41	22.50
		36	0	21.46	21.51	21.48	22.50
		36	18	21.49	21.46	21.49	22.50
		36	39	21.45	21.47	21.39	22.50
		75	0	21.55	21.46	21.46	22.50
	16QAM	1	0	21.47	21.48	21.39	22.50
		1	38	21.53	21.53	21.5	22.50
		1	74	21.46	21.44	21.42	22.50
		36	0	21.43	21.46	21.47	22.50
		36	18	21.51	21.48	21.45	22.50
		36	39	21.43	21.48	21.43	22.50
		75	0	21.53	21.51	21.48	22.50
	64QAM	1	0	21.30	21.43	21.28	22.50
		1	38	21.55	21.44	21.45	22.50
		1	74	21.35	21.41	21.33	22.50
		36	0	21.37	21.45	21.37	22.50
		36	18	21.48	21.41	21.40	22.50
		36	39	21.40	21.45	21.29	22.50
		75	0	21.49	21.41	21.37	22.50
Bandwidth	Modulation	RB size	RB offset	Channel 37850	Channel 38000	Channel 38150	Tune up
20MHz	QPSK	1	0	21.36	21.34	21.35	22.50
		1	50	21.5	21.53	21.49	22.50
		1	99	21.4	21.39	21.56	22.50
		50	0	21.41	21.41	21.49	22.50
		50	25	21.48	21.45	21.44	22.50
		50	50	21.45	21.47	21.43	22.50
		100	0	21.43	21.48	21.48	22.50
	16QAM	1	0	21.4	21.36	21.4	22.50
		1	50	21.49	21.53	21.46	22.50
		1	99	21.38	21.39	21.38	22.50
		50	0	21.45	21.51	21.51	22.50
		50	25	21.55	21.53	21.49	22.50
		50	50	21.53	21.48	21.47	22.50
		100	0	21.53	21.49	21.47	22.50
	64QAM	1	0	21.34	21.32	21.27	22.50

		1	50	21.40	21.45	21.47	22.50
		1	99	21.37	21.33	21.44	22.50
		50	0	21.33	21.39	21.48	22.50
		50	25	21.44	21.45	21.42	22.50
		50	50	21.44	21.38	21.34	22.50
		100	0	21.33	21.43	21.46	22.50

LTE Band 41				Conducted Power(dBm)						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up	
				39675	40148	40620	41093	41565		
5MHz	QPSK	1	0	23.56	23.66	23.68	23.58	23.55	24.00	
		1	13	23.71	23.81	23.73	23.74	23.72	24.00	
		1	24	23.65	23.69	23.64	23.69	23.61	24.00	
		12	0	22.61	22.71	22.83	22.65	22.78	23.00	
		12	6	22.63	22.74	22.8	22.7	22.8	23.00	
		12	13	22.76	22.74	22.7	22.79	22.75	23.00	
	16QAM	25	0	22.7	22.77	22.6	22.68	22.66	23.00	
		1	0	22.54	22.7	22.75	22.57	22.68	23.00	
		1	13	22.69	22.84	22.78	22.74	22.8	23.00	
		1	24	22.66	22.66	22.49	22.6	22.62	23.00	
		12	0	21.63	21.71	21.79	21.54	21.73	22.00	
		12	6	21.7	21.75	21.72	21.7	21.76	22.00	
	64QAM	12	13	21.75	21.78	21.6	21.75	21.71	22.00	
		25	0	21.71	21.75	21.77	21.75	21.76	22.00	
		1	0	21.45	21.62	21.61	21.56	21.45	22.00	
		1	13	21.68	21.79	21.71	21.70	21.65	22.00	
		1	24	21.60	21.58	21.63	21.66	21.55	22.00	
		12	0	20.56	20.69	20.75	20.54	20.73	21.00	
	10MHz	QPSK	12	6	20.55	20.68	20.79	20.65	20.74	21.00
			12	13	20.72	20.71	20.60	20.77	20.73	21.00
			25	0	20.68	20.69	20.48	20.56	20.61	21.00
1			0	23.54	23.68	23.67	23.56	23.59	24.00	
1			25	23.64	23.79	23.67	23.77	23.77	24.00	
1			49	23.64	23.65	23.61	23.7	23.6	24.00	
16QAM		25	0	22.57	22.75	22.79	22.64	22.74	23.00	
		25	13	22.62	22.73	22.73	22.71	22.73	23.00	
		25	25	22.76	22.73	22.67	22.84	22.79	23.00	
		50	0	22.72	22.7	22.65	22.65	22.67	23.00	
		1	0	22.56	22.71	22.77	22.61	22.71	23.00	
		1	25	22.67	22.81	22.77	22.82	22.75	23.00	
64QAM		1	49	22.65	22.63	22.47	22.61	22.62	23.00	
		25	0	21.67	21.75	21.8	21.58	21.75	22.00	
		25	13	21.68	21.77	21.76	21.64	21.68	22.00	
	25	25	21.73	21.8	21.67	21.77	21.7	22.00		
	50	0	21.75	21.74	21.7	21.77	21.79	22.00		
	1	0	21.45	21.67	21.66	21.54	21.50	22.00		
	64QAM	1	25	21.62	21.77	21.63	21.65	21.67	22.00	
		1	49	21.57	21.61	21.50	21.58	21.53	22.00	
		25	0	20.54	20.72	20.73	20.58	20.62	21.00	
		25	13	20.57	20.62	20.70	20.66	20.69	21.00	
		25	25	20.57	20.62	20.70	20.66	20.69	21.00	

Bandwidth	Modulation	25	25	20.64	20.68	20.65	20.78	20.74	21.00
		50	0	20.71	20.69	20.57	20.54	20.55	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39725	40173	40620	41068	41515	
15MHz	QPSK	1	0	23.57	23.7	23.64	23.51	23.57	24.00
		1	38	23.61	23.63	23.72	23.7	23.63	24.00
		1	74	23.65	23.68	23.67	23.67	23.6	24.00
		36	0	22.58	22.71	22.75	22.59	22.76	23.00
		36	18	22.64	22.76	22.75	22.68	22.76	23.00
		36	39	22.84	22.78	22.67	22.84	22.79	23.00
		75	0	22.65	22.71	22.7	22.66	22.72	23.00
	16QAM	1	0	22.61	22.63	22.75	22.55	22.61	23.00
		1	38	22.63	22.81	22.74	22.76	22.74	23.00
		1	74	22.66	22.59	22.46	22.59	22.71	23.00
		36	0	21.67	21.68	21.74	21.56	21.77	22.00
		36	18	21.68	21.71	21.74	21.71	21.67	22.00
		36	39	21.74	21.7	21.67	21.75	21.67	22.00
		75	0	21.67	21.75	21.74	21.68	21.76	22.00
	64QAM	1	0	21.53	21.65	21.57	21.48	21.51	22.00
		1	38	21.54	21.57	21.69	21.58	21.60	22.00
		1	74	21.57	21.65	21.65	21.60	21.49	22.00
		36	0	20.52	20.65	20.74	20.48	20.69	21.00
		36	18	20.57	20.70	20.73	20.57	20.65	21.00
		36	39	20.75	20.73	20.62	20.73	20.68	21.00
		75	0	20.57	20.62	20.60	20.59	20.71	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39750	40185	40620	41055	41490	
20MHz	QPSK	1	0	23.59	23.68	23.63	23.55	23.59	24.00
		1	50	23.66	23.77	23.71	23.73	23.82	24.00
		1	99	23.65	23.67	23.83	23.65	23.64	24.00
		50	0	22.61	22.75	22.81	22.63	22.73	23.00
		50	25	22.67	22.76	22.75	22.68	22.78	23.00
		50	50	22.79	22.76	22.69	22.80	22.79	23.00
		100	0	22.68	22.72	22.65	22.67	22.70	23.00
	16QAM	1	0	22.57	22.67	22.72	22.58	22.66	23.00
		1	50	22.67	22.83	22.73	22.77	22.76	23.00
		1	99	22.64	22.62	22.50	22.63	22.66	23.00
		50	0	21.63	21.70	21.78	21.54	21.76	22.00
		50	25	21.69	21.73	21.71	21.66	21.72	22.00
		50	50	21.77	21.75	21.62	21.72	21.69	22.00
		100	0	21.71	21.71	21.75	21.73	21.76	22.00
	64QAM	1	0	21.55	21.63	21.56	21.53	21.57	22.00
		1	50	21.59	21.72	21.64	21.64	21.78	22.00
		1	99	21.54	21.66	21.73	21.60	21.53	22.00
		50	0	20.53	20.70	20.69	20.57	20.69	21.00
		50	25	20.62	20.64	20.66	20.63	20.66	21.00
		50	50	20.77	20.74	20.68	20.71	20.69	21.00
		100	0	20.63	20.69	20.55	20.60	20.67	21.00



LTE Band 66 Full power				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				131979	132322	132665		
1.4MHz	QPSK	1	0	23.69	24.11	23.94	25.50	
		1	2	23.72	24.15	24.05	25.50	
		1	5	23.78	23.98	23.99	25.50	
		3	0	23.94	24.05	24.09	25.50	
		3	1	23.90	24.10	23.95	25.50	
		3	3	24.14	23.90	23.84	25.50	
	16QAM	6	0	22.86	22.98	23.04	24.50	
		1	0	22.94	23.33	23.09	24.50	
		1	2	22.96	22.93	23.08	24.50	
		1	5	22.87	23.25	22.93	24.50	
		3	0	22.94	22.98	23.15	24.50	
		3	1	22.92	22.93	22.95	24.50	
	64QAM	3	3	22.93	22.77	22.67	24.50	
		6	0	22.02	22.01	21.97	23.50	
		1	0	21.68	22.10	21.90	23.50	
		1	2	21.60	22.08	22.01	23.50	
		1	5	21.73	21.91	21.98	23.50	
		3	0	21.88	21.95	22.00	23.50	
	3MHz	QPSK	3	1	21.80	21.99	21.85	23.50
			3	3	22.05	21.78	21.83	23.50
			6	0	20.81	20.93	20.97	22.50
1			0	23.85	23.87	23.81	25.50	
1			7	23.85	23.81	23.83	25.50	
1			14	23.59	23.91	24.00	25.50	
16QAM		8	0	22.82	23.01	22.91	24.50	
		8	4	22.90	23.04	22.89	24.50	
		8	7	22.76	22.92	22.94	24.50	
		15	0	22.89	22.98	22.96	24.50	
		1	0	23.31	23.20	23.35	24.50	
		1	7	22.94	22.83	23.51	24.50	
64QAM	1	14	23.06	22.63	22.87	24.50		
	8	0	21.66	22.01	21.90	23.50		
	8	4	21.76	21.78	21.93	23.50		
	8	7	21.72	21.86	21.96	23.50		
	15	0	21.74	21.87	21.77	23.50		
	1	0	21.84	21.86	21.74	23.50		
5MHz	QPSK	1	7	21.78	21.72	21.78	23.50	
		1	14	21.53	21.85	21.95	23.50	
		8	0	20.81	20.93	20.83	22.50	
		8	4	20.79	20.97	20.81	22.50	
		8	7	20.65	20.83	20.83	22.50	
		15	0	20.82	20.92	20.92	22.50	
	5MHz	QPSK	1	0	23.79	23.97	23.97	25.50
			1	13	23.87	23.90	23.99	25.50

		1	24	23.76	23.86	23.94	25.50	
		12	0	22.88	22.96	22.83	24.50	
		12	6	22.95	22.91	22.88	24.50	
		12	13	22.81	22.83	22.83	24.50	
		25	0	22.88	23.06	22.89	24.50	
	16QAM	1	0	23.35	23.22	23.37	24.50	
		1	13	22.85	22.94	23.41	24.50	
		1	24	22.93	22.66	22.81	24.50	
		12	0	21.84	22.11	21.92	23.50	
		12	6	21.79	21.80	21.96	23.50	
		12	13	21.70	21.96	21.81	23.50	
	64QAM	25	0	21.67	21.94	21.91	23.50	
		1	0	21.67	21.85	21.85	23.50	
		1	13	21.85	21.89	21.89	23.50	
		1	24	21.75	21.82	21.83	23.50	
		12	0	20.82	20.88	20.77	22.50	
		12	6	20.85	20.82	20.87	22.50	
	10MHz	QPSK	12	13	20.71	20.71	20.80	22.50
25			0	20.78	21.03	20.81	22.50	
1			0	23.93	23.96	23.94	25.50	
1			25	23.95	23.98	23.83	25.50	
1			49	23.70	23.82	23.93	25.50	
25			0	22.80	22.92	22.92	24.50	
16QAM		25	13	22.92	23.00	22.83	24.50	
		25	25	22.70	22.88	23.01	24.50	
		50	0	22.85	23.00	22.94	24.50	
		1	0	23.22	23.14	23.36	24.50	
		1	25	22.84	22.98	23.47	24.50	
		1	49	23.02	22.58	22.79	24.50	
64QAM		25	0	21.69	21.97	21.93	23.50	
		25	13	21.82	21.83	21.85	23.50	
		25	25	21.84	21.87	21.78	23.50	
		50	0	21.76	21.87	21.79	23.50	
		1	0	21.83	21.85	21.87	23.50	
		1	25	21.93	21.87	21.78	23.50	
Bandwidth	Modulation	1	49	21.65	21.72	21.87	23.50	
		25	0	20.78	20.82	20.85	22.50	
		25	13	20.80	20.99	20.75	22.50	
		25	25	20.65	20.82	20.96	22.50	
		50	0	20.83	20.89	20.93	22.50	
		1	0	23.79	23.79	24.00	25.50	
	15MHz	QPSK	1	38	23.91	23.85	24.01	25.50
			1	74	23.62	23.89	23.83	25.50
			36	0	22.90	23.08	22.90	24.50
	36		18	22.93	22.86	22.96	24.50	
	36		39	22.77	22.91	22.95	24.50	
	75		0	22.87	23.00	22.86	24.50	
	16QAM		1	0	23.17	23.19	23.34	24.50
		1	38	22.94	22.81	23.54	24.50	
		1	74	22.92	22.59	22.77	24.50	
	Bandwidth	Modulation	RB size	RB offset	Channel 132022	Channel 132322	Channel 132622	Tune up
	Bandwidth	Modulation	RB size	RB offset	Channel 132047	Channel 132322	Channel 132597	Tune up

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				132072	132322	132572		
20MHz	64QAM	36	0	21.67	22.10	21.85	23.50	
		36	18	21.91	21.98	21.86	23.50	
		36	39	21.78	22.01	21.94	23.50	
		75	0	21.82	21.88	21.77	23.50	
		1	0	21.77	21.74	21.91	23.50	
		1	38	21.84	21.77	21.97	23.50	
		1	74	21.56	21.81	21.72	23.50	
		36	0	20.87	20.97	20.85	22.50	
		36	18	20.85	20.84	20.94	22.50	
	36	39	20.69	20.89	20.87	22.50		
	75	0	20.77	20.92	20.84	22.50		
	20MHz	QPSK	1	0	23.93	23.85	23.95	25.50
			1	50	23.97	23.98	23.86	25.50
			1	99	23.63	23.94	23.91	25.50
			50	0	22.85	23.03	22.89	24.50
			50	25	23.02	23.03	22.95	24.50
			50	50	22.79	23.01	22.87	24.50
		16QAM	100	0	22.76	22.98	22.98	24.50
1			0	23.32	23.10	23.35	24.50	
1			50	22.96	22.98	23.41	24.50	
1			99	23.09	22.53	22.82	24.50	
50			0	21.67	21.99	21.91	23.50	
50			25	21.92	21.89	21.91	23.50	
64QAM		50	50	21.80	22.03	21.92	23.50	
		100	0	21.74	21.82	21.84	23.50	
		1	0	21.86	21.78	21.94	23.50	
		1	50	21.89	21.97	21.83	23.50	
		1	99	21.59	21.93	21.87	23.50	
		50	0	20.78	21.02	20.78	22.50	
1.4MHz	QPSK	50	25	20.99	20.96	20.85	22.50	
		50	50	20.75	20.90	20.76	22.50	
		100	0	20.64	20.91	20.90	22.50	
		3	0	21.75	21.77	21.68	23.50	
		3	1	21.70	21.84	21.72	23.50	
		3	3	21.72	21.71	21.81	23.50	
1.4MHz	16QAM	6	0	21.71	21.71	21.80	23.50	
		1	0	21.99	21.97	22.02	23.50	
		1	2	21.97	22.10	22.04	23.50	
		1	5	22.04	22.13	21.90	23.50	
		3	0	21.81	21.73	21.85	23.50	
		3	1	21.72	21.75	21.89	23.50	
1.4MHz	16QAM	3	3	21.85	21.79	21.84	23.50	
		6	0	21.92	21.85	21.80	23.50	

LTE Band 66 Sensor on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				131979	132322	132665	
1.4MHz	QPSK	1	0	21.71	21.81	21.75	23.50
		1	2	21.67	21.77	21.65	23.50
		1	5	21.69	21.70	21.75	23.50
		3	0	21.75	21.77	21.68	23.50
		3	1	21.70	21.84	21.72	23.50
		3	3	21.72	21.71	21.81	23.50
	16QAM	6	0	21.71	21.71	21.80	23.50
		1	0	21.99	21.97	22.02	23.50
		1	2	21.97	22.10	22.04	23.50
		1	5	22.04	22.13	21.90	23.50
		3	0	21.81	21.73	21.85	23.50
		3	1	21.72	21.75	21.89	23.50
1.4MHz	16QAM	3	3	21.85	21.79	21.84	23.50
		6	0	21.92	21.85	21.80	23.50



		1	0	21.68	22.10	21.90	23.50
		1	2	21.60	22.08	22.01	23.50
		1	5	21.73	21.91	21.98	23.50
		3	0	21.88	21.95	22.00	23.50
		3	1	21.80	21.99	21.85	23.50
		3	3	22.05	21.78	21.83	23.50
		6	0	20.81	20.93	20.97	22.50
Bandwidth	Modulation	RB size	RB offset	Channel 131987	Channel 132322	Channel 132657	Tune up
3MHz	QPSK	1	0	21.71	21.73	21.75	23.50
		1	7	21.60	21.71	21.71	23.50
		1	14	21.68	21.60	21.67	23.50
		8	0	21.54	21.80	21.64	23.50
		8	4	21.83	21.83	21.69	23.50
		8	7	21.64	21.68	21.77	23.50
		15	0	21.57	21.84	21.78	23.50
	16QAM	1	0	21.93	21.98	22.00	23.50
		1	7	21.87	22.05	21.97	23.50
		1	14	22.02	21.89	21.91	23.50
		8	0	21.62	21.79	21.73	23.50
		8	4	21.69	21.76	21.77	23.50
		8	7	21.54	21.70	21.72	23.50
		15	0	21.67	21.76	21.67	23.50
	64QAM	1	0	21.84	21.86	21.74	23.50
		1	7	21.78	21.72	21.78	23.50
		1	14	21.53	21.85	21.95	23.50
		8	0	20.81	20.93	20.83	22.50
		8	4	20.79	20.97	20.81	22.50
		8	7	20.65	20.83	20.83	22.50
		15	0	20.82	20.92	20.92	22.50
Bandwidth	Modulation	RB size	RB offset	Channel 131997	Channel 132322	Channel 132647	Tune up
5MHz	QPSK	1	0	21.78	21.64	21.80	23.50
		1	13	21.74	21.72	21.67	23.50
		1	24	21.74	21.57	21.57	23.50
		12	0	21.64	21.85	21.71	23.50
		12	6	21.83	21.82	21.66	23.50
		12	13	21.59	21.73	21.73	23.50
		25	0	21.54	21.79	21.76	23.50
	16QAM	1	0	22.03	21.91	22.04	23.50
		1	13	21.88	21.99	21.96	23.50
		1	24	21.97	21.90	21.97	23.50
		12	0	21.68	21.77	21.74	23.50
		12	6	21.69	21.76	21.78	23.50
		12	13	21.55	21.70	21.79	23.50
		25	0	21.65	21.73	21.78	23.50
	64QAM	1	0	21.67	21.85	21.85	23.50
		1	13	21.85	21.89	21.89	23.50
		1	24	21.75	21.82	21.83	23.50
		12	0	20.82	20.88	20.77	22.50
		12	6	20.85	20.82	20.87	22.50
		12	13	20.71	20.71	20.80	22.50
		25	0	20.78	21.03	20.81	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up



Bandwidth	Modulation	RB size	RB offset	132022	132322	132622	Tune up
				Channel 132047	Channel 132322	Channel 132597	
10MHz	QPSK	1	0	21.67	21.66	21.70	23.50
		1	25	21.73	21.80	21.74	23.50
		1	49	21.72	21.57	21.68	23.50
		25	0	21.56	21.84	21.68	23.50
		25	13	21.79	21.76	21.74	23.50
		25	25	21.70	21.75	21.82	23.50
		50	0	21.53	21.71	21.71	23.50
	16QAM	1	0	22.09	21.97	22.00	23.50
		1	25	22.02	22.05	22.06	23.50
		1	49	21.97	21.97	21.99	23.50
		25	0	21.57	21.84	21.61	23.50
		25	13	21.80	21.70	21.83	23.50
		25	25	21.58	21.70	21.80	23.50
		50	0	21.54	21.83	21.67	23.50
	64QAM	1	0	21.83	21.85	21.87	23.50
		1	25	21.93	21.87	21.78	23.50
		1	49	21.65	21.72	21.87	23.50
		25	0	20.78	20.82	20.85	22.50
		25	13	20.80	20.99	20.75	22.50
		25	25	20.65	20.82	20.96	22.50
		50	0	20.83	20.89	20.93	22.50
Bandwidth	Modulation	RB size	RB offset	Channel 132047	Channel 132322	Channel 132597	Tune up
15MHz	QPSK	1	0	21.72	21.60	21.76	23.50
		1	38	21.73	21.73	21.70	23.50
		1	74	21.61	21.66	21.62	23.50
		36	0	21.64	21.74	21.66	23.50
		36	18	21.73	21.81	21.74	23.50
		36	39	21.60	21.68	21.83	23.50
		75	0	21.66	21.73	21.79	23.50
	16QAM	1	0	22.04	21.91	22.04	23.50
		1	38	21.98	22.01	22.01	23.50
		1	74	22.04	21.96	21.96	23.50
		36	0	21.70	21.90	21.70	23.50
		36	18	21.81	21.79	21.70	23.50
		36	39	21.57	21.78	21.78	23.50
		75	0	21.57	21.78	21.71	23.50
	64QAM	1	0	21.77	21.74	21.91	23.50
		1	38	21.84	21.77	21.97	23.50
		1	74	21.56	21.81	21.72	23.50
		36	0	20.87	20.97	20.85	22.50
		36	18	20.85	20.84	20.94	22.50
		36	39	20.69	20.89	20.87	22.50
		75	0	20.77	20.92	20.84	22.50
Bandwidth	Modulation	RB size	RB offset	Channel 132072	Channel 132322	Channel 132572	Tune up
20MHz	QPSK	1	0	21.63	21.61	21.71	23.50
		1	50	21.65	22.06	21.73	23.50
		1	99	21.60	21.68	21.65	23.50
		50	0	21.74	21.87	21.86	23.50
		50	25	21.74	21.77	21.68	23.50
		50	50	21.54	21.69	21.86	23.50
		100	0	21.60	21.79	21.78	23.50



	16QAM	1	0	22.05	21.97	21.97	23.50
		1	50	21.93	22.03	22.05	23.50
		1	99	21.92	22.00	21.95	23.50
		50	0	21.57	21.80	21.75	23.50
		50	25	21.66	21.84	21.83	23.50
		50	50	21.65	21.83	21.79	23.50
		100	0	21.53	21.72	21.82	23.50
	64QAM	1	0	21.86	21.78	21.94	23.50
		1	50	21.89	21.97	21.83	23.50
		1	99	21.59	21.93	21.87	23.50
		50	0	20.78	21.02	20.78	22.50
		50	25	20.99	20.96	20.85	22.50
		50	50	20.75	20.90	20.76	22.50
		100	0	20.64	20.91	20.90	22.50

LTE Band 66 Hotspot on				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				131979	132322	132665		
1.4MHz	QPSK	1	0	19.98	19.90	20.07	21.50	
		1	2	20.04	20.01	19.76	21.50	
		1	5	19.72	20.10	20.04	21.50	
		3	0	20.00	20.07	20.08	21.50	
		3	1	20.00	19.86	20.03	21.50	
		3	3	19.60	20.10	20.16	21.50	
		6	0	20.10	20.02	19.89	21.50	
	16QAM	1	0	20.17	20.06	20.03	21.50	
		1	2	19.81	20.18	20.17	21.50	
		1	5	20.08	20.00	19.87	21.50	
		3	0	19.89	20.04	20.06	21.50	
		3	1	19.76	19.99	20.07	21.50	
		3	3	20.07	20.01	20.30	21.50	
		6	0	20.03	20.06	19.97	21.50	
	64QAM	1	0	19.88	19.79	20.05	21.50	
		1	2	19.95	19.97	19.71	21.50	
		1	5	19.60	20.04	20.00	21.50	
		3	0	19.88	20.05	20.04	21.50	
		3	1	19.99	19.81	20.02	21.50	
		3	3	19.57	19.98	20.15	21.50	
		6	0	20.06	19.91	19.79	21.50	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
	3MHz	QPSK	1	0	19.93	20.12	20.13	21.50
			1	7	19.99	20.00	20.03	21.50
1			14	19.73	19.98	20.04	21.50	
8			0	19.93	19.94	20.19	21.50	
8			4	20.08	20.00	19.89	21.50	
8			7	19.52	20.09	20.08	21.50	
15			0	19.88	20.09	20.02	21.50	
16QAM		1	0	20.25	19.89	19.82	21.50	
		1	7	19.75	19.97	20.09	21.50	
		1	14	20.10	19.85	20.06	21.50	
		8	0	20.19	19.91	20.01	21.50	
		Channel	Channel	Channel	Tune up			
		131987	132322	132657				



	64QAM	8	4	19.80	20.14	19.95	21.50
		8	7	19.95	19.92	20.18	21.50
		15	0	20.22	20.12	19.86	21.50
		1	0	19.81	20.01	20.08	21.50
		1	7	19.92	19.95	20.00	21.50
		1	14	19.65	19.93	19.99	21.50
		8	0	19.85	19.90	20.09	21.50
		8	4	20.03	19.99	19.88	21.50
		8	7	19.66	20.01	19.97	21.50
		15	0	19.81	19.98	19.99	21.50
Bandwidth	Modulation	RB size	RB offset	Channel 131997	Channel 132322	Channel 132647	Tune up
5MHz	QPSK	1	0	19.88	20.01	20.10	21.50
		1	13	20.03	19.85	20.06	21.50
		1	24	19.65	19.98	19.92	21.50
		12	0	20.06	20.04	20.14	21.50
		12	6	20.20	19.94	19.91	21.50
		12	13	19.68	20.06	20.06	21.50
		25	0	19.83	20.16	20.15	21.50
	16QAM	1	0	20.18	20.04	19.84	21.50
		1	13	19.85	20.00	19.99	21.50
		1	24	20.22	19.85	20.03	21.50
		12	0	20.00	20.03	19.86	21.50
		12	6	19.79	20.03	19.90	21.50
		12	13	20.07	19.86	20.02	21.50
		25	0	20.05	20.22	19.88	21.50
	64QAM	1	0	19.77	19.92	20.03	21.50
		1	13	19.91	19.76	20.05	21.50
		1	24	19.56	19.88	19.81	21.50
		12	0	20.03	19.94	20.13	21.50
		12	6	20.11	19.87	19.84	21.50
		12	13	19.62	19.96	20.05	21.50
		25	0	19.71	20.04	20.05	21.50
Bandwidth	Modulation	RB size	RB offset	Channel 132022	Channel 132322	Channel 132622	Tune up
10MHz	QPSK	1	0	20.00	20.12	20.22	21.50
		1	25	20.01	19.83	19.96	21.50
		1	49	19.66	20.00	19.95	21.50
		25	0	20.02	20.16	20.03	21.50
		25	13	20.26	19.84	19.91	21.50
		25	25	19.62	19.93	20.01	21.50
		50	0	19.94	19.88	20.16	21.50
	16QAM	1	0	20.20	20.07	20.01	21.50
		1	25	19.84	20.14	20.08	21.50
		1	49	20.02	19.82	20.04	21.50
		25	0	20.05	20.03	19.80	21.50
		25	13	19.65	20.20	19.83	21.50
		25	25	20.15	19.78	20.26	21.50
		50	0	20.15	20.22	19.91	21.50
	64QAM	1	0	19.94	20.06	20.21	21.50
		1	25	19.93	19.73	19.86	21.50
		1	49	19.64	19.90	19.89	21.50
		25	0	19.95	20.07	19.93	21.50
		25	13	20.19	19.79	19.83	21.50



Bandwidth	Modulation	25	25	19.61	19.81	19.95	21.50
		50	0	19.85	19.85	20.12	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				132047	132322	132597	
15MHz	QPSK	1	0	19.92	19.96	20.20	21.50
		1	38	19.99	19.91	19.93	21.50
		1	74	19.67	19.99	20.14	21.50
		36	0	19.97	20.04	20.15	21.50
		36	18	20.17	19.77	20.02	21.50
		36	39	19.67	19.96	19.95	21.50
		75	0	19.90	19.89	20.00	21.50
	16QAM	1	0	20.13	19.82	19.90	21.50
		1	38	19.62	20.03	20.06	21.50
		1	74	20.05	19.97	20.05	21.50
		36	0	19.90	20.07	19.80	21.50
		36	18	19.74	20.07	19.84	21.50
		36	39	20.04	19.96	20.07	21.50
		75	0	20.03	20.13	19.81	21.50
	64QAM	1	0	19.86	19.88	20.10	21.50
		1	38	19.96	19.89	19.84	21.50
		1	74	19.60	19.91	20.08	21.50
		36	0	19.89	20.02	20.10	21.50
		36	18	20.15	19.73	20.00	21.50
		36	39	19.64	19.86	19.89	21.50
		75	0	19.88	19.85	19.96	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	QPSK	1	0	19.98	20.05	20.10	21.50
		1	50	20.00	20.16	19.91	21.50
		1	99	19.75	20.07	20.03	21.50
		50	0	20.04	20.15	20.10	21.50
		50	25	20.14	19.91	19.92	21.50
		50	50	19.64	19.97	20.02	21.50
		100	0	19.96	20.03	20.04	21.50
	16QAM	1	0	20.12	19.95	19.93	21.50
		1	50	19.72	20.07	20.03	21.50
		1	99	20.12	19.90	20.00	21.50
		50	0	20.04	20.01	19.95	21.50
		50	25	19.73	20.05	19.96	21.50
		50	50	20.05	19.93	20.15	21.50
		100	0	20.07	20.07	19.92	21.50
	64QAM	1	0	19.95	19.93	20.02	21.50
		1	50	19.95	20.09	19.86	21.50
		1	99	19.70	20.04	20.00	21.50
		50	0	20.03	20.05	19.99	21.50
		50	25	20.09	19.81	19.87	21.50
		50	50	19.63	19.90	19.99	21.50
		100	0	19.88	20.00	19.97	21.50

3 Conducted Power of Main Antenna(Ant3)

3.1 Conducted Power of GSM

GSM 850 Full power										
Burst Output Power(dBm)				Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up	
Channel		128	190			251	128	190		251
GSM(GMSK)	GSM	32.19	32.36	32.30	33.50	-9.19	23	23.17	23.11	24.31
GPRS/EGPRS (GMSK)	1 TX Slot	32.20	32.30	32.26	33.50	-9.19	23.01	23.11	23.07	24.31
	2 TX Slots	28.94	29.16	29.12	30.50	-6.18	22.76	22.98	22.94	24.32
	3 TX Slots	26.89	27.13	27.14	28.70	-4.42	22.47	22.71	22.72	24.28
	4 TX Slots	25.53	25.56	25.58	27.50	-3.17	22.36	22.39	22.41	24.33
EGPRS(8PSK)	1 TX Slot	26.16	26.04	26.28	27.50	-9.19	16.97	16.85	17.09	18.31
	2 TX Slots	22.89	22.82	23.04	24.50	-6.18	16.71	16.64	16.86	18.32
	3 TX Slots	20.97	20.86	20.93	22.70	-4.42	16.55	16.44	16.51	18.28
	4 TX Slots	19.69	19.54	19.58	21.50	-3.17	16.52	16.37	16.41	18.33

GSM 850 Receiver on&Hotspot on										
Burst Output Power(dBm)				Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up	
Channel		128	190			251	128	190		251
GSM(GMSK)	GSM	30.30	30.41	30.47	31.50	-9.19	21.11	21.22	21.28	22.31
GPRS/EGPRS (GMSK)	1 TX Slot	30.37	30.49	30.53	31.50	-9.19	21.18	21.3	21.34	22.31
	2 TX Slots	27.10	27.24	27.28	28.50	-6.18	20.92	21.06	21.1	22.32
	3 TX Slots	25.13	25.26	25.31	26.70	-4.42	20.71	20.84	20.89	22.28
	4 TX Slots	23.60	23.79	23.81	25.50	-3.17	20.43	20.62	20.64	22.33
EGPRS(8PSK)	1 TX Slot	26.16	26.04	26.28	27.50	-9.19	16.97	16.85	17.09	18.31
	2 TX Slots	22.89	22.82	23.04	24.50	-6.18	16.71	16.64	16.86	18.32
	3 TX Slots	20.97	20.86	20.93	22.70	-4.42	16.55	16.44	16.51	18.28
	4 TX Slots	19.69	19.54	19.58	21.50	-3.17	16.52	16.37	16.41	18.33

3.2 Conducted Power of WCDMA

WCDMA Band V Receiver on&Hotspot on					
Average Conducted Power(dBm)					
	Channel	4132	4182	4233	Tune up
WCDMA	12.2kbps RMC	19.32	19.24	19.23	21.00
	12.2kbps AMR	19.30	19.22	19.20	21.00
HSDPA	Subtest 1	18.23	18.21	18.17	20.00
	Subtest 2	18.17	18.18	18.13	20.00
	Subtest 3	17.71	17.76	17.70	19.00
	Subtest 4	17.67	17.69	17.63	19.00
HSUPA	Subtest 1	16.29	16.37	16.26	18.00
	Subtest 2	16.28	16.35	16.30	18.00
	Subtest 3	17.35	17.25	17.18	19.00
	Subtest 4	15.94	15.88	15.81	17.00
	Subtest 5	17.19	17.20	17.09	18.00

WCDMA Band V Sensor on					
Average Conducted Power(dBm)					
	Channel	4132	4182	4233	Tune up
WCDMA	12.2kbps RMC	21.20	21.21	21.31	23.00
	12.2kbps AMR	21.15	21.16	21.27	23.00
HSDPA	Subtest 1	20.31	20.35	20.32	22.00
	Subtest 2	20.34	20.38	20.30	22.00
	Subtest 3	19.87	19.92	19.85	21.00
	Subtest 4	19.84	19.88	19.80	21.00
HSUPA	Subtest 1	18.30	18.36	18.29	20.00
	Subtest 2	18.29	18.35	18.29	20.00
	Subtest 3	19.28	19.41	19.32	21.00
	Subtest 4	17.92	17.87	17.79	18.00
	Subtest 5	19.30	19.40	19.30	20.00

WCDMA Band V Full power					
Average Conducted Power(dBm)					
	Channel	4132	4182	4233	Tune up
WCDMA	12.2kbps RMC	23.37	23.37	23.45	25.00
	12.2kbps AMR	23.35	23.3	23.42	25.00
HSDPA	Subtest 1	22.11	22.11	22.05	24.00
	Subtest 2	22.15	22.32	22.12	24.00
	Subtest 3	21.56	21.63	21.59	23.00
	Subtest 4	21.56	21.59	21.53	23.00
HSUPA	Subtest 1	20.17	20.27	20.11	22.00
	Subtest 2	20.14	20.25	20.17	22.00
	Subtest 3	21.21	21.13	21.04	23.00
	Subtest 4	19.83	19.73	19.68	21.00
	Subtest 5	21.06	21.07	20.96	22.00

3.3 Conducted Power of LTE

LTE Band 5				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20407	20525	20643	
1.4MHz	QPSK	1	0	23.37	23.16	23.19	25.00
		1	2	23.25	23.19	23.48	25.00
		1	5	23.17	23.21	23.11	25.00
		3	0	23.29	23.41	23.3	25.00
		3	2	23.24	23.33	23.38	25.00
		3	3	23.3	23.41	23.41	25.00
	16QAM	6	0	22.31	22.36	22.3	24.00
		1	0	22.34	22.49	22.48	24.00
		1	2	22.72	22.8	22.12	24.00
		1	5	22.14	22.15	22.53	24.00
		3	0	22.32	22.38	22.34	24.00
		3	2	22.43	22.31	22.17	24.00
	64QAM	3	3	22.31	22.32	22.35	24.00
		6	0	21.29	21.2	21.34	23.00
		1	0	21.28	21.04	21.15	23.00
		1	2	21.16	21.16	21.46	23.00
		1	5	21.07	21.13	21.09	23.00
		3	0	21.27	21.30	21.27	23.00
3MHz	QPSK	3	2	21.15	21.22	21.31	23.00
		3	3	21.21	21.30	21.30	23.00
		6	0	20.20	20.28	20.20	22.00
		1	0	23.48	23.44	23.36	25.00
		1	7	23.34	23.43	23.22	25.00
		1	14	23.34	23.36	23.32	25.00
	16QAM	8	0	22.33	22.3	22.28	24.00
		8	4	22.31	22.25	22.33	24.00
		8	7	22.27	22.3	22.28	24.00
		15	0	22.27	22.44	22.27	24.00
		1	0	22.35	22.76	22.69	24.00
		1	7	22.84	22.57	22.42	24.00
64QAM	1	14	22.4	22.49	22.78	24.00	
	8	0	21.33	21.31	21.29	23.00	
	8	4	21.36	21.2	21.31	23.00	
	8	7	21.46	21.41	21.29	23.00	
	15	0	21.27	21.36	21.2	23.00	
	1	0	21.45	21.39	21.29	23.00	
5MHz	QPSK	1	7	21.31	21.35	21.10	23.00
		1	14	21.22	21.24	21.27	23.00
		8	0	20.23	20.21	20.18	22.00
		8	4	20.28	20.21	20.28	22.00
		8	7	20.26	20.27	20.24	22.00
		15	0	20.15	20.41	20.17	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20425	20525	20625	
5MHz	QPSK	1	0	23.31	23.42	23.24	25.00

		1	13	23.24	23.33	23.36	25.00			
		1	24	23.36	23.39	23.28	25.00			
		12	0	22.38	22.35	22.38	24.00			
		12	6	22.35	22.34	22.32	24.00			
		12	13	22.32	22.34	22.35	24.00			
		25	0	22.32	22.33	22.34	24.00			
	16QAM	1	0	22.59	22.52	22.7	24.00			
		1	13	22.65	22.76	22.09	24.00			
		1	24	22.79	22.77	22.75	24.00			
		12	0	21.25	21.35	21.28	23.00			
		12	6	21.24	21.36	21.25	23.00			
		12	13	21.28	21.21	21.34	23.00			
	64QAM	25	0	21.3	21.34	21.38	23.00			
		1	0	21.25	21.30	21.19	23.00			
		1	13	21.13	21.22	21.33	23.00			
		1	24	21.34	21.30	21.24	23.00			
		12	0	20.31	20.23	20.32	22.00			
		12	6	20.26	20.23	20.22	22.00			
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
					20450	20525	20600			
					1	0	23.28		23.42	23.32
1					25	23.28	23.44		23.28	25.00
1					49	23.53	23.38		23.3	25.00
25					0	22.28	22.2		22.3	24.00
10MHz	QPSK	25	13	22.37	22.31	22.32	24.00			
		25	25	22.38	22.38	22.32	24.00			
		50	0	22.35	22.34	22.4	24.00			
		1	0	22.73	22.84	22.84	24.00			
		1	25	22.59	23	22.62	24.00			
		1	49	22.27	22.94	22.66	24.00			
	16QAM	25	0	21.39	21.15	21.23	23.00			
		25	13	21.35	21.35	21.33	23.00			
		25	25	21.32	21.37	21.31	23.00			
		50	0	21.28	21.36	21.34	23.00			
		1	0	21.21	21.33	21.22	23.00			
		1	25	21.22	21.39	21.17	23.00			
	64QAM	1	49	21.44	21.36	21.22	23.00			
		25	0	20.18	20.10	20.24	22.00			
		25	13	20.36	20.23	20.31	22.00			
		25	25	20.27	20.28	20.20	22.00			
		50	0	20.26	20.28	20.37	22.00			



LTE Band 5 Receiver on&Hotspot on				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				20407	20525	20643		
1.4MHz	QPSK	1	0	17.26	17.26	17.27	19.00	
		1	2	17.28	17.36	17.36	19.00	
		1	5	17.28	17.26	17.40	19.00	
		3	0	17.20	17.22	17.18	19.00	
		3	2	17.17	17.26	17.23	19.00	
		3	3	17.41	17.21	17.10	19.00	
	16QAM	6	0	17.35	17.24	17.37	19.00	
		1	0	17.13	17.23	17.14	19.00	
		1	2	17.16	17.35	17.18	19.00	
		1	5	17.19	17.18	17.18	19.00	
		3	0	17.35	17.20	17.21	19.00	
		3	2	17.26	17.23	17.24	19.00	
	64QAM	3	3	17.30	17.26	17.10	19.00	
		6	0	17.22	17.29	17.23	19.00	
		1	0	17.21	17.19	17.17	19.00	
		1	2	17.19	17.33	17.24	19.00	
		1	5	17.26	17.23	17.37	19.00	
		3	0	17.19	17.14	17.07	19.00	
	3MHz	QPSK	3	2	17.07	17.16	17.19	19.00
			3	3	17.29	17.16	17.03	19.00
			6	0	17.28	17.22	17.31	19.00
1			0	17.38	17.20	17.25	19.00	
1			7	17.22	17.25	17.21	19.00	
1			14	17.35	17.42	17.30	19.00	
16QAM		8	0	17.27	17.13	17.17	19.00	
		8	4	17.18	17.34	17.22	19.00	
		8	7	17.39	17.17	17.09	19.00	
		15	0	17.24	17.29	17.17	19.00	
		1	0	17.05	17.36	17.16	19.00	
		1	7	17.21	17.34	17.19	19.00	
64QAM	1	14	17.03	17.30	17.19	19.00		
	8	0	17.34	17.19	17.29	19.00		
	8	4	17.31	17.31	17.24	19.00		
	8	7	17.31	17.14	17.16	19.00		
	8	7	17.38	17.15	17.02	19.00		
	15	0	17.26	17.17	17.30	19.00		
5MHz	QPSK	1	0	17.36	17.12	17.24	19.00	
		1	7	17.17	17.22	17.20	19.00	
		1	14	17.32	17.30	17.29	19.00	
		8	0	17.20	17.10	17.11	19.00	
		8	4	17.06	17.26	17.16	19.00	
		8	7	17.38	17.15	17.02	19.00	
	16QAM	15	0	17.17	17.24	17.15	19.00	
		Channel	Channel	Channel	Tune up			
		20425	20525	20625				
		1	0	17.29	17.25	17.21	19.00	
		1	13	17.37	17.27	17.28	19.00	



		1	24	17.44	17.36	17.26	19.00	
		12	0	17.18	17.19	17.21	19.00	
		12	6	17.24	17.21	17.26	19.00	
		12	13	17.39	17.17	17.22	19.00	
		25	0	17.29	17.28	17.26	19.00	
	16QAM	1	0	17.17	17.26	17.16	19.00	
		1	13	17.03	17.23	17.08	19.00	
		1	24	17.20	17.21	17.11	19.00	
		12	0	17.34	17.24	17.22	19.00	
		12	6	17.22	17.28	17.22	19.00	
		12	13	17.39	17.31	17.11	19.00	
	64QAM	25	0	17.23	17.30	17.19	19.00	
		1	0	17.21	17.18	17.12	19.00	
		1	13	17.31	17.24	17.19	19.00	
		1	24	17.33	17.32	17.23	19.00	
		12	0	17.15	17.15	17.09	19.00	
		12	6	17.20	17.16	17.15	19.00	
		12	13	17.27	17.16	17.15	19.00	
	25	0	17.17	17.19	17.17	19.00		
	Bandwidth	Modulation	RB size	RB offset	Channel 20450	Channel 20525	Channel 20600	Tune up
	10MHz	QPSK	1	0	17.35	17.25	17.27	19.00
1			25	17.32	17.38	17.26	19.00	
1			49	17.37	17.33	17.30	19.00	
25			0	17.27	17.30	17.22	19.00	
25			13	17.23	17.25	17.22	19.00	
25			25	17.30	17.25	17.17	19.00	
50			0	17.27	17.26	17.27	19.00	
16QAM		1	0	17.15	17.31	17.09	19.00	
		1	25	17.11	17.27	17.13	19.00	
		1	49	17.12	17.21	17.20	19.00	
		25	0	17.35	17.25	17.21	19.00	
		25	13	17.22	17.30	17.30	19.00	
		25	25	17.34	17.24	17.17	19.00	
64QAM		50	0	17.28	17.21	17.29	19.00	
		1	0	17.32	17.22	17.15	19.00	
		1	25	17.29	17.37	17.20	19.00	
		1	49	17.31	17.22	17.23	19.00	
		25	0	17.23	17.26	17.11	19.00	
		25	13	17.12	17.14	17.21	19.00	
		25	25	17.31	17.13	17.07	19.00	
50		0	17.15	17.22	17.17	19.00		

LTE Band 5 Full power				Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
				20407	20525	20643			
1.4MHz	QPSK	1	0	21.87	21.87	21.84	23.50		
		1	2	21.70	21.94	21.84	23.50		
		1	5	21.92	21.92	21.87	23.50		
		3	0	21.85	21.93	21.89	23.50		
		3	2	21.77	21.79	21.78	23.50		
		3	3	21.82	21.86	21.97	23.50		
	16QAM	6	0	22.01	21.88	21.85	22.50		
		1	0	21.64	21.83	21.71	22.50		
		1	2	22.00	21.63	21.73	22.50		
		1	5	21.75	21.81	21.80	22.50		
		3	0	21.84	21.66	21.85	22.50		
		3	2	21.89	21.71	21.81	22.50		
	64QAM	3	3	21.77	21.72	21.75	22.50		
		6	0	20.79	20.70	20.84	22.50		
		1	0	21.28	21.04	21.15	23.00		
		1	2	21.16	21.16	21.46	23.00		
		1	5	21.07	21.13	21.09	23.00		
		3	0	21.27	21.30	21.27	23.00		
	3MHz	QPSK	3	2	21.15	21.22	21.31	23.00	
			3	3	21.21	21.30	21.30	23.00	
			6	0	20.20	20.28	20.20	22.00	
1			0	21.79	21.94	21.87	23.50		
1			7	21.85	21.94	21.81	23.50		
1			14	21.96	21.97	21.91	23.50		
16QAM		8	0	21.81	21.77	21.85	22.50		
		8	4	21.91	21.84	21.85	22.50		
		8	7	21.85	21.85	21.92	22.50		
		15	0	22.03	21.82	21.88	22.50		
		1	0	21.71	21.75	21.97	22.50		
		1	7	21.98	21.77	21.85	22.50		
64QAM	1	14	21.83	21.85	21.77	22.50			
	8	0	20.83	20.81	20.79	22.50			
	8	4	20.86	20.70	20.81	22.50			
	8	7	20.96	20.91	20.79	22.50			
	15	0	20.77	20.86	20.70	22.50			
	1	0	21.45	21.39	21.29	23.00			
5MHz	QPSK	1	7	21.31	21.35	21.10	23.00		
		1	14	21.22	21.24	21.27	23.00		
		8	0	20.23	20.21	20.18	22.00		
		8	4	20.28	20.21	20.28	22.00		
		8	7	20.26	20.27	20.24	22.00		
		15	0	20.15	20.41	20.17	22.00		
		Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
						20425	20525	20625	
		5MHz	QPSK	1	0	21.87	21.79	21.93	23.50
				1	13	21.70	21.75	21.76	23.50
				1	24	21.95	21.79	21.97	23.50
				12	0	21.85	21.91	21.92	22.50

	16QAM	12	6	21.82	21.92	21.94	22.50
		12	13	21.82	21.92	21.84	22.50
		25	0	21.99	21.98	22.04	22.50
		1	0	22.03	21.65	21.89	22.50
		1	13	21.77	21.83	21.85	22.50
		1	24	21.91	21.95	21.64	22.50
		12	0	20.75	20.85	20.78	22.50
		12	6	20.74	20.86	20.75	22.50
		12	13	20.78	20.71	20.84	22.50
	25	0	20.80	20.84	20.88	22.50	
	64QAM	1	0	21.25	21.30	21.19	23.00
		1	13	21.13	21.22	21.33	23.00
		1	24	21.34	21.30	21.24	23.00
		12	0	20.31	20.23	20.32	22.00
		12	6	20.26	20.23	20.22	22.00
		12	13	20.26	20.31	20.31	22.00
		25	0	20.27	20.30	20.27	22.00
	Bandwidth	Modulation	RB size	RB offset	Channel 20450	Channel 20525	Channel 20600
10MHz	QPSK	1	0	21.81	21.86	21.93	23.50
		1	25	21.76	22.00	21.76	23.50
		1	49	21.93	21.88	21.91	23.50
		25	0	21.89	21.97	21.86	22.50
		25	13	21.82	21.89	21.85	22.50
		25	25	21.91	21.90	21.88	22.50
		50	0	21.95	21.90	21.95	22.50
	16QAM	1	0	21.73	21.80	21.94	22.50
		1	25	21.68	21.76	21.81	22.50
		1	49	21.83	21.81	21.74	22.50
		25	0	20.89	20.65	20.73	22.50
		25	13	20.85	20.85	20.83	22.50
		25	25	20.82	20.87	20.81	22.50
		50	0	20.78	20.86	20.84	22.50
	64QAM	1	0	21.21	21.33	21.22	23.00
		1	25	21.22	21.39	21.17	23.00
		1	49	21.44	21.36	21.22	23.00
		25	0	20.18	20.10	20.24	22.00
		25	13	20.36	20.23	20.31	22.00
		25	25	20.27	20.28	20.20	22.00
		50	0	20.26	20.28	20.37	22.00

LTE Band 12				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				23017	23095	23173		
1.4MHz	QPSK	1	0	23.42	23.06	23.48	25.00	
		1	2	23.33	23.25	23.16	25.00	
		1	5	23.41	23.38	23.19	25.00	
		3	0	23.47	23.44	23.25	25.00	
		3	2	23.45	23.32	23.37	25.00	
		3	3	23.37	23.31	23.32	25.00	
	16QAM	6	0	22.37	22.34	22.28	24.00	
		1	0	22.68	22.71	22.32	24.00	
		1	2	23.18	22.95	22.59	24.00	
		1	5	22.55	22.77	22.78	24.00	
		3	0	22.37	22.05	22.33	24.00	
		3	2	22.42	22.39	22.18	24.00	
	64QAM	3	3	22.11	22.35	22.36	24.00	
		6	0	21.41	21.37	21.31	23.00	
		1	0	21.39	21.38	21.43	23.00	
		1	2	21.22	21.17	21.11	23.00	
		1	5	21.32	21.36	21.12	23.00	
		3	0	21.37	21.33	21.20	23.00	
	3MHz	QPSK	3	2	21.33	21.27	21.36	23.00
			3	3	21.31	21.23	21.29	23.00
			6	0	20.35	20.26	20.26	22.00
1			0	23.29	23.34	23.29	25.00	
1			7	23.34	23.4	23.26	25.00	
1			14	23.34	23.24	23.25	25.00	
16QAM		8	0	22.36	22.27	22.34	24.00	
		8	4	22.36	22.29	22.32	24.00	
		8	7	22.28	22.25	22.25	24.00	
		15	0	22.31	22.25	22.35	24.00	
		1	0	22.59	22.81	23.07	24.00	
		1	7	23.05	22.74	22.55	24.00	
64QAM		1	14	22.72	22.9	22.85	24.00	
		8	0	21.41	21.37	21.35	23.00	
		8	4	21.44	21.3	21.34	23.00	
		8	7	21.33	21.39	21.36	23.00	
		15	0	21.53	21.17	21.26	23.00	
		1	0	21.28	21.24	21.22	23.00	
5MHz		QPSK	1	7	21.30	21.39	21.14	23.00
			1	14	21.26	21.23	21.20	23.00
			8	0	20.28	20.26	20.26	22.00
	8		4	20.24	20.24	20.30	22.00	
	8		7	20.16	20.13	20.23	22.00	
	15		0	20.20	20.20	20.28	22.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				23035	23095	23155		
5MHz	QPSK	1	0	23.42	23.55	23.3	25.00	
		1	13	23.32	23.35	23.3	25.00	
		1	24	23.45	23.3	23.31	25.00	
		12	0	22.29	22.37	22.27	24.00	



	16QAM	12	6	22.37	22.34	22.35	24.00
		12	13	22.35	22.27	22.23	24.00
		25	0	22.41	22.33	22.25	24.00
		1	0	22.65	22.97	22.92	24.00
		1	13	22.31	22.31	22.61	24.00
		1	24	22.28	22.64	22.2	24.00
		12	0	21.32	21.34	21.25	23.00
		12	6	21.16	21.3	21.26	23.00
		12	13	21.38	21.18	21.26	23.00
	25	0	21.3	21.31	21.29	23.00	
	64QAM	1	0	21.33	21.47	21.27	23.00
		1	13	21.29	21.27	21.28	23.00
		1	24	21.39	21.20	21.29	23.00
		12	0	20.20	20.28	20.26	22.00
		12	6	20.34	20.33	20.30	22.00
		12	13	20.34	20.26	20.14	22.00
		25	0	20.32	20.22	20.18	22.00
	Bandwidth	Modulation	RB size	RB offset	Channel 23060	Channel 23095	Channel 23130
10MHz	QPSK	1	0	23.32	23.29	23.3	25.00
		1	25	23.51	23.52	23.51	25.00
		1	49	23.38	23.47	23.46	25.00
		25	0	22.27	22.47	22.46	24.00
		25	13	22.33	22.35	22.38	24.00
		25	25	22.25	22.28	22.42	24.00
		50	0	22.29	22.38	22.47	24.00
	16QAM	1	0	23.09	23.04	22.52	24.00
		1	25	22.96	22.86	22.64	24.00
		1	49	22.64	22.62	22.35	24.00
		25	0	21.21	21.33	21.42	23.00
		25	13	21.34	21.39	21.36	23.00
		25	25	21.16	21.16	21.46	23.00
		50	0	21.23	21.29	21.45	23.00
	64QAM	1	0	21.20	21.25	21.21	23.00
		1	25	21.46	21.46	21.46	23.00
		1	49	21.32	21.45	21.38	23.00
		25	0	20.20	20.44	20.40	22.00
		25	13	20.29	20.28	20.35	22.00
		25	25	20.22	20.27	20.37	22.00
		50	0	20.17	20.30	20.36	22.00

LTE Band 13 Full power				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				23205	23230	23255		
5MHz	QPSK	1	0	23.26	23.37	23.37	25.00	
		1	13	23.32	23.28	23.32	25.00	
		1	24	23.46	23.2	23.28	25.00	
		12	0	22.18	22.28	22.23	24.00	
		12	6	22.27	22.25	22.24	24.00	
		12	13	22.26	22.16	22.19	24.00	
	16QAM	25	0	22.24	22.21	22.2	24.00	
		1	0	22.28	22.45	22.61	24.00	
		1	13	22.4	22.38	22.66	24.00	
		1	24	22.33	22.23	22.26	24.00	
		12	0	21.02	21.21	21.24	23.00	
		12	6	21.3	21.21	21.16	23.00	
	64QAM	12	13	21.1	21.19	21.08	23.00	
		25	0	21.26	21.16	21.14	23.00	
		1	0	21.24	21.28	21.32	23.00	
		1	13	21.20	21.20	21.28	23.00	
		1	24	21.38	21.16	21.23	23.00	
		12	0	20.13	20.16	20.12	22.00	
	10MHz	QPSK	12	6	20.15	20.13	20.17	22.00
			12	13	20.21	20.05	20.10	22.00
			25	0	20.20	20.13	20.15	22.00
1			0	/	23.38	/	25.00	
1			25	/	23.43	/	25.00	
1			49	/	23.16	/	25.00	
16QAM		25	0	/	22.22	/	24.00	
		25	13	/	22.22	/	24.00	
		25	25	/	22.20	/	24.00	
		50	0	/	22.21	/	24.00	
		1	0	/	22.71	/	24.00	
		1	25	/	22.31	/	24.00	
64QAM	1	49	/	22.44	/	24.00		
	25	0	/	21.21	/	23.00		
	25	13	/	21.13	/	23.00		
	25	25	/	21.15	/	23.00		
	50	0	/	21.17	/	23.00		
	1	0	/	21.31	/	23.00		
64QAM	1	25	/	21.40	/	23.00		
	1	49	/	21.08	/	23.00		
	25	0	/	20.19	/	22.00		
	25	13	/	20.19	/	22.00		
	25	25	/	20.16	/	22.00		
	50	0	/	20.17	/	22.00		

LTE Band 13 Receiver on&Hotspot on				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				23205	23230	23255		
5MHz	QPSK	1	0	21.24	21.22	21.23	23.00	
		1	13	21.3	21.23	21.26	23.00	
		1	24	21.27	21.23	21.18	23.00	
		12	0	21.18	21.24	21.28	23.00	
		12	6	21.24	21.24	21.24	23.00	
		12	13	21.27	21.22	21.19	23.00	
	16QAM	25	0	21.25	21.23	21.24	23.00	
		1	0	21.47	21.56	21.54	23.00	
		1	13	21.57	21.52	21.56	23.00	
		1	24	21.56	21.48	21.46	23.00	
		12	0	21.17	21.22	21.26	23.00	
		12	6	21.24	21.23	21.23	23.00	
	64QAM	12	13	21.2	21.19	21.15	23.00	
		25	0	21.26	21.24	21.24	23.00	
		1	0	21.24	21.28	21.32	23.00	
		1	13	21.20	21.20	21.28	23.00	
		1	24	21.38	21.16	21.23	23.00	
		12	0	20.13	20.16	20.12	22.00	
	10MHz	QPSK	12	6	20.15	20.13	20.17	22.00
			12	13	20.21	20.05	20.10	22.00
			25	0	20.20	20.13	20.15	22.00
1			0	/	23230	/	23.00	
1			25	/	21.23	/	23.00	
1			49	/	21.2	/	23.00	
16QAM		25	0	/	21.23	/	23.00	
		25	13	/	21.23	/	23.00	
		25	25	/	21.16	/	23.00	
		50	0	/	21.23	/	23.00	
		1	0	/	21.5	/	23.00	
		1	25	/	21.55	/	23.00	
64QAM	1	49	/	21.53	/	23.00		
	25	0	/	21.15	/	23.00		
	25	13	/	21.24	/	23.00		
	25	25	/	21.2	/	23.00		
	50	0	/	21.19	/	23.00		
	1	0	/	21.31	/	23.00		
64QAM	1	25	/	21.40	/	23.00		
	1	49	/	21.08	/	23.00		
	25	0	/	20.19	/	22.00		
	25	13	/	20.19	/	22.00		
	25	25	/	20.16	/	22.00		
	50	0	/	20.17	/	22.00		

LTE Band 17				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				23755	23790	23825		
5MHz	QPSK	1	0	23.33	23.25	23.4	25.00	
		1	13	23.28	23.43	23.25	25.00	
		1	24	23.36	23.33	23.53	25.00	
		12	0	22.37	22.36	22.26	24.00	
		12	6	22.29	22.3	22.33	24.00	
		12	13	22.28	22.34	22.27	24.00	
	16QAM	25	0	22.33	22.39	22.24	24.00	
		1	0	22.87	22.53	23.09	24.00	
		1	13	22.55	23.09	22.31	24.00	
		1	24	23.05	23.11	22.9	24.00	
		12	0	21.41	21.41	21.33	23.00	
		12	6	21.16	21.32	21.36	23.00	
	64QAM	12	13	21.2	21.35	21.26	23.00	
		25	0	21.22	21.26	21.24	23.00	
		1	0	21.30	21.14	21.35	23.00	
		1	13	21.17	21.37	21.13	23.00	
		1	24	21.26	21.29	21.48	23.00	
		12	0	20.25	20.25	20.23	22.00	
	10MHz	QPSK	12	6	20.28	20.22	20.28	22.00
			12	13	20.25	20.31	20.21	22.00
			25	0	20.26	20.34	20.16	22.00
1			0	23.29	23.37	23.37	25.00	
1			25	23.35	23.45	23.43	25.00	
1			49	23.31	23.41	23.39	25.00	
16QAM		25	0	22.38	22.44	22.41	24.00	
		25	13	22.33	22.39	22.40	24.00	
		25	25	22.41	22.43	22.38	24.00	
		50	0	22.46	22.47	22.47	24.00	
		1	0	22.62	22.41	22.41	24.00	
		1	25	22.51	23.13	22.63	24.00	
64QAM		1	49	23.14	22.47	23.10	24.00	
		25	0	21.34	21.37	21.38	23.00	
		25	13	21.31	21.23	21.39	23.00	
	25	25	21.26	21.47	21.33	23.00		
	50	0	21.31	21.35	21.38	23.00		
	1	0	21.17	21.33	21.28	23.00		
64QAM	1	25	21.26	21.36	21.36	23.00		
	1	49	21.28	21.32	21.36	23.00		
	25	0	20.29	20.43	20.34	22.00		
	25	13	20.27	20.29	20.37	22.00		
	25	25	20.35	20.42	20.37	22.00		
	50	0	20.34	20.38	20.43	22.00		



LTE Band 26				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				26697	26865	27033		
1.4MHz	QPSK	1	0	23.21	23.15	23.42	25.00	
		1	2	23.41	23.57	23.43	25.00	
		1	5	23.2	23.36	23.45	25.00	
		3	0	23.36	23.19	23.22	25.00	
		3	2	23.2	23.26	23.29	25.00	
		3	3	23.26	23.3	23.23	25.00	
	16QAM	6	0	22.26	22.33	22.22	24.00	
		1	0	22.19	22.16	22.48	24.00	
		1	2	22.64	22.37	22.21	24.00	
		1	5	22.75	22.14	22.86	24.00	
		3	0	22.31	22.2	22.24	24.00	
		3	2	22.12	22.17	22.29	24.00	
	64QAM	3	3	22.3	22.17	22.21	24.00	
		6	0	21.46	21.29	21.24	23.00	
		1	0	21.16	21.12	21.35	23.00	
		1	2	21.35	21.48	21.35	23.00	
		1	5	21.18	21.26	21.35	23.00	
		3	0	21.27	21.07	21.18	23.00	
	3MHz	QPSK	3	2	21.19	21.15	21.27	23.00
			3	3	21.14	21.23	21.15	23.00
			6	0	20.18	20.25	20.17	22.00
1			0	23.23	23.21	23.24	25.00	
1			7	23.41	23.53	23.3	25.00	
1			14	23.25	23.52	23.17	25.00	
16QAM		8	0	22.25	22.25	22.24	24.00	
		8	4	22.17	22.23	22.2	24.00	
		8	7	22.28	22.28	22.23	24.00	
		15	0	22.26	22.29	22.21	24.00	
		1	0	22.81	22.34	22.46	24.00	
		1	7	22.57	22.67	22.07	24.00	
64QAM		1	14	22.5	22.75	22.29	24.00	
		8	0	21.17	21.27	21.42	23.00	
		8	4	21.42	21.38	21.4	23.00	
		8	7	21.17	21.22	21.21	23.00	
		15	0	21.27	21.32	21.24	23.00	
		1	0	21.16	21.14	21.15	23.00	
5MHz		QPSK	1	7	21.38	21.41	21.20	23.00
			1	14	21.21	21.41	21.13	23.00
			8	0	20.15	20.19	20.16	22.00
	8		4	20.13	20.16	20.17	22.00	
	8		7	20.25	20.20	20.20	22.00	
	15		0	20.24	20.26	20.15	22.00	
	QPSK	1	0	23.39	23.3	23.28	25.00	
		1	13	23.36	23.41	23.15	25.00	
	QPSK	1	24	23.37	23.42	23.39	25.00	
		12	0	22.23	22.27	22.3	24.00	

	16QAM	12	6	22.28	22.25	22.2	24.00
		12	13	22.26	22.32	22.27	24.00
		25	0	22.29	22.3	22.3	24.00
		1	0	22.72	22.48	22.21	24.00
		1	13	22.79	22.65	22.17	24.00
		1	24	22.78	22.54	22.58	24.00
		12	0	21.19	21.31	21.13	23.00
		12	6	21.3	21.23	21.26	23.00
		12	13	21.27	21.24	21.28	23.00
	25	0	21.19	21.25	21.28	23.00	
	64QAM	1	0	21.36	21.22	21.19	23.00
		1	13	21.25	21.30	21.08	23.00
		1	24	21.30	21.37	21.38	23.00
		12	0	20.17	20.20	20.20	22.00
		12	6	20.20	20.13	20.15	22.00
12		13	20.15	20.29	20.17	22.00	
25	0	20.17	20.27	20.20	22.00		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				26750	26865	26990	
10MHz	QPSK	1	0	23.45	23.14	23.14	25.00
		1	25	23.3	23.47	23.3	25.00
		1	49	23.26	23.44	23.2	25.00
		25	0	22.22	22.29	22.36	24.00
		25	13	22.28	22.27	22.26	24.00
		25	25	22.22	22.31	22.24	24.00
		50	0	22.26	22.31	22.29	24.00
	16QAM	1	0	22.49	22.38	22.4	24.00
		1	25	22.7	22.56	22.6	24.00
		1	49	22.29	22.2	22.45	24.00
		25	0	21.27	21.31	21.3	23.00
		25	13	21.16	21.3	21.22	23.00
		25	25	21.26	21.33	21.29	23.00
		50	0	21.17	21.28	21.28	23.00
	64QAM	1	0	21.44	21.04	21.07	23.00
		1	25	21.21	21.40	21.18	23.00
		1	49	21.20	21.35	21.10	23.00
		25	0	20.19	20.26	20.24	22.00
		25	13	20.27	20.16	20.23	22.00
		25	25	20.13	20.30	20.19	22.00
		50	0	20.20	20.19	20.28	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				26775	26865	26965	
15MHz	QPSK	1	0	23.48	23.23	23.14	25.00
		1	38	23.29	23.59	23.41	25.00
		1	74	23.12	23.19	23.05	25.00
		36	0	22.17	22.27	22.17	24.00
		36	18	22.21	22.22	22.23	24.00
		36	39	22.23	22.28	22.22	24.00
		75	0	22.19	22.34	22.19	24.00
	16QAM	1	0	22.31	22.1	22.41	24.00
		1	38	22.47	22.4	22.67	24.00
		1	74	22.37	22.81	22.32	24.00
		36	0	21.21	21.28	21.1	23.00
36	18	21.22	21.25	21.14	23.00		



		36	39	21.15	21.3	21.16	23.00
		75	0	21.19	21.32	21.12	23.00
	64QAM	1	0	21.41	21.16	21.07	23.00
		1	38	21.27	21.48	21.39	23.00
		1	74	21.03	21.12	21.01	23.00
		36	0	20.08	20.19	20.11	22.00
		36	18	20.17	20.12	20.20	22.00
		36	39	20.14	20.16	20.10	22.00
		75	0	20.10	20.32	20.07	22.00

LTE Band 26 Receiver on&Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				26697	26865	27033	
1.4MHz	QPSK	1	0	20.21	20.23	20.15	22.00
		1	2	20.21	20.26	20.15	22.00
		1	5	20.17	20.21	20.13	22.00
		3	0	20.23	20.2	20.14	22.00
		3	2	20.16	20.23	20.2	22.00
		3	3	20.2	20.21	20.16	22.00
		6	0	20.24	20.23	20.19	22.00
	16QAM	1	0	20.54	20.54	20.47	22.00
		1	2	20.57	20.55	20.41	22.00
		1	5	20.54	20.44	20.51	22.00
		3	0	20.22	20.22	20.15	22.00
		3	2	20.24	20.21	20.15	22.00
		3	3	20.18	20.23	20.12	22.00
		6	0	20.33	20.29	20.25	22.00
	64QAM	1	0	20.13	20.15	20.07	22.00
		1	2	20.11	20.19	20.10	22.00
		1	5	20.13	20.14	20.10	22.00
		3	0	20.17	20.19	20.10	22.00
		3	2	20.06	20.22	20.18	22.00
		3	3	20.11	20.11	20.06	22.00
		6	0	20.23	20.20	20.18	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				26705	26865	27025	
3MHz	QPSK	1	0	20.24	20.2	20.08	22.00
		1	7	20.22	20.27	20.21	22.00
		1	14	20.21	20.28	20.23	22.00
		8	0	20.16	20.23	20.24	22.00
		8	4	20.26	20.23	20.22	22.00
		8	7	20.24	20.3	20.19	22.00
		15	0	20.15	20.23	20.23	22.00
	16QAM	1	0	20.57	20.45	20.45	22.00
		1	7	20.47	20.6	20.42	22.00
		1	14	20.58	20.55	20.6	22.00
		8	0	20.11	20.28	20.32	22.00
		8	4	20.26	20.24	20.22	22.00
		8	7	20.19	20.34	20.15	22.00
	64QAM	15	0	20.21	20.26	20.26	22.00
		1	0	20.20	20.12	20.15	22.00
		1	7	20.13	20.21	20.09	22.00



		1	14	20.13	20.27	20.16	22.00	
		8	0	20.11	20.19	20.22	22.00	
		8	4	20.20	20.22	20.10	22.00	
		8	7	20.18	20.25	20.14	22.00	
		15	0	20.09	20.21	20.16	22.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				26715	26865	27015		
5MHz	QPSK	1	0	20.27	20.28	20.21	22.00	
		1	13	20.2	20.24	20.13	22.00	
		1	24	20.27	20.27	20.24	22.00	
		12	0	20.21	20.26	20.27	22.00	
		12	6	20.21	20.24	20.18	22.00	
		12	13	20.23	20.24	20.18	22.00	
		25	0	20.25	20.28	20.24	22.00	
	16QAM	1	0	20.54	20.53	20.46	22.00	
		1	13	20.48	20.55	20.39	22.00	
		1	24	20.57	20.62	20.57	22.00	
		12	0	20.19	20.25	20.25	22.00	
		12	6	20.25	20.23	20.17	22.00	
		12	13	20.21	20.25	20.15	22.00	
		25	0	20.25	20.28	20.22	22.00	
	64QAM	1	0	20.23	20.25	20.17	22.00	
		1	13	20.19	20.13	20.08	22.00	
		1	24	20.26	20.24	20.22	22.00	
		12	0	20.15	20.18	20.18	22.00	
		12	6	20.11	20.16	20.10	22.00	
		12	13	20.11	20.18	20.14	22.00	
		25	0	20.20	20.17	20.13	22.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				26750	26865	26990		
10MHz	QPSK	1	0	20.22	20.21	20.13	22.00	
		1	25	20.19	20.27	20.17	22.00	
		1	49	20.24	20.24	20.18	22.00	
		25	0	20.11	20.24	20.27	22.00	
		25	13	20.22	20.26	20.23	22.00	
		25	25	20.19	20.28	20.15	22.00	
		50	0	20.18	20.26	20.25	22.00	
	16QAM	1	0	20.53	20.47	20.45	22.00	
		1	25	20.51	20.58	20.44	22.00	
		1	49	20.56	20.55	20.57	22.00	
		25	0	20.13	20.28	20.28	22.00	
		25	13	20.24	20.26	20.22	22.00	
		25	25	20.19	20.3	20.14	22.00	
		50	0	20.21	20.28	20.24	22.00	
	64QAM	1	0	20.21	20.20	20.01	22.00	
		1	25	20.10	20.20	20.12	22.00	
		1	49	20.23	20.13	20.16	22.00	
		25	0	20.08	20.14	20.21	22.00	
		25	13	20.11	20.25	20.21	22.00	
		25	25	20.14	20.16	20.11	22.00	
		50	0	20.16	20.16	20.13	22.00	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
					26775	26865	26965	
	15MHz	QPSK	1	0	20.19	20.21	20.1	22.00



		1	38	20.23	20.31	20.17	22.00
		1	74	20.23	20.26	20.17	22.00
		36	0	20.1	20.32	20.31	22.00
		36	18	20.27	20.27	20.22	22.00
		36	39	20.17	20.31	20.15	22.00
		75	0	20.22	20.31	20.22	22.00
		16QAM	1	0	20.53	20.42	20.45
	1	38	20.53	20.58	20.43	22.00	
	1	74	20.55	20.52	20.55	22.00	
	36	0	20.18	20.28	20.24	22.00	
	36	18	20.22	20.26	20.23	22.00	
	36	39	20.2	20.28	20.1	22.00	
	75	0	20.26	20.29	20.25	22.00	
	64QAM	1	0	20.15	20.09	20.01	22.00
	1	38	20.12	20.22	20.05	22.00	
	1	74	20.22	20.24	20.17	22.00	
	36	0	20.02	20.23	20.24	22.00	
	36	18	20.21	20.22	20.21	22.00	
	36	39	20.07	20.30	20.10	22.00	
	75	0	20.13	20.29	20.11	22.00	

LTE Band 26 Full power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				26697	26865	27033	
1.4MHz	QPSK	1	0	21.23	21.24	21.15	23.00
		1	2	21.26	21.26	21.16	23.00
		1	5	21.19	21.27	21.16	23.00
		3	0	21.23	21.24	21.18	23.00
		3	2	21.25	21.25	21.22	23.00
		3	3	21.23	21.23	21.21	23.00
		6	0	21.26	21.26	21.23	23.00
	16QAM	1	0	21.5	21.52	21.36	23.00
		1	2	21.44	21.57	21.4	23.00
		1	5	21.44	21.54	21.51	23.00
		3	0	21.26	21.29	21.13	23.00
		3	2	21.25	21.27	21.21	23.00
		3	3	21.22	21.26	21.21	23.00
		6	0	21.3	21.34	21.28	23.00
	64QAM	1	0	21.16	21.12	21.35	23.00
		1	2	21.35	21.48	21.35	23.00
		1	5	21.18	21.26	21.35	23.00
		3	0	21.27	21.07	21.18	23.00
		3	2	21.19	21.15	21.27	23.00
		3	3	21.14	21.23	21.15	23.00
		6	0	20.18	20.25	20.17	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
3MHz	QPSK			26705	26865	27025	
		1	0	21.21	21.19	21.18	23.00
		1	7	21.23	21.3	21.27	23.00
		1	14	21.22	21.28	21.18	23.00
		8	0	21.18	21.21	21.1	23.00
8	4	21.28	21.17	21.19	23.00		

	16QAM	8	7	21.11	21.28	21.1	23.00
		15	0	21.12	21.31	21.17	23.00
		1	0	21.44	21.4	21.45	23.00
		1	7	21.55	21.54	21.37	23.00
		1	14	21.44	21.49	21.54	23.00
		8	0	21.11	21.2	21.14	23.00
		8	4	21.24	21.2	21.16	23.00
		8	7	21.14	21.29	21.12	23.00
		15	0	21.12	21.25	21.18	23.00
	64QAM	1	0	21.16	21.14	21.15	23.00
		1	7	21.38	21.41	21.20	23.00
		1	14	21.21	21.41	21.13	23.00
		8	0	20.15	20.19	20.16	22.00
		8	4	20.13	20.16	20.17	22.00
		8	7	20.25	20.20	20.20	22.00
		15	0	20.24	20.26	20.15	22.00
Bandwidth	Modulation	RB size	RB offset	Channel 26715	Channel 26865	Channel 27015	Tune up
5MHz	QPSK	1	0	21.12	21.14	21.14	23.00
		1	13	21.18	21.37	21.18	23.00
		1	24	21.24	21.22	21.17	23.00
		12	0	21.12	21.21	21.18	23.00
		12	6	21.2	21.22	21.15	23.00
		12	13	21.2	21.22	21.08	23.00
		25	0	21.19	21.39	21.18	23.00
	16QAM	1	0	21.51	21.34	21.44	23.00
		1	13	21.47	21.48	21.44	23.00
		1	24	21.39	21.49	21.45	23.00
		12	0	21.1	21.3	21.13	23.00
		12	6	21.18	21.17	21.18	23.00
		12	13	21.14	21.27	21.17	23.00
		25	0	21.12	21.34	21.16	23.00
	64QAM	1	0	21.36	21.22	21.19	23.00
		1	13	21.25	21.30	21.08	23.00
		1	24	21.30	21.37	21.38	23.00
		12	0	20.17	20.20	20.20	22.00
		12	6	20.20	20.13	20.15	22.00
		12	13	20.15	20.29	20.17	22.00
		25	0	20.17	20.27	20.20	22.00
Bandwidth	Modulation	RB size	RB offset	Channel 26750	Channel 26865	Channel 26990	Tune up
10MHz	QPSK	1	0	21.15	21.17	21.11	23.00
		1	25	21.25	21.31	21.18	23.00
		1	49	21.18	21.2	21.24	23.00
		25	0	21.2	21.21	21.09	23.00
		25	13	21.29	21.17	21.2	23.00
		25	25	21.19	21.23	21.08	23.00
		50	0	21.1	21.37	21.2	23.00
	16QAM	1	0	21.43	21.42	21.47	23.00
		1	25	21.55	21.48	21.41	23.00
		1	49	21.4	21.54	21.52	23.00
		25	0	21.18	21.3	21.07	23.00
		25	13	21.23	21.22	21.19	23.00
		25	25	21.22	21.28	21.11	23.00



		50	0	21.16	21.28	21.12	23.00
	64QAM	1	0	21.44	21.04	21.07	23.00
		1	25	21.21	21.40	21.18	23.00
		1	49	21.20	21.35	21.10	23.00
		25	0	20.19	20.26	20.24	22.00
		25	13	20.27	20.16	20.23	22.00
		25	25	20.13	20.30	20.19	22.00
		50	0	20.20	20.19	20.28	22.00
Bandwidth		Modulation	RB size	RB offset	Channel 26775	Channel 26865	Channel 26965
15MHz	QPSK	1	0	21.17	21.17	21.15	23.00
		1	38	21.23	21.33	21.22	23.00
		1	74	21.23	21.24	21.20	23.00
		36	0	21.16	21.22	21.14	23.00
		36	18	21.20	21.21	21.20	23.00
		36	39	21.15	21.20	21.13	23.00
		75	0	21.15	21.34	21.19	23.00
	16QAM	1	0	21.47	21.37	21.43	23.00
		1	38	21.50	21.49	21.40	23.00
		1	74	21.43	21.54	21.49	23.00
		36	0	21.13	21.25	21.12	23.00
		36	18	21.23	21.20	21.19	23.00
		36	39	21.18	21.29	21.12	23.00
		75	0	21.13	21.30	21.15	23.00
	64QAM	1	0	21.41	21.16	21.07	23.00
		1	38	21.27	21.48	21.39	23.00
		1	74	21.03	21.12	21.01	23.00
		36	0	20.08	20.19	20.11	22.00
		36	18	20.17	20.12	20.20	22.00
		36	39	20.14	20.16	20.10	22.00
		75	0	20.10	20.32	20.07	22.00

4 Conducted Power of Main Antenna(Ant4)

4.1 Conducted Power of LTE

LTE Band 4 Full power				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				19957	20175	20393		
1.4MHz	QPSK	1	0	23.07	23.13	23.18	24.80	
		1	2	23.28	23.28	23.1	24.80	
		1	5	23.08	23.11	23.08	24.80	
		3	0	23.08	23.13	23.16	24.80	
		3	2	23.25	23.21	23.16	24.80	
		3	3	23.23	23.29	23.09	24.80	
	16QAM	6	0	22.18	22.18	22.13	23.80	
		1	0	22.59	22.63	22.54	23.80	
		1	2	22.65	22.64	22.04	23.80	
		1	5	22.53	22.56	22.36	23.80	
		3	0	22.28	22.34	22.16	23.80	
		3	2	22.14	22.2	22.22	23.80	
	64QAM	3	3	22.24	22.27	22.18	23.80	
		6	0	21.17	21.19	21.16	22.80	
		1	0	21.02	21.08	21.13	22.80	
		1	2	21.21	21.27	21.09	22.80	
		1	5	21.03	21.03	21.01	22.80	
		3	0	21.05	21.03	21.14	22.80	
	3MHz	QPSK	3	2	21.17	21.18	21.11	22.80
			3	3	21.15	21.26	21.02	22.80
			6	0	20.13	20.09	20.01	21.80
1			0	23.4	23.14	23.22	24.80	
1			7	23.37	23.23	23.26	24.80	
1			14	23.14	23.11	22.93	24.80	
16QAM		8	0	22.19	22.11	22.25	23.80	
		8	4	22.22	22.26	22.18	23.80	
		8	7	22.19	22.14	22.06	23.80	
		15	0	22.17	22.23	22.17	23.80	
		1	0	22.47	22.15	22.24	23.80	
		1	7	22.62	22.51	22.26	23.80	
64QAM	1	14	22.22	22.45	22.32	23.80		
	8	0	21.12	21.12	21.11	22.80		
	8	4	21.28	21.2	21.25	22.80		
	8	7	21.16	21.08	21.02	22.80		
	15	0	21.23	21.15	21.1	22.80		
	1	0	21.33	21.07	21.20	22.80		
5MHz	QPSK	1	7	21.35	21.22	21.24	22.80	
		1	14	21.09	21.00	20.91	22.80	
		8	0	20.15	19.99	20.17	21.80	
		8	4	20.18	20.25	20.06	21.80	
		8	7	20.14	20.05	20.00	21.80	
		15	0	20.08	20.12	20.11	21.80	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
5MHz	QPSK	1	0	19975	20175	20375	24.80	

		1	13	23.29	23.3	23.24	24.80
		1	24	22.98	23.22	22.87	24.80
		12	0	22.17	22.08	22.23	23.80
		12	6	22.29	22.29	22.12	23.80
		12	13	22.12	22.16	22.1	23.80
		25	0	22.2	22.2	22.05	23.80
		16QAM	1	0	22.46	22.21	22.27
	1	13	22.63	22.65	22.19	23.80	
	1	24	22.29	22.35	22.46	23.80	
	12	0	21.17	21.1	21.19	22.80	
	12	6	21.27	21.16	21.2	22.80	
	12	13	21.07	21.15	20.99	22.80	
	25	0	21.17	21.01	21.13	22.80	
	64QAM	1	0	21.29	21.09	21.18	22.80
	1	13	21.26	21.28	21.17	22.80	
	1	24	20.93	21.14	20.87	22.80	
	12	0	20.05	20.03	20.13	21.80	
	12	6	20.23	20.24	20.01	21.80	
	12	13	20.04	20.13	19.98	21.80	
	25	0	20.12	20.14	20.00	21.80	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20000	20175	20350	
10MHz	QPSK	1	0	23.39	23.14	23.33	24.80
		1	25	23.32	23.19	23.23	24.80
		1	49	23.08	23.21	22.97	24.80
		25	0	22.11	22.09	22.19	23.80
		25	13	22.23	22.29	22.12	23.80
		25	25	22.13	22.26	22.14	23.80
		50	0	22.09	22.19	22.21	23.80
	16QAM	1	0	22.5	22.21	22.28	23.80
		1	25	22.71	22.57	22.22	23.80
		1	49	22.24	22.45	22.43	23.80
		25	0	21.03	21.17	21.15	22.80
		25	13	21.14	21.13	21.18	22.80
		25	25	21.11	21.14	21.08	22.80
		50	0	21.08	21.11	21.09	22.80
	64QAM	1	0	21.37	21.08	21.25	22.80
		1	25	21.22	21.12	21.21	22.80
		1	49	21.06	21.19	20.92	22.80
		25	0	20.01	20.01	20.14	21.80
		25	13	20.17	20.26	20.10	21.80
		25	25	20.07	20.21	20.06	21.80
		50	0	20.08	20.07	20.14	21.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20025	20175	20325	
15MHz	QPSK	1	0	23.43	23.19	23.37	24.80
		1	38	23.37	23.32	23.2	24.80
		1	74	23.11	23.22	22.92	24.80
		36	0	22.10	22.1	22.18	23.80
		36	18	22.22	22.26	22.19	23.80
		36	39	22.16	22.1	22.13	23.80
		75	0	22.19	22.18	22.15	23.80
	16QAM	1	0	22.56	22.15	22.28	23.80
		1	38	22.67	22.5	22.16	23.80



Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20050	20175	20300	
20MHz	64QAM	1	74	22.22	22.43	22.43	23.80
		36	0	21.01	21.05	21.1	22.80
		36	18	21.25	21.2	21.14	22.80
		36	39	21.16	21.22	21.06	22.80
		75	0	21.17	21.11	21.14	22.80
		1	0	21.32	21.12	21.26	22.80
		1	38	21.34	21.31	21.16	22.80
	QPSK	1	99	23.06	23.15	22.95	24.80
		50	0	22.16	22.25	22.22	23.80
		50	25	22.24	22.22	22.16	23.80
		50	50	22.18	22.18	22.13	23.80
		100	0	22.13	22.16	22.13	23.80
		1	0	22.48	22.15	22.3	23.80
		1	50	22.68	22.57	22.21	23.80
16QAM	1	99	22.3	22.43	22.4	23.80	
	50	0	21.09	21.12	21.15	22.80	
	50	25	21.21	21.17	21.18	22.80	
	50	50	21.09	21.14	21.07	22.80	
	100	0	21.16	21.07	21.11	22.80	
	1	0	21.30	21.11	21.26	22.80	
	1	50	21.26	21.33	21.20	22.80	
64QAM	1	99	20.96	21.05	20.88	22.80	
	50	0	20.08	20.13	20.20	21.80	
	50	25	20.12	20.20	20.15	21.80	
	50	50	20.06	20.17	20.12	21.80	
	100	0	20.11	20.06	20.06	21.80	

LTE Band 4 Sensor on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19957	20175	20393	
1.4MHz	QPSK	1	0	22.29	22.38	22.3	23.80
		1	2	22.29	22.36	22.33	23.80
		1	5	22.32	22.37	22.29	23.80
		3	0	22.33	22.41	22.38	23.80
		3	2	22.33	22.37	22.38	23.80
		3	3	22.29	22.38	22.35	23.80
		6	0	22.35	22.41	22.39	23.80
	16QAM	1	0	22.44	22.58	22.55	23.80
		1	2	22.5	22.65	22.69	23.80
		1	5	22.48	22.63	22.61	23.80
		3	0	22.33	22.44	22.44	23.80
		3	2	22.35	22.38	22.42	23.80
		3	3	22.35	22.36	22.42	23.80



		6	0	21.34	21.48	21.46	22.80	
	64QAM	1	0	21.02	21.08	21.13	22.80	
		1	2	21.21	21.27	21.09	22.80	
		1	5	21.03	21.03	21.01	22.80	
		3	0	21.05	21.03	21.14	22.80	
		3	2	21.17	21.18	21.11	22.80	
		3	3	21.15	21.26	21.02	22.80	
		6	0	20.13	20.09	20.01	21.80	
Bandwidth		Modulation	RB size	RB offset	Channel 19965	Channel 20175	Channel 20385	Tune up
3MHz	QPSK	1	0	22.4	22.27	22.35	23.80	
		1	7	22.34	22.45	22.22	23.80	
		1	14	22.23	22.24	22.3	23.80	
		8	0	22.31	22.43	22.46	23.80	
		8	4	22.32	22.43	22.49	23.80	
		8	7	22.55	22.44	22.4	23.80	
		15	0	22.29	22.27	22.51	23.80	
	16QAM	1	0	22.4	22.41	22.51	23.80	
		1	7	22.64	22.71	22.58	23.80	
		1	14	22.48	22.37	22.42	23.80	
		8	0	21.31	21.41	21.42	22.80	
		8	4	21.37	21.48	21.31	22.80	
		8	7	21.39	21.29	21.34	22.80	
		15	0	21.38	21.34	21.34	22.80	
	64QAM	1	0	21.33	21.07	21.20	22.80	
		1	7	21.35	21.22	21.24	22.80	
		1	14	21.09	21.00	20.91	22.80	
		8	0	20.15	19.99	20.17	21.80	
		8	4	20.18	20.25	20.06	21.80	
		8	7	20.14	20.05	20.00	21.80	
		15	0	20.08	20.12	20.11	21.80	
	Bandwidth	Modulation	RB size	RB offset	Channel 19975	Channel 20175	Channel 20375	Tune up
	5MHz	QPSK	1	0	22.24	22.39	22.25	23.80
			1	13	22.32	22.38	22.34	23.80
1			24	22.3	22.24	22.23	23.80	
12			0	22.23	22.33	22.42	23.80	
12			6	22.43	22.47	22.38	23.80	
12			13	22.52	22.27	22.35	23.80	
25			0	22.36	22.32	22.43	23.80	
16QAM		1	0	22.38	22.57	22.54	23.80	
		1	13	22.65	22.7	22.66	23.80	
		1	24	22.52	22.41	22.49	23.80	
		12	0	21.28	21.27	21.5	22.80	
		12	6	21.37	21.38	21.4	22.80	
		12	13	21.46	21.33	21.25	22.80	
		25	0	21.28	21.41	21.35	22.80	
64QAM		1	0	21.29	21.09	21.18	22.80	
		1	13	21.26	21.28	21.17	22.80	
		1	24	20.93	21.14	20.87	22.80	
		12	0	20.05	20.03	20.13	21.80	
		12	6	20.23	20.24	20.01	21.80	
		12	13	20.04	20.13	19.98	21.80	
		25	0	20.12	20.14	20.00	21.80	



Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20000	20175	20350	
10MHz	QPSK	1	0	22.21	22.32	22.37	23.80
		1	25	22.34	22.36	22.24	23.80
		1	49	22.35	22.32	22.23	23.80
		25	0	22.21	22.3	22.56	23.80
		25	13	22.4	22.52	22.34	23.80
		25	25	22.39	22.25	22.37	23.80
		50	0	22.39	22.36	22.34	23.80
	16QAM	1	0	22.44	22.61	22.65	23.80
		1	25	22.59	22.66	22.67	23.80
		1	49	22.51	22.43	22.47	23.80
		25	0	21.24	21.29	21.48	22.80
		25	13	21.33	21.44	21.44	22.80
		25	25	21.47	21.26	21.25	22.80
		50	0	21.32	21.43	21.37	22.80
	64QAM	1	0	21.37	21.08	21.25	22.80
		1	25	21.22	21.12	21.21	22.80
		1	49	21.06	21.19	20.92	22.80
		25	0	20.01	20.01	20.14	21.80
		25	13	20.17	20.26	20.10	21.80
		25	25	20.07	20.21	20.06	21.80
		50	0	20.08	20.07	20.14	21.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	QPSK	1	0	22.26	22.45	22.37	23.80
		1	38	22.30	22.39	22.23	23.80
		1	74	22.37	22.3	22.19	23.80
		36	0	22.16	22.36	22.59	23.80
		36	18	22.43	22.37	22.45	23.80
		36	39	22.38	22.44	22.29	23.80
		75	0	22.25	22.36	22.52	23.80
	16QAM	1	0	22.51	22.52	22.65	23.80
		1	38	22.52	22.67	22.55	23.80
		1	74	22.46	22.4	22.4	23.80
		36	0	21.25	21.33	21.46	22.80
		36	18	21.29	21.33	21.48	22.80
		36	39	21.38	21.4	21.44	22.80
		75	0	21.28	21.23	21.5	22.80
	64QAM	1	0	21.32	21.12	21.26	22.80
		1	38	21.34	21.31	21.16	22.80
		1	74	20.99	21.17	20.91	22.80
		36	0	20.07	20.04	20.08	21.80
		36	18	20.13	20.23	20.13	21.80
		36	39	20.11	20.08	20.10	21.80
		75	0	20.13	20.11	20.12	21.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	QPSK	1	0	22.3	22.35	22.33	23.80
		1	50	22.34	22.39	22.32	23.80
		1	99	22.3	22.27	22.22	23.80
		50	0	22.24	22.37	22.49	23.80
		50	25	22.4	22.43	22.41	23.80
		50	50	22.45	22.34	22.36	23.80

		100	0	22.34	22.36	22.43	23.80
	16QAM	1	0	22.48	22.51	22.56	23.80
		1	50	22.58	22.61	22.6	23.80
		1	99	22.51	22.45	22.44	23.80
		50	0	21.21	21.35	21.5	22.80
		50	25	21.39	21.43	21.41	22.80
		50	50	21.41	21.34	21.34	22.80
		100	0	21.34	21.33	21.42	22.80
	64QAM	1	0	21.30	21.11	21.26	22.80
		1	50	21.26	21.33	21.20	22.80
		1	99	20.96	21.05	20.88	22.80
		50	0	20.08	20.13	20.20	21.80
		50	25	20.12	20.20	20.15	21.80
		50	50	20.06	20.17	20.12	21.80
		100	0	20.11	20.06	20.06	21.80

LTE Band 4 Receiver on&Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19957	20175	20393	
1.4MHz	QPSK	1	0	18.26	18.17	18.2	19.80
		1	2	18.21	18.31	18.2	19.80
		1	5	18.09	18.16	17.96	19.80
		3	0	18.19	18.38	18.29	19.80
		3	2	18.28	18.3	18.28	19.80
		3	3	18.2	18.28	18.3	19.80
		6	0	18.33	18.18	18.32	19.80
	16QAM	1	0	18.48	18.54	18.49	19.80
		1	2	18.43	18.51	18.49	19.80
		1	5	18.43	18.44	18.3	19.80
		3	0	18.26	18.34	18.24	19.80
		3	2	18.3	18.26	18.31	19.80
		3	3	18.28	18.36	18.34	19.80
		6	0	18.21	18.35	18.34	19.80
	64QAM	1	0	18.16	18.09	18.19	19.80
		1	2	18.09	18.28	18.12	19.80
		1	5	18.08	18.13	17.94	19.80
		3	0	18.10	18.30	18.27	19.80
		3	2	18.19	18.18	18.23	19.80
		3	3	18.12	18.24	18.22	19.80
		6	0	18.22	18.11	18.23	19.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
3MHz	QPSK	1	0	18.38	18.16	18.15	19.80
		1	7	18.24	18.39	18.17	19.80
		1	14	18.1	18.11	18.03	19.80
		8	0	18.21	18.24	18.23	19.80
		8	4	18.34	18.33	18.24	19.80
		8	7	18.32	18.28	18.28	19.80
		15	0	18.27	18.23	18.15	19.80
	16QAM	1	0	18.49	18.46	18.53	19.80
		1	7	18.47	18.66	18.5	19.80
		1	14	18.38	18.47	18.32	19.80

		8	0	18.2	18.2	18.25	19.80		
		8	4	18.43	18.33	18.32	19.80		
		8	7	18.16	18.3	18.19	19.80		
		15	0	18.28	18.37	18.34	19.80		
	64QAM	1	0	18.36	18.07	18.03	19.80		
		1	7	18.16	18.28	18.15	19.80		
		1	14	18.09	18.06	17.93	19.80		
		8	0	18.20	18.15	18.15	19.80		
		8	4	18.30	18.28	18.16	19.80		
		8	7	18.26	18.24	18.18	19.80		
		15	0	18.20	18.16	18.12	19.80		
Bandwidth	Modulation	RB size	RB offset	Channel 19975	Channel 20175	Channel 20375	Tune up		
5MHz	QPSK	1	0	18.36	18.17	18.28	19.80		
		1	13	18.3	18.31	18.17	19.80		
		1	24	18.26	18.07	18.1	19.80		
		12	0	18.14	18.23	18.3	19.80		
		12	6	18.36	18.32	18.24	19.80		
		12	13	18.23	18.28	18.2	19.80		
	16QAM	25	0	18.15	18.34	18.21	19.80		
		1	0	18.56	18.58	18.57	19.80		
		1	13	18.57	18.57	18.44	19.80		
		1	24	18.34	18.48	18.35	19.80		
		12	0	18.21	18.3	18.39	19.80		
		12	6	18.28	18.41	18.28	19.80		
	64QAM	12	13	18.17	18.17	18.32	19.80		
		25	0	18.2	18.23	18.22	19.80		
		1	0	18.24	18.11	18.20	19.80		
		1	13	18.21	18.19	18.08	19.80		
		1	24	18.15	17.99	18.04	19.80		
		12	0	18.03	18.13	18.19	19.80		
Bandwidth	Modulation	12	6	18.34	18.26	18.23	19.80		
		12	13	18.13	18.20	18.13	19.80		
		25	0	18.07	18.26	18.09	19.80		
		Channel 20000	Channel 20175	Channel 20350	Tune up				
		10MHz	QPSK	1	0	18.31	18.16	18.27	19.80
				1	25	18.3	18.28	18.19	19.80
	1			49	18.25	18.2	18.09	19.80	
	25			0	18.18	18.21	18.34	19.80	
	25			13	18.24	18.35	18.17	19.80	
	25			25	18.39	18.34	18.18	19.80	
	16QAM		50	0	18.18	18.3	18.34	19.80	
			1	0	18.48	18.38	18.62	19.80	
1			25	18.56	18.69	18.37	19.80		
1			49	18.45	18.37	18.3	19.80		
25			0	18.14	18.37	18.3	19.80		
25			13	18.4	18.25	18.35	19.80		
64QAM	25		25	18.23	18.17	18.36	19.80		
	50		0	18.21	18.31	18.19	19.80		
	1		0	18.27	18.04	18.19	19.80		
	1		25	18.22	18.18	18.11	19.80		
	1		49	18.14	18.19	18.00	19.80		
	25		0	18.12	18.14	18.26	19.80		

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				20025	20175	20325		
15MHz	QPSK	25	13	18.18	18.31	18.07	19.80	
		25	25	18.31	18.28	18.10	19.80	
		50	0	18.14	18.23	18.32	19.80	
		1	0	18.19	18.2	18.21	19.80	
		1	38	18.32	18.4	18.21	19.80	
		1	74	18.25	18.01	18.12	19.80	
		36	0	18.32	18.21	18.32	19.80	
	36	18	18.30	18.34	18.19	19.80		
	36	39	18.38	18.15	18.24	19.80		
	75	0	18.25	18.3	18.33	19.80		
	1	0	18.52	18.53	18.48	19.80		
	1	38	18.62	18.57	18.5	19.80		
	1	74	18.44	18.33	18.36	19.80		
	36	0	18.14	18.19	18.23	19.80		
	36	18	18.24	18.26	18.23	19.80		
	36	39	18.19	18.25	18.23	19.80		
	75	0	18.25	18.22	18.32	19.80		
	1	0	18.17	18.13	18.14	19.80		
	1	38	18.26	18.36	18.16	19.80		
	1	74	18.13	17.95	18.10	19.80		
	36	0	18.31	18.20	18.22	19.80		
	36	18	18.25	18.32	18.09	19.80		
	36	39	18.29	18.07	18.18	19.80		
	75	0	18.21	18.26	18.30	19.80		
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
	20MHz	QPSK	1	0	18.28	18.19	18.2	19.80
			1	50	18.29	18.32	18.23	19.80
1			99	18.18	18.1	18.06	19.80	
50			0	18.23	18.34	18.27	19.80	
50			25	18.33	18.31	18.25	19.80	
50			50	18.3	18.24	18.23	19.80	
100			0	18.25	18.27	18.24	19.80	
1		0	18.52	18.48	18.52	19.80		
1		50	18.53	18.6	18.47	19.80		
1		99	18.43	18.39	18.35	19.80		
50		0	18.24	18.29	18.3	19.80		
50		25	18.33	18.33	18.28	19.80		
50		50	18.24	18.26	18.26	19.80		
100		0	18.27	18.28	18.24	19.80		
1		0	18.25	18.08	18.16	19.80		
1		50	18.26	18.31	18.21	19.80		
1		99	18.10	18.07	17.94	19.80		
50		0	18.19	18.30	18.25	19.80		
50		25	18.22	18.29	18.17	19.80		
50		50	18.20	18.15	18.21	19.80		
100		0	18.18	18.20	18.16	19.80		

LTE Band 7 Full power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20775	21100	21425	
5MHz	QPSK	1	0	22.90	22.89	22.90	24.80
		1	13	22.81	23.01	23.32	24.80
		1	24	22.84	23.00	23.34	24.80
		12	0	21.87	22.00	22.12	23.80
		12	6	21.86	21.98	22.08	23.80
		12	13	22.09	22.09	22.16	23.80
		25	0	21.94	22.04	22.13	23.80
	16QAM	1	0	21.85	22.01	21.90	23.80
		1	13	21.83	22.20	21.88	23.80
		1	24	22.32	22.53	22.47	23.80
		12	0	20.89	20.91	21.07	22.80
		12	6	20.92	21.09	21.13	22.80
		12	13	20.97	21.08	21.16	22.80
		25	0	20.80	20.95	21.19	22.80
	64QAM	1	0	20.83	20.88	20.89	22.80
		1	13	20.89	20.90	21.28	22.80
		1	24	20.87	20.93	21.31	22.80
		12	0	19.80	19.94	20.02	21.80
		12	6	19.87	19.91	20.00	21.80
		12	13	20.01	20.01	20.08	21.80
		25	0	19.84	19.96	20.06	21.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20800	21100	21400	
10MHz	QPSK	1	0	22.90	22.90	23.01	24.80
		1	25	22.88	23.05	23.22	24.80
		1	49	22.88	22.90	23.27	24.80
		25	0	21.83	22.03	22.07	23.80
		25	13	21.94	22.06	22.13	23.80
		25	25	22.05	22.11	22.13	23.80
		50	0	21.93	22.12	22.05	23.80
	16QAM	1	0	21.82	22.04	21.90	23.80
		1	25	21.80	22.21	21.99	23.80
		1	49	22.42	22.51	22.43	23.80
		25	0	20.94	20.86	21.07	22.80
		25	13	20.94	21.05	21.16	22.80
		25	25	20.98	21.01	21.15	22.80
		50	0	20.89	21.05	21.15	22.80
	64QAM	1	0	20.80	20.87	20.94	22.80
		1	25	20.86	20.95	21.16	22.80
		1	49	20.82	20.87	21.22	22.80
		25	0	19.84	19.92	20.01	21.80
		25	13	19.93	19.98	20.09	21.80
		25	25	20.03	20.05	20.10	21.80
		50	0	19.86	20.01	19.95	21.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	QPSK	1	0	20825	21100	21375	24.80

		1	38	22.91	23.15	23.39	24.80	
		1	74	22.90	22.92	23.39	24.80	
		36	0	21.85	21.93	22.16	23.80	
		36	18	21.95	22.00	22.15	23.80	
		36	39	22.11	22.09	22.14	23.80	
		75	0	21.88	21.99	22.16	23.80	
	16QAM	1	0	21.84	22.09	21.90	23.80	
		1	38	21.80	22.35	21.97	23.80	
		1	74	22.37	22.48	22.47	23.80	
		36	0	20.92	20.90	21.14	22.80	
		36	18	20.91	21.04	21.16	22.80	
		36	39	21.05	21.03	21.12	22.80	
	64QAM	75	0	20.85	20.99	21.20	22.80	
		1	0	20.81	20.83	20.96	22.80	
		1	38	20.83	21.06	21.36	22.80	
		1	74	20.85	20.86	21.32	22.80	
		36	0	19.83	19.83	20.09	21.80	
		36	18	19.89	19.98	20.11	21.80	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
					20850	21100	21350	
	20MHz	QPSK	1	0	22.87	22.85	22.98	24.80
1			50	22.89	23.05	23.3	24.80	
1			99	22.87	22.95	23.34	24.80	
50			0	21.8	21.98	22.09	23.80	
50			25	21.89	21.98	22.15	23.80	
50			50	22.01	22.03	22.18	23.80	
16QAM		100	0	21.92	22.05	22.09	23.80	
		1	0	21.8	22.05	21.91	23.80	
		1	50	21.83	22.27	21.95	23.80	
		1	99	22.38	22.5	22.5	23.80	
		50	0	20.91	20.93	21.07	22.80	
		50	25	20.89	21.08	21.15	22.80	
64QAM		50	50	20.97	21.04	21.12	22.80	
		100	0	20.86	21.01	21.2	22.80	
		1	0	20.85	20.82	20.89	22.80	
		1	50	20.88	20.93	21.28	22.80	
		1	99	20.87	20.83	21.33	22.80	
		50	0	19.87	19.88	20.04	21.80	
			50	25	19.86	19.87	20.06	21.80
			50	50	20.00	19.92	20.15	21.80
			100	0	19.80	20.02	20.01	21.80

LTE Band 7 Sensor on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20775	21100	21425	
5MHz	QPSK	1	0	21.92	21.93	22.06	23.80
		1	13	22.14	22.14	22.07	23.80
		1	24	21.96	22.19	22.17	23.80
		12	0	22.03	22.19	22.07	23.80
		12	6	22.09	22.20	22.09	23.80
		12	13	22.15	22.17	22.09	23.80
	16QAM	25	0	22.16	22.16	22.13	23.80
		1	0	22.04	22.22	22.22	23.80
		1	13	22.32	22.44	22.42	23.80
		1	24	22.39	22.38	22.26	23.80
		12	0	20.89	21.06	21.13	22.80
		12	6	21.05	21.14	21.18	22.80
	64QAM	12	13	21.22	21.28	21.06	22.80
		25	0	21.06	21.19	21.04	22.80
		1	0	20.83	20.88	20.89	22.80
		1	13	20.89	20.90	21.28	22.80
		1	24	20.87	20.93	21.31	22.80
		12	0	19.80	19.94	20.02	21.80
10MHz	QPSK	12	6	19.87	19.91	20.00	21.80
		12	13	20.01	20.01	20.08	21.80
		25	0	19.84	19.96	20.06	21.80
		1	0	21.97	21.98	22.01	23.80
		1	25	22.01	22.02	22.13	23.80
		1	49	22.15	22.27	22.18	23.80
	16QAM	25	0	21.94	22.13	22.15	23.80
		25	13	21.98	22.12	22.13	23.80
		25	25	22.10	22.21	22.20	23.80
		50	0	22.08	22.20	22.21	23.80
		1	0	21.98	22.14	22.10	23.80
		1	25	22.31	22.31	22.42	23.80
64QAM	1	49	22.28	22.40	22.27	23.80	
	25	0	20.96	21.10	21.12	22.80	
	25	13	21.19	21.23	21.25	22.80	
	25	25	21.13	21.22	21.09	22.80	
	50	0	21.05	21.17	21.12	22.80	
	1	0	20.80	20.87	20.94	22.80	
15MHz	QPSK	1	25	20.86	20.95	21.16	22.80
		1	49	20.82	20.87	21.22	22.80
		25	0	19.84	19.92	20.01	21.80
		25	13	19.93	19.98	20.09	21.80
		25	25	20.03	20.05	20.10	21.80
		50	0	19.86	20.01	19.95	21.80
15MHz	QPSK	1	0	21.86	21.83	22.09	23.80
		1	38	22.01	22.01	22.11	23.80
15MHz	QPSK	1	74	22.10	22.21	22.29	23.80
		36	0	21.99	22.13	22.21	23.80

	16QAM	36	18	22.10	22.16	22.27	23.80
		36	39	22.11	22.10	22.04	23.80
		75	0	22.02	22.24	22.23	23.80
		1	0	22.10	22.03	22.14	23.80
		1	38	22.33	22.29	22.24	23.80
		1	74	22.23	22.46	22.25	23.80
		36	0	21.00	21.22	21.23	22.80
		36	18	21.11	21.24	21.17	22.80
		36	39	21.24	21.09	21.23	22.80
	75	0	21.01	21.19	21.19	22.80	
	64QAM	1	0	20.81	20.83	20.96	22.80
		1	38	20.83	21.06	21.36	22.80
		1	74	20.85	20.86	21.32	22.80
		36	0	19.83	19.83	20.09	21.80
		36	18	19.89	19.98	20.11	21.80
		36	39	20.07	20.04	20.07	21.80
		75	0	19.81	19.88	20.09	21.80
	Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350
20MHz	QPSK	1	0	21.86	21.88	22.02	23.80
		1	50	22.11	22.11	22.12	23.80
		1	99	22.05	22.18	22.21	23.80
		50	0	21.99	22.14	22.16	23.80
		50	25	22.06	22.16	22.19	23.80
		50	50	22.17	22.15	22.14	23.80
		100	0	22.07	22.16	22.14	23.80
	16QAM	1	0	22.04	22.13	22.14	23.80
		1	50	22.33	22.39	22.34	23.80
		1	99	22.29	22.44	22.34	23.80
		50	0	20.99	21.13	21.13	22.80
		50	25	21.1	21.16	21.15	22.80
		50	50	21.15	21.18	21.13	22.80
		100	0	21.09	21.15	21.12	22.80
	64QAM	1	0	20.85	20.82	20.89	22.80
		1	50	20.88	20.93	21.28	22.80
		1	99	20.87	20.83	21.33	22.80
		50	0	19.87	19.88	20.04	21.80
		50	25	19.86	19.87	20.06	21.80
		50	50	20.00	19.92	20.15	21.80
		100	0	19.80	20.02	20.01	21.80

LTE Band 7 Receiver on&Hotspot on				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				20775	21100	21425		
5MHz	QPSK	1	0	13.81	13.82	14.01	15.80	
		1	13	13.95	14.00	13.99	15.80	
		1	24	14.16	14.15	14.09	15.80	
		12	0	13.87	13.90	13.90	15.80	
		12	6	13.97	14.06	14.11	15.80	
		12	13	13.96	14.03	13.97	15.80	
	16QAM	25	0	14.01	14.11	14.19	15.80	
		1	0	13.93	13.96	14.06	15.80	
		1	13	13.84	14.00	13.80	15.80	
		1	24	13.82	13.86	13.94	15.80	
		12	0	13.87	13.85	13.93	15.80	
		12	6	13.82	13.87	13.87	15.80	
	64QAM	12	13	13.97	13.99	13.99	15.80	
		25	0	13.97	14.02	14.06	15.80	
		1	0	13.82	13.87	13.96	15.80	
		1	13	13.94	13.90	13.95	15.80	
		1	24	14.07	14.13	14.08	15.80	
		12	0	13.86	13.84	13.83	15.80	
10MHz	QPSK	12	6	13.90	13.96	14.05	15.80	
		12	13	13.86	13.93	13.92	15.80	
		25	0	13.93	14.04	14.15	15.80	
		1	0	13.87	13.91	13.84	15.80	
		1	25	13.90	13.99	13.94	15.80	
		1	49	14.01	13.98	14.06	15.80	
	16QAM	25	0	13.90	13.88	13.81	15.80	
		25	13	13.90	13.88	13.97	15.80	
		25	25	14.04	14.12	14.07	15.80	
		50	0	13.90	13.97	13.98	15.80	
		1	0	13.82	13.98	13.93	15.80	
		1	25	13.84	13.90	13.94	15.80	
	64QAM	1	49	13.89	13.80	13.84	15.80	
		25	0	13.91	13.92	13.98	15.80	
		25	13	13.82	13.87	13.86	15.80	
		25	25	13.87	13.81	13.80	15.80	
		50	0	14.00	13.98	13.97	15.80	
		1	0	23.89	13.89	13.82	15.80	
15MHz	QPSK	1	25	13.89	13.97	13.84	15.80	
		1	49	13.98	13.89	13.96	15.80	
		25	0	13.88	13.81	13.80	15.80	
		25	13	13.80	13.81	13.88	15.80	
		25	25	13.99	14.07	14.04	15.80	
		50	0	13.80	13.85	13.89	15.80	
	15MHz	QPSK	1	0	13.82	13.91	13.88	15.80
			1	38	14.01	14.09	14.15	15.80



		1	74	14.01	14.00	14.07	15.80	
		36	0	13.85	13.85	13.84	15.80	
		36	18	13.88	13.93	14.02	15.80	
		36	39	14.12	14.22	14.22	15.80	
		75	0	13.93	13.87	13.86	15.80	
	16QAM	1	0	13.92	13.98	13.90	15.80	
		1	38	13.94	13.85	13.86	15.80	
		1	74	13.94	13.92	13.91	15.80	
		36	0	13.89	13.92	13.98	15.80	
		36	18	13.81	13.81	13.89	15.80	
		36	39	13.87	13.93	13.99	15.80	
		75	0	13.96	14.01	14.00	15.80	
	64QAM	1	0	13.83	13.90	13.89	15.80	
		1	38	13.95	14.01	14.10	15.80	
		1	74	13.96	13.89	13.98	15.80	
		36	0	13.85	13.85	13.82	15.80	
		36	18	13.89	13.87	14.01	15.80	
		36	39	14.05	14.16	14.12	15.80	
		75	0	13.91	13.85	13.87	15.80	
	Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350	Tune up
	20MHz	QPSK	1	0	13.91	13.94	13.87	15.80
1			50	14.04	13.99	13.94	15.80	
1			99	13.94	14.04	14.07	15.80	
50			0	13.92	13.86	13.92	15.80	
50			25	13.92	13.85	13.89	15.80	
50			50	13.83	13.92	13.92	15.80	
100			0	13.81	13.88	13.93	15.80	
16QAM		1	0	13.85	13.81	13.88	15.80	
		1	50	13.85	13.85	13.90	15.80	
		1	99	13.88	13.92	13.84	15.80	
		50	0	13.81	13.86	13.89	15.80	
		50	25	13.89	13.84	13.81	15.80	
		50	50	13.85	13.88	13.95	15.80	
		100	0	13.97	14.01	14.02	15.80	
64QAM		1	0	13.87	13.85	13.82	15.80	
		1	50	13.99	13.95	13.88	15.80	
		1	99	13.92	13.98	14.01	15.80	
		50	0	13.86	13.82	13.91	15.80	
		50	25	13.91	13.83	13.87	15.80	
		50	50	13.87	13.87	14.00	15.80	
		100	0	13.81	13.86	13.83	15.80	



LTE Band 38 Full power				Conducted Power(dBm)						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up			
				37775	38000	38225				
5MHz	QPSK	1	0	23.14	23.06	23.00	24.80			
		1	13	23.10	23.22	23.17	24.80			
		1	24	23.17	23.08	23.09	24.80			
		12	0	22.09	22.16	22.10	23.80			
		12	6	22.22	22.21	22.22	23.80			
		12	13	22.20	22.11	22.05	23.80			
	16QAM	25	0	22.08	22.14	22.16	23.80			
		1	0	22.01	22.05	22.08	23.80			
		1	13	22.29	22.09	22.14	23.80			
		1	24	22.20	22.02	22.00	23.80			
		12	0	21.14	21.14	21.08	22.80			
		12	6	21.04	21.20	21.20	22.80			
	64QAM	12	13	21.17	21.09	21.18	22.80			
		25	0	21.06	21.10	21.17	22.80			
		1	0	21.13	21.02	20.88	22.80			
		1	13	21.01	21.13	21.05	22.80			
		1	24	21.16	21.02	21.08	22.80			
		12	0	20.05	20.10	20.02	21.80			
	10MHz	QPSK	12	6	20.13	20.19	20.11	21.80		
			12	13	20.13	19.99	20.01	21.80		
			25	0	19.97	20.08	20.11	21.80		
Bandwidth			Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
15MHz			QPSK	37800	38000	38200	37800	38000	38200	Tune up
				1	0	23.09	23.06	23.07	24.80	
		1		25	23.13	23.26	23.19	24.80		
		1		49	23.10	23.16	23.00	24.80		
		25		0	22.06	22.15	22.18	23.80		
		25		13	22.19	22.21	22.27	23.80		
		16QAM	25	25	22.09	22.20	22.00	23.80		
			50	0	22.11	22.06	22.14	23.80		
			1	0	21.97	21.93	22.11	23.80		
			1	25	22.17	22.05	22.14	23.80		
			1	49	22.12	22.01	22.01	23.80		
			25	0	21.12	21.13	21.10	22.80		
		64QAM	25	13	21.11	21.14	21.11	22.80		
			25	25	21.11	21.10	21.10	22.80		
			50	0	21.07	21.09	21.16	22.80		
			1	0	21.00	20.96	21.01	22.80		
			1	25	21.07	21.20	21.14	22.80		
	1		49	21.01	21.04	20.92	22.80			
	15MHz	QPSK	25	0	20.03	20.04	20.07	21.80		
			25	13	20.17	20.18	20.15	21.80		
			25	25	20.07	20.09	19.93	21.80		
50			0	20.06	20.03	20.04	21.80			
Bandwidth			Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
15MHz			QPSK	37825	38000	38175	37825	38000	38175	Tune up
		1		0	23.02	23.00	23.09	24.80		
1		38	23.16	23.23	23.15	24.80				

		1	74	23.14	23.04	23.02	24.80	
		36	0	22.09	22.18	22.07	23.80	
		36	18	22.27	22.11	22.18	23.80	
		36	39	22.11	22.11	22.00	23.80	
		75	0	22.14	22.17	22.02	23.80	
	16QAM	1	0	22.03	21.98	22.09	23.80	
		1	38	22.21	22.00	22.08	23.80	
		1	74	22.18	22.06	22.06	23.80	
		36	0	21.01	21.08	21.09	22.80	
		36	18	21.06	21.14	21.21	22.80	
		36	39	21.13	21.25	21.12	22.80	
		75	0	21.05	21.08	21.17	22.80	
	64QAM	1	0	20.96	20.96	21.04	22.80	
		1	38	21.12	21.21	21.05	22.80	
		1	74	21.11	20.93	20.99	22.80	
		36	0	20.06	20.06	20.03	21.80	
		36	18	20.15	20.01	20.10	21.80	
		36	39	20.02	20.09	19.94	21.80	
		75	0	20.07	20.15	19.98	21.80	
	Bandwidth	Modulation	RB size	RB offset	Channel 37850	Channel 38000	Channel 38150	Tune up
	20MHz	QPSK	1	0	23.09	23.07	23.07	24.80
1			50	23.16	23.22	23.23	24.80	
1			99	23.15	23.09	23.05	24.80	
50			0	22.06	22.11	22.20	23.80	
50			25	22.19	22.14	22.19	23.80	
50			50	22.16	22.13	22.08	23.80	
100			0	22.09	22.12	22.10	23.80	
16QAM		1	0	22.01	22.01	22.04	23.80	
		1	50	22.22	22.05	22.11	23.80	
		1	99	22.15	22.08	21.98	23.80	
		50	0	21.08	21.13	21.09	22.80	
		50	25	21.05	21.15	21.13	22.80	
		50	50	21.16	21.17	21.12	22.80	
		100	0	21.07	21.08	21.11	22.80	
64QAM		1	0	21.02	20.97	21.05	22.80	
		1	50	21.11	21.15	21.21	22.80	
		1	99	21.08	21.03	21.00	22.80	
		50	0	19.96	20.08	20.16	21.80	
		50	25	20.11	20.06	20.16	21.80	
		50	50	20.05	20.05	19.98	21.80	
		100	0	20.05	20.11	20.09	21.80	



LTE Band 38 Receiver on&Hotspot on				Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
				37775	38000	38225			
5MHz	QPSK	1	0	17.87	17.88	17.87	19.80		
		1	13	18.22	18.28	18.37	19.80		
		1	24	18.29	18.24	18.11	19.80		
		12	0	17.96	18.03	18.05	19.80		
		12	6	18.15	18.18	18.11	19.80		
		12	13	18.14	18.14	18.07	19.80		
	16QAM	25	0	17.99	18.03	17.99	19.80		
		1	0	17.92	17.96	18.04	19.80		
		1	13	17.97	18.02	18.02	19.80		
		1	24	17.89	17.86	17.83	19.80		
		12	0	18.02	18.01	18.02	19.80		
		12	6	18.06	18.09	18.17	19.80		
	64QAM	12	13	18.08	18.09	18.11	19.80		
		25	0	17.92	17.84	17.81	19.80		
		1	0	17.86	17.89	17.86	19.80		
		1	13	18.19	18.20	18.29	19.80		
		1	24	18.27	18.15	18.02	19.80		
		12	0	17.84	18.02	18.01	19.80		
10MHz	QPSK	12	6	18.06	18.13	18.00	19.80		
		12	13	18.10	18.02	18.05	19.80		
		25	0	17.92	17.94	17.97	19.80		
		1	0	17.86	17.87	17.90	19.80		
		1	25	18.25	18.21	18.13	19.80		
		1	49	17.99	17.83	17.94	19.80		
	16QAM	25	0	18.08	18.05	18.10	19.80		
		25	13	18.02	17.96	18.00	19.80		
		25	25	18.15	18.23	18.17	19.80		
		50	0	18.05	17.97	17.95	19.80		
		1	0	17.89	17.86	17.93	19.80		
		1	25	17.86	18.03	18.05	19.80		
	64QAM	1	49	17.86	18.01	17.80	19.80		
		25	0	18.10	18.01	18.10	19.80		
		25	13	17.98	18.08	18.08	19.80		
		25	25	18.19	18.13	18.04	19.80		
		50	0	18.00	17.92	17.93	19.80		
		1	0	17.84	17.86	17.85	19.80		
15MHz	QPSK	1	25	18.22	18.12	18.09	19.80		
		1	49	17.87	17.89	17.82	19.80		
		25	0	18.03	18.02	18.00	19.80		
		25	13	17.92	17.89	17.90	19.80		
		25	25	18.10	18.22	18.07	19.80		
		50	0	18.00	17.93	17.93	19.80		
	16QAM	1	0	17.84	17.86	17.85	19.80		
		1	25	18.22	18.12	18.09	19.80		
		1	49	17.87	17.89	17.82	19.80		
		25	0	18.03	18.02	18.00	19.80		
		25	13	17.92	17.89	17.90	19.80		
		25	25	18.10	18.22	18.07	19.80		
	64QAM	50	0	18.00	17.93	17.93	19.80		
		Channel	Channel	Channel	Tune up				
		37825	38000	38175					
		15MHz	QPSK	1	0	17.95	18.05	18.13	19.80
				1	38	18.17	18.17	18.22	19.80

		1	74	17.89	17.95	17.93	19.80	
		36	0	18.02	17.95	17.99	19.80	
		36	18	18.10	18.20	18.10	19.80	
		36	39	18.08	18.13	18.18	19.80	
		75	0	17.93	17.84	17.82	19.80	
	16QAM	1	0	17.82	17.92	17.96	19.80	
		1	38	17.86	17.81	17.81	19.80	
		1	74	18.01	17.91	17.83	19.80	
		36	0	18.02	17.96	17.87	19.80	
		36	18	18.04	18.09	18.13	19.80	
		36	39	18.20	18.11	18.20	19.80	
		75	0	17.90	17.97	18.07	19.80	
	64QAM	1	0	17.85	18.01	18.06	19.80	
		1	38	18.08	18.16	18.10	19.80	
		1	74	17.84	17.91	17.82	19.80	
		36	0	17.96	17.88	17.95	19.80	
		36	18	18.00	18.14	18.07	19.80	
		36	39	17.98	18.09	18.17	19.80	
		75	0	17.92	17.83	17.81	19.80	
	Bandwidth	Modulation	RB size	RB offset	Channel 37850	Channel 38000	Channel 38150	Tune up
	20MHz	QPSK	1	0	18.12	18.02	17.95	19.80
1			50	18.13	18.04	18.00	19.80	
1			99	17.99	17.94	18.16	19.80	
50			0	18.06	18.15	18.16	19.80	
50			25	18.13	18.05	18.09	19.80	
50			50	18.02	17.99	18.07	19.80	
100			0	17.94	17.91	17.95	19.80	
16QAM		1	0	17.98	17.92	17.83	19.80	
		1	50	17.96	17.96	17.88	19.80	
		1	99	17.99	17.90	17.92	19.80	
		50	0	18.11	18.01	18.00	19.80	
		50	25	17.97	18.04	18.08	19.80	
		50	50	18.14	18.05	18.14	19.80	
		100	0	17.96	17.90	17.99	19.80	
64QAM		1	0	18.06	18.00	17.87	19.80	
		1	50	18.06	17.98	17.93	19.80	
		1	99	17.98	17.88	18.12	19.80	
		50	0	17.94	18.06	18.09	19.80	
		50	25	18.05	18.01	18.01	19.80	
		50	50	17.96	17.90	18.04	19.80	
		100	0	17.85	17.87	17.86	19.80	

LTE Band 41 Full power				Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39675	40148	40620	41093	41565	
5MHz	QPSK	1	0	23.03	23.01	23.28	23.24	23.24	23.30
		1	13	23.02	23.04	23.21	23.25	23.28	23.30
		1	24	23.03	23.11	23.24	23.28	23.3	23.30
		12	0	21.96	22.02	22.19	22.24	22.24	22.30
		12	6	21.98	22.01	22.21	22.22	22.2	22.30
		12	13	21.97	21.96	22.14	22.21	22.17	22.30
	16QAM	25	0	21.98	22.01	22.14	22.25	22.21	22.30
		1	0	21.95	22.03	22.26	22.24	22.19	22.30
		1	13	21.96	21.98	22.16	22.23	22.19	22.30
		1	24	22.01	22.04	22.25	22.25	22.23	22.30
		12	0	20.96	20.96	21.1	21.2	21.23	21.30
		12	6	20.97	20.93	21.05	21.1	21.15	21.30
	64QAM	12	13	20.89	20.92	21.04	21.12	21.12	21.30
		25	0	21.03	21	21.18	21.28	21.27	21.30
		1	0	20.99	20.94	21.27	21.12	21.19	21.30
		1	13	20.96	20.92	21.11	21.24	21.21	21.30
		1	24	20.93	21.03	21.21	21.22	21.18	21.30
		12	0	19.90	19.90	20.10	20.21	20.21	20.30
10MHz	QPSK	12	6	19.95	19.92	20.15	20.14	20.12	20.30
		12	13	19.90	19.91	20.12	20.18	20.12	20.30
		25	0	19.90	19.91	20.04	20.22	20.18	20.30
		1	0	23.01	23.02	23.15	23.14	23.28	23.30
		1	25	23.04	23.07	23.29	23.17	23.29	23.30
		1	49	22.97	23.09	23.19	23.19	23.21	23.30
	16QAM	25	0	21.9	22	22.11	22.14	22.2	22.30
		25	13	21.91	22.01	22.17	22.09	22.19	22.30
		25	25	21.92	21.99	22.18	22.09	22.16	22.30
		50	0	21.95	21.98	22.2	22.16	22.23	22.30
		1	0	21.97	22.01	22.2	22.14	22.22	22.30
		1	25	21.91	22.01	22.23	22.13	22.29	22.30
	64QAM	1	49	21.91	22.03	22.25	22.18	22.19	22.30
		25	0	21.01	20.99	21.1	21.11	21.29	21.30
		25	13	20.99	21	21.15	21.06	21.22	21.30
		25	25	20.95	20.98	21.14	21.15	21.23	21.30
		50	0	20.97	20.99	21.15	21.14	21.21	21.30
		1	0	20.90	20.98	21.07	21.05	21.22	21.30
15MHz	QPSK	1	25	21.00	21.02	21.23	21.15	21.21	21.30
		1	49	20.86	20.99	21.15	21.10	21.11	21.30
		25	0	19.79	19.98	20.00	20.08	20.16	20.30
		25	13	19.87	19.91	20.08	20.06	20.16	20.30
		25	25	19.88	19.92	20.13	20.04	20.08	20.30
		50	0	19.91	19.92	20.10	20.08	20.15	20.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39700	40160	40620	41080	41540	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39725	40173	40620	41068	41515	
15MHz	QPSK	1	0	22.94	23.04	23.14	23.09	23.21	23.30
		1	38	22.97	23.02	23.27	23.18	23.27	23.30

		1	74	22.91	23.08	23.15	23.1	23.19	23.30
		36	0	21.83	21.96	22.08	22.1	22.19	22.30
		36	18	21.88	21.97	22.12	22.07	22.2	22.30
		36	39	21.92	21.97	22.14	22.05	22.14	22.30
		75	0	21.94	21.96	22.18	22.11	22.24	22.30
	16QAM	1	0	21.94	21.97	22.1	22.08	22.17	22.30
		1	38	21.99	22.07	22.26	22.12	22.23	22.30
		1	74	21.92	22.03	22.15	22.08	22.18	22.30
		36	0	20.82	20.96	21.14	21.06	21.17	21.30
		36	18	20.87	20.96	21.13	21.04	21.1	21.30
		36	39	20.86	20.96	21.12	21.07	21.15	21.30
	64QAM	75	0	20.89	20.98	21.23	21.15	21.28	21.30
		1	0	20.82	20.95	21.13	21.03	21.13	21.30
		1	38	20.87	20.97	21.19	21.11	21.18	21.30
		1	74	20.87	21.03	21.12	21.09	21.10	21.30
		36	0	19.79	19.84	20.00	19.98	20.07	20.30
		36	18	19.79	19.88	20.01	19.98	20.19	20.30
		36	39	19.91	19.88	20.09	20.00	20.12	20.30
	75	0	19.93	19.95	20.11	20.02	20.15	20.30	
	Bandwidth	Modulation	RB size	RB offset	Channel 39750	Channel 40185	Channel 40620	Channel 41055	Channel 41490
20MHz	QPSK	1	0	22.91	22.83	23.09	23.1	23.12	23.30
		1	50	22.92	23.03	23.2	23.18	23.15	23.30
		1	99	22.84	22.96	23.21	23.02	23.07	23.30
		50	0	21.84	21.99	22.23	22.12	22.18	22.30
		50	25	21.95	21.98	22.16	22.12	22.22	22.30
		50	50	21.98	22.01	22.15	22.09	22.19	22.30
		100	0	21.9	21.97	22.14	22.12	22.19	22.30
	16QAM	1	0	21.91	21.97	22.06	22.1	22.12	22.30
		1	50	21.98	22.03	22.19	22.12	22.22	22.30
		1	99	21.94	22.05	22.08	22.04	22.1	22.30
		50	0	20.8	21.01	21.09	21.13	21.21	21.30
		50	25	20.96	21	21.17	21.11	21.2	21.30
		50	50	21	21.09	21.17	21.03	21.24	21.30
	64QAM	100	0	20.84	21.01	21.12	21.04	21.19	21.30
		1	0	20.82	20.73	21.01	21.02	21.05	21.30
		1	50	20.88	20.98	21.12	21.13	21.05	21.30
		1	99	20.78	20.95	21.18	20.96	20.99	21.30
		50	0	19.83	19.95	20.15	20.07	20.10	20.30
		50	25	19.91	19.92	20.07	20.01	20.20	20.30
		50	50	19.92	19.89	20.13	19.99	20.14	20.30
100	0	19.89	19.88	20.10	20.05	20.11	20.30		

LTE Band 41 Receiver on&Hotspot on				Conducted Power(dBm)						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up	
				39675	40148	40620	41093	41565		
5MHz	QPSK	1	0	19.09	19.07	19.05	19	19.08	19.30	
		1	13	19.25	19.21	19.06	19.08	19.2	19.30	
		1	24	19.13	19.05	19.03	19.02	19.11	19.30	
		12	0	19.16	19.29	19.19	19.09	19.09	19.30	
		12	6	19.26	19.24	19.12	19.11	19.14	19.30	
		12	13	19.3	19.06	19.04	19.02	19.14	19.30	
	16QAM	25	0	19.15	19.2	19.22	19.01	19.15	19.30	
		1	0	19.03	18.98	19.06	19.14	19.16	19.30	
		1	13	19.18	19.17	19.07	19	19.1	19.30	
		1	24	19.17	18.84	19.12	19.07	19.01	19.30	
		12	0	19.14	19.23	19.08	19.05	19.24	19.30	
		12	6	19.1	19.17	19.09	19.03	19.14	19.30	
	64QAM	12	13	19.21	19.13	19.12	19.25	19.28	19.30	
		25	0	19.26	19.17	19.07	19.14	19.3	19.30	
		1	0	18.98	18.92	18.99	19.11	19.09	19.30	
		1	13	19.13	19.14	19.02	18.99	19.01	19.30	
		1	24	19.14	18.73	19.05	19.03	18.97	19.30	
		12	0	19.10	19.20	19.02	18.95	19.20	19.30	
	10MHz	QPSK	12	6	19.05	19.11	18.98	19.01	19.06	19.30
			12	13	19.13	19.06	19.04	19.24	19.22	19.30
			25	0	19.19	19.15	19.03	19.05	19.26	19.30
1			0	19	19.08	19.05	18.97	19.2	19.30	
1			25	19.19	19.28	19.17	19.01	19.14	19.30	
1			49	19.01	19.05	19.05	18.88	19.01	19.30	
16QAM		25	0	19.03	19.29	19.1	19.2	19.28	19.30	
		25	13	19.25	19.12	19.06	19.14	19.23	19.30	
		25	25	19.21	19.07	19.04	19.16	19.08	19.30	
		50	0	19.14	19.21	19.06	19.2	19.06	19.30	
		1	0	19.2	19.13	18.98	19.09	19.19	19.30	
		1	25	19.19	19.26	19.1	19.15	19.23	19.30	
64QAM	1	49	19.17	18.86	19.11	19.01	19.09	19.30		
	25	0	19.19	19.3	19.15	19.16	19.3	19.30		
	25	13	19.13	19.18	19.18	19.18	19.18	19.30		
	25	25	19.2	19.07	19.1	19.21	19.11	19.30		
	50	0	19.15	19.26	19.09	19.06	19.14	19.30		
	1	0	19.16	19.06	18.96	19.08	19.07	19.30		
15MHz	QPSK	1	25	19.07	19.14	18.99	19.05	19.17	19.30	
		1	49	19.05	18.81	19.01	18.94	19.07	19.30	
		25	0	19.07	19.25	19.09	19.10	19.26	19.30	
		25	13	19.11	19.08	19.09	19.17	19.17	19.30	
		25	25	19.10	18.98	19.01	19.11	19.00	19.30	
		50	0	19.13	19.20	19.06	19.04	19.07	19.30	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up	
				39725	40173	40620	41068	41515		
15MHz	QPSK	1	0	19.17	19.04	18.96	19.01	19.1	19.30	
		1	38	19.17	19.26	19.24	19.07	19.07	19.30	
		1	74	19.04	18.9	18.99	19.05	19.06	19.30	
		36	0	19.13	19.27	19.08	19.12	19.18	19.30	

	16QAM	36	18	19.13	19.3	19.16	19.07	19.19	19.30
		36	39	19.21	18.99	19.05	19.12	19.16	19.30
		75	0	19.12	19.25	19.11	19.05	19.18	19.30
		1	0	19.12	19	18.99	19.13	19.19	19.30
		1	38	19.27	19.19	19.06	19	19.14	19.30
		1	74	19.14	18.99	19	18.96	19.08	19.30
		36	0	19.06	19.25	19.07	19.04	19.14	19.30
		36	18	19.27	19.16	19.18	19.17	19.29	19.30
		36	39	19.28	19.09	19.18	19.12	19.11	19.30
	75	0	19.24	19.28	19.23	19	19.24	19.30	
	64QAM	1	0	19.00	18.88	18.95	19.02	19.12	19.30
		1	38	19.16	19.18	18.97	18.89	19.13	19.30
		1	74	19.10	18.96	18.93	18.94	19.06	19.30
		36	0	19.01	19.13	19.02	18.94	19.06	19.30
		36	18	19.18	19.11	19.14	19.16	19.28	19.30
		36	39	19.27	18.97	19.09	19.07	19.05	19.30
		75	0	19.21	19.25	19.11	18.93	19.22	19.30
	Bandwidth	Modulation	RB size	RB offset	Channel 39750	Channel 40185	Channel 40620	Channel 41055	Channel 41490
20MHz	QPSK	1	0	19.09	19.11	18.99	18.95	19.1	19.30
		1	50	19.19	19.23	19.14	19.09	19.14	19.30
		1	99	19.08	18.98	19.28	18.95	19.06	19.30
		50	0	19.08	19.22	19.22	19.13	19.19	19.30
		50	25	19.21	19.21	19.16	19.12	19.22	19.30
		50	50	19.21	19.06	19.14	19.06	19.18	19.30
		100	0	19.12	19.24	19.13	19.1	19.16	19.30
	16QAM	1	0	19.11	19.07	19.02	19.04	19.16	19.30
		1	50	19.2	19.24	19.16	19.09	19.17	19.30
		1	99	19.07	18.94	19.06	18.98	19.05	19.30
		50	0	19.09	19.21	19.13	19.14	19.24	19.30
		50	25	19.18	19.24	19.17	19.11	19.23	19.30
		50	50	19.28	19.08	19.18	19.15	19.18	19.30
		100	0	19.16	19.25	19.15	19.1	19.21	19.30
	64QAM	1	0	19.04	19.01	18.95	18.94	19.15	19.30
		1	50	19.17	19.16	19.11	19.06	19.15	19.30
		1	99	19.02	18.87	18.97	18.97	18.99	19.30
		50	0	19.02	19.10	19.09	19.11	19.12	19.30
		50	25	19.09	19.21	19.12	19.01	19.20	19.30
		50	50	19.23	18.97	19.17	19.08	19.14	19.30
		100	0	19.11	19.17	19.08	19.09	19.10	19.30



LTE Band 66 Full power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				131979	132322	132665	
1.4MHz	QPSK	1	0	22.97	23.18	23.27	24.80
		1	2	23.33	23.24	23.08	24.80
		1	5	23.18	23.03	23.08	24.80
		3	0	23.15	23.07	23.17	24.80
		3	1	23.24	23.18	23.08	24.80
		3	3	23.32	23.22	23.19	24.80
	16QAM	6	0	22.15	22.19	22.18	23.80
		1	0	22.61	22.67	22.53	23.80
		1	2	22.58	22.68	22.04	23.80
		1	5	22.54	22.65	22.42	23.80
		3	0	22.36	22.44	22.11	23.80
		3	1	22.14	22.29	22.19	23.80
	64QAM	3	3	22.23	22.30	22.16	23.80
		6	0	21.11	21.15	21.22	22.80
		1	0	20.91	21.12	21.17	22.80
		1	2	21.32	21.17	21.05	22.80
		1	5	21.08	21.00	21.05	22.80
		3	0	21.12	21.02	21.05	22.80
3MHz	QPSK	3	1	21.15	21.08	20.99	22.80
		3	3	21.22	21.17	21.15	22.80
		6	0	20.07	20.08	20.14	21.80
		1	0	23.48	23.17	23.35	24.80
		1	7	23.34	23.33	23.19	24.80
		1	14	23.03	23.11	23.02	24.80
3MHz	16QAM	8	0	22.12	22.16	22.12	23.80
		8	4	22.17	22.26	22.20	23.80
		8	7	22.14	22.23	22.03	23.80
		15	0	22.11	22.16	22.10	23.80
		1	0	22.58	22.19	22.24	23.80
		1	7	22.66	22.49	22.30	23.80
	64QAM	1	14	22.25	22.34	22.48	23.80
		8	0	21.18	21.17	21.22	22.80
		8	4	21.14	21.25	21.18	22.80
		8	7	21.08	21.05	21.10	22.80
		15	0	21.11	21.15	21.14	22.80
		1	0	21.45	21.08	21.33	22.80
5MHz	QPSK	1	7	21.24	21.30	21.18	22.80
		1	14	20.91	21.05	20.90	22.80
		8	0	20.04	20.07	20.05	21.80
		8	4	20.13	20.23	20.17	21.80
		8	7	20.04	20.12	19.91	21.80
		15	0	20.05	20.05	19.98	21.80
5MHz	QPSK	1	0	23.29	23.07	23.21	24.80
		1	13	23.25	23.18	23.14	24.80

		1	24	23.08	23.17	22.98	24.80	
		12	0	22.16	22.20	22.31	23.80	
		12	6	22.20	22.24	22.08	23.80	
		12	13	22.21	22.21	22.14	23.80	
		25	0	22.23	22.15	22.05	23.80	
	16QAM	1	0	22.57	22.21	22.27	23.80	
		1	13	22.70	22.52	22.24	23.80	
		1	24	22.29	22.47	22.46	23.80	
		12	0	21.04	21.22	21.12	22.80	
		12	6	21.27	21.20	21.27	22.80	
		12	13	21.01	21.18	21.10	22.80	
	64QAM	25	0	21.21	21.08	21.08	22.80	
		1	0	21.18	20.95	21.11	22.80	
		1	13	21.16	21.10	21.09	22.80	
		1	24	20.97	21.07	20.91	22.80	
		12	0	20.13	20.09	20.22	21.80	
		12	6	20.18	20.22	20.01	21.80	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
132022					132322	132622		
10MHz	QPSK	1	0	23.30	23.07	23.39	24.80	
		1	25	23.37	23.18	23.22	24.80	
		1	49	23.06	23.13	22.91	24.80	
		25	0	22.12	22.10	22.27	23.80	
		25	13	22.34	22.30	22.19	23.80	
		25	25	22.15	22.12	22.22	23.80	
		50	0	22.08	22.12	22.11	23.80	
	16QAM	1	0	22.51	22.21	22.37	23.80	
		1	25	22.59	22.48	22.17	23.80	
		1	49	22.30	22.49	22.33	23.80	
		25	0	21.13	21.22	21.15	22.80	
		25	13	21.24	21.16	21.09	22.80	
		25	25	20.99	21.18	21.14	22.80	
		50	0	21.23	21.13	21.21	22.80	
	64QAM	1	0	21.20	20.96	21.37	22.80	
		1	25	21.30	21.11	21.11	22.80	
		1	49	21.00	21.07	20.86	22.80	
		25	0	20.05	20.06	20.23	21.80	
		25	13	20.27	20.26	20.17	21.80	
		25	25	20.12	20.02	20.12	21.80	
		50	0	20.03	20.01	20.04	21.80	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
					132047	132322	132597	
	15MHz	QPSK	1	0	23.40	23.13	23.39	24.80
1			38	23.29	23.36	23.21	24.80	
1			74	23.13	23.18	22.85	24.80	
36			0	22.16	22.09	22.28	23.80	
36			18	22.15	22.32	22.10	23.80	
36			39	22.13	22.18	22.03	23.80	
75			0	22.13	22.26	22.16	23.80	
16QAM		1	0	22.50	22.21	22.40	23.80	
		1	38	22.65	22.60	22.12	23.80	
		1	74	22.29	22.51	22.48	23.80	



Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				132072	132322	132572		
20MHz	64QAM	36	0	21.14	21.02	21.12	22.80	
		36	18	21.20	21.27	21.08	22.80	
		36	39	21.01	21.19	21.13	22.80	
		75	0	21.24	20.97	21.09	22.80	
		1	0	21.32	21.06	21.34	22.80	
		1	38	21.23	21.24	21.17	22.80	
		1	74	21.04	21.11	20.87	22.80	
		36	0	20.11	20.05	20.26	21.80	
		36	18	20.08	20.24	20.08	21.80	
		36	39	20.09	20.13	20.00	21.80	
	75	0	20.10	20.21	20.05	21.80		
	20MHz	QPSK	1	0	23.30	23.10	23.24	24.80
			1	50	23.26	23.31	23.28	24.80
			1	99	23.01	23.21	22.89	24.80
			50	0	22.20	22.33	22.17	23.80
			50	25	22.32	22.19	22.13	23.80
			50	50	22.21	22.17	22.20	23.80
			100	0	22.15	22.14	22.05	23.80
		16QAM	1	0	22.42	22.14	22.32	23.80
			1	50	22.64	22.60	22.12	23.80
1			99	22.32	22.35	22.30	23.80	
50			0	21.19	21.10	21.10	22.80	
50			25	21.29	21.11	21.21	22.80	
50			50	21.08	21.08	21.11	22.80	
100			0	21.08	21.03	21.08	22.80	
64QAM		1	0	21.21	21.00	21.16	22.80	
		1	50	21.20	21.22	21.16	22.80	
		1	99	20.97	21.15	20.89	22.80	
		50	0	20.12	20.27	20.05	21.80	
		50	25	20.23	20.16	20.03	21.80	
		50	50	20.16	20.09	20.08	21.80	
	100	0	20.07	20.07	19.96	21.80		

LTE Band 66 Sensor on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				131979	132322	132665	
1.4MHz	QPSK	1	0	22.22	22.30	22.27	23.80
		1	2	22.26	22.30	22.32	23.80
		1	5	22.25	22.29	22.35	23.80
		3	0	22.36	22.35	22.42	23.80
		3	1	22.31	22.32	22.39	23.80
		3	3	22.29	22.38	22.28	23.80
		6	0	22.27	22.42	22.33	23.80
	16QAM	1	0	22.36	22.54	22.62	23.80
		1	2	22.56	22.59	22.62	23.80
		1	5	22.45	22.63	22.67	23.80
		3	0	22.36	22.43	22.44	23.80
		3	1	22.31	22.44	22.49	23.80
		3	3	22.28	22.35	22.42	23.80
		6	0	21.28	21.50	21.47	22.80



		1	0	20.91	21.12	21.17	22.80
		1	2	21.32	21.17	21.05	22.80
		1	5	21.08	21.00	21.05	22.80
		3	0	21.12	21.02	21.05	22.80
		3	1	21.15	21.08	20.99	22.80
		3	3	21.22	21.17	21.15	22.80
		6	0	20.07	20.08	20.14	21.80
Bandwidth	Modulation	RB size	RB offset	Channel 131987	Channel 132322	Channel 132657	Tune up
3MHz	QPSK	1	0	22.28	22.38	22.41	23.80
		1	7	22.34	22.43	22.30	23.80
		1	14	22.25	22.29	22.27	23.80
		8	0	22.32	22.44	22.54	23.80
		8	4	22.35	22.39	22.38	23.80
		8	7	22.44	22.33	22.30	23.80
		15	0	22.32	22.40	22.47	23.80
	16QAM	1	0	22.56	22.46	22.52	23.80
		1	7	22.61	22.64	22.54	23.80
		1	14	22.50	22.47	22.52	23.80
		8	0	21.27	21.30	21.45	22.80
		8	4	21.42	21.49	21.44	22.80
		8	7	21.38	21.34	21.34	22.80
		15	0	21.37	21.32	21.45	22.80
	64QAM	1	0	21.45	21.08	21.33	22.80
		1	7	21.24	21.30	21.18	22.80
		1	14	20.91	21.05	20.90	22.80
		8	0	20.04	20.07	20.05	21.80
		8	4	20.13	20.23	20.17	21.80
		8	7	20.04	20.12	19.91	21.80
		15	0	20.05	20.05	19.98	21.80
Bandwidth	Modulation	RB size	RB offset	Channel 131997	Channel 132322	Channel 132647	Tune up
5MHz	QPSK	1	0	22.37	22.34	22.28	23.80
		1	13	22.37	22.33	22.27	23.80
		1	24	22.35	22.23	22.29	23.80
		12	0	22.28	22.32	22.41	23.80
		12	6	22.47	22.43	22.49	23.80
		12	13	22.47	22.31	22.32	23.80
		25	0	22.29	22.41	22.47	23.80
	16QAM	1	0	22.48	22.51	22.50	23.80
		1	13	22.60	22.57	22.54	23.80
		1	24	22.45	22.40	22.37	23.80
		12	0	21.22	21.28	21.52	22.80
		12	6	21.33	21.39	21.41	22.80
		12	13	21.39	21.27	21.39	22.80
		25	0	21.41	21.30	21.42	22.80
	64QAM	1	0	21.18	20.95	21.11	22.80
		1	13	21.16	21.10	21.09	22.80
		1	24	20.97	21.07	20.91	22.80
		12	0	20.13	20.09	20.22	21.80
		12	6	20.18	20.22	20.01	21.80
		12	13	20.10	20.14	20.09	21.80
		25	0	20.19	20.05	19.97	21.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up



Bandwidth	Modulation	RB size	RB offset	132022	132322	132622	Tune up
				Channel 132047	Channel 132322	Channel 132597	
10MHz	QPSK	1	0	22.37	22.31	22.30	23.80
		1	25	22.40	22.37	22.24	23.80
		1	49	22.36	22.25	22.14	23.80
		25	0	22.27	22.40	22.41	23.80
		25	13	22.43	22.49	22.37	23.80
		25	25	22.53	22.41	22.44	23.80
		50	0	22.30	22.35	22.36	23.80
	16QAM	1	0	22.48	22.56	22.57	23.80
		1	25	22.61	22.65	22.54	23.80
		1	49	22.44	22.45	22.44	23.80
		25	0	21.27	21.35	21.45	22.80
		25	13	21.36	21.43	21.40	22.80
		25	25	21.49	21.40	21.41	22.80
		50	0	21.31	21.37	21.39	22.80
	64QAM	1	0	21.20	20.96	21.37	22.80
		1	25	21.30	21.11	21.11	22.80
		1	49	21.00	21.07	20.86	22.80
		25	0	20.05	20.06	20.23	21.80
		25	13	20.27	20.26	20.17	21.80
		25	25	20.12	20.02	20.12	21.80
		50	0	20.03	20.01	20.04	21.80
Bandwidth	Modulation	RB size	RB offset	Channel 132047	Channel 132322	Channel 132597	Tune up
15MHz	QPSK	1	0	22.26	22.28	22.39	23.80
		1	38	22.30	22.46	22.29	23.80
		1	74	22.33	22.34	22.28	23.80
		36	0	22.30	22.33	22.44	23.80
		36	18	22.32	22.37	22.48	23.80
		36	39	22.52	22.34	22.44	23.80
		75	0	22.36	22.36	22.39	23.80
	16QAM	1	0	22.44	22.47	22.60	23.80
		1	38	22.52	22.63	22.58	23.80
		1	74	22.53	22.53	22.50	23.80
		36	0	21.23	21.43	21.55	22.80
		36	18	21.46	21.51	21.39	22.80
		36	39	21.42	21.39	21.35	22.80
		75	0	21.33	21.40	21.35	22.80
	64QAM	1	0	21.32	21.06	21.34	22.80
		1	38	21.23	21.24	21.17	22.80
		1	74	21.04	21.11	20.87	22.80
		36	0	20.11	20.05	20.26	21.80
		36	18	20.08	20.24	20.08	21.80
		36	39	20.09	20.13	20.00	21.80
		75	0	20.10	20.21	20.05	21.80
Bandwidth	Modulation	RB size	RB offset	Channel 132072	Channel 132322	Channel 132572	Tune up
20MHz	QPSK	1	0	22.22	22.37	22.31	23.80
		1	50	22.31	22.32	22.37	23.80
		1	99	22.36	22.25	22.17	23.80
		50	0	22.31	22.33	22.49	23.80
		50	25	22.33	22.49	22.41	23.80
		50	50	22.45	22.42	22.44	23.80
		100	0	22.31	22.31	22.41	23.80

	16QAM	1	0	22.41	22.59	22.64	23.80
		1	50	22.59	22.64	22.65	23.80
		1	99	22.56	22.39	22.40	23.80
		50	0	21.19	21.42	21.42	22.80
		50	25	21.38	21.42	21.41	22.80
		50	50	21.39	21.29	21.29	22.80
		100	0	21.27	21.34	21.48	22.80
	64QAM	1	0	21.21	21.00	21.16	22.80
		1	50	21.20	21.22	21.16	22.80
		1	99	20.97	21.15	20.89	22.80
		50	0	20.12	20.27	20.05	21.80
		50	25	20.23	20.16	20.03	21.80
		50	50	20.16	20.09	20.08	21.80
		100	0	20.07	20.07	19.96	21.80

LTE Band 66 Receiver on&Hotspot on				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				131979	132322	132665		
1.4MHz	QPSK	1	0	15.39	15.15	15.35	16.80	
		1	2	15.29	15.22	15.27	16.80	
		1	5	15.15	15.33	14.96	16.80	
		3	0	15.34	15.16	15.38	16.80	
		3	1	15.38	15.29	15.26	16.80	
		3	3	15.03	15.29	14.94	16.80	
		6	0	15.42	15.12	15.28	16.80	
	16QAM	1	0	15.33	15.39	15.41	16.80	
		1	2	15.18	15.24	14.88	16.80	
		1	5	15.25	15.30	15.35	16.80	
		3	0	15.40	15.35	15.27	16.80	
		3	1	15.02	15.15	14.85	16.80	
		3	3	15.39	15.09	15.17	16.80	
		6	0	15.36	15.35	15.34	16.80	
	64QAM	1	0	15.36	15.14	15.32	16.80	
		1	2	15.22	15.14	15.23	16.80	
		1	5	15.09	15.21	14.85	16.80	
		3	0	15.28	15.07	15.26	16.80	
		3	1	15.37	15.20	15.14	16.80	
		3	3	14.97	15.24	14.93	16.80	
		6	0	15.32	15.03	15.18	16.80	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
	3MHz	QPSK	1	0	15.42	15.21	15.23	16.80
			1	7	15.39	15.39	15.34	16.80
1			14	15.15	15.25	14.86	16.80	
8			0	15.33	15.09	15.34	16.80	
8			4	15.22	15.28	15.30	16.80	
8			7	15.14	15.14	14.94	16.80	
15			0	15.45	15.20	15.32	16.80	
16QAM		1	0	15.16	15.26	15.43	16.80	
		1	7	15.12	15.33	14.94	16.80	
		1	14	15.24	15.21	15.32	16.80	
		8	0	15.40	15.28	15.20	16.80	



Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				131997	132322	132647		
	64QAM	8	4	15.06	15.27	14.90	16.80	
		8	7	15.34	15.07	15.34	16.80	
		15	0	15.42	15.28	15.22	16.80	
		1	0	15.34	15.13	15.20	16.80	
		1	7	15.37	15.31	15.22	16.80	
		1	14	15.08	15.15	14.87	16.80	
		8	0	15.32	15.00	15.23	16.80	
		8	4	15.16	15.25	15.19	16.80	
		8	7	15.06	15.13	14.82	16.80	
		15	0	15.37	15.16	15.24	16.80	
5MHz	QPSK	1	0	15.45	15.19	15.31	16.80	
		1	13	15.36	15.29	15.37	16.80	
		1	24	15.17	15.34	14.91	16.80	
		12	0	15.40	15.12	15.26	16.80	
		12	6	15.18	15.15	15.27	16.80	
		12	13	15.09	15.16	14.99	16.80	
		25	0	15.44	15.09	15.19	16.80	
	16QAM	1	0	15.21	15.28	15.26	16.80	
		1	13	15.06	15.18	14.88	16.80	
		1	24	15.23	15.29	15.29	16.80	
		12	0	15.39	15.25	15.25	16.80	
		12	6	15.02	15.26	15.00	16.80	
		12	13	15.31	15.20	15.19	16.80	
		25	0	15.34	15.33	15.25	16.80	
	64QAM	1	0	15.35	15.13	15.22	16.80	
		1	13	15.32	15.22	15.30	16.80	
		1	24	15.08	15.23	14.80	16.80	
		12	0	15.35	15.11	15.23	16.80	
		12	6	15.09	15.06	15.25	16.80	
		12	13	15.03	15.06	14.93	16.80	
		25	0	15.35	15.05	15.14	16.80	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
					132022	132322	132622	
	10MHz	QPSK	1	0	15.40	15.06	15.33	16.80
1			25	15.33	15.28	15.38	16.80	
1			49	15.16	15.21	15.01	16.80	
25			0	15.43	15.17	15.23	16.80	
25			13	15.25	15.26	15.38	16.80	
25			25	15.14	15.24	14.92	16.80	
50			0	15.36	15.13	15.27	16.80	
16QAM		1	0	15.36	15.41	15.24	16.80	
		1	25	15.17	15.23	15.03	16.80	
		1	49	15.32	15.27	15.26	16.80	
		25	0	15.41	15.44	15.19	16.80	
		25	13	15.02	15.28	14.95	16.80	
		25	25	15.43	15.16	15.32	16.80	
		50	0	15.28	15.37	15.35	16.80	
64QAM		1	0	15.32	14.95	15.21	16.80	
		1	25	15.30	15.16	15.36	16.80	
		1	49	15.05	15.13	14.96	16.80	
		25	0	15.38	15.16	15.12	16.80	
		25	13	15.18	15.14	15.27	16.80	

Bandwidth	Modulation	25	25	15.13	15.21	14.87	16.80
		50	0	15.30	15.09	15.21	16.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				132047	132322	132597	
15MHz	QPSK	1	0	15.33	15.15	15.32	16.80
		1	38	15.37	15.35	15.35	16.80
		1	74	15.01	15.26	14.82	16.80
		36	0	15.27	15.07	15.29	16.80
		36	18	15.25	15.18	15.33	16.80
		36	39	14.98	15.30	14.86	16.80
		75	0	15.31	15.10	15.30	16.80
	16QAM	1	0	15.31	15.34	15.24	16.80
		1	38	15.09	15.33	15.04	16.80
		1	74	15.41	15.11	15.36	16.80
		36	0	15.40	15.44	15.33	16.80
		36	18	15.11	15.16	15.02	16.80
		36	39	15.40	15.10	15.24	16.80
		75	0	15.32	15.26	15.30	16.80
	64QAM	1	0	15.31	15.11	15.21	16.80
		1	38	15.29	15.26	15.24	16.80
		1	74	14.95	15.20	14.85	16.80
		36	0	15.25	14.95	15.23	16.80
		36	18	15.16	15.14	15.22	16.80
		36	39	14.91	15.26	14.82	16.80
		75	0	15.25	15.07	15.18	16.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				132072	132322	132572	
20MHz	QPSK	1	0	15.39	15.13	15.27	16.80
		1	50	15.36	15.40	15.32	16.80
		1	99	15.07	15.29	14.91	16.80
		50	0	15.36	15.37	15.32	16.80
		50	25	15.28	15.24	15.33	16.80
		50	50	15.08	15.22	14.89	16.80
		100	0	15.39	15.19	15.24	16.80
	16QAM	1	0	15.26	15.34	15.33	16.80
		1	50	15.11	15.24	14.97	16.80
		1	99	15.33	15.20	15.33	16.80
		50	0	15.36	15.34	15.29	16.80
		50	25	15.11	15.24	14.95	16.80
		50	50	15.36	15.13	15.24	16.80
		100	0	15.36	15.32	15.29	16.80
	64QAM	1	0	15.34	15.03	15.19	16.80
		1	50	15.24	15.35	15.31	16.80
		1	99	14.99	15.17	14.88	16.80
		50	0	15.28	15.34	15.25	16.80
		50	25	15.18	15.23	15.21	16.80
		50	50	14.99	15.11	14.83	16.80
		100	0	15.37	15.14	15.14	16.80

5 Conducted Power of Main Antenna(Ant5)

5.1 Conducted Power of GSM

GSM 1900 Full power										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		512	661	810			512	661	810	
GSM(GMSK)	GSM	29.59	29.57	29.39	30.70	-9.19	20.4	20.38	20.2	21.51
GPRS/EGPRS (GMSK)	1 TX Slot	29.58	29.55	29.41	30.70	-9.19	20.39	20.36	20.22	21.51
	2 TX Slots	26.43	26.39	26.27	27.70	-6.18	20.25	20.21	20.09	21.52
	3 TX Slots	24.52	24.46	24.39	25.90	-4.42	20.1	20.04	19.97	21.48
	4 TX Slots	24.06	24.00	23.94	24.70	-3.17	20.89	20.83	20.77	21.53
EGPRS(8PSK)	1 TX Slot	24.08	24.07	24.11	25.70	-9.19	14.89	14.88	14.92	16.51
	2 TX Slots	21.05	21.04	21.11	22.70	-6.18	14.87	14.86	14.93	16.52
	3 TX Slots	19.37	19.36	19.35	20.90	-4.42	14.95	14.94	14.93	16.48
	4 TX Slots	18.12	18.14	18.24	19.70	-3.17	14.95	14.97	15.07	16.53

GSM 1900 Receiver on&Hotspot on										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		512	661	810			512	661	810	
GSM(GMSK)	GSM	27.75	27.73	27.59	28.70	-9.19	18.56	18.54	18.4	19.51
GPRS/EGPRS (GMSK)	1 TX Slot	27.79	27.78	27.66	28.70	-9.19	18.6	18.59	18.47	19.51
	2 TX Slots	24.63	24.56	24.52	25.70	-6.18	18.45	18.38	18.34	19.52
	3 TX Slots	22.78	22.80	22.69	23.90	-4.42	18.36	18.38	18.27	19.48
	4 TX Slots	21.85	22.00	21.72	22.70	-3.17	18.68	18.83	18.55	19.53
EGPRS(8PSK)	1 TX Slot	24.08	24.07	24.11	25.70	-9.19	14.89	14.88	14.92	16.51
	2 TX Slots	21.05	21.04	21.11	22.70	-6.18	14.87	14.86	14.93	16.52
	3 TX Slots	19.37	19.36	19.35	20.90	-4.42	14.95	14.94	14.93	16.48
	4 TX Slots	18.12	18.14	18.24	19.70	-3.17	14.95	14.97	15.07	16.53

5.2 Conducted Power of WCDMA

WCDMA Band II Full power					
Average Conducted Power(dBm)					
	Channel	9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	23.28	23.30	23.36	25.20
	12.2kbps AMR	23.22	23.26	23.28	25.20
HSDPA	Subtest 1	22.69	22.65	22.67	24.20
	Subtest 2	22.69	22.67	22.65	24.20
	Subtest 3	22.15	22.28	22.14	23.20
	Subtest 4	22.11	22.19	22.07	23.20
HSUPA	Subtest 1	20.65	20.68	20.50	22.20
	Subtest 2	20.70	20.68	20.56	22.20
	Subtest 3	21.66	21.63	21.57	23.20
	Subtest 4	20.09	20.20	20.09	21.20
	Subtest 5	21.65	21.64	21.57	22.20

WCDMA Band II Sensor on					
Average Conducted Power(dBm)					
	Channel	9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	21.20	21.27	21.36	23.20
	12.2kbps AMR	21.21	21.23	21.23	23.20
HSDPA	Subtest 1	20.55	20.50	20.54	22.20
	Subtest 2	20.55	20.55	20.55	22.20
	Subtest 3	20.01	20.16	20.02	21.20
	Subtest 4	20.00	20.06	19.97	21.20
HSUPA	Subtest 1	18.53	18.57	18.38	20.20
	Subtest 2	18.58	18.56	18.45	20.20
	Subtest 3	19.54	19.51	19.44	21.20
	Subtest 4	17.99	18.05	17.98	19.20
	Subtest 5	19.53	19.49	19.45	20.20

WCDMA Band II Receiver on&Hotspot on					
Average Conducted Power(dBm)					
	Channel	9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	17.37	17.35	17.41	19.20
	12.2kbps AMR	17.34	17.32	17.40	19.20
HSDPA	Subtest 1	16.40	16.39	16.41	18.20
	Subtest 2	16.43	16.42	16.41	18.20
	Subtest 3	15.88	16.06	15.87	17.20
	Subtest 4	15.86	15.96	15.84	17.20
HSUPA	Subtest 1	14.39	14.43	14.25	16.20
	Subtest 2	14.45	14.43	14.30	16.20
	Subtest 3	15.39	15.38	15.29	17.20
	Subtest 4	13.84	13.94	13.85	15.20
	Subtest 5	15.43	15.34	15.32	16.20



WCDMA Band IV Full power					
Average Conducted Power(dBm)					
Channel		1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	23.37	23.36	23.21	25.20
	12.2kbps AMR	23.33	23.32	23.21	25.20
HSDPA	Subtest 1	22.57	22.53	22.55	24.20
	Subtest 2	22.54	22.53	22.53	24.20
	Subtest 3	22.05	22.18	21.99	23.20
	Subtest 4	21.96	22.05	21.96	23.20
HSUPA	Subtest 1	20.54	20.55	20.39	22.20
	Subtest 2	20.57	20.58	20.45	22.20
	Subtest 3	21.51	21.51	21.44	23.20
	Subtest 4	19.98	20.07	19.96	21.20
	Subtest 5	21.50	21.50	21.42	22.20

WCDMA Band IV Sensor on					
Average Conducted Power(dBm)					
Channel		1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	22.45	22.44	22.29	24.20
	12.2kbps AMR	22.37	22.42	22.31	24.20
HSDPA	Subtest 1	21.43	21.38	21.41	23.20
	Subtest 2	21.44	21.44	21.44	23.20
	Subtest 3	20.88	21.04	20.92	22.20
	Subtest 4	20.87	20.95	20.83	22.20
HSUPA	Subtest 1	19.38	19.42	19.25	21.20
	Subtest 2	19.48	19.42	19.33	21.20
	Subtest 3	20.39	20.38	20.31	22.20
	Subtest 4	18.86	18.95	18.83	20.20
	Subtest 5	20.38	20.35	20.33	21.20

WCDMA Band IV Receiver on&Hotspot on					
Average Conducted Power(dBm)					
Channel		1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	16.56	16.58	16.51	18.20
	12.2kbps AMR	16.54	16.53	16.44	18.20
HSDPA	Subtest 1	15.29	15.26	15.26	17.20
	Subtest 2	15.33	15.32	15.29	17.20
	Subtest 3	14.77	14.94	14.72	16.20
	Subtest 4	14.74	14.83	14.73	16.20
HSUPA	Subtest 1	13.26	13.33	13.28	15.20
	Subtest 2	13.30	13.33	13.20	15.20
	Subtest 3	14.26	14.24	14.28	16.20
	Subtest 4	12.69	12.84	12.70	14.20
	Subtest 5	14.32	14.21	14.20	15.20

5.3 Conducted Power of LTE

LTE Band 4 Full power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19957	20175	20393	
1.4MHz	QPSK	1	0	23.48	23.35	23.47	25.20
		1	2	23.49	23.36	23.29	25.20
		1	5	23.59	23.45	23.44	25.20
		3	0	23.48	23.36	23.44	25.20
		3	2	23.66	23.26	23.32	25.20
		3	3	23.67	23.42	23.45	25.20
		6	0	22.47	22.42	22.44	24.20
	16QAM	1	0	22.49	22.52	22.24	24.20
		1	2	22.56	22.41	22.73	24.20
		1	5	22.35	22.43	22.25	24.20
		3	0	22.54	22.49	22.42	24.20
		3	2	22.61	22.37	22.38	24.20
		3	3	22.53	22.32	22.4	24.20
		6	0	21.96	21.63	21.61	23.20
	64QAM	1	0	21.39	21.34	21.37	23.20
		1	2	21.47	21.30	21.21	23.20
		1	5	21.48	21.33	21.37	23.20
		3	0	21.36	21.28	21.39	23.20
		3	2	21.62	21.21	21.24	23.20
		3	3	21.65	21.41	21.44	23.20
		6	0	20.39	20.37	20.32	22.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
3MHz	QPSK	1	0	23.6	23.41	23.63	25.20
		1	7	23.42	23.49	23.31	25.20
		1	14	23.24	23.53	23.24	25.20
		8	0	22.41	22.49	22.44	24.20
		8	4	22.37	22.4	22.33	24.20
		8	7	22.42	22.53	22.36	24.20
		15	0	22.49	22.41	22.43	24.20
	16QAM	1	0	22.84	22.54	22.3	24.20
		1	7	22.86	22.9	22.65	24.20
		1	14	22.92	22.43	22.35	24.20
		8	0	21.63	21.7	21.5	23.20
		8	4	21.64	21.64	21.6	23.20
		8	7	21.54	21.8	21.48	23.20
		15	0	21.58	21.5	21.62	23.20
	64QAM	1	0	21.48	21.33	21.61	23.20
		1	7	21.30	21.48	21.30	23.20
		1	14	21.27	21.49	21.24	23.20
		8	0	20.37	20.37	20.36	22.20
		8	4	20.25	20.28	20.30	22.20
		8	7	20.37	20.51	20.28	22.20
		15	0	20.40	20.38	20.36	22.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
5MHz	QPSK	1	0	Channel	Channel	Channel	25.20
				19975	20175	20375	
5MHz	QPSK	1	0	23.68	23.35	23.54	25.20

		1	13	23.52	23.47	23.36	25.20
		1	24	23.26	23.43	23.2	25.20
		12	0	22.34	22.46	22.52	24.20
		12	6	22.39	22.47	22.35	24.20
		12	13	22.52	22.58	22.41	24.20
		25	0	22.45	22.48	22.36	24.20
		1	0	22.79	22.71	22.38	24.20
	16QAM	1	13	22.78	22.97	22.58	24.20
		1	24	22.9	22.4	22.34	24.20
		12	0	21.61	21.7	21.57	23.20
		12	6	21.63	21.62	21.58	23.20
		12	13	21.61	21.7	21.45	23.20
		25	0	21.62	21.55	21.47	23.20
		1	0	21.67	21.25	21.45	23.20
	64QAM	1	13	21.51	21.36	21.33	23.20
		1	24	21.26	21.35	21.29	23.20
		12	0	20.23	20.40	20.41	22.20
		12	6	20.35	20.38	20.24	22.20
		12	13	20.44	20.49	20.36	22.20
		25	0	20.38	20.39	20.33	22.20
		Bandwidth	Modulation	RB size	RB offset	Channel	Channel
				20000	20175	20350	
10MHz	QPSK	1	0	23.51	23.31	23.52	25.20
		1	25	23.58	23.44	23.32	25.20
		1	49	23.24	23.43	23.3	25.20
		25	0	22.39	22.45	22.46	24.20
		25	13	22.49	22.53	22.37	24.20
		25	25	22.44	22.41	22.45	24.20
		50	0	22.43	22.44	22.37	24.20
	16QAM	1	0	22.74	22.56	22.46	24.20
		1	25	22.83	22.83	22.66	24.20
		1	49	22.88	22.42	22.23	24.20
		25	0	21.74	21.66	21.52	23.20
		25	13	21.63	21.75	21.52	23.20
		25	25	21.58	21.67	21.43	23.20
		50	0	21.56	21.6	21.43	23.20
	64QAM	1	0	21.47	21.23	21.48	23.20
		1	25	21.48	21.33	21.28	23.20
		1	49	21.20	21.37	21.29	23.20
		25	0	20.27	20.39	20.44	22.20
		25	13	20.44	20.46	20.35	22.20
		25	25	20.32	20.33	20.34	22.20
		50	0	20.40	20.41	20.28	22.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20025	20175	20325	
15MHz	QPSK	1	0	23.54	23.3	23.57	25.20
		1	38	23.43	23.5	23.24	25.20
		1	74	23.28	23.37	23.2	25.20
		36	0	22.38	22.45	22.49	24.20
		36	18	22.47	22.49	22.47	24.20
		36	39	22.46	22.52	22.34	24.20
		75	0	22.46	22.48	22.32	24.20
	16QAM	1	0	22.82	22.55	22.33	24.20
		1	38	22.83	23.01	22.57	24.20

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20050	20175	20300	
20MHz	64QAM	1	74	22.77	22.56	22.2	24.20
		36	0	21.74	21.51	21.45	23.20
		36	18	21.63	21.77	21.55	23.20
		36	39	21.59	21.72	21.57	23.20
		75	0	21.53	21.65	21.55	23.20
		1	0	21.45	21.27	21.55	23.20
		1	38	21.33	21.40	21.22	23.20
	QPSK	1	99	23.29	23.45	23.25	25.20
		50	0	22.43	22.51	22.43	24.20
		50	25	22.43	22.44	22.42	24.20
		50	50	22.44	22.51	22.35	24.20
		100	0	22.43	22.44	22.37	24.20
		1	0	22.84	22.63	22.36	24.20
		1	50	22.78	22.93	22.62	24.20
16QAM	1	99	22.85	22.46	22.29	24.20	
	50	0	21.7	21.6	21.55	23.20	
	50	25	21.65	21.67	21.59	23.20	
	50	50	21.6	21.7	21.51	23.20	
	100	0	21.59	21.59	21.52	23.20	
	1	0	21.46	21.34	21.41	23.20	
	1	50	21.39	21.48	21.31	23.20	
64QAM	1	99	21.28	21.40	21.27	23.20	
	50	0	20.33	20.50	20.35	22.20	
	50	25	20.34	20.39	20.30	22.20	
	50	50	20.40	20.43	20.23	22.20	
	100	0	20.34	20.34	20.27	22.20	

LTE Band 4 Sensor on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19957	20175	20393	
1.4MHz	QPSK	1	0	21.51	21.53	21.53	23.20
		1	2	21.52	21.47	21.55	23.20
		1	5	21.32	21.3	21.61	23.20
		3	0	21.56	21.41	21.62	23.20
		3	2	21.65	21.5	21.58	23.20
		3	3	21.61	21.55	21.6	23.20
		6	0	21.64	21.53	21.63	23.20
	16QAM	1	0	21.88	22.06	21.57	23.20
		1	2	21.72	21.83	21.55	23.20
		1	5	21.62	21.64	21.49	23.20
		3	0	21.67	21.45	21.48	23.20
		3	2	21.59	21.51	21.46	23.20
		3	3	21.65	21.6	21.62	23.20

		6	0	21.5	21.44	21.54	23.20
	64QAM	1	0	21.96	21.63	21.61	23.20
		1	2	21.39	21.34	21.37	23.20
		1	5	21.47	21.30	21.21	23.20
		3	0	21.48	21.33	21.37	23.20
		3	2	21.36	21.28	21.39	23.20
		3	3	21.62	21.21	21.24	23.20
		6	0	21.65	21.41	21.44	22.20
Bandwidth	Modulation	RB size	RB offset	20.39	20.37	20.32	Tune up
				19965	20175	20385	
3MHz	QPSK	1	0	21.54	21.41	21.54	23.20
		1	7	21.62	21.59	21.58	23.20
		1	14	21.4	21.43	21.48	23.20
		8	0	21.67	21.42	21.54	23.20
		8	4	21.63	21.52	21.44	23.20
		8	7	21.48	21.59	21.64	23.20
		15	0	21.53	21.62	21.54	23.20
	16QAM	1	0	21.85	22.06	21.51	23.20
		1	7	21.63	21.8	21.45	23.20
		1	14	21.62	21.65	21.57	23.20
		8	0	21.67	21.6	21.44	23.20
		8	4	21.54	21.66	21.54	23.20
		8	7	21.66	21.72	21.47	23.20
		15	0	21.65	21.54	21.51	23.20
	64QAM	1	0	21.48	21.33	21.61	23.20
		1	7	21.30	21.48	21.30	23.20
		1	14	21.27	21.49	21.24	23.20
		8	0	20.37	20.37	20.36	22.20
		8	4	20.25	20.28	20.30	22.20
		8	7	20.37	20.51	20.28	22.20
		15	0	20.40	20.38	20.36	22.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19975	20175	20375	
5MHz	QPSK	1	0	21.5	21.56	21.48	23.20
		1	13	21.59	21.44	21.51	23.20
		1	24	21.27	21.39	21.47	23.20
		12	0	21.71	21.49	21.56	23.20
		12	6	21.64	21.58	21.47	23.20
		12	13	21.62	21.7	21.49	23.20
		25	0	21.59	21.54	21.62	23.20
	16QAM	1	0	21.84	21.93	21.46	23.20
		1	13	21.57	21.85	21.51	23.20
		1	24	21.7	21.62	21.55	23.20
		12	0	21.78	21.52	21.61	23.20
		12	6	21.5	21.5	21.45	23.20
		12	13	21.74	21.69	21.64	23.20
		25	0	21.57	21.55	21.64	23.20
	64QAM	1	0	21.67	21.25	21.45	23.20
		1	13	21.51	21.36	21.33	23.20
		1	24	21.26	21.35	21.29	23.20
		12	0	20.23	20.40	20.41	22.20
		12	6	20.35	20.38	20.24	22.20
		12	13	20.44	20.49	20.36	22.20
		25	0	20.38	20.39	20.33	22.20

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20000	20175	20350	
10MHz	QPSK	1	0	21.53	21.5	21.54	23.20
		1	25	21.61	21.52	21.62	23.20
		1	49	21.33	21.31	21.63	23.20
		25	0	21.68	21.43	21.5	23.20
		25	13	21.66	21.6	21.6	23.20
		25	25	21.61	21.65	21.54	23.20
		50	0	21.63	21.65	21.6	23.20
	16QAM	1	0	21.74	21.95	21.44	23.20
		1	25	21.53	21.77	21.44	23.20
		1	49	21.69	21.78	21.52	23.20
		25	0	21.65	21.42	21.45	23.20
		25	13	21.69	21.51	21.6	23.20
		25	25	21.66	21.6	21.62	23.20
		50	0	21.58	21.46	21.59	23.20
	64QAM	1	0	21.47	21.23	21.48	23.20
		1	25	21.48	21.33	21.28	23.20
		1	49	21.20	21.37	21.29	23.20
		25	0	20.27	20.39	20.44	22.20
		25	13	20.44	20.46	20.35	22.20
		25	25	20.32	20.33	20.34	22.20
		50	0	20.40	20.41	20.28	22.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	QPSK	1	0	21.52	21.41	21.49	23.20
		1	38	21.53	21.57	21.54	23.20
		1	74	21.41	21.24	21.48	23.20
		36	0	21.71	21.43	21.54	23.20
		36	18	21.52	21.63	21.61	23.20
		36	39	21.42	21.7	21.61	23.20
		75	0	21.65	21.49	21.63	23.20
	16QAM	1	0	21.87	22.03	21.6	23.20
		1	38	21.53	21.73	21.55	23.20
		1	74	21.62	21.8	21.46	23.20
		36	0	21.64	21.49	21.53	23.20
		36	18	21.51	21.48	21.64	23.20
		36	39	21.74	21.79	21.64	23.20
		75	0	21.54	21.49	21.57	23.20
	64QAM	1	0	21.45	21.27	21.55	23.20
		1	38	21.33	21.40	21.22	23.20
		1	74	21.21	21.29	21.28	23.20
		36	0	20.30	20.39	20.37	22.20
		36	18	20.38	20.38	20.46	22.20
		36	39	20.38	20.46	20.22	22.20
		75	0	20.37	20.42	20.24	22.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	QPSK	1	0	21.57	21.49	21.52	23.20
		1	50	21.61	21.83	21.7	23.20
		1	99	21.33	21.33	21.65	23.20
		50	0	21.64	21.78	21.57	23.20
		50	25	21.59	21.57	21.53	23.20
		50	50	21.52	21.62	21.62	23.20

	16QAM	100	0	21.58	21.55	21.52	23.20
		1	0	21.82	21.8	21.45	23.20
		1	50	21.63	21.79	21.6	23.20
		1	99	21.62	21.7	21.62	23.20
		50	0	21.69	21.51	21.46	23.20
		50	25	21.6	21.58	21.53	23.20
		50	50	21.64	21.69	21.64	23.20
		100	0	21.59	21.52	21.54	23.20
	64QAM	1	0	21.46	21.34	21.41	23.20
		1	50	21.39	21.48	21.31	23.20
		1	99	21.28	21.40	21.27	23.20
		50	0	20.33	20.50	20.35	22.20
		50	25	20.34	20.39	20.30	22.20
		50	50	20.40	20.43	20.23	22.20
		100	0	20.34	20.34	20.27	22.20

LTE Band 4 Receiver on&Hotspot on				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				19957	20175	20393		
1.4MHz	QPSK	1	0	17.07	17.08	17.17	18.20	
		1	2	17.15	17.13	17.07	18.20	
		1	5	17.04	17.01	17.01	18.20	
		3	0	17.12	17.16	17.05	18.20	
		3	2	17.24	17.17	17.17	18.20	
		3	3	17.12	17.16	17.06	18.20	
		6	0	17.09	17.16	16.99	18.20	
	16QAM	1	0	17.36	17.29	17.45	18.20	
		1	2	17.4	17.43	17.39	18.20	
		1	5	17.26	17.23	17.15	18.20	
		3	0	17.15	17.13	17.07	18.20	
		3	2	17.2	17.14	17.07	18.20	
		3	3	17.09	17.2	17.1	18.20	
		6	0	17.04	17.17	17.1	18.20	
	64QAM	1	0	17.01	17.05	17.15	18.20	
		1	2	17.08	17.05	17.03	18.20	
		1	5	16.97	16.97	16.95	18.20	
		3	0	17.04	17.11	16.95	18.20	
		3	2	17.12	17.11	17.10	18.20	
		3	3	17.07	17.06	16.96	18.20	
		6	0	17.07	17.08	16.92	18.20	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
	3MHz	QPSK			19965	20175	20385	
			1	0	17.15	17	17.11	18.20
1			7	17.12	17.2	17.16	18.20	
1			14	17.03	16.92	17.03	18.20	
8			0	17.14	17.19	17.09	18.20	
8			4	17.23	17.15	17.08	18.20	
8			7	17.14	17.23	17.05	18.20	
15		0	17.09	17.19	17.01	18.20		
16QAM		1	0	17.38	17.31	17.37	18.20	
		1	7	17.4	17.41	17.35	18.20	
	1	14	17.33	17.23	17.24	18.20		

		8	0	17.2	17.14	17.09	18.20
		8	4	17.13	17.15	17.09	18.20
		8	7	17.16	17.22	17.06	18.20
		15	0	17.06	17.12	17.11	18.20
	64QAM	1	0	17.12	16.91	17.07	18.20
		1	7	17.08	17.12	17.10	18.20
		1	14	16.91	16.81	16.91	18.20
		8	0	17.05	17.18	17.01	18.20
		8	4	17.16	17.05	16.98	18.20
		8	7	17.06	17.21	16.98	18.20
		15	0	16.99	17.11	16.99	18.20
Bandwidth	Modulation	RB size	RB offset	Channel 19975	Channel 20175	Channel 20375	Tune up
5MHz	QPSK	1	0	17.06	17	17.17	18.20
		1	13	17.12	17.22	17.11	18.20
		1	24	17.02	16.93	17.02	18.20
		12	0	17.11	17.11	17.04	18.20
		12	6	17.23	17.14	17.09	18.20
		12	13	17.08	17.25	17.05	18.20
		25	0	17.19	17.13	17.01	18.20
	16QAM	1	0	17.35	17.32	17.38	18.20
		1	13	17.47	17.35	17.43	18.20
		1	24	17.24	17.26	17.24	18.20
		12	0	17.13	17.17	17.08	18.20
		12	6	17.18	17.22	17.05	18.20
		12	13	17.16	17.13	17.05	18.20
		25	0	17.11	17.15	17.11	18.20
	64QAM	1	0	17.04	16.92	17.10	18.20
		1	13	17.07	17.19	17.01	18.20
		1	24	16.98	16.87	16.96	18.20
		12	0	17.03	17.06	17.01	18.20
		12	6	17.11	17.03	17.02	18.20
		12	13	16.96	17.13	16.94	18.20
		25	0	17.12	17.03	16.92	18.20
Bandwidth	Modulation	RB size	RB offset	Channel 20000	Channel 20175	Channel 20350	Tune up
10MHz	QPSK	1	0	17.07	17.02	17.08	18.20
		1	25	17.13	17.17	17.06	18.20
		1	49	16.99	17	17.02	18.20
		25	0	17.2	17.17	17.04	18.20
		25	13	17.17	17.18	17.15	18.20
		25	25	17.12	17.25	17.06	18.20
		50	0	17.09	17.2	17.07	18.20
	16QAM	1	0	17.39	17.32	17.41	18.20
		1	25	17.43	17.42	17.41	18.20
		1	49	17.28	17.3	17.23	18.20
		25	0	17.19	17.15	17.01	18.20
		25	13	17.12	17.15	17.07	18.20
		25	25	17.1	17.16	17.02	18.20
		50	0	17.11	17.16	17.07	18.20
	64QAM	1	0	17.05	16.93	17.05	18.20
		1	25	17.06	17.14	16.95	18.20
		1	49	16.95	16.94	16.95	18.20
		25	0	17.15	17.13	17.00	18.20



Bandwidth	Modulation	25	13	17.09	17.06	17.03	18.20
		25	25	17.09	17.14	16.98	18.20
		50	0	17.04	17.11	17.03	18.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20025	20175	20325	
15MHz	QPSK	1	0	17.14	17.02	17.14	18.20
		1	38	17.15	17.15	17.15	18.20
		1	74	17.02	17	17	18.20
		36	0	17.18	17.1	17.12	18.20
		36	18	17.25	17.16	17.09	18.20
		36	39	17.13	17.19	16.99	18.20
		75	0	17.14	17.16	17	18.20
	16QAM	1	0	17.34	17.29	17.47	18.20
		1	38	17.41	17.36	17.35	18.20
		1	74	17.33	17.25	17.18	18.20
		36	0	17.16	17.1	17.05	18.20
		36	18	17.16	17.23	17.14	18.20
		36	39	17.13	17.14	17.07	18.20
		75	0	17.11	17.19	17.02	18.20
	64QAM	1	0	17.12	16.96	17.08	18.20
		1	38	17.08	17.07	17.13	18.20
		1	74	16.95	16.91	16.97	18.20
		36	0	17.15	16.99	17.09	18.20
		36	18	17.14	17.14	17.04	18.20
		36	39	17.03	17.18	16.87	18.20
		75	0	17.04	17.13	16.98	18.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20050	20175	20300	
20MHz	QPSK	1	0	17.10	17.03	17.13	18.20
		1	50	17.13	17.48	17.14	18.20
		1	99	17.00	16.97	16.99	18.20
		50	0	17.16	17.51	17.08	18.20
		50	25	17.20	17.17	17.13	18.20
		50	50	17.10	17.20	17.04	18.20
		100	0	17.14	17.16	17.04	18.20
	16QAM	1	0	17.39	17.33	17.42	18.20
		1	50	17.43	17.40	17.40	18.20
		1	99	17.29	17.26	17.19	18.20
		50	0	17.15	17.15	17.06	18.20
		50	25	17.16	17.19	17.09	18.20
		50	50	17.11	17.18	17.05	18.20
		100	0	17.09	17.15	17.06	18.20
	64QAM	1	0	17.05	16.91	17.11	18.20
		1	50	17.10	17.41	17.12	18.20
		1	99	16.98	16.87	16.87	18.20
		50	0	17.14	17.09	17.05	18.20
		50	25	17.11	17.15	17.10	18.20
		50	50	17.05	17.09	16.98	18.20
		100	0	17.09	17.10	17.02	18.20



LTE Band 7 Full power				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				20775	21100	21425		
5MHz	QPSK	1	0	23.22	23.27	23.23	25.20	
		1	13	23.34	23.36	23.51	25.20	
		1	24	23.39	23.29	23.57	25.20	
		12	0	22.31	22.37	22.48	24.20	
		12	6	22.32	22.35	22.52	24.20	
		12	13	22.43	22.44	22.58	24.20	
	16QAM	25	0	22.37	22.42	22.55	24.20	
		1	0	22.46	22.28	22.42	24.20	
		1	13	22.47	22.53	22.68	24.20	
		1	24	22.63	22.60	22.72	24.20	
		12	0	21.26	21.40	21.48	23.20	
		12	6	21.35	21.37	21.45	23.20	
	64QAM	12	13	21.46	21.43	21.46	23.20	
		25	0	21.32	21.31	21.53	23.20	
		1	0	21.25	21.26	21.20	23.20	
		1	13	21.28	21.24	21.49	23.20	
		1	24	21.31	21.23	21.48	23.20	
		12	0	20.23	20.25	20.42	22.20	
10MHz	QPSK	12	6	20.26	20.33	20.51	22.20	
		12	13	20.38	20.40	20.48	22.20	
		25	0	20.32	20.34	20.52	22.20	
		1	0	23.21	23.28	23.21	25.20	
		1	25	23.43	23.32	23.53	25.20	
		1	49	23.32	23.28	23.61	25.20	
	16QAM	25	0	22.30	22.30	22.51	24.20	
		25	13	22.36	22.35	22.49	24.20	
		25	25	22.46	22.40	22.56	24.20	
		50	0	22.29	22.41	22.48	24.20	
		1	0	22.38	22.26	22.38	24.20	
		1	25	22.55	22.49	22.67	24.20	
	64QAM	1	49	22.54	22.55	22.68	24.20	
		25	0	21.31	21.33	21.47	23.20	
		25	13	21.31	21.31	21.41	23.20	
		25	25	21.40	21.42	21.55	23.20	
		50	0	21.37	21.34	21.51	23.20	
		1	0	21.22	21.23	21.21	23.20	
15MHz	QPSK	1	25	21.32	21.28	21.44	23.20	
		1	49	21.27	21.21	21.58	23.20	
		25	0	20.21	20.29	20.43	22.20	
		25	13	20.28	20.32	20.37	22.20	
		25	25	20.37	20.35	20.50	22.20	
		50	0	20.25	20.40	20.47	22.20	
	15MHz	QPSK	1	0	23.31	23.33	23.30	25.20
			1	38	23.42	23.29	23.48	25.20

		1	74	23.32	23.34	23.59	25.20	
		36	0	22.24	22.39	22.50	24.20	
		36	18	22.35	22.38	22.48	24.20	
		36	39	22.40	22.40	22.49	24.20	
		75	0	22.35	22.44	22.51	24.20	
	16QAM	1	0	22.35	22.29	22.34	24.20	
		1	38	22.45	22.50	22.66	24.20	
		1	74	22.56	22.62	22.72	24.20	
		36	0	21.23	21.38	21.47	23.20	
		36	18	21.36	21.28	21.51	23.20	
		36	39	21.42	21.37	21.57	23.20	
		75	0	21.29	21.32	21.55	23.20	
	64QAM	1	0	21.28	21.21	21.25	23.20	
		1	38	21.38	21.27	21.44	23.20	
		1	74	21.26	21.27	21.50	23.20	
		36	0	20.23	20.37	20.45	22.20	
		36	18	20.29	20.28	20.45	22.20	
		36	39	20.39	20.34	20.47	22.20	
		75	0	20.28	20.32	20.47	22.20	
	Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350	Tune up
	20MHz	QPSK	1	0	23.21	23.28	23.21	25.20
1			50	23.35	23.28	23.43	25.20	
1			99	23.31	23.29	23.52	25.20	
50			0	22.22	22.29	22.50	24.20	
50			25	22.33	22.31	22.46	24.20	
50			50	22.40	22.34	22.49	24.20	
100			0	22.28	22.34	22.45	24.20	
16QAM		1	0	22.36	22.27	22.33	24.20	
		1	50	22.45	22.46	22.6	24.20	
		1	99	22.53	22.52	22.64	24.20	
		50	0	21.21	21.3	21.43	23.20	
		50	25	21.29	21.28	21.42	23.20	
		50	50	21.39	21.37	21.47	23.20	
		100	0	21.28	21.31	21.46	23.20	
64QAM		1	0	21.28	21.22	21.25	23.20	
		1	50	21.26	21.22	21.35	23.20	
		1	99	21.29	21.28	21.49	23.20	
		50	0	20.26	20.24	20.38	22.20	
		50	25	20.28	20.23	20.38	22.20	
		50	50	20.37	20.22	20.41	22.20	
		100	0	20.28	20.25	20.40	22.20	

LTE Band 7 Sensor on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20775	21100	21425	
5MHz	QPSK	1	0	17.29	17.26	17.27	19.20
		1	13	17.27	17.24	17.33	19.20
		1	24	17.29	17.27	17.37	19.20
		12	0	17.25	17.35	17.41	19.20
		12	6	17.31	17.37	17.38	19.20
		12	13	17.42	17.41	17.34	19.20
		25	0	17.25	17.33	17.37	19.20
	16QAM	1	0	17.43	17.33	17.36	19.20
		1	13	17.49	17.57	17.64	19.20
		1	24	17.51	17.55	17.60	19.20
		12	0	17.30	17.32	17.38	19.20
		12	6	17.32	17.34	17.32	19.20
		12	13	17.39	17.38	17.37	19.20
		25	0	17.29	17.31	17.40	19.20
	64QAM	1	0	17.41	17.21	17.28	19.20
		1	13	17.43	17.52	17.52	19.20
		1	24	17.40	17.54	17.59	19.20
		12	0	17.24	17.20	17.26	19.20
		12	6	17.22	17.27	17.22	19.20
		12	13	17.32	17.35	17.34	19.20
		25	0	17.21	17.21	17.29	19.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	QPSK	1	0	17.28	17.25	17.26	19.20
		1	25	17.33	17.26	17.32	19.20
		1	49	17.32	17.31	17.41	19.20
		25	0	17.29	17.31	17.43	19.20
		25	13	17.31	17.37	17.36	19.20
		25	25	17.45	17.40	17.34	19.20
		50	0	17.24	17.37	17.37	19.20
	16QAM	1	0	17.38	17.32	17.33	19.20
		1	25	17.53	17.55	17.56	19.20
		1	49	17.52	17.56	17.58	19.20
		25	0	17.25	17.29	17.38	19.20
		25	13	17.40	17.31	17.34	19.20
		25	25	17.39	17.43	17.45	19.20
		50	0	17.35	17.30	17.40	19.20
	64QAM	1	0	17.33	17.31	17.28	19.20
		1	25	17.50	17.54	17.44	19.20
		1	49	17.49	17.48	17.53	19.20
		25	0	17.22	17.22	17.37	19.20
		25	13	17.35	17.27	17.27	19.20
		25	25	17.30	17.40	17.38	19.20
		50	0	17.33	17.22	17.38	19.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	QPSK	1	0	17.29	17.30	17.25	19.20
		1	38	17.34	17.29	17.33	19.20

		1	74	17.26	17.27	17.38	19.20	
		36	0	17.21	17.35	17.42	19.20	
		36	18	17.30	17.33	17.33	19.20	
		36	39	17.45	17.39	17.39	19.20	
		75	0	17.24	17.35	17.34	19.20	
	16QAM	1	0	17.42	17.36	17.33	19.20	
		1	38	17.50	17.54	17.62	19.20	
		1	74	17.52	17.62	17.57	19.20	
		36	0	17.22	17.34	17.43	19.20	
		36	18	17.40	17.32	17.33	19.20	
		36	39	17.36	17.37	17.37	19.20	
		75	0	17.31	17.35	17.38	19.20	
	64QAM	1	0	17.38	17.32	17.29	19.20	
		1	38	17.40	17.42	17.58	19.20	
		1	74	17.51	17.61	17.50	19.20	
		36	0	17.21	17.25	17.42	19.20	
		36	18	17.29	17.27	17.32	19.20	
		36	39	17.35	17.31	17.31	19.20	
		75	0	17.30	17.25	17.29	19.20	
	Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350	Tune up
	20MHz	QPSK	1	0	17.29	17.25	17.3	19.20
1			50	17.29	17.25	17.31	19.20	
1			99	17.26	17.29	17.39	19.20	
50			0	17.22	17.31	17.48	19.20	
50			25	17.28	17.36	17.36	19.20	
50			50	17.38	17.44	17.39	19.20	
100			0	17.25	17.37	17.33	19.20	
16QAM		1	0	17.44	17.32	17.34	19.20	
		1	50	17.55	17.55	17.63	19.20	
		1	99	17.5	17.59	17.55	19.20	
		50	0	17.25	17.28	17.41	19.20	
		50	25	17.33	17.3	17.38	19.20	
		50	50	17.36	17.44	17.43	19.20	
		100	0	17.27	17.27	17.36	19.20	
64QAM		1	0	17.39	17.20	17.32	19.20	
		1	50	17.44	17.53	17.58	19.20	
		1	99	17.49	17.56	17.45	19.20	
		50	0	17.21	17.27	17.32	19.20	
		50	25	17.23	17.28	17.36	19.20	
		50	50	17.24	17.38	17.39	19.20	
		100	0	17.26	17.21	17.29	19.20	



LTE Band 7 Receiver on&Hotspot on				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				20775	21100	21425		
5MHz	QPSK	1	0	12.29	12.28	12.29	14.20	
		1	13	12.38	12.47	12.45	14.20	
		1	24	12.26	12.24	12.34	14.20	
		12	0	12.31	12.28	12.31	14.20	
		12	6	12.37	12.47	12.44	14.20	
		12	13	12.57	12.46	12.55	14.20	
	16QAM	25	0	12.38	12.34	12.32	14.20	
		1	0	12.21	12.26	12.36	14.20	
		1	13	12.43	12.37	12.45	14.20	
		1	24	12.37	12.25	12.24	14.20	
		12	0	12.22	12.25	12.28	14.20	
		12	6	12.41	12.34	12.37	14.20	
	64QAM	12	13	12.58	12.52	12.4	14.20	
		25	0	12.37	12.43	12.39	14.20	
		1	0	12.24	12.25	12.22	14.20	
		1	13	12.30	12.38	12.34	14.20	
		1	24	12.21	12.20	12.24	14.20	
		12	0	12.28	12.23	12.27	14.20	
10MHz	QPSK	12	6	12.36	12.42	12.39	14.20	
		12	13	12.46	12.39	12.50	14.20	
		25	0	12.30	12.22	12.24	14.20	
		1	0	12.3	12.25	12.41	14.20	
		1	25	12.37	12.53	12.39	14.20	
		1	49	12.24	12.3	12.48	14.20	
	16QAM	25	0	12.28	12.41	12.4	14.20	
		25	13	12.46	12.49	12.36	14.20	
		25	25	12.5	12.39	12.44	14.20	
		50	0	12.54	12.41	12.38	14.20	
		1	0	12.26	12.23	12.29	14.20	
		1	25	12.41	12.42	12.38	14.20	
	64QAM	1	49	12.25	12.25	12.23	14.20	
		25	0	12.32	12.3	12.28	14.20	
		25	13	12.48	12.41	12.34	14.20	
		25	25	12.46	12.6	12.41	14.20	
		50	0	12.49	12.49	12.22	14.20	
		1	0	12.28	12.22	12.36	14.20	
15MHz	QPSK	1	25	12.33	12.42	12.27	14.20	
		1	49	12.26	12.29	12.40	14.20	
		25	0	12.21	12.39	12.33	14.20	
		25	13	12.40	12.44	12.25	14.20	
		25	25	12.48	12.34	12.43	14.20	
		50	0	12.44	12.38	12.35	14.20	
	15MHz	QPSK	1	0	12.31	12.3	12.26	14.20
			1	38	12.57	12.38	12.34	14.20

		1	74	12.33	12.34	12.37	14.20	
		36	0	12.37	12.33	12.47	14.20	
		36	18	12.48	12.41	12.24	14.20	
		36	39	12.62	12.36	12.46	14.20	
		75	0	12.46	12.42	12.32	14.20	
	16QAM	1	0	12.39	12.34	12.35	14.20	
		1	38	12.32	12.44	12.57	14.20	
		1	74	12.22	12.29	12.25	14.20	
		36	0	12.27	12.38	12.25	14.20	
		36	18	12.47	12.47	12.44	14.20	
		36	39	12.55	12.6	12.43	14.20	
		75	0	12.44	12.43	12.25	14.20	
	64QAM	1	0	12.29	12.25	12.21	14.20	
		1	38	12.53	12.32	12.31	14.20	
		1	74	12.27	12.23	12.31	14.20	
		36	0	12.26	12.28	12.43	14.20	
		36	18	12.41	12.30	12.23	14.20	
		36	39	12.59	12.28	12.44	14.20	
		75	0	12.34	12.38	12.30	14.20	
	Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350	Tune up
	20MHz	QPSK	1	0	12.35	12.25	12.34	14.20
1			50	12.41	12.41	12.41	14.20	
1			99	12.21	12.31	12.41	14.20	
50			0	12.32	12.37	12.37	14.20	
50			25	12.39	12.44	12.34	14.20	
50			50	12.52	12.45	12.52	14.20	
100			0	12.44	12.41	12.39	14.20	
16QAM		1	0	12.25	12.23	12.29	14.20	
		1	50	12.42	12.47	12.47	14.20	
		1	99	12.29	12.22	12.20	14.20	
		50	0	12.20	12.21	12.24	14.20	
		50	25	12.45	12.43	12.37	14.20	
		50	50	12.53	12.61	12.50	14.20	
		100	0	12.41	12.39	12.32	14.20	
64QAM		1	0	12.31	12.21	12.26	14.20	
		1	50	12.37	12.42	12.35	14.20	
		1	99	12.24	12.22	12.35	14.20	
		50	0	12.28	12.26	12.27	14.20	
		50	25	12.28	12.36	12.26	14.20	
		50	50	12.51	12.38	12.51	14.20	
		100	0	12.42	12.30	12.29	14.20	

LTE Band 7 Sensor off				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				20775	21100	21425		
5MHz	QPSK	1	0	21.34	21.26	21.32	23.20	
		1	13	21.49	21.5	21.38	23.20	
		1	24	21.47	21.43	21.35	23.20	
		12	0	21.34	21.49	21.28	23.20	
		12	6	21.49	21.43	21.6	23.20	
		12	13	21.39	21.27	21.4	23.20	
	16QAM	25	0	21.47	21.51	21.4	23.20	
		1	0	21.59	21.46	21.48	23.20	
		1	13	21.37	21.47	21.28	23.20	
		1	24	21.44	21.44	21.38	23.20	
		12	0	21.41	21.51	21.44	23.20	
		12	6	21.47	21.52	21.48	23.20	
	64QAM	12	13	21.38	21.55	21.36	23.20	
		25	0	21.35	21.46	21.53	23.20	
		1	0	21.25	21.26	21.20	23.20	
		1	13	21.28	21.24	21.49	23.20	
		1	24	21.31	21.23	21.48	23.20	
		12	0	20.23	20.25	20.42	22.20	
	10MHz	QPSK	12	6	20.26	20.33	20.51	22.20
			12	13	20.38	20.40	20.48	22.20
			25	0	20.32	20.34	20.52	22.20
1			0	21.4	21.31	21.29	23.20	
1			25	21.37	21.31	21.37	23.20	
1			49	21.52	21.39	21.23	23.20	
16QAM		25	0	21.41	21.47	21.36	23.20	
		25	13	21.5	21.34	21.58	23.20	
		25	25	21.29	21.31	21.41	23.20	
		50	0	21.5	21.47	21.31	23.20	
		1	0	21.6	21.46	21.56	23.20	
		1	25	21.34	21.5	21.44	23.20	
64QAM	1	49	21.42	21.28	21.39	23.20		
	25	0	21.36	21.49	21.53	23.20		
	25	13	21.39	21.44	21.61	23.20		
	25	25	21.48	21.44	21.39	23.20		
	50	0	21.29	21.43	21.41	23.20		
	1	0	21.22	21.23	21.21	23.20		
15MHz	QPSK	1	25	21.32	21.28	21.44	23.20	
		1	49	21.27	21.21	21.58	23.20	
		25	0	20.21	20.29	20.43	22.20	
		25	13	20.28	20.32	20.37	22.20	
		25	25	20.37	20.35	20.50	22.20	
		50	0	20.25	20.40	20.47	22.20	
		1	0	21.24	21.44	21.3	23.20	
1	38	21.39	21.41	21.23	23.20			

		1	74	21.42	21.44	21.38	23.20	
		36	0	21.38	21.43	21.2	23.20	
		36	18	21.39	21.42	21.53	23.20	
		36	39	21.33	21.44	21.52	23.20	
		75	0	21.5	21.37	21.29	23.20	
	16QAM	1	0	21.61	21.5	21.45	23.20	
		1	38	21.41	21.34	21.46	23.20	
		1	74	21.25	21.46	21.35	23.20	
		36	0	21.4	21.5	21.37	23.20	
		36	18	21.34	21.53	21.49	23.20	
		36	39	21.4	21.54	21.35	23.20	
		75	0	21.43	21.48	21.42	23.20	
	64QAM	1	0	21.28	21.21	21.25	23.20	
		1	38	21.38	21.27	21.44	23.20	
		1	74	21.26	21.27	21.50	23.20	
		36	0	20.23	20.37	20.45	22.20	
		36	18	20.29	20.28	20.45	22.20	
		36	39	20.39	20.34	20.47	22.20	
		75	0	20.28	20.32	20.47	22.20	
	Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350	Tune up
	20MHz	QPSK	1	0	21.33	21.34	21.36	23.20
1			50	21.39	21.41	21.31	23.20	
1			99	21.42	21.44	21.32	23.20	
50			0	21.32	21.42	21.28	23.20	
50			25	21.44	21.42	21.51	23.20	
50			50	21.39	21.35	21.43	23.20	
100			0	21.42	21.41	21.36	23.20	
16QAM		1	0	21.51	21.49	21.52	23.20	
		1	50	21.37	21.41	21.36	23.20	
		1	99	21.34	21.36	21.35	23.20	
		50	0	21.39	21.47	21.44	23.20	
		50	25	21.43	21.48	21.51	23.20	
		50	50	21.47	21.51	21.44	23.20	
		100	0	21.35	21.44	21.44	23.20	
64QAM		1	0	21.28	21.22	21.25	23.20	
		1	50	21.26	21.22	21.35	23.20	
		1	99	21.29	21.28	21.49	23.20	
		50	0	20.26	20.24	20.38	22.20	
		50	25	20.28	20.23	20.38	22.20	
		50	50	20.37	20.22	20.41	22.20	
		100	0	20.28	20.25	20.40	22.20	

LTE Band 38 Full power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37775	38000	38225	
5MHz	QPSK	1	0	23.63	23.75	23.73	25.20
		1	13	23.83	23.81	23.78	25.20
		1	24	23.72	23.74	23.74	25.20
		12	0	22.63	22.76	22.71	24.20
		12	6	22.76	22.66	22.79	24.20
		12	13	22.80	22.77	22.64	24.20
	16QAM	25	0	22.71	22.60	22.70	24.20
		1	0	22.67	22.68	22.62	24.20
		1	13	22.72	22.68	22.79	24.20
		1	24	22.63	22.48	22.71	24.20
		12	0	21.60	21.71	21.65	23.20
		12	6	21.68	21.73	21.72	23.20
	64QAM	12	13	21.79	21.74	21.71	23.20
		25	0	21.70	21.67	21.79	23.20
		1	0	21.56	21.69	21.70	23.20
		1	13	21.73	21.75	21.71	23.20
		1	24	21.61	21.67	21.68	23.20
		12	0	20.57	20.70	20.68	22.20
10MHz	QPSK	12	6	20.66	20.64	20.71	22.20
		12	13	20.69	20.71	20.58	22.20
		25	0	20.67	20.52	20.60	22.20
		1	0	23.54	23.67	23.65	25.20
		1	25	23.77	23.78	23.81	25.20
		1	49	23.76	23.73	23.76	25.20
	16QAM	25	0	22.67	22.74	22.75	24.20
		25	13	22.77	22.71	22.77	24.20
		25	25	22.83	22.72	22.64	24.20
		50	0	22.76	22.62	22.80	24.20
		1	0	22.66	22.60	22.65	24.20
		1	25	22.70	22.66	22.79	24.20
	64QAM	1	49	22.62	22.52	22.72	24.20
		25	0	21.52	21.81	21.60	23.20
		25	13	21.69	21.78	21.74	23.20
		25	25	21.75	21.78	21.68	23.20
		50	0	21.74	21.70	21.79	23.20
		1	0	21.48	21.63	21.61	23.20
15MHz	QPSK	1	25	21.75	21.73	21.74	23.20
		1	49	21.69	21.70	21.65	23.20
		25	0	20.56	20.62	20.72	22.20
		25	13	20.66	20.64	20.73	22.20
		25	25	20.81	20.70	20.60	22.20
		50	0	20.73	20.53	20.73	22.20
15MHz	QPSK	1	0	23.62	23.72	23.66	25.20
		1	38	23.82	23.80	23.74	25.20

		1	74	23.78	23.76	23.70	25.20	
		36	0	22.62	22.67	22.71	24.20	
		36	18	22.74	22.66	22.77	24.20	
		36	39	22.83	22.68	22.61	24.20	
		75	0	22.70	22.67	22.78	24.20	
	16QAM	1	0	22.71	22.62	22.62	24.20	
		1	38	22.77	22.69	22.70	24.20	
		1	74	22.66	22.53	22.73	24.20	
		36	0	21.61	21.74	21.62	23.20	
		36	18	21.66	21.77	21.75	23.20	
		36	39	21.82	21.76	21.74	23.20	
		75	0	21.76	21.64	21.73	23.20	
	64QAM	1	0	21.53	21.61	21.54	23.20	
		1	38	21.78	21.70	21.72	23.20	
		1	74	21.66	21.74	21.69	23.20	
		36	0	20.56	20.66	20.67	22.20	
		36	18	20.64	20.63	20.68	22.20	
		36	39	20.82	20.58	20.54	22.20	
		75	0	20.66	20.64	20.77	22.20	
	Bandwidth	Modulation	RB size	RB offset	Channel 37850	Channel 38000	Channel 38150	Tune up
	20MHz	QPSK	1	0	23.38	23.51	23.48	25.20
1			50	23.62	23.58	23.56	25.20	
1			99	23.56	23.53	23.64	25.20	
50			0	22.44	22.51	22.61	24.20	
50			25	22.55	22.50	22.58	24.20	
50			50	22.60	22.53	22.46	24.20	
100			0	22.54	22.42	22.55	24.20	
16QAM		1	0	22.48	22.44	22.40	24.20	
		1	50	22.55	22.49	22.55	24.20	
		1	99	22.47	22.32	22.48	24.20	
		50	0	21.37	21.56	21.45	23.20	
		50	25	21.45	21.56	21.55	23.20	
		50	50	21.57	21.54	21.52	23.20	
		100	0	21.51	21.45	21.54	23.20	
64QAM		1	0	21.37	21.40	21.43	23.20	
		1	50	21.57	21.56	21.54	23.20	
		1	99	21.44	21.49	21.61	23.20	
		50	0	20.42	20.50	20.52	22.20	
		50	25	20.45	20.44	20.48	22.20	
		50	50	20.59	20.51	20.45	22.20	
		100	0	20.43	20.41	20.51	22.20	



LTE Band 38 Sensor on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37775	38000	38225	
5MHz	QPSK	1	0	20.42	20.35	20.40	22.20
		1	13	20.61	20.56	20.51	22.20
		1	24	20.39	20.43	20.46	22.20
		12	0	20.48	20.59	20.53	22.20
		12	6	20.48	20.57	20.40	22.20
		12	13	20.54	20.54	20.44	22.20
		25	0	20.49	20.47	20.55	22.20
	16QAM	1	0	20.28	20.40	20.40	22.20
		1	13	20.51	20.56	20.52	22.20
		1	24	20.37	20.40	20.42	22.20
		12	0	20.51	20.58	20.52	22.20
		12	6	20.54	20.53	20.59	22.20
		12	13	20.56	20.53	20.53	22.20
		25	0	20.56	20.60	20.49	22.20
	64QAM	1	0	20.37	20.26	20.38	22.20
		1	13	20.60	20.55	20.40	22.20
		1	24	20.34	20.36	20.38	22.20
		12	0	20.43	20.48	20.50	22.20
		12	6	20.46	20.53	20.39	22.20
		12	13	20.50	20.51	20.40	22.20
		25	0	20.39	20.41	20.50	22.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	QPSK	1	0	20.38	20.40	20.42	22.20
		1	25	20.57	20.56	20.56	22.20
		1	49	20.46	20.40	20.40	22.20
		25	0	20.43	20.51	20.52	22.20
		25	13	20.54	20.58	20.56	22.20
		25	25	20.61	20.50	20.48	22.20
		50	0	20.45	20.51	20.50	22.20
	16QAM	1	0	20.28	20.37	20.42	22.20
		1	25	20.51	20.56	20.50	22.20
		1	49	20.40	20.44	20.44	22.20
		25	0	20.50	20.55	20.59	22.20
		25	13	20.51	20.56	20.60	22.20
		25	25	20.60	20.48	20.46	22.20
		50	0	20.54	20.56	20.59	22.20
	64QAM	1	0	20.33	20.34	20.40	22.20
		1	25	20.45	20.51	20.46	22.20
		1	49	20.41	20.35	20.32	22.20
		25	0	20.42	20.41	20.44	22.20
		25	13	20.46	20.56	20.49	22.20
		25	25	20.60	20.48	20.45	22.20
		50	0	20.44	20.48	20.43	22.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	QPSK	1	0	20.41	20.35	20.45	22.20
		1	38	20.58	20.64	20.50	22.20

		1	74	20.40	20.47	20.46	22.20	
		36	0	20.48	20.50	20.58	22.20	
		36	18	20.47	20.53	20.55	22.20	
		36	39	20.62	20.57	20.45	22.20	
		75	0	20.45	20.55	20.53	22.20	
	16QAM	1	0	20.38	20.44	20.46	22.20	
		1	38	20.52	20.50	20.53	22.20	
		1	74	20.41	20.39	20.35	22.20	
		36	0	20.48	20.55	20.57	22.20	
		36	18	20.52	20.53	20.61	22.20	
		36	39	20.57	20.52	20.48	22.20	
		75	0	20.55	20.55	20.53	22.20	
	64QAM	1	0	20.38	20.34	20.40	22.20	
		1	38	20.50	20.55	20.49	22.20	
		1	74	20.32	20.36	20.43	22.20	
		36	0	20.39	20.46	20.49	22.20	
		36	18	20.40	20.51	20.49	22.20	
		36	39	20.58	20.47	20.36	22.20	
		75	0	20.37	20.43	20.41	22.20	
	Bandwidth	Modulation	RB size	RB offset	Channel 37850	Channel 38000	Channel 38150	Tune up
	20MHz	QPSK	1	0	20.4	20.41	20.41	22.20
1			50	20.61	20.65	20.5	22.20	
1			99	20.47	20.38	20.37	22.20	
50			0	20.48	20.55	20.59	22.20	
50			25	20.53	20.56	20.55	22.20	
50			50	20.6	20.56	20.45	22.20	
100			0	20.48	20.54	20.52	22.20	
16QAM		1	0	20.33	20.4	20.43	22.20	
		1	50	20.56	20.51	20.45	22.20	
		1	99	20.44	20.42	20.41	22.20	
		50	0	20.5	20.62	20.53	22.20	
		50	25	20.51	20.57	20.6	22.20	
		50	50	20.55	20.53	20.47	22.20	
		100	0	20.56	20.58	20.56	22.20	
64QAM		1	0	20.36	20.40	20.32	22.20	
		1	50	20.59	20.56	20.38	22.20	
		1	99	20.42	20.29	20.36	22.20	
		50	0	20.38	20.43	20.55	22.20	
		50	25	20.48	20.54	20.47	22.20	
		50	50	20.57	20.48	20.33	22.20	
		100	0	20.39	20.42	20.43	22.20	

LTE Band 38 Receiver on&Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37775	38000	38225	
5MHz	QPSK	1	0	13.84	13.81	13.80	15.70
		1	13	14.02	13.97	13.88	15.70
		1	24	13.76	13.85	13.79	15.70
		12	0	13.79	13.90	13.99	15.70
		12	6	13.80	14.02	13.91	15.70
		12	13	14.03	13.97	13.86	15.70
	16QAM	25	0	13.78	13.95	13.85	15.70
		1	0	13.76	13.77	13.82	15.70
		1	13	13.85	13.88	13.75	15.70
		1	24	13.83	13.83	13.80	15.70
		12	0	13.90	13.82	13.87	15.70
		12	6	13.87	13.96	13.83	15.70
	64QAM	12	13	13.96	13.81	13.91	15.70
		25	0	13.94	13.90	13.85	15.70
		1	0	13.82	13.79	13.73	15.70
		1	13	13.92	13.88	13.80	15.70
		1	24	13.77	13.77	13.78	15.70
		12	0	13.75	13.85	13.96	15.70
10MHz	QPSK	12	6	13.74	13.95	13.88	15.70
		12	13	13.99	13.93	13.75	15.70
		25	0	13.78	13.86	13.76	15.70
		1	0	13.72	13.77	13.79	15.70
		1	25	13.89	13.91	13.99	15.70
		1	49	13.82	13.97	13.73	15.70
	16QAM	25	0	13.80	13.94	13.97	15.70
		25	13	13.94	13.94	14.02	15.70
		25	25	13.98	13.81	13.74	15.70
		50	0	13.95	13.80	13.90	15.70
		1	0	13.87	13.73	13.87	15.70
		1	25	13.92	13.98	13.77	15.70
	64QAM	1	49	13.76	13.86	13.72	15.70
		25	0	13.80	13.98	13.85	15.70
		25	13	13.98	13.86	13.98	15.70
		25	25	13.90	13.86	13.78	15.70
		50	0	13.97	13.95	13.90	15.70
		1	0	13.77	13.75	13.75	15.70
15MHz	QPSK	1	25	13.87	13.88	13.94	15.70
		1	49	13.70	13.92	13.78	15.70
		25	0	13.70	13.84	13.90	15.70
		25	13	13.84	13.89	13.95	15.70
		25	25	13.86	13.76	13.71	15.70
		50	0	13.90	13.79	13.87	15.70
	QPSK	1	0	13.76	13.82	13.76	15.70
		1	38	13.85	13.93	13.97	15.70

		1	74	13.89	13.71	13.85	15.70	
		36	0	13.84	13.88	13.97	15.70	
		36	18	13.89	13.87	14.01	15.70	
		36	39	13.88	13.90	13.74	15.70	
		75	0	13.83	13.88	13.88	15.70	
	16QAM	1	0	13.71	13.80	13.72	15.70	
		1	38	13.79	13.95	13.86	15.70	
		1	74	13.76	13.85	13.78	15.70	
		36	0	13.72	13.90	13.95	15.70	
		36	18	13.88	13.99	13.95	15.70	
		36	39	13.97	13.93	13.85	15.70	
		75	0	13.90	13.89	13.96	15.70	
	64QAM	1	0	13.70	13.70	13.75	15.70	
		1	38	13.82	13.83	13.86	15.70	
		1	74	13.80	13.71	13.75	15.70	
		36	0	13.83	13.83	13.92	15.70	
		36	18	13.87	13.84	14.00	15.70	
		36	39	13.77	13.80	13.73	15.70	
		75	0	13.80	13.87	13.86	15.70	
	Bandwidth	Modulation	RB size	RB offset	Channel 37850	Channel 38000	Channel 38150	Tune up
	20MHz	QPSK	1	0	13.76	13.73	13.79	15.70
1			50	13.92	13.95	13.90	15.70	
1			99	13.79	13.78	13.96	15.70	
50			0	13.81	13.90	13.94	15.70	
50			25	13.87	13.93	13.93	15.70	
50			50	13.94	13.88	13.82	15.70	
100			0	13.85	13.87	13.86	15.70	
16QAM		1	0	13.88	13.75	13.77	15.70	
		1	50	13.87	13.89	13.84	15.70	
		1	99	13.77	13.76	13.75	15.70	
		50	0	13.81	13.92	13.92	15.70	
		50	25	13.88	13.90	13.91	15.70	
		50	50	13.92	13.87	13.86	15.70	
		100	0	13.88	13.94	13.89	15.70	
64QAM		1	0	13.77	13.71	13.76	15.70	
		1	50	13.90	13.84	13.89	15.70	
		1	99	13.72	13.71	13.85	15.70	
		50	0	13.72	13.84	13.91	15.70	
		50	25	13.79	13.85	13.83	15.70	
		50	50	13.85	13.84	13.74	15.70	
		100	0	13.83	13.81	13.81	15.70	

LTE Band 41 Full power				Conducted Power(dBm)						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up	
				39675	40148	40620	41093	41565		
5MHz	QPSK	1	0	23.23	23.24	23.47	23.33	23.36	23.70	
		1	13	23.27	23.4	23.39	23.31	23.35	23.70	
		1	24	23.17	23.3	23.34	23.21	23.33	23.70	
		12	0	22.22	22.15	22.27	22.16	22.38	22.70	
		12	6	22.23	22.3	22.32	22.23	22.33	22.70	
		12	13	22.31	22.27	22.37	22.24	22.22	22.70	
	16QAM	25	0	22.27	22.3	22.34	22.27	22.37	22.70	
		1	0	22.22	22.28	22.26	22.27	22.24	22.70	
		1	13	22.21	22.31	22.46	22.34	22.22	22.70	
		1	24	22.31	22.23	22.43	22.23	22.33	22.70	
		12	0	21.14	21.15	21.25	21.13	21.18	21.70	
		12	6	21.23	21.15	21.33	21.2	21.33	21.70	
	64QAM	12	13	21.29	21.15	21.4	21.2	21.32	21.70	
		25	0	21.24	21.17	21.29	21.28	21.4	21.70	
		1	0	21.12	21.21	21.44	21.21	21.33	21.70	
		1	13	21.18	21.36	21.32	21.26	21.26	21.70	
		1	24	21.09	21.21	21.25	21.13	21.25	21.70	
		12	0	20.10	20.07	20.22	20.07	20.30	20.70	
10MHz	QPSK	12	6	20.19	20.26	20.21	20.22	20.24	20.70	
		12	13	20.23	20.23	20.25	20.14	20.21	20.70	
		25	0	20.22	20.21	20.33	20.16	20.26	20.70	
		1	0	23.27	23.22	23.4	23.27	23.38	23.70	
		1	25	23.31	23.41	23.41	23.41	23.35	23.70	
		1	49	23.29	23.28	23.31	23.19	23.27	23.70	
	16QAM	25	0	22.27	22.17	22.32	22.29	22.38	22.70	
		25	13	22.28	22.15	22.3	22.3	22.24	22.70	
		25	25	22.23	22.15	22.31	22.33	22.35	22.70	
		50	0	22.32	22.15	22.45	22.29	22.32	22.70	
		1	0	22.36	22.21	22.26	22.32	22.25	22.70	
		1	25	22.29	22.22	22.45	22.37	22.21	22.70	
	64QAM	1	49	22.24	22.31	22.41	22.23	22.32	22.70	
		25	0	21.13	21.12	21.2	21.19	21.2	21.70	
		25	13	21.14	21.13	21.21	21.26	21.32	21.70	
		25	25	21.23	21.22	21.26	21.26	21.33	21.70	
		50	0	21.35	21.31	21.45	21.38	21.43	21.70	
		1	0	21.26	21.17	21.36	21.16	21.28	21.70	
15MHz	QPSK	1	25	21.28	21.40	21.40	21.39	21.29	21.70	
		1	49	21.21	21.21	21.25	21.09	21.21	21.70	
		25	0	20.16	20.11	20.31	20.22	20.34	20.70	
		25	13	20.16	20.11	20.27	20.20	20.17	20.70	
		25	25	20.20	20.03	20.22	20.31	20.29	20.70	
		50	0	20.26	20.14	20.34	20.17	20.27	20.70	
	15MHz	QPSK	1	0	23.31	23.26	23.43	23.34	23.34	23.70
			1	38	23.3	23.35	23.45	23.36	23.4	23.70

		1	74	23.22	23.29	23.35	23.27	23.35	23.70	
		36	0	22.29	22.21	22.3	22.24	22.3	22.70	
		36	18	22.24	22.22	22.37	22.29	22.3	22.70	
		36	39	22.25	22.21	22.36	22.27	22.29	22.70	
		75	0	22.27	22.23	22.39	22.3	22.34	22.70	
	16QAM	1	0	22.28	22.25	22.32	22.35	22.29	22.70	
		1	38	22.28	22.27	22.46	22.35	22.28	22.70	
		1	74	22.24	22.3	22.35	22.23	22.25	22.70	
		36	0	21.11	21.18	21.27	21.21	21.23	21.70	
		36	18	21.19	21.13	21.29	21.2	21.27	21.70	
		36	39	21.26	21.23	21.33	21.25	21.31	21.70	
	64QAM	75	0	21.28	21.25	21.37	21.3	21.36	21.70	
		1	0	21.29	21.14	21.37	21.26	21.22	21.70	
		1	38	21.25	21.28	21.33	21.29	21.33	21.70	
		1	74	21.16	21.20	21.28	21.25	21.25	21.70	
		36	0	20.25	20.15	20.24	20.19	20.23	20.70	
		36	18	20.22	20.15	20.34	20.27	20.24	20.70	
		36	39	20.21	20.09	20.24	20.20	20.24	20.70	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
					39750	40185	40620	41055	41490	
	20MHz	QPSK	1	0	23.30	23.23	23.28	23.28	23.29	23.70
1			50	23.30	23.36	23.46	23.38	23.31	23.70	
1			99	23.22	23.34	23.33	23.24	23.49	23.70	
50			0	22.16	22.26	22.35	22.33	22.39	22.70	
50			25	22.30	22.29	22.38	22.28	22.38	22.70	
50			50	22.33	22.33	22.38	22.27	22.32	22.70	
100			0	22.25	22.27	22.35	22.29	22.38	22.70	
16QAM		1	0	22.24	22.16	22.32	22.26	22.35	22.70	
		1	50	22.26	22.28	22.46	22.37	22.41	22.70	
		1	99	22.17	22.26	22.31	22.26	22.27	22.70	
		50	0	21.11	21.15	21.32	21.32	21.40	21.70	
		50	25	21.30	21.27	21.39	21.30	21.42	21.70	
		50	50	21.34	21.29	21.39	21.23	21.34	21.70	
64QAM		100	0	21.25	21.28	21.35	21.31	21.37	21.70	
		1	0	21.24	21.22	21.23	21.18	21.17	21.70	
		1	50	21.26	21.33	21.45	21.35	21.19	21.70	
		1	99	21.19	21.29	21.29	21.13	21.13	21.70	
		50	0	20.15	20.17	20.30	20.26	20.35	20.70	
		50	25	20.24	20.27	20.32	20.20	20.36	20.70	
		50	50	20.23	20.27	20.26	20.25	20.29	20.70	
100		0	20.15	20.15	20.28	20.28	20.27	20.70		

LTE Band 41 Sensor on				Conducted Power(dBm)						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up	
				39675	40148	40620	41093	41565		
5MHz	QPSK	1	0	22.22	22.14	22.35	22.19	22.39	22.70	
		1	13	22.32	22.27	22.55	22.32	22.37	22.70	
		1	24	22.16	22.28	22.41	22.09	22.17	22.70	
		12	0	22.33	22.26	22.28	22.3	22.24	22.70	
		12	6	22.31	22.42	22.4	22.32	22.21	22.70	
		12	13	22.14	22.31	22.3	22.17	22.19	22.70	
	16QAM	25	0	22.32	22.21	22.32	22.33	22.28	22.70	
		1	0	22.29	22.22	22.42	22.31	22.21	22.70	
		1	13	22.23	22.39	22.28	22.31	22.17	22.70	
		1	24	22.24	22.23	22.21	22.39	22.33	22.70	
		12	0	21.25	21.06	21.46	21.13	21.39	21.70	
		12	6	21.34	21.4	21.42	21.17	21.38	21.70	
	64QAM	12	13	21.34	21.28	21.22	21.31	21.36	21.70	
		25	0	21.09	21.38	21.18	21.38	21.38	21.70	
		1	0	21.12	21.21	21.44	21.21	21.33	21.70	
		1	13	21.18	21.36	21.32	21.26	21.26	21.70	
		1	24	21.09	21.21	21.25	21.13	21.25	21.70	
		12	0	20.10	20.07	20.22	20.07	20.30	20.70	
10MHz	QPSK	12	6	20.19	20.26	20.21	20.22	20.24	20.70	
		12	13	20.23	20.23	20.25	20.14	20.21	20.70	
		25	0	20.22	20.21	20.33	20.16	20.26	20.70	
		1	0	22.24	22.32	22.32	22.19	22.34	22.70	
		1	25	22.26	22.42	22.53	22.28	22.27	22.70	
		1	49	22.1	22.37	22.36	22.27	22.31	22.70	
	16QAM	25	0	22.23	22.13	22.28	22.33	22.27	22.70	
		25	13	22.22	22.36	22.35	22.32	22.23	22.70	
		25	25	22.21	22.42	22.37	22.26	22.32	22.70	
		50	0	22.39	22.08	22.31	22.31	22.25	22.70	
		1	0	22.24	22.36	22.38	22.34	22.32	22.70	
		1	25	22.2	22.31	22.27	22.35	22.23	22.70	
	64QAM	1	49	22.3	22.13	22.3	22.21	22.24	22.70	
		25	0	21.2	21	21.41	21.24	21.41	21.70	
		25	13	21.2	21.33	21.37	21.18	21.51	21.70	
		25	25	21.35	21.33	21.21	21.25	21.39	21.70	
		50	0	21.12	21.44	21.22	21.25	21.36	21.70	
		1	0	21.26	21.17	21.36	21.16	21.28	21.70	
15MHz	QPSK	1	25	21.28	21.40	21.40	21.39	21.29	21.70	
		1	49	21.21	21.21	21.25	21.09	21.21	21.70	
		25	0	20.16	20.11	20.31	20.22	20.34	20.70	
		25	13	20.16	20.11	20.27	20.20	20.17	20.70	
		25	25	20.20	20.03	20.22	20.31	20.29	20.70	
		50	0	20.26	20.14	20.34	20.17	20.27	20.70	
	15MHz	QPSK	1	0	22.3	22.31	22.3	22.17	22.3	22.70
			1	38	22.31	22.31	22.56	22.27	22.31	22.70

		1	74	22.27	22.43	22.27	22.15	22.3	22.70	
		36	0	22.24	22.15	22.36	22.16	22.25	22.70	
		36	18	22.33	22.47	22.44	22.41	22.18	22.70	
		36	39	22.19	22.38	22.36	22.26	22.3	22.70	
		75	0	22.35	22.19	22.31	22.23	22.34	22.70	
	16QAM	1	0	22.35	22.41	22.4	22.23	22.37	22.70	
		1	38	22.13	22.28	22.19	22.29	22.14	22.70	
		1	74	22.24	22.25	22.35	22.29	22.28	22.70	
		36	0	21.28	21.16	21.42	21.14	21.53	21.70	
		36	18	21.33	21.38	21.36	21.2	21.42	21.70	
		36	39	21.29	21.27	21.37	21.22	21.46	21.70	
	64QAM	75	0	21.23	21.44	21.29	21.24	21.18	21.70	
		1	0	21.29	21.14	21.37	21.26	21.22	21.70	
		1	38	21.25	21.28	21.33	21.29	21.33	21.70	
		1	74	21.16	21.20	21.28	21.25	21.25	21.70	
		36	0	20.25	20.15	20.24	20.19	20.23	20.70	
		36	18	20.22	20.15	20.34	20.27	20.24	20.70	
		36	39	20.21	20.09	20.24	20.20	20.24	20.70	
	75	0	20.15	20.14	20.36	20.28	20.33	20.70		
	Bandwidth	Modulation	RB size	RB offset	Channel 39750	Channel 40185	Channel 40620	Channel 41055	Channel 41490	Tune up
	20MHz	QPSK	1	0	22.26	22.24	22.3	22.24	22.3	22.70
1			50	22.31	22.33	22.47	22.34	22.27	22.70	
1			99	22.17	22.36	22.33	22.19	22.49	22.70	
50			0	22.25	22.23	22.3	22.24	22.39	22.70	
50			25	22.26	22.38	22.43	22.38	22.28	22.70	
50			50	22.23	22.36	22.35	22.2	22.22	22.70	
100			0	22.31	22.18	22.24	22.28	22.31	22.70	
16QAM		1	0	22.3	22.32	22.48	22.33	22.29	22.70	
		1	50	22.21	22.36	22.28	22.26	22.21	22.70	
		1	99	22.29	22.23	22.26	22.3	22.27	22.70	
		50	0	21.19	21.07	21.42	21.23	21.49	21.70	
		50	25	21.29	21.31	21.46	21.23	21.44	21.70	
		50	50	21.33	21.29	21.3	21.26	21.38	21.70	
64QAM		100	0	21.15	21.35	21.27	21.33	21.28	21.70	
		1	0	21.24	21.22	21.23	21.18	21.17	21.70	
		1	50	21.26	21.33	21.45	21.35	21.19	21.70	
		1	99	21.19	21.29	21.29	21.13	21.13	21.70	
		50	0	20.15	20.17	20.30	20.26	20.35	20.70	
		50	25	20.24	20.27	20.32	20.20	20.36	20.70	
		50	50	20.23	20.27	20.26	20.25	20.29	20.70	
100		0	20.15	20.15	20.28	20.28	20.27	20.70		

LTE Band 41 Receiver on&Hotspot on				Conducted Power(dBm)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up		
				39675	40148	40620	41093	41565			
5MHz	QPSK	1	0	16.45	16.35	16.52	16.32	16.57	16.70		
		1	13	16.4	16.46	16.57	16.33	16.39	16.70		
		1	24	16.3	16.37	16.5	16.26	16.3	16.70		
		12	0	16.28	16.37	16.56	16.44	16.55	16.70		
		12	6	16.48	16.4	16.46	16.55	16.52	16.70		
		12	13	16.51	16.48	16.6	16.61	16.57	16.70		
	16QAM	25	0	16.43	16.54	16.58	16.46	16.41	16.70		
		1	0	16.49	16.37	16.47	16.35	16.45	16.70		
		1	13	16.62	16.57	16.34	16.43	16.57	16.70		
		1	24	16.34	16.49	16.5	16.33	16.48	16.70		
		12	0	16.46	16.46	16.58	16.43	16.5	16.70		
		12	6	16.54	16.46	16.57	16.53	16.49	16.70		
	64QAM	12	13	16.59	16.5	16.59	16.48	16.51	16.70		
		25	0	16.56	16.44	16.49	16.58	16.41	16.70		
		1	0	16.33	16.25	16.42	16.31	16.56	16.70		
		1	13	16.32	16.40	16.53	16.27	16.37	16.70		
		1	24	16.22	16.30	16.44	16.19	16.28	16.70		
		12	0	16.17	16.35	16.44	16.43	16.46	16.70		
10MHz	QPSK	12	6	16.36	16.36	16.36	16.52	16.40	16.70		
		12	13	16.43	16.46	16.57	16.50	16.53	16.70		
		25	0	16.39	16.45	16.57	16.42	16.32	16.70		
		Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
						39700	40160	40620	41080	41540	
		10MHz	QPSK	1	0	16.48	16.35	16.37	16.4	16.45	16.70
	1			25	16.56	16.52	16.64	16.45	16.52	16.70	
	1			49	16.3	16.45	16.5	16.26	16.41	16.70	
	25			0	16.28	16.42	16.65	16.48	16.54	16.70	
	25			13	16.61	16.5	16.52	16.41	16.55	16.70	
	25			25	16.45	16.53	16.46	16.46	16.56	16.70	
	16QAM		50	0	16.46	16.51	16.55	16.44	16.54	16.70	
			1	0	16.53	16.34	16.5	16.36	16.52	16.70	
			1	25	16.61	16.39	16.53	16.59	16.51	16.70	
			1	49	16.49	16.36	16.49	16.32	16.51	16.70	
			25	0	16.44	16.45	16.5	16.54	16.55	16.70	
			25	13	16.51	16.51	16.62	16.48	16.62	16.70	
	64QAM		25	25	16.59	16.53	16.56	16.5	16.43	16.70	
50			0	16.39	16.34	16.56	16.45	16.6	16.70		
1			0	16.47	16.28	16.36	16.34	16.36	16.70		
1			25	16.53	16.47	16.63	16.36	16.44	16.70		
1			49	16.22	16.34	16.41	16.25	16.38	16.70		
25			0	16.24	16.32	16.57	16.36	16.50	16.70		
15MHz	QPSK	25	13	16.58	16.44	16.47	16.34	16.51	16.70		
		25	25	16.35	16.49	16.41	16.35	16.51	16.70		
		50	0	16.44	16.45	16.48	16.40	16.52	16.70		
		Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
						39725	40173	40620	41068	41515	
		15MHz	QPSK	1	0	16.35	16.27	16.47	16.41	16.39	16.70
	1			38	16.43	16.4	16.58	16.33	16.45	16.70	

		1	74	16.4	16.35	16.52	16.26	16.41	16.70	
		36	0	16.37	16.4	16.47	16.46	16.46	16.70	
		36	18	16.51	16.37	16.62	16.46	16.63	16.70	
		36	39	16.63	16.4	16.66	16.52	16.51	16.70	
		75	0	16.44	16.38	16.57	16.5	16.43	16.70	
	16QAM	1	0	16.49	16.38	16.52	16.46	16.48	16.70	
		1	38	16.58	16.41	16.65	16.41	16.54	16.70	
		1	74	16.42	16.41	16.41	16.44	16.39	16.70	
		36	0	16.3	16.38	16.53	16.51	16.54	16.70	
		36	18	16.38	16.37	16.51	16.47	16.5	16.70	
		36	39	16.61	16.5	16.63	16.44	16.61	16.70	
	64QAM	75	0	16.41	16.54	16.49	16.51	16.55	16.70	
		1	0	16.26	16.16	16.39	16.40	16.33	16.70	
		1	38	16.40	16.34	16.54	16.23	16.35	16.70	
		1	74	16.36	16.32	16.41	16.18	16.38	16.70	
		36	0	16.28	16.37	16.38	16.38	16.43	16.70	
		36	18	16.39	16.29	16.61	16.45	16.58	16.70	
		36	39	16.52	16.38	16.60	16.49	16.49	16.70	
	75	0	16.43	16.34	16.47	16.47	16.40	16.70		
	Bandwidth	Modulation	RB size	RB offset	Channel 39750	Channel 40185	Channel 40620	Channel 41055	Channel 41490	Tune up
	20MHz	QPSK	1	0	16.40	16.34	16.45	16.36	16.47	16.70
1			50	16.46	16.45	16.59	16.43	16.49	16.70	
1			99	16.36	16.42	16.47	16.36	16.62	16.70	
50			0	16.38	16.46	16.55	16.51	16.60	16.70	
50			25	16.51	16.45	16.55	16.51	16.56	16.70	
50			50	16.55	16.48	16.56	16.51	16.47	16.70	
100			0	16.53	16.47	16.53	16.50	16.51	16.70	
16QAM		1	0	16.47	16.36	16.48	16.41	16.50	16.70	
		1	50	16.52	16.48	16.61	16.51	16.53	16.70	
		1	99	16.40	16.46	16.49	16.42	16.45	16.70	
		50	0	16.39	16.45	16.48	16.51	16.55	16.70	
		50	25	16.47	16.43	16.56	16.48	16.56	16.70	
		50	50	16.55	16.46	16.58	16.51	16.52	16.70	
64QAM		100	0	16.46	16.44	16.52	16.51	16.50	16.70	
		1	0	16.38	16.28	16.42	16.25	16.38	16.70	
		1	50	16.36	16.39	16.53	16.42	16.45	16.70	
		1	99	16.33	16.33	16.43	16.34	16.56	16.70	
		50	0	16.37	16.44	16.51	16.41	16.55	16.70	
		50	25	16.46	16.42	16.48	16.43	16.52	16.70	
		50	50	16.53	16.41	16.50	16.45	16.40	16.70	
100		0	16.51	16.42	16.42	16.44	16.45	16.70		



LTE Band 66 Full power				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				131979	132322	132665		
1.4MHz	QPSK	1	0	23.45	23.35	23.49	25.20	
		1	2	23.58	23.43	23.31	25.20	
		1	5	23.53	23.44	23.51	25.20	
		3	0	23.46	23.36	23.37	25.20	
		3	1	23.75	23.21	23.30	25.20	
		3	3	23.63	23.46	23.45	25.20	
	16QAM	6	0	22.54	22.41	22.50	24.20	
		1	0	22.59	22.51	22.25	24.20	
		1	2	22.59	22.32	22.72	24.20	
		1	5	22.39	22.39	22.23	24.20	
		3	0	22.47	22.52	22.43	24.20	
		3	1	22.67	22.43	22.44	24.20	
	64QAM	3	3	22.46	22.42	22.40	24.20	
		6	0	21.97	21.72	21.52	23.20	
		1	0	21.35	21.30	21.44	23.20	
		1	2	21.50	21.37	21.25	23.20	
		1	5	21.42	21.40	21.43	23.20	
		3	0	21.45	21.35	21.33	23.20	
		3	1	21.64	21.24	21.24	23.20	
		3	3	21.57	21.36	21.42	23.20	
		6	0	20.43	20.37	20.38	22.20	
		Channel	Channel	Channel	Tune up			
		131987	132322	132657				
		3MHz	QPSK	1	0	23.47	23.45	23.50
1	7			23.64	23.52	23.34	25.20	
1	14			23.23	23.46	23.39	25.20	
8	0			22.56	22.56	22.55	24.20	
8	4			22.39	22.59	22.38	24.20	
8	7			22.54	22.45	22.44	24.20	
15	0			22.38	22.34	22.32	24.20	
16QAM	1		0	22.93	22.61	22.48	24.20	
	1		7	22.78	22.99	22.58	24.20	
	1		14	22.82	22.44	22.34	24.20	
	8		0	21.58	21.68	21.54	23.20	
	8		4	21.77	21.81	21.47	23.20	
	8		7	21.51	21.65	21.57	23.20	
	15		0	21.56	21.73	21.55	23.20	
64QAM	1		0	21.40	21.42	21.44	23.20	
	1		7	21.62	21.50	21.33	23.20	
	1		14	21.24	21.37	21.36	23.20	
	8		0	20.50	20.50	20.49	22.20	
	8		4	20.32	20.49	20.27	22.20	
	8		7	20.48	20.41	20.41	22.20	
	15		0	20.27	20.29	20.24	22.20	
Bandwidth	Modulation		RB size	RB offset	Channel	Channel	Channel	Tune up
					131997	132322	132647	
5MHz	QPSK		1	0	23.70	23.46	23.53	25.20
		1	13	23.48	23.36	23.39	25.20	

		1	24	23.42	23.45	23.23	25.20	
		12	0	22.46	22.32	22.47	24.20	
		12	6	22.55	22.30	22.52	24.20	
		12	13	22.55	22.50	22.23	24.20	
		25	0	22.45	22.30	22.28	24.20	
	16QAM	1	0	22.74	22.51	22.50	24.20	
		1	13	22.88	23.05	22.52	24.20	
		1	24	22.95	22.52	22.26	24.20	
		12	0	21.58	21.45	21.41	23.20	
		12	6	21.58	21.60	21.56	23.20	
		12	13	21.48	21.76	21.58	23.20	
	64QAM	25	0	21.61	21.57	21.64	23.20	
		1	0	21.63	21.41	21.50	23.20	
		1	13	21.36	21.27	21.35	23.20	
		1	24	21.33	21.38	21.25	23.20	
		12	0	20.39	20.24	20.45	22.20	
		12	6	20.53	20.28	20.51	22.20	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
132022					132322	132622		
10MHz	QPSK	1	0	23.58	23.38	23.50	25.20	
		1	25	23.42	23.49	23.40	25.20	
		1	49	23.30	23.38	23.20	25.20	
		25	0	22.39	22.47	22.47	24.20	
		25	13	22.45	22.35	22.28	24.20	
		25	25	22.50	22.55	22.40	24.20	
	16QAM	50	0	22.35	22.49	22.47	24.20	
		1	0	22.89	22.56	22.32	24.20	
		1	25	22.93	22.86	22.72	24.20	
		1	49	22.93	22.57	22.38	24.20	
		25	0	21.55	21.74	21.62	23.20	
		25	13	21.60	21.76	21.74	23.20	
	64QAM	25	25	21.67	21.71	21.48	23.20	
		50	0	21.69	21.70	21.54	23.20	
		1	0	21.51	21.29	21.41	23.20	
		1	25	21.38	21.37	21.34	23.20	
		1	49	21.23	21.34	21.28	23.20	
		25	0	20.27	20.46	20.39	22.20	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
					132047	132322	132597	
	15MHz	QPSK	25	13	20.45	20.44	20.20	22.20
			25	0	20.35	20.25	20.22	22.20
			1	0	23.45	23.48	23.67	25.20
			1	38	23.60	23.34	23.35	25.20
1			74	23.43	23.43	23.23	25.20	
36			0	22.50	22.47	22.57	24.20	
16QAM		36	18	22.29	22.51	22.38	24.20	
		36	39	22.59	22.52	22.29	24.20	
		75	0	22.30	22.38	22.30	24.20	
		1	0	22.71	22.72	22.41	24.20	
				Channel	Channel	Channel		
				22.70	22.81	22.74		
				22.71	22.46	22.21	24.20	



		36	0	21.77	21.46	21.43	23.20
		36	18	21.67	21.80	21.71	23.20
		36	39	21.71	21.74	21.56	23.20
		75	0	21.55	21.71	21.50	23.20
	64QAM	1	0	21.38	21.38	21.66	23.20
		1	38	21.58	21.31	21.25	23.20
		1	74	21.31	21.38	21.27	23.20
		36	0	20.42	20.35	20.54	22.20
		36	18	20.20	20.43	20.37	22.20
		36	39	20.53	20.43	20.29	22.20
		75	0	20.21	20.36	20.28	22.20
Bandwidth	Modulation	RB size	RB offset	Channel 132072	Channel 132322	Channel 132572	Tune up
20MHz	QPSK	1	0	23.68	23.47	23.51	25.20
		1	50	23.50	23.68	23.46	25.20
		1	99	23.23	23.46	23.33	25.20
		50	0	22.30	22.59	22.32	24.20
		50	25	22.37	22.59	22.28	24.20
		50	50	22.37	22.55	22.44	24.20
		100	0	22.29	22.32	22.38	24.20
	16QAM	1	0	22.84	22.57	22.51	24.20
		1	50	22.86	22.93	22.65	24.20
		1	99	22.82	22.51	22.22	24.20
		50	0	21.65	21.52	21.65	23.20
		50	25	21.56	21.56	21.46	23.20
		50	50	21.66	21.69	21.62	23.20
		100	0	21.47	21.47	21.59	23.20
	64QAM	1	0	21.59	21.45	21.50	23.20
		1	50	21.40	21.31	21.35	23.20
		1	99	21.28	21.39	21.22	23.20
		50	0	20.27	20.32	20.27	22.20
		50	25	20.32	20.55	20.20	22.20
		50	50	20.30	20.49	20.32	22.20
		100	0	20.27	20.21	20.37	22.20

LTE Band 66 Sensor on				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				131979	132322	132665		
1.4MHz	QPSK	1	0	21.33	21.20	21.23	22.70	
		1	2	20.97	21.04	21.04	22.70	
		1	5	21.21	21.30	20.97	22.70	
		3	0	21.45	21.11	21.29	22.70	
		3	1	21.03	21.03	21.33	22.70	
		3	3	21.35	21.17	20.94	22.70	
	16QAM	1	0	21.25	21.09	21.22	22.70	
		1	2	20.83	21.26	21.05	22.70	
		1	5	21.32	21.07	21.16	22.70	
		3	0	21.16	21.19	21.26	22.70	
		3	1	21.16	21.15	21.00	22.70	
		3	3	21.46	21.23	21.20	22.70	
	64QAM	6	0	21.27	21.05	21.19	22.70	
		1	0	21.23	21.19	21.22	22.70	
		1	2	20.94	20.92	20.94	22.70	
		1	5	21.16	21.18	20.91	22.70	
		3	0	21.36	21.10	21.21	22.70	
		3	1	20.91	20.95	21.26	22.70	
	3MHz	QPSK	3	3	21.28	21.12	20.87	22.70
			6	0	20.72	20.69	20.58	22.20
			16QAM	1	0	21.45	21.10	21.20
1				7	21.02	21.00	21.12	22.70
1				14	21.26	21.29	21.02	22.70
8				0	21.50	21.20	21.43	22.70
8		4		21.10	20.89	21.23	22.70	
8		7		21.31	21.13	20.94	22.70	
15		0		21.28	21.20	21.18	22.70	
64QAM		1		0	21.34	21.08	21.12	22.70
		1		7	20.91	21.30	21.12	22.70
		1		14	21.33	21.01	21.04	22.70
		8		0	21.28	21.33	21.25	22.70
		8		4	21.22	21.14	21.04	22.70
		8		7	21.46	21.18	21.17	22.70
QPSK		15		0	21.26	21.09	21.13	22.70
		1		0	21.41	21.01	21.19	22.70
		1	7	20.90	20.95	21.03	22.70	
		1	14	21.16	21.20	20.91	22.70	
		8	0	20.88	20.63	20.82	22.20	
		8	4	20.49	20.34	20.64	22.20	
16QAM	8	7	20.73	20.52	20.40	22.20		
	8	7	20.73	20.52	20.40	22.20		
	15	0	20.75	20.66	20.67	22.20		
	QPSK	1	0	21.34	21.15	21.35	22.70	
		1	13	20.97	21.10	21.11	22.70	

		1	24	21.28	21.27	21.01	22.70	
		12	0	21.50	21.17	21.42	22.70	
		12	6	21.04	21.01	21.21	22.70	
		12	13	21.25	21.21	20.82	22.70	
		25	0	21.30	21.34	21.26	22.70	
	16QAM	1	0	21.33	21.12	21.21	22.70	
		1	13	20.98	21.20	21.05	22.70	
		1	24	21.41	21.14	21.10	22.70	
		12	0	21.23	21.34	21.32	22.70	
		12	6	21.17	21.09	21.04	22.70	
		12	13	21.54	21.22	21.22	22.70	
	64QAM	25	0	21.24	21.01	21.16	22.70	
		1	0	21.27	21.08	21.28	22.70	
		1	13	20.96	21.04	21.05	22.70	
		1	24	21.23	21.18	20.95	22.70	
		12	0	20.96	20.60	20.82	22.20	
		12	6	20.46	20.39	20.65	22.20	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
132022					132322	132622		
10MHz	QPSK	1	0	21.33	21.15	21.20	22.70	
		1	25	21.02	21.12	21.12	22.70	
		1	49	21.21	21.24	20.99	22.70	
		25	0	21.43	21.23	21.36	22.70	
		25	13	21.11	20.98	21.26	22.70	
		25	25	21.36	21.14	20.95	22.70	
		50	0	21.26	21.34	21.16	22.70	
	16QAM	1	0	21.32	21.03	21.08	22.70	
		1	25	20.96	21.27	21.11	22.70	
		1	49	21.47	21.15	21.09	22.70	
		25	0	21.15	21.25	21.25	22.70	
		25	13	21.22	21.20	21.04	22.70	
		25	25	21.58	21.25	21.26	22.70	
		50	0	21.26	21.10	21.05	22.70	
	64QAM	1	0	21.29	21.10	21.12	22.70	
		1	25	20.90	21.01	21.08	22.70	
		1	49	21.13	21.22	20.94	22.70	
		25	0	20.87	20.69	20.85	22.20	
		25	13	20.55	20.41	20.73	22.20	
		25	25	20.85	20.63	20.33	22.20	
		50	0	20.73	20.74	20.60	22.20	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
					132047	132322	132597	
	15MHz	QPSK	1	0	21.38	21.06	21.32	22.70
1			38	20.96	21.00	21.07	22.70	
1			74	21.27	21.33	20.94	22.70	
36			0	21.52	21.19	21.36	22.70	
36			18	20.98	21.01	21.32	22.70	
36			39	21.31	21.09	20.85	22.70	
75			0	21.27	21.32	21.22	22.70	
16QAM		1	0	21.37	20.99	21.15	22.70	
		1	38	20.97	21.29	21.03	22.70	
		1	74	21.39	21.15	21.01	22.70	

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				132072	132322	132572		
20MHz	64QAM	36	0	21.30	21.30	21.29	22.70	
		36	18	21.29	21.12	20.99	22.70	
		36	39	21.45	21.33	21.20	22.70	
		75	0	21.27	20.97	21.10	22.70	
	64QAM	1	0	21.32	21.00	21.27	22.70	
		1	38	20.90	20.89	21.04	22.70	
		1	74	21.15	21.29	20.82	22.70	
		36	0	20.98	20.60	20.78	22.20	
		36	18	20.38	20.49	20.71	22.20	
		36	39	20.74	20.54	20.33	22.20	
	QPSK	16QAM	75	0	20.74	20.71	20.69	22.20
			1	0	21.32	21.19	21.22	22.70
			1	50	21.02	21.55	21.10	22.70
			1	99	21.18	21.29	20.92	22.70
			50	0	21.51	21.52	21.36	22.70
			50	25	20.98	21.00	21.32	22.70
			50	50	21.34	21.10	20.95	22.70
		100	0	21.32	21.27	21.28	22.70	
		64QAM	1	0	21.40	21.04	21.16	22.70
			1	50	20.87	21.31	21.02	22.70
1			99	21.36	21.07	21.11	22.70	
50			0	21.18	21.28	21.36	22.70	
50			25	21.23	21.10	21.02	22.70	
50			50	21.50	21.33	21.21	22.70	
100	0		21.18	21.11	21.05	22.70		
64QAM	1	0	21.23	21.16	21.14	22.70		
	1	50	21.01	21.51	21.09	22.70		
	1	99	21.06	21.17	20.91	22.70		
	50	0	20.92	20.93	20.78	22.20		
	50	25	20.46	20.47	20.74	22.20		
	50	50	20.75	20.48	20.41	22.20		
	100	0	20.81	20.74	20.74	22.20		

LTE Band 66 Receiver on&Hotspot on				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				131979	132322	132665		
1.4MHz	QPSK	1	0	15.74	15.37	15.52	17.20	
		1	2	15.50	15.52	15.59	17.20	
		1	5	15.81	15.66	15.44	17.20	
		3	0	15.77	15.43	15.62	17.20	
		3	1	15.38	15.42	15.60	17.20	
		3	3	15.26	15.52	15.22	17.20	
	16QAM	6	0	15.80	15.53	15.52	17.20	
		1	0	15.70	15.42	15.51	17.20	
		1	2	15.71	15.42	15.45	17.20	
		1	5	15.64	15.49	15.38	17.20	
		3	0	15.59	15.48	15.59	17.20	
		3	1	15.29	15.50	15.43	17.20	
	64QAM	3	3	15.80	15.60	15.43	17.20	
		6	0	15.50	15.38	15.47	17.20	
		1	0	15.65	15.30	15.42	17.20	
		1	2	15.44	15.46	15.56	17.20	
		1	5	15.72	15.63	15.34	17.20	
		3	0	15.70	15.32	15.53	17.20	
	3MHz	QPSK	3	1	15.26	15.41	15.59	17.20
			3	3	15.20	15.51	15.27	17.20
			6	0	15.70	15.48	15.49	17.20
1			0	15.59	15.43	15.42	17.20	
1			7	15.54	15.37	15.48	17.20	
1			14	15.26	15.65	15.36	17.20	
16QAM		8	0	15.69	15.36	15.61	17.20	
		8	4	15.46	15.30	15.59	17.20	
		8	7	16.01	15.46	15.36	17.20	
		15	0	15.75	15.50	15.50	17.20	
		1	0	15.59	15.29	15.45	17.20	
		1	7	15.31	15.50	15.37	17.20	
64QAM	1	14	15.66	15.47	15.46	17.20		
	8	0	15.50	15.45	15.45	17.20		
	8	4	15.51	15.60	15.41	17.20		
	8	7	15.71	15.57	15.54	17.20		
	15	0	15.53	15.35	15.40	17.20		
	1	0	15.51	15.38	15.39	17.20		
5MHz	QPSK	1	7	15.51	15.31	15.47	17.20	
		1	14	15.20	15.57	15.32	17.20	
		8	0	15.65	15.31	15.59	17.20	
		8	4	15.41	15.21	15.52	17.20	
		8	7	15.90	15.40	15.32	17.20	
		15	0	15.66	15.47	15.48	17.20	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
					131997	132322	132647	
	5MHz	QPSK	1	0	15.69	15.53	15.43	17.20
			1	13	15.52	15.40	15.56	17.20

		1	24	15.20	15.60	15.36	17.20			
		12	0	15.69	15.48	15.64	17.20			
		12	6	15.41	15.31	15.51	17.20			
		12	13	16.01	15.52	15.36	17.20			
		25	0	15.63	15.46	15.47	17.20			
	16QAM	1	0	15.68	15.36	15.48	17.20			
		1	13	15.71	15.45	15.41	17.20			
		1	24	15.71	15.52	15.58	17.20			
		12	0	15.53	15.46	15.42	17.20			
		12	6	15.91	15.50	15.37	17.20			
		12	13	15.70	15.57	15.52	17.20			
	64QAM	25	0	15.52	15.37	15.50	17.20			
		1	0	15.63	15.42	15.38	17.20			
		1	13	15.43	15.39	15.50	17.20			
		1	24	15.21	15.56	15.32	17.20			
		12	0	15.67	15.37	15.54	17.20			
		12	6	15.29	15.28	15.47	17.20			
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
132022					132322	132622				
10MHz			QPSK	1	0	15.71	15.40	15.60	17.20	
				1	25	15.36	15.56	15.49	17.20	
				1	49	16.01	15.62	15.35	17.20	
				25	0	15.82	15.44	15.68	17.20	
				25	13	15.53	15.36	15.55	17.20	
				25	25	15.24	15.61	15.22	17.20	
			16QAM	50	0	15.83	15.61	15.44	17.20	
				1	0	15.59	15.47	15.60	17.20	
				1	25	15.29	15.51	15.27	17.20	
				1	49	15.78	15.39	15.45	17.20	
				25	0	15.53	15.51	15.58	17.20	
				25	13	15.51	15.50	15.40	17.20	
			64QAM	25	25	15.70	15.49	15.40	17.20	
				50	0	15.42	15.41	15.42	17.20	
				1	0	15.64	15.34	15.52	17.20	
	1	25		15.35	15.51	15.44	17.20			
	1	49		16.00	15.59	15.29	17.20			
	25	0		15.71	15.41	15.65	17.20			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up			
				132047	132322	132597				
		15MHz	QPSK	1	0	15.71	15.54	15.58	17.20	
				1	38	15.37	15.43	15.52	17.20	
				1	74	15.61	15.59	15.45	17.20	
				36	0	15.75	15.42	15.67	17.20	
				36	18	15.56	15.32	15.62	17.20	
				36	39	15.22	15.49	15.22	17.20	
			16QAM	75	0	15.80	15.65	15.45	17.20	
				1	0	15.65	15.37	15.46	17.20	
				1	38	15.29	15.56	15.38	17.20	
					1	74	15.67	15.43	15.48	17.20



		36	0	15.56	15.53	15.47	17.20
		36	18	15.26	15.64	15.28	17.20
		36	39	15.67	15.66	15.51	17.20
		75	0	15.48	15.30	15.58	17.20
	64QAM	1	0	15.66	15.52	15.51	17.20
		1	38	15.34	15.37	15.40	17.20
		1	74	15.59	15.51	15.40	17.20
		36	0	15.72	15.37	15.66	17.20
		36	18	15.50	15.21	15.56	17.20
		36	39	15.27	15.48	15.21	17.20
		75	0	15.75	15.57	15.42	17.20
		Bandwidth	Modulation	RB size	RB offset	Channel 132072	Channel 132322
20MHz	QPSK	1	0	15.72	15.45	15.60	17.20
		1	50	15.35	15.86	15.42	17.20
		1	99	15.54	15.64	15.30	17.20
		50	0	15.58	15.65	15.59	17.20
		50	25	15.37	15.29	15.60	17.20
		50	50	15.64	15.49	15.21	17.20
		100	0	15.66	15.59	15.53	17.20
	16QAM	1	0	15.65	15.39	15.47	17.20
		1	50	15.23	15.60	15.41	17.20
		1	99	15.72	15.40	15.41	17.20
		50	0	15.55	15.59	15.61	17.20
		50	25	15.54	15.46	15.33	17.20
		50	50	15.85	15.58	15.56	17.20
		100	0	15.54	15.36	15.45	17.20
	64QAM	1	0	15.70	15.42	15.56	17.20
		1	50	15.33	15.83	15.36	17.20
		1	99	15.47	15.63	15.25	17.20
		50	0	15.69	15.62	15.66	17.20
		50	25	15.29	15.23	15.53	17.20
		50	50	15.58	15.38	15.22	17.20
		100	0	15.61	15.53	15.44	17.20

6 Conducted Power of Main Antenna(Ant6)

6.1 Conducted Power of LTE

LTE Band 42 Full power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				42115	42590	43065	
5MHz	QPSK	1	0	22.05	21.51	22.00	23.00
		1	13	21.82	21.58	21.96	23.00
		1	24	21.85	21.37	21.78	23.00
		12	0	20.87	20.41	21.21	22.00
		12	6	21.03	20.55	21.18	22.00
		12	13	21.00	20.42	20.93	22.00
		25	0	20.76	20.41	21.02	22.00
	16QAM	1	0	20.82	20.41	21.15	22.00
		1	13	21.09	20.63	20.97	22.00
		1	24	20.78	20.41	20.96	22.00
		12	0	20.27	19.72	20.29	21.00
		12	6	20.17	19.66	20.17	21.00
		12	13	20.19	19.47	20.03	21.00
		25	0	20.08	19.72	20.02	21.00
	64QAM	1	0	20.01	19.39	19.97	21.00
		1	13	19.72	19.46	19.91	21.00
		1	24	19.77	19.30	19.66	21.00
		12	0	18.86	18.36	19.18	20.00
		12	6	18.99	18.53	19.08	20.00
		12	13	18.92	18.38	18.81	20.00
		25	0	18.70	18.31	19.00	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	QPSK	1	0	22.02	21.41	21.82	23.00
		1	25	22.08	21.42	22.04	23.00
		1	49	21.76	21.16	21.72	23.00
		25	0	21.02	20.48	21.03	22.00
		25	13	20.98	20.41	21.09	22.00
		25	25	20.96	20.28	20.91	22.00
		50	0	20.93	20.40	20.93	22.00
	16QAM	1	0	20.84	20.51	21.16	22.00
		1	25	21.00	20.63	21.00	22.00
		1	49	20.67	20.45	20.93	22.00
		25	0	20.02	19.51	20.11	21.00
		25	13	20.03	19.58	20.15	21.00
		25	25	20.17	19.58	20.05	21.00
		50	0	20.14	19.48	19.96	21.00
	64QAM	1	0	20.01	19.38	19.81	21.00
		1	25	20.07	19.31	19.94	21.00
		1	49	19.72	19.06	19.64	21.00
		25	0	18.91	18.42	19.01	20.00
		25	13	18.86	18.31	18.98	20.00
		25	25	18.84	18.17	18.82	20.00
		50	0	18.88	18.32	18.88	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				42165	42590	43015	

15MHz	QPSK	1	0	21.93	21.40	22.04	23.00
		1	38	22.11	21.55	21.97	23.00
		1	74	21.58	21.23	21.69	23.00
		36	0	21.04	20.35	21.24	22.00
		36	18	21.12	20.50	21.04	22.00
		36	39	20.87	20.35	21.06	22.00
		75	0	20.98	20.32	21.07	22.00
	16QAM	1	0	20.93	20.53	21.15	22.00
		1	38	20.84	20.40	21.03	22.00
		1	74	20.84	20.34	20.81	22.00
		36	0	20.27	19.65	20.36	21.00
		36	18	20.04	19.77	20.02	21.00
		36	39	20.11	19.48	20.09	21.00
		75	0	19.95	19.69	20.07	21.00
	64QAM	1	0	19.82	19.36	20.01	21.00
		1	38	20.09	19.43	19.87	21.00
		1	74	19.55	19.16	19.66	21.00
		36	0	18.97	18.32	19.13	20.00
		36	18	19.05	18.41	18.94	20.00
		36	39	18.83	18.27	19.03	20.00
		75	0	18.94	18.31	19.03	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 42190	Channel 42590	Channel 42990	Tune up
20MHz	QPSK	1	0	21.93	21.41	21.93	23.00
		1	50	22.01	21.52	22.02	23.00
		1	99	21.66	21.41	21.77	23.00
		50	0	21.14	20.35	21.14	22.00
		50	25	20.94	20.58	21.13	22.00
		50	50	20.87	20.48	21.02	22.00
		100	0	20.99	20.49	21.08	22.00
	16QAM	1	0	20.81	20.29	21.16	22.00
		1	50	21.02	20.54	21.09	22.00
		1	99	20.90	20.24	20.91	22.00
		50	0	20.19	19.61	20.11	21.00
		50	25	20.06	19.53	20.19	21.00
		50	50	20.10	19.59	19.92	21.00
		100	0	20.17	19.57	20.01	21.00
	64QAM	1	0	19.90	19.30	19.90	21.00
		1	50	19.92	19.44	19.93	21.00
		1	99	19.57	19.37	19.71	21.00
		50	0	19.05	18.33	19.03	20.00
		50	25	18.82	18.51	19.10	20.00
		50	50	18.78	18.37	18.92	20.00
		100	0	18.89	18.39	19.03	20.00

LTE Band 42 Receiver on&Sensor on&Hotspot on				Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
				42115	42590	43065			
5MHz	QPSK	1	0	18.90	18.43	18.85	20.00		
		1	13	18.95	18.51	18.98	20.00		
		1	24	18.67	18.32	18.84	20.00		
		12	0	19.01	18.51	19.05	20.00		
		12	6	18.89	18.54	19.04	20.00		
		12	13	18.62	18.38	18.88	20.00		
	16QAM	25	0	18.95	18.33	18.96	20.00		
		1	0	18.97	18.59	19.04	20.00		
		1	13	18.71	18.20	18.86	20.00		
		1	24	18.80	18.37	18.92	20.00		
		12	0	19.10	18.59	19.05	20.00		
		12	6	18.66	18.36	18.87	20.00		
	64QAM	12	13	19.03	18.32	18.97	20.00		
		25	0	18.94	18.60	19.04	20.00		
		1	0	18.80	18.33	18.75	20.00		
		1	13	18.94	18.40	18.92	20.00		
		1	24	18.64	18.23	18.82	20.00		
		12	0	18.93	18.48	19.04	20.00		
10MHz	QPSK	12	6	18.86	18.51	18.96	20.00		
		12	13	18.60	18.37	18.82	20.00		
		25	0	18.89	18.25	18.91	20.00		
		1	0	19.04	18.48	18.83	20.00		
		1	25	19.06	18.60	18.96	20.00		
		1	49	18.70	18.28	18.88	20.00		
	16QAM	25	0	18.97	18.38	18.99	20.00		
		25	13	18.91	18.64	18.88	20.00		
		25	25	18.62	18.26	18.84	20.00		
		50	0	18.99	18.30	18.96	20.00		
		1	0	18.89	18.63	19.09	20.00		
		1	25	18.59	18.22	18.72	20.00		
	64QAM	1	49	18.82	18.39	18.89	20.00		
		25	0	19.05	18.52	18.94	20.00		
		25	13	18.81	18.37	18.83	20.00		
		25	25	19.06	18.28	18.87	20.00		
		50	0	18.98	18.42	18.92	20.00		
		1	0	18.93	18.43	18.79	20.00		
15MHz	QPSK	1	25	18.94	18.59	18.88	20.00		
		1	49	18.58	18.16	18.83	20.00		
		25	0	18.88	18.34	18.92	20.00		
		25	13	18.82	18.62	18.77	20.00		
		25	25	18.61	18.16	18.78	20.00		
		50	0	18.88	18.23	18.87	20.00		
		15MHz	QPSK	1	0	18.94	18.50	18.94	20.00
				1	38	18.88	18.45	19.08	20.00
				1	74	18.73	18.35	18.92	20.00
				36	0	18.92	18.47	18.95	20.00
				1	0	19.04	18.48	18.83	20.00
				1	25	19.06	18.60	18.96	20.00
15MHz	QPSK	1	49	18.70	18.28	18.88	20.00		
		25	0	18.97	18.38	18.99	20.00		
		25	13	18.91	18.64	18.88	20.00		
		25	25	18.62	18.26	18.84	20.00		
		50	0	18.99	18.30	18.96	20.00		
		1	0	18.89	18.63	19.09	20.00		
		15MHz	QPSK	1	25	18.59	18.22	18.72	20.00
				1	49	18.82	18.39	18.89	20.00
				25	0	19.05	18.52	18.94	20.00
				25	13	18.81	18.37	18.83	20.00
				25	25	19.06	18.28	18.87	20.00
				50	0	18.98	18.42	18.92	20.00
15MHz	QPSK	1	0	18.93	18.43	18.79	20.00		
		1	25	18.94	18.59	18.88	20.00		
		1	49	18.58	18.16	18.83	20.00		
		25	0	18.88	18.34	18.92	20.00		
		25	13	18.82	18.62	18.77	20.00		
		25	25	18.61	18.16	18.78	20.00		
15MHz	QPSK	50	0	18.88	18.23	18.87	20.00		
		1	0	18.94	18.50	18.94	20.00		
		1	38	18.88	18.45	19.08	20.00		
		1	74	18.73	18.35	18.92	20.00		
		36	0	18.92	18.47	18.95	20.00		
		1	0	19.04	18.48	18.83	20.00		



	16QAM	36	18	19.02	18.49	19.02	20.00
		36	39	18.60	18.35	18.97	20.00
		75	0	18.92	18.31	18.90	20.00
		1	0	18.93	18.44	19.14	20.00
		1	38	18.75	18.29	18.75	20.00
		1	74	18.84	18.51	19.01	20.00
		36	0	19.04	18.44	19.02	20.00
		36	18	18.67	18.30	18.86	20.00
		36	39	18.94	18.31	18.97	20.00
	75	0	19.02	18.43	19.01	20.00	
	64QAM	1	0	18.92	18.39	18.88	20.00
		1	38	18.79	18.37	19.07	20.00
		1	74	18.72	18.32	18.87	20.00
		36	0	18.86	18.43	18.87	20.00
		36	18	18.91	18.41	18.91	20.00
		36	39	18.55	18.33	18.85	20.00
		75	0	18.91	18.22	18.83	20.00
	Bandwidth	Modulation	RB size	RB offset	Channel 42190	Channel 42590	Channel 42990
20MHz	QPSK	1	0	18.94	18.45	18.91	20.00
		1	50	18.96	18.81	19.09	20.00
		1	99	18.66	18.31	18.85	20.00
		50	0	18.96	18.79	19.01	20.00
		50	25	18.95	18.54	18.98	20.00
		50	50	18.67	18.30	18.87	20.00
		100	0	18.92	18.38	18.94	20.00
	16QAM	1	0	18.99	18.54	19.08	20.00
		1	50	18.68	18.24	18.82	20.00
		1	99	18.89	18.43	18.96	20.00
		50	0	19.01	18.52	18.98	20.00
		50	25	18.74	18.30	18.80	20.00
		50	50	18.97	18.37	18.96	20.00
	100	0	19.00	18.52	19.01	20.00	
	64QAM	1	0	18.88	18.40	18.83	20.00
		1	50	18.95	18.78	19.01	20.00
		1	99	18.59	18.27	18.78	20.00
		50	0	18.92	18.68	18.98	20.00
		50	25	18.89	18.50	18.94	20.00
		50	50	18.61	18.22	18.80	20.00
		100	0	18.88	18.28	18.89	20.00

7 Conducted Power of Main Antenna(Ant8)

7.1 Conducted Power of LTE

LTE Band 2 Full power				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				18607	18900	19193		
1.4MHz	QPSK	1	0	23.77	23.89	23.72	25.50	
		1	2	23.72	23.9	23.91	25.50	
		1	5	23.87	23.7	23.93	25.50	
		3	0	23.74	23.83	23.69	25.50	
		3	2	23.77	23.8	23.73	25.50	
		3	3	23.86	23.74	23.86	25.50	
	16QAM	6	0	22.81	22.78	22.79	24.50	
		1	0	22.81	22.96	23.13	24.50	
		1	2	22.85	22.58	23.12	24.50	
		1	5	23.02	22.84	23.27	24.50	
		3	0	22.86	22.88	22.85	24.50	
		3	2	22.9	22.67	22.75	24.50	
	64QAM	3	3	22.84	22.75	22.9	24.50	
		6	0	21.84	21.88	21.77	23.50	
		1	0	21.68	21.84	21.68	23.50	
		1	2	21.70	21.86	21.87	23.50	
		1	5	21.79	21.68	21.86	23.50	
		3	0	21.62	21.82	21.64	23.50	
	3MHz	QPSK	3	2	21.67	21.73	21.65	23.50
			3	3	21.77	21.62	21.75	23.50
			6	0	20.74	20.77	20.68	22.50
1			0	23.75	23.78	23.78	25.50	
1			7	23.78	23.73	23.79	25.50	
1			14	23.9	23.79	23.91	25.50	
16QAM		8	0	22.82	22.8	22.78	24.50	
		8	4	22.78	22.72	22.81	24.50	
		8	7	22.76	22.74	22.79	24.50	
		15	0	22.77	22.7	22.79	24.50	
		1	0	22.74	23.27	23.07	24.50	
		1	7	23.18	23.1	22.93	24.50	
16QAM	1	14	23.19	22.68	23.27	24.50		
	8	0	21.8	21.82	21.88	23.50		
	8	4	21.81	21.67	21.8	23.50		
	8	7	21.69	21.78	21.76	23.50		
	15	0	21.67	21.63	21.84	23.50		
	1	0	21.63	21.71	21.76	23.50		
16QAM	1	7	21.70	21.65	21.70	23.50		
	1	14	21.88	21.78	21.80	23.50		
	8	0	20.73	20.76	20.75	22.50		
	8	4	20.67	20.70	20.70	22.50		
	8	7	20.64	20.72	20.74	22.50		
	15	0	20.75	20.66	20.74	22.50		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				18625	18900	19175		

5MHz	QPSK	1	0	24.03	23.92	24.05	25.50
		1	13	23.89	23.84	24.02	25.50
		1	24	23.96	23.8	23.85	25.50
		12	0	22.8	22.83	22.83	24.50
		12	6	22.77	22.79	22.8	24.50
		12	13	22.76	22.77	22.81	24.50
		25	0	22.79	22.75	22.8	24.50
	16QAM	1	0	23.32	23.02	22.89	24.50
		1	13	22.93	22.71	23.11	24.50
		1	24	23.22	23.29	22.84	24.50
		12	0	21.76	21.81	21.83	23.50
		12	6	21.81	21.79	21.75	23.50
		12	13	21.74	21.71	21.77	23.50
		25	0	21.73	21.66	21.88	23.50
	16QAM	1	0	21.99	21.87	21.95	23.50
		1	13	21.81	21.73	21.93	23.50
		1	24	21.93	21.73	21.73	23.50
		12	0	20.73	20.76	20.72	22.50
		12	6	20.70	20.74	20.72	22.50
		12	13	20.68	20.65	20.80	22.50
		25	0	20.67	20.66	20.78	22.50
Bandwidth	Modulation	RB size	RB offset	Channel 18650	Channel 18900	Channel 19150	Tune up
10MHz	QPSK	1	0	23.79	23.85	23.71	25.50
		1	25	23.85	23.88	23.81	25.50
		1	49	23.9	23.95	23.84	25.50
		25	0	22.77	22.83	22.84	24.50
		25	13	22.8	22.78	22.82	24.50
		25	25	22.8	22.66	22.77	24.50
		50	0	22.8	22.77	22.88	24.50
	16QAM	1	0	22.67	23.02	23.18	24.50
		1	25	22.89	22.78	23.14	24.50
		1	49	23.15	22.98	23.29	24.50
		25	0	21.74	21.88	21.87	23.50
		25	13	21.77	21.8	21.8	23.50
		25	25	21.75	21.68	21.72	23.50
		50	0	21.77	21.73	21.78	23.50
	64QAM	1	0	21.72	21.80	21.69	23.50
		1	25	21.77	21.76	21.70	23.50
		1	49	21.83	21.91	21.80	23.50
		25	0	20.75	20.78	20.76	22.50
		25	13	20.70	20.77	20.71	22.50
		25	25	20.75	20.62	20.67	22.50
		50	0	20.68	20.70	20.81	22.50
Bandwidth	Modulation	RB size	RB offset	Channel 18675	Channel 18900	Channel 19125	Tune up
15MHz	QPSK	1	0	23.75	23.72	24.01	25.50
		1	38	23.68	23.99	23.6	25.50
		1	74	23.6	23.68	23.83	25.50
		36	0	22.77	22.77	22.76	24.50
		36	18	22.72	22.75	22.77	24.50
		36	39	22.77	22.74	22.81	24.50
		75	0	22.81	22.74	22.78	24.50
	16QAM	1	0	23.28	22.63	22.68	24.50

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				18700	18900	19100		
20MHz	64QAM	1	38	22.96	23.24	22.8	24.50	
		1	74	23.21	22.85	23.02	24.50	
		36	0	21.76	21.76	21.7	23.50	
		36	18	21.8	21.75	21.7	23.50	
		36	39	21.81	21.74	21.83	23.50	
		75	0	21.78	21.71	21.67	23.50	
		1	0	21.71	21.70	21.91	23.50	
	64QAM	1	38	21.66	21.88	21.59	23.50	
		1	74	21.58	21.62	21.71	23.50	
		36	0	20.65	20.68	20.70	22.50	
		36	18	20.65	20.67	20.68	22.50	
		36	39	20.71	20.69	20.79	22.50	
		75	0	20.75	20.72	20.76	22.50	
	20MHz	QPSK	1	0	23.82	23.95	23.67	25.50
			1	50	23.72	23.73	23.91	25.50
			1	99	23.74	23.71	23.75	25.50
			50	0	22.81	22.76	22.83	24.50
			50	25	22.84	22.87	22.83	24.50
			50	50	22.8	22.68	22.75	24.50
			100	0	22.81	22.67	22.77	24.50
		16QAM	1	0	22.82	22.87	23.14	24.50
1			50	22.9	23.01	22.99	24.50	
1			99	23.3	23.17	22.99	24.50	
50			0	21.84	21.72	21.81	23.50	
50			25	21.75	21.75	21.81	23.50	
50			50	21.78	21.61	21.75	23.50	
100			0	21.75	21.67	21.73	23.50	
64QAM		1	0	21.75	21.89	21.66	23.50	
		1	50	21.62	21.68	21.89	23.50	
		1	99	21.73	21.59	21.65	23.50	
		50	0	20.69	20.64	20.76	22.50	
		50	25	20.82	20.72	20.81	22.50	
		50	50	20.77	20.67	20.71	22.50	
		100	0	20.69	20.66	20.65	22.50	

LTE Band 2 Receiver on&Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18607	18900	19193	
1.4MHz	QPSK	1	0	12.8	12.74	12.79	14.50
		1	2	12.89	12.92	12.8	14.50
		1	5	12.78	12.79	12.84	14.50
		3	0	12.82	12.86	12.95	14.50
		3	2	12.96	12.8	12.91	14.50
		3	3	13	12.74	12.72	14.50
		6	0	12.83	12.76	12.85	14.50
	16QAM	1	0	13.13	13.11	13.12	14.50
		1	2	13.07	13.05	13.13	14.50
		1	5	12.92	12.9	13.14	14.50
		3	0	12.93	12.79	12.98	14.50
		3	2	12.97	12.89	12.84	14.50

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18615	18900	19185	
	64QAM	3	3	12.81	12.85	12.69	14.50
		6	0	12.89	12.73	12.81	14.50
		1	0	12.79	12.70	12.69	14.50
		1	2	12.88	12.89	12.76	14.50
		1	5	12.70	12.71	12.83	14.50
		3	0	12.75	12.76	12.89	14.50
		3	2	12.90	12.79	12.88	14.50
		3	3	12.93	12.63	12.65	14.50
		6	0	12.76	12.69	12.74	14.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
3MHz	QPSK	1	0	12.88	12.66	12.69	14.50
		1	7	12.74	12.78	12.86	14.50
		1	14	12.79	12.73	12.78	14.50
		8	0	12.98	12.82	12.86	14.50
		8	4	12.89	12.9	12.97	14.50
		8	7	13	12.78	12.86	14.50
		15	0	12.89	12.8	12.91	14.50
	16QAM	1	0	13.09	13.15	13.06	14.50
		1	7	13.06	13.09	13.05	14.50
		1	14	12.93	12.99	13.12	14.50
		8	0	12.98	12.91	12.8	14.50
		8	4	12.89	12.87	12.89	14.50
		8	7	12.85	12.73	12.69	14.50
	16QAM	15	0	12.9	12.66	12.75	14.50
		1	0	12.85	12.55	12.59	14.50
		1	7	12.73	12.77	12.78	14.50
		1	14	12.68	12.67	12.74	14.50
		8	0	12.86	12.75	12.79	14.50
		8	4	12.88	12.79	12.95	14.50
		8	7	12.97	12.74	12.81	14.50
		15	0	12.78	12.75	12.88	14.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
5MHz	QPSK	1	0	12.79	12.64	12.66	14.50
		1	13	12.9	12.82	12.77	14.50
		1	24	12.76	12.83	12.74	14.50
		12	0	12.93	12.83	12.95	14.50
		12	6	12.98	12.93	12.77	14.50
		12	13	12.98	12.79	12.75	14.50
		25	0	12.89	12.82	12.93	14.50
	16QAM	1	0	12.98	13.04	13.08	14.50
		1	13	13.21	13.03	13.13	14.50
		1	24	12.96	12.88	13.16	14.50
		12	0	12.96	12.76	12.86	14.50
		12	6	12.8	12.9	12.78	14.50
		12	13	12.93	12.73	12.6	14.50
		25	0	12.93	12.79	12.76	14.50
	16QAM	1	0	12.70	12.53	12.58	14.50
		1	13	12.86	12.78	12.72	14.50
		1	24	12.67	12.79	12.64	14.50
		12	0	12.84	12.76	12.87	14.50
		12	6	12.95	12.90	12.70	14.50
		12	13	12.96	12.69	12.68	14.50

Bandwidth	Modulation	25	0	12.83	12.80	12.89	14.50
		RB size	RB offset	Channel 18650	Channel 18900	Channel 19150	Tune up
10MHz	QPSK	1	0	12.73	12.84	12.74	14.50
		1	25	12.94	12.86	12.8	14.50
		1	49	12.75	12.68	12.82	14.50
		25	0	12.87	12.82	12.96	14.50
		25	13	12.89	12.78	12.94	14.50
		25	25	12.95	12.76	12.72	14.50
		50	0	12.8	12.78	12.92	14.50
	16QAM	1	0	13.08	13.03	13.02	14.50
		1	25	13.06	13.02	13.02	14.50
		1	49	13.07	12.93	13.04	14.50
		25	0	12.92	12.86	12.82	14.50
		25	13	12.8	12.87	12.87	14.50
		25	25	12.86	12.85	12.72	14.50
		50	0	12.79	12.68	12.92	14.50
	64QAM	1	0	12.71	12.78	12.64	14.50
		1	25	12.83	12.83	12.77	14.50
		1	49	12.65	12.61	12.79	14.50
		25	0	12.80	12.76	12.91	14.50
		25	13	12.83	12.74	12.88	14.50
		25	25	12.88	12.75	12.60	14.50
		50	0	12.73	12.66	12.90	14.50
Bandwidth	Modulation	RB size	RB offset	Channel 18675	Channel 18900	Channel 19125	Tune up
15MHz	QPSK	1	0	12.74	12.77	12.67	14.50
		1	38	12.79	12.8	12.77	14.50
		1	74	12.72	12.72	12.8	14.50
		36	0	12.84	12.78	12.81	14.50
		36	18	12.8	12.79	12.8	14.50
		36	39	12.83	12.71	12.76	14.50
		75	0	12.85	12.78	12.82	14.50
	16QAM	1	0	13.04	13.01	12.98	14.50
		1	38	13.07	13.01	13.02	14.50
		1	74	12.95	13	13.04	14.50
		36	0	12.82	12.78	12.8	14.50
		36	18	12.81	12.79	12.79	14.50
		36	39	12.83	12.76	12.82	14.50
		75	0	12.84	12.77	12.84	14.50
	64QAM	1	0	12.73	12.69	12.55	14.50
		1	38	12.76	12.74	12.70	14.50
		1	74	12.65	12.65	12.68	14.50
		36	0	12.77	12.77	12.73	14.50
		36	18	12.79	12.67	12.78	14.50
		36	39	12.79	12.59	12.75	14.50
		75	0	12.75	12.67	12.80	14.50
Bandwidth	Modulation	RB size	RB offset	Channel 18700	Channel 18900	Channel 19100	Tune up
20MHz	QPSK	1	0	12.81	12.74	12.69	14.50
		1	50	12.83	12.83	12.8	14.50
		1	99	12.74	12.74	12.79	14.50
		50	0	12.89	12.93	12.88	14.50
		50	25	12.89	12.84	12.87	14.50

		50	50	12.92	12.77	12.79	14.50
		100	0	12.88	12.76	12.84	14.50
	16QAM	1	0	13.03	13.07	13.02	14.50
		1	50	13.13	13.09	13.05	14.50
		1	99	12.98	12.95	13.13	14.50
		50	0	12.88	12.82	12.88	14.50
		50	25	12.87	12.82	12.85	14.50
		50	50	12.9	12.78	12.7	14.50
		100	0	12.89	12.76	12.84	14.50
		64QAM	1	0	12.80	12.73	12.60
	1		50	12.81	12.77	12.74	14.50
	1		99	12.63	12.62	12.70	14.50
	50		0	12.85	12.79	12.81	14.50
	50		25	12.81	12.76	12.84	14.50
	50		50	12.80	12.72	12.75	14.50
	100		0	12.84	12.74	12.72	14.50

LTE Band 4 Full power				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				19957	20175	20393		
1.4MHz	QPSK	1	0	23.89	23.79	23.9	25.50	
		1	2	23.9	23.92	23.77	25.50	
		1	5	23.92	23.82	23.93	25.50	
		3	0	23.81	23.85	23.79	25.50	
		3	2	24.01	23.91	23.7	25.50	
		3	3	24.04	23.78	23.67	25.50	
		6	0	22.89	22.76	22.81	24.50	
	16QAM	1	0	22.99	22.79	22.91	24.50	
		1	2	23.24	23.34	23.25	24.50	
		1	5	22.99	23.2	22.71	24.50	
		3	0	22.98	22.83	22.79	24.50	
		3	2	23	22.94	22.64	24.50	
		3	3	22.98	22.81	22.72	24.50	
		6	0	22.22	22.02	21.96	23.50	
	64QAM	1	0	21.87	21.76	21.81	23.50	
		1	2	21.84	21.86	21.69	23.50	
		1	5	21.88	21.72	21.91	23.50	
		3	0	21.80	21.82	21.69	23.50	
		3	2	21.89	21.85	21.69	23.50	
		3	3	21.97	21.76	21.61	23.50	
		6	0	20.87	20.70	20.76	22.50	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
	3MHz	QPSK	1	0	23.94	23.94	23.9	
			1	7	24.03	23.96	23.88	25.50
1			14	23.97	23.79	23.74	25.50	
8			0	22.94	22.81	22.84	24.50	
8			4	22.88	22.81	22.8	24.50	
8			7	22.91	22.81	22.74	24.50	
15			0	22.87	22.86	22.75	24.50	
16QAM		1	0	23.36	22.95	22.84	24.50	
		1	7	22.87	22.88	23.18	24.50	

		1	14	23.26	23.02	22.87	24.50	
		8	0	22.2	22.07	21.94	23.50	
		8	4	22.24	22.1	22.02	23.50	
		8	7	22.12	21.99	21.9	23.50	
		15	0	22.19	22.07	21.9	23.50	
	64QAM	1	0	21.92	21.92	21.80	23.50	
		1	7	21.98	21.87	21.80	23.50	
		1	14	21.87	21.68	21.72	23.50	
		8	0	20.87	20.78	20.76	22.50	
		8	4	20.81	20.77	20.68	22.50	
		8	7	20.86	20.69	20.69	22.50	
	5MHz	QPSK	1	0	24.21	23.93	23.81	25.50
			1	13	23.93	23.87	23.9	25.50
			1	24	24.13	23.93	24.03	25.50
			12	0	22.96	22.81	22.82	24.50
12			6	22.9	22.89	22.84	24.50	
12			13	22.85	22.86	22.75	24.50	
25			0	22.94	22.88	22.82	24.50	
16QAM		1	0	23.05	23.18	22.83	24.50	
		1	13	23.13	23.32	23.07	24.50	
		1	24	23.23	23.33	23.01	24.50	
		12	0	22.12	22.01	22.07	23.50	
		12	6	22.09	22.1	21.98	23.50	
		12	13	22.07	22.08	21.86	23.50	
		25	0	22.21	22.01	22.05	23.50	
64QAM		1	0	22.10	21.88	21.74	23.50	
	1	13	21.92	21.83	21.83	23.50		
	1	24	22.07	21.81	21.92	23.50		
	12	0	20.92	20.72	20.77	22.50		
	12	6	20.83	20.86	20.82	22.50		
	12	13	20.75	20.75	20.71	22.50		
	25	0	20.82	20.84	20.71	22.50		
Bandwidth	Modulation	RB size	RB offset	Channel 19975	Channel 20175	Channel 20375	Tune up	
10MHz	QPSK	1	0	24.05	23.87	23.82	25.50	
		1	25	23.95	23.89	23.9	25.50	
		1	49	24	24	23.79	25.50	
		25	0	22.9	22.83	22.77	24.50	
		25	13	22.91	22.84	22.78	24.50	
		25	25	22.85	22.87	22.77	24.50	
		50	0	22.86	22.87	22.8	24.50	
	16QAM	1	0	23.11	23.29	23.24	24.50	
		1	25	23.32	22.94	22.99	24.50	
		1	49	22.96	23.29	23.18	24.50	
		25	0	22.08	22.08	22	23.50	
		25	13	22.09	22.09	21.98	23.50	
		25	25	22.09	22.17	21.98	23.50	
		50	0	22.11	22.06	21.94	23.50	
	64QAM	1	0	21.98	21.79	21.81	23.50	
1		25	21.85	21.80	21.85	23.50		
1		49	21.89	21.88	21.68	23.50		
Bandwidth	Modulation	RB size	RB offset	Channel 20000	Channel 20175	Channel 20350	Tune up	



Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				20025	20175	20325		
		25	0	20.89	20.71	20.65	22.50	
		25	13	20.84	20.76	20.77	22.50	
		25	25	20.74	20.82	20.68	22.50	
		50	0	20.83	20.80	20.68	22.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
15MHz	QPSK	1	0	24.1	23.74	23.67	25.50	
		1	38	23.83	23.96	23.91	25.50	
		1	74	24.06	23.93	23.86	25.50	
		36	0	22.86	22.81	22.77	24.50	
		36	18	22.87	22.83	22.72	24.50	
		36	39	22.78	22.83	22.75	24.50	
		75	0	22.78	22.9	22.77	24.50	
	16QAM	1	0	23.24	22.76	23.2	24.50	
		1	38	22.84	23.18	22.78	24.50	
		1	74	22.98	23.18	22.87	24.50	
		36	0	22.05	21.99	21.97	23.50	
		36	18	22.02	22.03	21.94	23.50	
		36	39	21.97	22.04	21.9	23.50	
		75	0	22.02	21.99	21.96	23.50	
	64QAM	1	0	22.02	21.69	21.60	23.50	
		1	38	21.71	21.93	21.83	23.50	
		1	74	21.94	21.89	21.77	23.50	
		36	0	20.83	20.80	20.74	22.50	
		36	18	20.75	20.73	20.63	22.50	
		36	39	20.74	20.73	20.64	22.50	
		75	0	20.69	20.87	20.68	22.50	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
	20MHz	QPSK	1	0	23.94	23.78	23.81	25.50
			1	50	23.94	23.95	23.81	25.50
1			99	23.87	23.75	23.7	25.50	
50			0	22.89	22.93	22.75	24.50	
50			25	22.89	22.84	22.78	24.50	
50			50	22.81	22.92	22.78	24.50	
100			0	22.88	22.87	22.75	24.50	
16QAM		1	0	23.18	23.06	23.27	24.50	
		1	50	23.25	22.86	22.73	24.50	
		1	99	22.6	22.99	23.14	24.50	
		50	0	22.11	22.04	21.97	23.50	
		50	25	22.07	22.05	21.99	23.50	
		50	50	21.95	22.09	21.94	23.50	
		100	0	21.97	22.02	21.91	23.50	
64QAM		1	0	22.06	21.75	21.76	23.50	
		1	50	21.89	21.82	21.76	23.50	
		1	99	21.77	21.69	21.64	23.50	
		50	0	20.83	20.72	20.67	22.50	
		50	25	20.80	20.73	20.71	22.50	
		50	50	20.70	20.91	20.66	22.50	
		100	0	20.87	20.82	20.68	22.50	

LTE Band 4 Receiver on&Hotspot on				Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
				19957	20175	20393			
1.4MHz	QPSK	1	0	16.97	16.81	17	18.50		
		1	2	16.88	17.06	16.86	18.50		
		1	5	16.86	16.84	16.84	18.50		
		3	0	17.07	16.96	16.94	18.50		
		3	2	17.14	17.08	17.04	18.50		
		3	3	16.84	17.08	16.95	18.50		
	16QAM	6	0	17.04	17.04	16.97	18.50		
		1	0	17.22	17.07	17.18	18.50		
		1	2	17.29	17.36	17.18	18.50		
		1	5	17.08	17.01	17	18.50		
		3	0	16.92	16.93	16.85	18.50		
		3	2	17.05	16.91	16.98	18.50		
	64QAM	3	3	17	17.14	16.79	18.50		
		6	0	17.02	17.04	16.92	18.50		
		1	0	16.93	16.77	16.99	18.50		
		1	2	16.77	16.98	16.77	18.50		
		1	5	16.80	16.74	16.83	18.50		
		3	0	17.00	16.95	16.83	18.50		
	3MHz	QPSK	3	2	17.06	17.00	17.03	18.50	
			3	3	16.83	16.98	16.85	18.50	
			6	0	17.01	17.00	16.92	18.50	
1			0	16.87	16.95	16.9	18.50		
1			7	17.05	17	16.86	18.50		
1			14	16.86	16.92	16.79	18.50		
16QAM		8	0	17.08	16.97	16.99	18.50		
		8	4	17.12	17.02	16.87	18.50		
		8	7	16.96	17.08	16.97	18.50		
		15	0	16.94	16.99	16.83	18.50		
		1	0	17.23	17.23	17.11	18.50		
		1	7	17.18	17.36	17.16	18.50		
64QAM	1	14	17.18	17.13	17.16	18.50			
	8	0	16.88	17.11	16.81	18.50			
	8	4	17.03	17.08	16.83	18.50			
	8	7	16.86	17.14	16.8	18.50			
	15	0	17.07	17.04	16.96	18.50			
	1	0	16.78	16.84	16.82	18.50			
5MHz	QPSK	1	7	16.95	16.98	16.84	18.50		
		1	14	16.85	16.82	16.72	18.50		
		8	0	17.00	16.87	16.93	18.50		
		8	4	17.00	16.96	16.83	18.50		
		8	7	16.94	17.03	16.90	18.50		
		15	0	16.89	16.90	16.81	18.50		
	QPSK	1	0	17	16.81	16.99	18.50		
		1	13	17.08	16.98	16.9	18.50		
		1	24	16.82	16.91	16.91	18.50		
		12	0	17	16.95	16.81	18.50		
		Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
						19975	20175	20375	

	16QAM	12	6	17.09	17.01	16.9	18.50
		12	13	16.83	17.03	16.89	18.50
		25	0	16.87	17.08	16.88	18.50
		1	0	17.18	17.26	17.17	18.50
		1	13	17.33	17.28	17.13	18.50
		1	24	17.18	17.19	17.17	18.50
		12	0	16.91	16.94	16.94	18.50
		12	6	17.05	16.97	16.97	18.50
		12	13	16.94	16.97	16.98	18.50
	25	0	17	17.02	16.88	18.50	
	64QAM	1	0	16.91	16.73	16.94	18.50
		1	13	16.97	16.93	16.78	18.50
		1	24	16.75	16.80	16.79	18.50
		12	0	16.89	16.92	16.70	18.50
		12	6	17.04	16.93	16.78	18.50
		12	13	16.82	17.00	16.82	18.50
		25	0	16.77	16.97	16.87	18.50
	Bandwidth	Modulation	RB size	RB offset	Channel 20000	Channel 20175	Channel 20350
10MHz	QPSK	1	0	17.02	16.86	17.03	18.50
		1	25	16.92	17.07	17.02	18.50
		1	49	16.85	16.81	16.85	18.50
		25	0	16.89	17.04	16.89	18.50
		25	13	17.08	16.95	16.96	18.50
		25	25	17	17	16.93	18.50
		50	0	16.98	17.1	16.92	18.50
	16QAM	1	0	17.1	17.23	17.26	18.50
		1	25	17.26	17.37	17.17	18.50
		1	49	17.04	17.08	17.17	18.50
		25	0	17.05	17.05	16.95	18.50
		25	13	17.04	17	16.89	18.50
		25	25	16.84	17.08	16.93	18.50
		50	0	17.03	16.94	16.86	18.50
	64QAM	1	0	16.94	16.80	16.99	18.50
		1	25	16.89	17.06	16.96	18.50
		1	49	16.83	16.73	16.75	18.50
		25	0	16.78	16.94	16.88	18.50
		25	13	17.06	16.94	16.86	18.50
		25	25	16.88	16.95	16.82	18.50
		50	0	16.86	17.06	16.81	18.50
Bandwidth	Modulation	RB size	RB offset	Channel 20025	Channel 20175	Channel 20325	Tune up
15MHz	QPSK	1	0	16.94	16.9	16.91	18.50
		1	38	16.93	16.99	16.88	18.50
		1	74	16.86	16.83	16.82	18.50
		36	0	16.9	16.9	16.83	18.50
		36	18	16.95	16.95	16.88	18.50
		36	39	16.85	16.91	16.87	18.50
		75	0	16.92	16.92	16.87	18.50
	16QAM	1	0	17.21	17.11	17.16	18.50
		1	38	17.12	17.26	17.09	18.50
		1	74	17.01	17.12	17.03	18.50
		36	0	16.92	16.95	16.88	18.50
		36	18	16.96	16.98	16.91	18.50

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				20050	20175	20300		
20MHz	64QAM	36	39	16.87	16.96	16.89	18.50	
		75	0	16.91	16.92	16.86	18.50	
		1	0	16.93	16.78	16.82	18.50	
		1	38	16.91	16.90	16.80	18.50	
		1	74	16.81	16.72	16.71	18.50	
		36	0	16.85	16.85	16.78	18.50	
		36	18	16.90	16.89	16.85	18.50	
		36	39	16.77	16.83	16.82	18.50	
		75	0	16.87	16.88	16.84	18.50	
	QPSK	1	0	16.96	16.87	16.94	18.50	
			50	16.98	17.01	16.92	18.50	
			99	16.83	16.84	16.81	18.50	
			0	16.99	17.09	16.89	18.50	
			25	17.04	17.02	16.94	18.50	
			50	16.92	17.05	16.88	18.50	
		50	0	16.97	17.03	16.89	18.50	
			0	17.17	17.17	17.21	18.50	
			50	17.20	17.20	17.14	18.50	
			99	17.12	17.10	17.10	18.50	
			0	16.98	17.03	16.89	18.50	
25			17.03	16.99	16.92	18.50		
50		50	16.90	17.04	16.89	18.50		
		0	16.97	17.00	16.88	18.50		
		64QAM	1	0	16.93	16.75	16.91	18.50
			1	50	16.86	16.92	16.90	18.50
			1	99	16.76	16.77	16.77	18.50
			50	0	16.93	16.97	16.78	18.50
50	25		16.92	16.99	16.92	18.50		
50	50		16.91	17.00	16.78	18.50		
100	0	16.91	16.99	16.80	18.50			

LTE Band 7 Full power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20775	21100	21425	
5MHz	QPSK	1	0	19.85	19.65	19.72	21.50
		1	13	19.86	19.88	19.94	21.50
		1	24	19.91	19.97	19.78	21.50
		12	0	19.89	19.98	19.98	21.50
		12	6	19.89	20.08	19.79	21.50
		12	13	20.1	19.95	19.85	21.50
		25	0	19.94	20.08	19.78	21.50
	16QAM	1	0	19.86	19.92	20.05	21.50
		1	13	20.19	20.07	19.95	21.50
		1	24	20.09	20.08	20.18	21.50
		12	0	19.83	19.98	19.99	21.50
		12	6	20.03	19.86	19.77	21.50
		12	13	20.14	20.11	19.77	21.50
		25	0	19.91	19.91	19.92	21.50
	64QAM	1	0	19.75	19.59	19.66	21.50
		1	13	19.78	19.78	19.87	21.50



		1	24	19.82	19.94	19.66	21.50	
		12	0	19.86	19.91	19.94	21.50	
		12	6	19.82	19.99	19.74	21.50	
		12	13	20.03	19.94	19.74	21.50	
		25	0	19.82	20.04	19.74	21.50	
Bandwidth	Modulation	RB size	RB offset	Channel 20800	Channel 21100	Channel 21400	Tune up	
10MHz	QPSK	1	0	19.74	19.71	19.78	21.50	
		1	25	19.86	19.83	19.95	21.50	
		1	49	19.87	19.99	19.93	21.50	
		25	0	19.9	20.02	19.98	21.50	
		25	13	19.96	20.06	19.95	21.50	
		25	25	19.99	20.01	19.78	21.50	
	16QAM	50	0	19.94	19.98	19.81	21.50	
		1	0	19.88	19.95	19.92	21.50	
		1	25	20.19	20.07	20.02	21.50	
		1	49	20.2	20.16	20.06	21.50	
		25	0	19.85	19.93	20	21.50	
		25	13	20.03	19.9	19.88	21.50	
	64QAM	25	25	20.09	20.09	19.85	21.50	
		50	0	20.03	20.08	19.83	21.50	
		1	0	19.73	19.70	19.74	21.50	
		1	25	19.79	19.82	19.86	21.50	
		1	49	19.75	19.92	19.89	21.50	
		25	0	19.82	19.99	19.87	21.50	
	15MHz	QPSK	25	13	19.93	19.97	19.85	21.50
			25	25	19.89	19.99	19.66	21.50
			50	0	19.86	19.88	19.80	21.50
1			0	19.67	19.69	19.71	21.50	
1			38	19.93	19.8	19.85	21.50	
1			74	19.91	19.91	19.86	21.50	
16QAM		36	0	19.9	20.08	20.08	21.50	
		36	18	19.92	20.04	19.84	21.50	
		36	39	20.1	20.07	19.85	21.50	
		75	0	20.08	20.07	19.91	21.50	
		1	0	19.88	19.85	20	21.50	
		1	38	20.15	20.14	20.08	21.50	
64QAM		1	74	20.16	20.17	20.05	21.50	
		36	0	19.89	20.06	20.06	21.50	
		36	18	19.93	20.01	19.96	21.50	
		36	39	20.14	20.02	19.76	21.50	
		75	0	20	19.93	19.85	21.50	
		1	0	19.55	19.61	19.67	21.50	
20MHz		QPSK	1	38	19.91	19.77	19.79	21.50
			1	74	19.89	19.88	19.74	21.50
			36	0	19.85	20.00	20.01	21.50
	36		18	19.81	19.99	19.81	21.50	
	36		39	20.00	19.97	19.79	21.50	
	75		0	20.01	19.97	19.90	21.50	
	Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350	Tune up
	20MHz	QPSK	1	0	19.75	19.72	19.78	21.50



		1	50	19.91	19.88	19.86	21.50
		1	99	19.89	19.89	19.93	21.50
		50	0	19.85	19.98	20.35	21.50
		50	25	19.93	19.98	19.87	21.50
		50	50	20.07	19.99	19.81	21.50
		100	0	19.98	20.03	19.82	21.50
	16QAM	1	0	19.89	19.93	20.02	21.50
		1	50	20.15	20.15	20.04	21.50
		1	99	20.11	20.15	20.09	21.50
		50	0	19.85	20.02	20.05	21.50
		50	25	19.93	19.96	19.87	21.50
		50	50	20.07	20.05	19.84	21.50
	64QAM	100	0	19.97	20	19.85	21.50
		1	0	19.73	19.66	19.68	21.50
		1	50	19.82	19.83	19.79	21.50
		1	99	19.87	19.84	19.87	21.50
		50	0	19.80	19.91	20.24	21.50
		50	25	19.86	19.89	19.86	21.50
		50	50	20.00	19.92	19.69	21.50
		100	0	19.88	19.92	19.75	21.50

LTE Band 7 Receiver on&Hotspot on				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				20775	21100	21425		
5MHz	QPSK	1	0	12.27	12.08	12.19	14.00	
		1	13	12.38	12.42	12.41	14.00	
		1	24	12.33	12.25	12.33	14.00	
		12	0	12.22	12.3	12.45	14.00	
		12	6	12.35	12.45	12.35	14.00	
		12	13	12.54	12.37	12.41	14.00	
		25	0	12.31	12.34	12.38	14.00	
	16QAM	1	0	12.29	12.24	12.38	14.00	
		1	13	12.52	12.46	12.61	14.00	
		1	24	12.62	12.54	12.68	14.00	
		12	0	12.28	12.36	12.56	14.00	
		12	6	12.4	12.37	12.48	14.00	
		12	13	12.38	12.35	12.23	14.00	
		25	0	12.26	12.39	12.37	14.00	
	64QAM	1	0	12.15	12.08	12.13	14.00	
		1	13	12.35	12.37	12.31	14.00	
		1	24	12.23	12.15	12.23	14.00	
		12	0	12.21	12.19	12.42	14.00	
		12	6	12.32	12.43	12.33	14.00	
		12	13	12.48	12.34	12.38	14.00	
		25	0	12.21	12.29	12.36	14.00	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
					20800	21100	21400	
	10MHz	QPSK	1	0	12.14	12.01	12.11	14.00
1			25	12.26	12.39	12.33	14.00	
1			49	12.27	12.37	12.49	14.00	
25			0	12.24	12.3	12.37	14.00	
25			13	12.37	12.48	12.43	14.00	

	16QAM	25	25	12.49	12.48	12.23	14.00	
		50	0	12.23	12.32	12.4	14.00	
		1	0	12.47	12.29	12.37	14.00	
		1	25	12.48	12.49	12.54	14.00	
		1	49	12.63	12.59	12.67	14.00	
		25	0	12.2	12.36	12.42	14.00	
		25	13	12.41	12.33	12.48	14.00	
		25	25	12.51	12.41	12.25	14.00	
	64QAM	50	0	12.45	12.42	12.29	14.00	
		1	0	12.13	12.02	12.01	14.00	
		1	25	12.14	12.32	12.31	14.00	
		1	49	12.21	12.33	12.41	14.00	
		25	0	12.12	12.24	12.31	14.00	
		25	13	12.25	12.46	12.38	14.00	
15MHz	QPSK	25	25	12.38	12.37	12.12	14.00	
		50	0	12.22	12.22	12.28	14.00	
		1	0	12.16	12.2	12.25	14.00	
		1	38	12.31	12.33	12.33	14.00	
		1	74	12.33	12.3	12.33	14.00	
		36	0	12.19	12.27	12.27	14.00	
		36	18	12.25	12.26	12.31	14.00	
	16QAM	36	39	12.38	12.34	12.35	14.00	
		75	0	12.34	12.29	12.34	14.00	
		1	0	12.39	12.41	12.5	14.00	
		1	38	12.57	12.54	12.57	14.00	
		1	74	12.54	12.6	12.65	14.00	
		36	0	12.2	12.33	12.28	14.00	
		36	18	12.28	12.28	12.33	14.00	
64QAM	36	39	12.41	12.33	12.4	14.00		
	75	0	12.32	12.34	12.36	14.00		
	1	0	12.07	12.17	12.21	14.00		
	1	38	12.28	12.25	12.24	14.00		
	1	74	12.29	12.24	12.29	14.00		
	36	0	12.11	12.23	12.18	14.00		
	36	18	12.14	12.25	12.26	14.00		
20MHz	QPSK	36	39	12.31	12.29	12.26	14.00	
		75	0	12.33	12.23	12.27	14.00	
		1	0	12.17	12.11	12.17	14.00	
		1	50	12.28	12.35	12.35	14.00	
		1	99	12.31	12.33	12.39	14.00	
		50	0	12.17	12.39	12.46	14.00	
		50	25	12.35	12.40	12.38	14.00	
	16QAM	50	50	12.46	12.45	12.33	14.00	
		100	0	12.31	12.42	12.36	14.00	
		1	0	12.39	12.32	12.36	14.00	
		1	50	12.58	12.54	12.55	14.00	
		1	99	12.53	12.62	12.62	14.00	
		50	0	12.22	12.41	12.47	14.00	
		50	25	12.33	12.36	12.39	14.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				20825	21100	21375		
	20MHz	QPSK	1	0	12.17	12.11	12.17	14.00
			1	50	12.28	12.35	12.35	14.00
			1	99	12.31	12.33	12.39	14.00
			50	0	12.17	12.39	12.46	14.00
			50	25	12.35	12.40	12.38	14.00
			50	50	12.46	12.45	12.33	14.00
			100	0	12.31	12.42	12.36	14.00
		16QAM	1	0	12.39	12.32	12.36	14.00
			1	50	12.58	12.54	12.55	14.00
			1	99	12.53	12.62	12.62	14.00
			50	0	12.22	12.41	12.47	14.00
			50	25	12.33	12.36	12.39	14.00
50			50	12.47	12.4	12.33	14.00	

		100	0	12.35	12.42	12.37	14.00
	64QAM	1	0	12.14	12.10	12.15	14.00
		1	50	12.25	12.26	12.33	14.00
		1	99	12.26	12.32	12.30	14.00
		50	0	12.09	12.35	12.39	14.00
		50	25	12.32	12.31	12.26	14.00
		50	50	12.45	12.33	12.31	14.00
		100	0	12.24	12.31	12.32	14.00

LTE Band 38 Full power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37775	38000	38225	
5MHz	QPSK	1	0	22.86	22.82	22.85	24.50
		1	13	23.01	22.98	22.99	24.50
		1	24	22.87	22.84	22.88	24.50
		12	0	22.86	22.95	22.95	24.50
		12	6	23.02	23.01	22.95	24.50
		12	13	22.97	22.93	22.92	24.50
		25	0	22.94	22.96	22.85	24.50
	16QAM	1	0	22.88	22.85	22.8	24.50
		1	13	22.98	22.95	22.94	24.50
		1	24	22.88	22.81	22.82	24.50
		12	0	21.87	21.88	22	23.50
		12	6	21.94	21.96	21.93	23.50
		12	13	21.98	21.97	21.85	23.50
		25	0	21.93	21.95	21.87	23.50
	64QAM	1	0	21.77	21.81	21.74	23.50
		1	13	21.76	21.86	21.71	23.50
		1	24	21.82	21.72	21.82	23.50
		12	0	20.66	20.76	20.64	22.50
		12	6	20.68	20.71	20.71	22.50
		12	13	20.71	20.83	20.66	22.50
		25	0	20.73	20.67	20.73	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	QPSK	1	0	22.78	22.77	22.81	24.50
		1	25	22.99	22.99	22.98	24.50
		1	49	22.87	22.79	22.83	24.50
		25	0	22.9	22.89	22.98	24.50
		25	13	23.02	23.01	22.96	24.50
		25	25	22.95	23	22.88	24.50
		50	0	22.89	22.91	22.86	24.50
	16QAM	1	0	22.83	22.77	22.83	24.50
		1	25	22.98	22.95	22.84	24.50
		1	49	22.87	22.77	22.75	24.50
		25	0	21.82	21.89	21.95	23.50
		25	13	21.92	21.92	21.92	23.50
		25	25	22	21.99	21.93	23.50
		50	0	21.92	21.94	21.9	23.50
	64QAM	1	0	21.85	21.84	21.78	23.50
		1	25	21.75	21.82	21.82	23.50
		1	49	21.84	21.70	21.77	23.50



Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				37825	38000	38175		
		25	0	20.62	20.66	20.73	22.50	
		25	13	20.74	20.65	20.71	22.50	
		25	25	20.80	20.71	20.68	22.50	
		50	0	20.75	20.77	20.68	22.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
15MHz	QPSK	1	0	22.85	22.85	22.84	24.50	
		1	38	23	23.01	22.99	24.50	
		1	74	22.87	22.84	22.88	24.50	
		36	0	22.9	22.94	22.89	24.50	
		36	18	23	23.03	23.02	24.50	
		36	39	23.04	22.93	22.92	24.50	
		75	0	22.95	22.91	22.91	24.50	
	16QAM	1	0	22.81	22.77	22.85	24.50	
		1	38	22.97	22.9	22.87	24.50	
		1	74	22.79	22.77	22.79	24.50	
		36	0	21.83	21.95	21.93	23.50	
		36	18	21.92	21.96	21.98	23.50	
		36	39	22.06	21.91	21.91	23.50	
		75	0	21.97	21.99	21.93	23.50	
	64QAM	1	0	21.77	21.81	21.73	23.50	
		1	38	21.86	21.81	21.82	23.50	
		1	74	21.82	21.71	21.71	23.50	
		36	0	20.70	20.74	20.69	22.50	
		36	18	20.69	20.62	20.74	22.50	
		36	39	20.73	20.71	20.66	22.50	
		75	0	20.74	20.71	20.64	22.50	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
	20MHz	QPSK	1	0	22.82	22.80	22.83	24.50
			1	50	22.96	22.98	23.01	24.50
1			99	22.85	22.84	23.05	24.50	
50			0	22.88	22.94	23.02	24.50	
50			25	22.97	22.98	22.98	24.50	
50			50	23.00	22.96	22.89	24.50	
100			0	22.93	22.93	22.90	24.50	
16QAM		1	0	22.83	22.81	22.83	24.50	
		1	50	22.96	22.94	22.89	24.50	
		1	99	22.84	22.82	22.77	24.50	
		50	0	21.86	21.92	21.97	23.50	
		50	25	21.97	21.97	21.97	23.50	
		50	50	22.01	21.95	21.9	23.50	
		100	0	21.96	21.94	21.9	23.50	
64QAM		1	0	21.67	21.64	21.61	23.50	
		1	50	21.75	21.76	21.69	23.50	
		1	99	21.83	21.72	21.70	23.50	
		50	0	20.66	20.65	20.66	22.50	
		50	25	20.76	20.73	20.77	22.50	
		50	50	20.81	20.76	20.69	22.50	
		100	0	20.78	20.63	20.73	22.50	

LTE Band 38 Receiver on&Hotspot on				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				37775	38000	38225		
5MHz	QPSK	1	0	15.31	15.43	15.33	17.00	
		1	13	15.52	15.52	15.54	17.00	
		1	24	15.27	15.41	15.33	17.00	
		12	0	15.4	15.52	15.35	17.00	
		12	6	15.53	15.55	15.5	17.00	
		12	13	15.56	15.5	15.39	17.00	
	16QAM	25	0	15.44	15.43	15.4	17.00	
		1	0	15.39	15.29	15.31	17.00	
		1	13	15.38	15.49	15.39	17.00	
		1	24	15.33	15.32	15.29	17.00	
		12	0	15.46	15.48	15.54	17.00	
		12	6	15.39	15.58	15.43	17.00	
	64QAM	12	13	15.45	15.51	15.47	17.00	
		25	0	15.49	15.44	15.52	17.00	
		1	0	15.21	15.32	15.24	17.00	
		1	13	15.42	15.44	15.42	17.00	
		1	24	15.18	15.29	15.22	17.00	
		12	0	15.32	15.45	15.26	17.00	
	10MHz	QPSK	12	6	15.46	15.43	15.48	17.00
			12	13	15.51	15.49	15.34	17.00
			25	0	15.35	15.41	15.37	17.00
1			0	15.37	15.29	15.41	17.00	
1			25	15.46	15.58	15.54	17.00	
1			49	15.41	15.39	15.42	17.00	
16QAM		25	0	15.47	15.5	15.43	17.00	
		25	13	15.51	15.55	15.47	17.00	
		25	25	15.46	15.46	15.47	17.00	
		50	0	15.39	15.36	15.51	17.00	
		1	0	15.37	15.45	15.26	17.00	
		1	25	15.46	15.42	15.31	17.00	
64QAM		1	49	15.39	15.43	15.2	17.00	
		25	0	15.35	15.43	15.39	17.00	
		25	13	15.47	15.48	15.46	17.00	
		25	25	15.52	15.4	15.45	17.00	
		50	0	15.49	15.49	15.53	17.00	
		1	0	15.32	15.23	15.36	17.00	
15MHz		QPSK	1	25	15.37	15.46	15.51	17.00
			1	49	15.32	15.35	15.40	17.00
			25	0	15.42	15.46	15.37	17.00
	25		13	15.40	15.48	15.46	17.00	
	25		25	15.41	15.37	15.35	17.00	
	50		0	15.36	15.27	15.45	17.00	
	1		0	15.36	15.36	15.37	17.00	
	1		38	15.41	15.48	15.44	17.00	
15MHz	QPSK	1	74	15.37	15.37	15.36	17.00	
		36	0	15.32	15.43	15.41	17.00	

	16QAM	36	18	15.4	15.42	15.38	17.00
		36	39	15.44	15.43	15.34	17.00
		75	0	15.45	15.42	15.42	17.00
		1	0	15.36	15.36	15.32	17.00
		1	38	15.43	15.43	15.36	17.00
		1	74	15.4	15.38	15.28	17.00
		36	0	15.34	15.4	15.39	17.00
		36	18	15.39	15.41	15.38	17.00
		36	39	15.35	15.44	15.35	17.00
	75	0	15.46	15.42	15.43	17.00	
	64QAM	1	0	15.26	15.26	15.27	17.00
		1	38	15.36	15.36	15.41	17.00
		1	74	15.34	15.33	15.33	17.00
		36	0	15.24	15.32	15.39	17.00
		36	18	15.30	15.31	15.35	17.00
		36	39	15.38	15.35	15.24	17.00
		75	0	15.35	15.39	15.33	17.00
	Bandwidth	Modulation	RB size	RB offset	Channel 37850	Channel 38000	Channel 38150
20MHz	QPSK	1	0	15.35	15.33	15.34	17.00
		1	50	15.46	15.50	15.46	17.00
		1	99	15.36	15.37	15.55	17.00
		50	0	15.39	15.48	15.51	17.00
		50	25	15.45	15.48	15.50	17.00
		50	50	15.50	15.48	15.42	17.00
		100	0	15.40	15.41	15.45	17.00
	16QAM	1	0	15.32	15.35	15.35	17.00
		1	50	15.48	15.48	15.38	17.00
		1	99	15.38	15.35	15.26	17.00
		50	0	15.41	15.47	15.48	17.00
		50	25	15.48	15.49	15.49	17.00
		50	50	15.52	15.48	15.42	17.00
		100	0	15.46	15.45	15.45	17.00
	64QAM	1	0	15.29	15.23	15.33	17.00
		1	50	15.44	15.43	15.36	17.00
		1	99	15.34	15.32	15.49	17.00
		50	0	15.30	15.36	15.48	17.00
		50	25	15.41	15.40	15.43	17.00
		50	50	15.46	15.38	15.36	17.00
		100	0	15.32	15.34	15.39	17.00

LTE Band 41 Full power				Conducted Power(dBm)						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up	
				39675	40148	40620	41093	41565		
5MHz	QPSK	1	0	23.66	23.65	23.72	23.64	23.73	24.00	
		1	13	23.78	23.81	23.87	23.79	23.77	24.00	
		1	24	23.67	23.71	23.7	23.69	23.57	24.00	
		12	0	22.67	22.73	22.71	22.77	22.73	23.00	
		12	6	22.8	22.71	22.83	22.75	22.81	23.00	
		12	13	22.77	22.79	22.81	22.65	22.56	23.00	
	16QAM	25	0	22.78	22.76	22.78	22.78	22.73	23.00	
		1	0	22.72	22.66	22.8	22.73	22.71	23.00	
		1	13	22.76	22.69	22.85	22.78	22.76	23.00	
		1	24	22.63	22.72	22.73	22.68	22.63	23.00	
		12	0	21.6	21.75	21.69	21.84	21.73	22.00	
		12	6	21.8	21.73	21.82	21.7	21.69	22.00	
	64QAM	12	13	21.79	21.79	21.87	21.76	21.6	22.00	
		25	0	21.79	21.72	21.75	21.75	21.66	22.00	
		1	0	21.56	21.54	21.62	21.63	21.62	22.00	
		1	13	21.71	21.72	21.81	21.75	21.73	22.00	
		1	24	21.55	21.70	21.68	21.61	21.54	22.00	
		12	0	20.60	20.70	20.68	20.71	20.72	21.00	
	10MHz	QPSK	12	6	20.68	20.65	20.78	20.69	20.78	21.00
			12	13	20.71	20.69	20.75	20.54	20.47	21.00
			25	0	20.66	20.73	20.73	20.72	20.70	21.00
1			0	23.63	23.68	23.74	23.64	23.74	24.00	
1			25	23.76	23.76	23.91	23.76	23.75	24.00	
1			49	23.69	23.74	23.71	23.65	23.62	24.00	
16QAM		25	0	22.66	22.75	22.76	22.77	22.78	23.00	
		25	13	22.78	22.72	22.87	22.75	22.78	23.00	
		25	25	22.79	22.8	22.82	22.66	22.63	23.00	
		50	0	22.82	22.81	22.76	22.74	22.73	23.00	
		1	0	22.71	22.68	22.77	22.76	22.7	23.00	
		1	25	22.73	22.68	22.84	22.78	22.74	23.00	
64QAM	1	49	22.63	22.67	22.71	22.68	22.57	23.00		
	25	0	21.63	21.77	21.69	21.83	21.73	22.00		
	25	13	21.75	21.77	21.86	21.69	21.68	22.00		
	25	25	21.76	21.79	21.84	21.69	21.63	22.00		
	50	0	21.74	21.71	21.79	21.73	21.69	22.00		
	1	0	21.59	21.56	21.73	21.56	21.62	22.00		
15MHz	QPSK	1	25	21.69	21.64	21.86	21.66	21.68	22.00	
		1	49	21.66	21.64	21.69	21.62	21.50	22.00	
		25	0	20.54	20.68	20.64	20.76	20.72	21.00	
		25	13	20.70	20.71	20.78	20.74	20.70	21.00	
		25	25	20.69	20.71	20.81	20.65	20.52	21.00	
		50	0	20.81	20.79	20.72	20.71	20.70	21.00	
15MHz	QPSK	1	0	23.69	23.72	23.74	23.65	23.79	24.00	
		1	38	23.73	23.76	23.9	23.73	23.76	24.00	
15MHz	QPSK	1	74	23.68	23.7	23.71	23.69	23.6	24.00	
		36	0	22.68	22.78	22.73	22.84	22.75	23.00	

		36	18	22.8	22.71	22.86	22.75	22.81	23.00
		36	39	22.78	22.75	22.82	22.67	22.58	23.00
		75	0	22.8	22.76	22.82	22.77	22.69	23.00
	16QAM	1	0	22.75	22.69	22.81	22.69	22.7	23.00
		1	38	22.74	22.68	22.85	22.79	22.79	23.00
		1	74	22.67	22.71	22.74	22.71	22.61	23.00
		36	0	21.59	21.8	21.72	21.85	21.72	22.00
		36	18	21.8	21.73	21.83	21.74	21.69	22.00
		36	39	21.8	21.74	21.85	21.7	21.58	22.00
		75	0	21.74	21.75	21.81	21.74	21.64	22.00
	64QAM	1	0	21.63	21.62	21.65	21.54	21.76	22.00
		1	38	21.61	21.71	21.83	21.72	21.72	22.00
		1	74	21.58	21.68	21.59	21.63	21.53	22.00
		36	0	20.58	20.75	20.72	20.75	20.66	21.00
		36	18	20.78	20.60	20.82	20.70	20.69	21.00
36		39	20.70	20.71	20.78	20.61	20.50	21.00	
75		0	20.70	20.70	20.78	20.69	20.65	21.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39750	40185	40620	41055	41490	
20MHz	QPSK	1	0	23.7	23.73	23.78	23.68	23.8	24.00
		1	50	23.81	23.83	23.94	23.8	23.81	24.00
		1	99	23.73	23.78	23.94	23.72	23.65	24.00
		50	0	22.71	22.81	22.88	22.85	22.79	23.00
		50	25	22.81	22.77	22.88	22.78	22.82	23.00
		50	50	22.84	22.81	22.88	22.73	22.64	23.00
		100	0	22.84	22.83	22.83	22.81	22.76	23.00
	16QAM	1	0	22.76	22.74	22.83	22.77	22.77	23.00
		1	50	22.77	22.74	22.88	22.81	22.81	23.00
		1	99	22.7	22.75	22.77	22.72	22.65	23.00
		50	0	21.67	21.83	21.75	21.91	21.78	22.00
		50	25	21.82	21.78	21.87	21.77	21.75	22.00
		50	50	21.82	21.81	21.9	21.77	21.65	22.00
		100	0	21.82	21.79	21.83	21.8	21.7	22.00
	64QAM	1	0	21.68	21.68	21.72	21.60	21.77	22.00
		1	50	21.72	21.78	21.90	21.77	21.73	22.00
		1	99	21.69	21.66	21.71	21.71	21.53	22.00
		50	0	20.70	20.80	20.87	20.80	20.74	21.00
		50	25	20.80	20.69	20.79	20.66	20.76	21.00
		50	50	20.83	20.76	20.86	20.71	20.52	21.00
		100	0	20.80	20.81	20.73	20.70	20.69	21.00



LTE Band 41 Receiver on&Hotspot on				Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39675	40148	40620	41093	41565	
5MHz	QPSK	1	0	16.7	16.64	16.7	16.69	16.74	17.00
		1	13	16.78	16.77	16.87	16.77	16.74	17.00
		1	24	16.65	16.74	16.71	16.67	16.67	17.00
		12	0	16.66	16.79	16.81	16.84	16.74	17.00
		12	6	16.79	16.83	16.82	16.79	16.85	17.00
		12	13	16.95	16.8	16.89	16.79	16.75	17.00
		25	0	16.79	16.78	16.86	16.76	16.77	17.00
	16QAM	1	0	16.78	16.68	16.8	16.71	16.78	17.00
		1	13	16.81	16.82	16.92	16.79	16.8	17.00
		1	24	16.71	16.73	16.72	16.69	16.67	17.00
		12	0	16.75	16.77	16.81	16.86	16.78	17.00
		12	6	16.8	16.86	16.83	16.8	16.82	17.00
		12	13	16.89	16.87	16.86	16.78	16.77	17.00
		25	0	16.8	16.87	16.79	16.81	16.81	17.00
	64QAM	1	0	16.59	16.58	16.63	16.66	16.62	17.00
		1	13	16.70	16.72	16.83	16.74	16.68	17.00
		1	24	16.53	16.67	16.70	16.66	16.60	17.00
		12	0	16.64	16.72	16.69	16.78	16.66	17.00
		12	6	16.78	16.79	16.81	16.77	16.84	17.00
		12	13	16.90	16.72	16.88	16.71	16.64	17.00
		25	0	16.67	16.68	16.79	16.65	16.65	17.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
10MHz	QPSK	1	0	16.71	16.67	16.72	16.7	16.71	17.00
		1	25	16.79	16.82	16.86	16.75	16.78	17.00
		1	49	16.67	16.77	16.75	16.66	16.67	17.00
		25	0	16.68	16.82	16.78	16.87	16.76	17.00
		25	13	16.79	16.81	16.82	16.83	16.87	17.00
		25	25	16.94	16.8	16.84	16.77	16.75	17.00
		50	0	16.76	16.78	16.83	16.77	16.72	17.00
	16QAM	1	0	16.77	16.68	16.76	16.73	16.8	17.00
		1	25	16.84	16.8	16.9	16.81	16.76	17.00
		1	49	16.69	16.75	16.72	16.7	16.62	17.00
		25	0	16.73	16.8	16.85	16.88	16.81	17.00
		25	13	16.8	16.84	16.83	16.83	16.86	17.00
		25	25	16.87	16.88	16.85	16.8	16.81	17.00
		50	0	16.81	16.86	16.81	16.79	16.82	17.00
	64QAM	1	0	16.70	16.61	16.68	16.59	16.59	17.00
		1	25	16.72	16.76	16.76	16.63	16.75	17.00
		1	49	16.60	16.69	16.72	16.63	16.63	17.00
		25	0	16.67	16.76	16.69	16.80	16.68	17.00
		25	13	16.73	16.78	16.76	16.82	16.84	17.00
		25	25	16.85	16.71	16.83	16.73	16.64	17.00
		50	0	16.74	16.74	16.76	16.75	16.71	17.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
15MHz	QPSK	1	0	16.66	16.64	16.73	16.68	16.75	17.00
		1	38	16.77	16.81	16.83	16.8	16.77	17.00

		1	74	16.69	16.74	16.72	16.66	16.64	17.00	
		36	0	16.69	16.8	16.79	16.87	16.79	17.00	
		36	18	16.77	16.83	16.83	16.81	16.87	17.00	
		36	39	16.92	16.81	16.87	16.78	16.75	17.00	
		75	0	16.78	16.78	16.83	16.77	16.74	17.00	
	16QAM	1	0	16.77	16.69	16.78	16.71	16.76	17.00	
		1	38	16.83	16.78	16.9	16.76	16.78	17.00	
		1	74	16.71	16.74	16.74	16.67	16.66	17.00	
		36	0	16.74	16.8	16.81	16.87	16.77	17.00	
		36	18	16.78	16.85	16.86	16.79	16.85	17.00	
		36	39	16.87	16.86	16.86	16.81	16.82	17.00	
	64QAM	75	0	16.82	16.83	16.83	16.82	16.81	17.00	
		1	0	16.63	16.56	16.68	16.66	16.70	17.00	
		1	38	16.76	16.69	16.76	16.73	16.71	17.00	
		1	74	16.67	16.65	16.61	16.59	16.53	17.00	
		36	0	16.62	16.71	16.77	16.85	16.74	17.00	
		36	18	16.76	16.79	16.72	16.79	16.84	17.00	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
					39750	40185	40620	41055	41490	
	20MHz	QPSK	1	0	16.76	16.73	16.80	16.77	16.81	17.00
			1	50	16.87	16.87	16.93	16.85	16.84	17.00
1			99	16.75	16.83	16.94	16.73	16.74	17.00	
50			0	16.74	16.87	16.91	16.90	16.84	17.00	
50			25	16.86	16.88	16.90	16.88	16.90	17.00	
50			50	16.90	16.86	16.90	16.85	16.83	17.00	
16QAM		100	0	16.84	16.86	16.92	16.86	16.82	17.00	
		1	0	16.84	16.75	16.86	16.79	16.86	17.00	
		1	50	16.90	16.87	16.90	16.86	16.86	17.00	
		1	99	16.77	16.83	16.82	16.77	16.72	17.00	
		50	0	16.82	16.87	16.90	16.90	16.87	17.00	
		50	25	16.86	16.92	16.93	16.88	16.91	17.00	
64QAM		50	50	16.90	16.93	16.94	16.88	16.87	17.00	
		100	0	16.88	16.93	16.88	16.88	16.88	17.00	
		1	0	16.75	16.61	16.71	16.67	16.75	17.00	
		1	50	16.78	16.76	16.87	16.74	16.75	17.00	
		1	99	16.70	16.76	16.89	16.66	16.67	17.00	
		50	0	16.72	16.79	16.89	16.89	16.81	17.00	
			50	25	16.80	16.85	16.78	16.85	16.87	17.00
			50	50	16.91	16.82	16.85	16.75	16.71	17.00
			100	0	16.82	16.84	16.91	16.76	16.71	17.00



LTE Band 66 Full power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				131979	132322	132665	
1.4MHz	QPSK	1	0	23.90	23.82	23.93	25.50
		1	2	23.87	23.97	23.78	25.50
		1	5	23.92	23.86	23.95	25.50
		3	0	23.81	23.90	23.77	25.50
		3	1	24.00	23.91	23.66	25.50
		3	3	24.06	23.78	23.66	25.50
		6	0	22.89	22.75	22.80	24.50
	16QAM	1	0	22.99	22.76	22.90	24.50
		1	2	23.19	23.36	23.22	24.50
		1	5	22.96	23.21	22.68	24.50
		3	0	23.03	22.78	22.76	24.50
		3	1	23.05	22.95	22.61	24.50
		3	3	22.96	22.80	22.71	24.50
		6	0	22.20	22.05	21.99	23.50
	64QAM	1	0	21.82	21.70	21.83	23.50
		1	2	21.80	21.93	21.73	23.50
		1	5	21.82	21.85	21.85	23.50
		3	0	21.80	21.82	21.69	23.50
		3	1	21.92	21.79	21.64	23.50
		3	3	21.95	21.66	21.63	23.50
		6	0	20.82	20.73	20.78	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				131987	132322	132657	
3MHz	QPSK	1	0	24.13	23.88	23.74	25.50
		1	7	23.81	23.91	23.85	25.50
		1	14	23.75	23.73	23.72	25.50
		8	0	22.75	22.96	22.78	24.50
		8	4	22.93	22.98	22.66	24.50
		8	7	22.73	22.93	22.67	24.50
		15	0	22.87	22.74	22.68	24.50
	16QAM	1	0	23.31	22.94	23.40	24.50
		1	7	23.22	22.92	22.77	24.50
		1	14	22.74	23.07	23.26	24.50
		8	0	22.16	22.12	22.04	23.50
		8	4	22.21	22.05	21.96	23.50
		8	7	21.84	22.10	22.04	23.50
		15	0	22.00	22.02	21.99	23.50
	64QAM	1	0	22.07	21.76	21.72	23.50
		1	7	21.71	21.86	21.74	23.50
		1	14	21.63	21.66	21.69	23.50
		8	0	20.63	20.88	20.72	22.50
		8	4	20.90	20.97	20.64	22.50
		8	7	20.68	20.90	20.57	22.50
		15	0	20.80	20.66	20.63	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				131997	132322	132647	
5MHz	QPSK	1	0	24.00	23.74	23.89	25.50
		1	13	23.91	23.80	23.66	25.50

		1	24	24.01	23.87	23.58	25.50
		12	0	22.91	22.97	22.63	24.50
		12	6	22.82	22.77	22.71	24.50
		12	13	22.94	22.91	22.90	24.50
		25	0	22.73	22.99	22.60	24.50
	16QAM	1	0	23.30	23.12	23.38	24.50
		1	13	23.13	22.81	22.78	24.50
		1	24	22.70	22.97	23.21	24.50
		12	0	22.13	21.96	21.93	23.50
		12	6	22.08	21.96	22.02	23.50
		12	13	22.08	21.98	21.89	23.50
	64QAM	25	0	21.90	21.87	21.79	23.50
		1	0	21.90	21.62	21.88	23.50
		1	13	21.88	21.74	21.54	23.50
		1	24	21.99	21.82	21.51	23.50
		12	0	20.82	20.88	20.55	22.50
		12	6	20.79	20.71	20.60	22.50
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
132022					132322	132622	
10MHz	QPSK	1	0	24.16	23.69	23.81	25.50
		1	25	23.98	23.76	23.93	25.50
		1	49	23.82	23.85	23.69	25.50
		25	0	23.04	22.71	22.84	24.50
		25	13	22.96	22.97	22.88	24.50
		25	25	22.74	22.82	22.74	24.50
		50	0	22.92	22.78	22.64	24.50
	16QAM	1	0	23.21	23.19	23.25	24.50
		1	25	23.21	22.78	22.80	24.50
		1	49	22.69	22.89	23.06	24.50
		25	0	22.14	22.16	21.87	23.50
		25	13	22.00	22.10	22.12	23.50
		25	25	21.83	22.10	22.08	23.50
		50	0	21.95	22.02	21.96	23.50
	64QAM	1	0	22.14	21.65	21.78	23.50
		1	25	21.87	21.70	21.92	23.50
		1	49	21.73	21.83	21.65	23.50
		25	0	20.92	20.60	20.77	22.50
		25	13	20.92	20.90	20.87	22.50
		25	25	20.68	20.77	20.62	22.50
		50	0	20.84	20.75	20.52	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				132047	132322	132597	
15MHz	QPSK	1	0	24.18	23.92	23.76	25.50
		1	38	24.03	23.87	23.83	25.50
		1	74	23.88	23.71	23.79	25.50
		36	0	22.75	22.98	22.89	24.50
		36	18	22.76	22.83	22.66	24.50
		36	39	22.70	22.92	22.89	24.50
		75	0	22.96	22.75	22.84	24.50
	16QAM	1	0	23.10	23.15	23.21	24.50
		1	38	23.40	22.76	22.70	24.50
		1	74	22.71	23.11	23.08	24.50

		36	0	22.07	21.90	22.08	23.50
		36	18	22.20	22.16	21.86	23.50
		36	39	21.98	22.17	22.05	23.50
		75	0	22.04	22.04	21.82	23.50
	64QAM	1	0	22.12	21.87	21.64	23.50
		1	38	21.96	21.83	21.76	23.50
		1	74	21.83	21.65	21.75	23.50
		36	0	20.66	20.95	20.82	22.50
		36	18	20.75	20.79	20.65	22.50
		36	39	20.67	20.81	20.82	22.50
		75	0	20.89	20.67	20.74	22.50
Bandwidth	Modulation	RB size	RB offset	Channel 132072	Channel 132322	Channel 132572	Tune up
20MHz	QPSK	1	0	23.98	23.63	23.91	25.50
		1	50	23.94	24.00	23.93	25.50
		1	99	23.96	23.62	23.55	25.50
		50	0	22.93	22.94	22.74	24.50
		50	25	22.89	22.90	22.83	24.50
		50	50	22.88	23.06	22.87	24.50
		100	0	22.77	22.89	22.73	24.50
	16QAM	1	0	23.26	23.00	23.29	24.50
		1	50	23.29	22.78	22.75	24.50
		1	99	22.74	22.84	23.10	24.50
		50	0	22.18	22.18	21.90	23.50
		50	25	22.19	21.97	21.95	23.50
		50	50	21.90	22.08	22.00	23.50
		100	0	21.98	22.14	21.77	23.50
	64QAM	1	0	21.92	21.52	21.81	23.50
		1	50	21.88	21.89	21.89	23.50
		1	99	21.86	21.59	21.54	23.50
		50	0	20.88	20.88	20.71	22.50
		50	25	20.82	20.80	20.75	22.50
		50	50	20.84	21.03	20.80	22.50
		100	0	20.66	20.84	20.62	22.50



LTE Band 66 Receiver on&Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				131979	132322	132665	
1.4MHz	QPSK	1	0	15.22	14.67	14.99	16.50
		1	2	15.00	15.02	14.99	16.50
		1	5	14.85	14.73	15.07	16.50
		3	0	15.30	14.77	14.97	16.50
		3	1	14.98	15.09	14.77	16.50
		3	3	14.90	14.58	14.97	16.50
		6	0	15.27	14.64	15.09	16.50
	16QAM	1	0	14.79	14.93	14.83	16.50
		1	2	14.83	14.56	14.67	16.50
		1	5	15.19	14.57	14.99	16.50
		3	0	14.98	14.95	14.74	16.50
		3	1	14.93	14.74	15.07	16.50
		3	3	15.13	14.58	14.88	16.50
		6	0	14.98	14.90	15.02	16.50
	64QAM	1	0	15.12	14.59	14.96	16.50
		1	2	14.91	14.90	14.87	16.50
		1	5	14.84	14.70	15.00	16.50
		3	0	15.22	14.75	14.93	16.50
		3	1	14.97	14.98	14.69	16.50
		3	3	14.80	14.59	14.90	16.50
		6	0	15.25	14.62	15.04	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				131987	132322	132657	
3MHz	QPSK	1	0	15.16	14.65	14.92	16.50
		1	7	14.87	15.07	14.97	16.50
		1	14	14.99	14.68	14.67	16.50
		8	0	15.36	14.75	14.84	16.50
		8	4	14.86	15.03	14.87	16.50
		8	7	14.82	14.66	14.69	16.50
		15	0	15.13	14.63	14.82	16.50
	16QAM	1	0	14.84	14.92	14.97	16.50
		1	7	14.82	14.61	14.87	16.50
		1	14	15.16	14.54	14.91	16.50
		8	0	15.12	14.93	14.84	16.50
		8	4	15.03	14.76	14.54	16.50
		8	7	15.19	14.56	14.95	16.50
		15	0	15.14	14.89	15.06	16.50
	64QAM	1	0	15.14	14.56	14.81	16.50
		1	7	14.76	15.01	14.93	16.50
		1	14	14.96	14.56	14.57	16.50
		8	0	15.27	14.65	14.75	16.50
		8	4	14.76	14.92	14.76	16.50
		8	7	14.80	14.57	14.68	16.50
		15	0	15.07	14.58	14.81	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				131997	132322	132647	
5MHz	QPSK	1	0	15.13	14.63	14.80	16.50
		1	13	14.88	15.15	14.95	16.50

		36	0	14.92	15.05	14.90	16.50
		36	18	15.00	14.70	14.87	16.50
		36	39	15.00	14.75	14.91	16.50
		75	0	14.84	14.84	14.85	16.50
	64QAM	1	0	15.10	14.63	14.82	16.50
		1	38	14.85	14.88	14.92	16.50
		1	74	14.79	14.58	14.92	16.50
		36	0	15.11	14.84	14.77	16.50
		36	18	15.04	15.07	14.91	16.50
		36	39	14.86	14.50	14.66	16.50
		75	0	14.90	14.52	14.79	16.50
Bandwidth	Modulation	RB size	RB offset	Channel 132072	Channel 132322	Channel 132572	Tune up
20MHz	QPSK	1	0	15.22	14.60	14.95	16.50
		1	50	14.91	15.23	14.95	16.50
		1	99	14.99	14.67	14.57	16.50
		50	0	15.02	15.02	14.91	16.50
		50	25	14.95	15.02	14.89	16.50
		50	50	14.97	14.59	14.57	16.50
		100	0	15.14	14.68	14.95	16.50
	16QAM	1	0	14.92	15.03	14.88	16.50
		1	50	14.93	14.61	14.50	16.50
		1	99	15.18	14.63	14.90	16.50
		50	0	14.97	14.98	14.89	16.50
		50	25	14.95	14.65	14.50	16.50
		50	50	15.14	14.66	14.89	16.50
		100	0	14.99	14.95	14.91	16.50
	64QAM	1	0	15.14	14.59	14.84	16.50
		1	50	14.80	15.14	14.90	16.50
		1	99	14.92	14.56	14.59	16.50
		50	0	15.18	14.91	14.82	16.50
		50	25	14.89	14.93	14.85	16.50
		50	50	14.90	14.53	14.51	16.50
		100	0	15.02	14.60	14.87	16.50

8 Conducted Power of Main Antenna(Ant11)

8.1 Conducted Power of LTE

LTE Band 42 Full power				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				42115	42590	43065		
5MHz	QPSK	1	0	22.45	22.33	22.55	24.00	
		1	13	22.33	22.50	22.86	24.00	
		1	24	22.40	22.14	22.66	24.00	
		12	0	21.57	21.55	21.78	23.00	
		12	6	21.36	21.48	21.70	23.00	
		12	13	21.15	21.46	21.70	23.00	
	16QAM	25	0	21.18	21.51	21.64	23.00	
		1	0	21.27	21.49	21.79	23.00	
		1	13	21.39	21.57	21.98	23.00	
		1	24	21.36	21.38	21.64	23.00	
		12	0	20.54	20.51	20.74	22.00	
		12	6	20.32	20.39	20.76	22.00	
	64QAM	12	13	20.29	20.43	20.64	22.00	
		25	0	20.35	20.30	20.76	22.00	
		1	0	20.42	20.26	20.54	22.00	
		1	13	20.23	20.49	20.85	22.00	
		1	24	20.29	20.11	20.56	22.00	
		12	0	19.50	19.46	19.73	21.00	
	10MHz	QPSK	12	6	19.28	19.45	19.58	21.00
			12	13	19.12	19.43	19.68	21.00
			25	0	19.06	19.47	19.59	21.00
1			0	22.29	22.51	22.55	24.00	
1			25	22.54	22.49	22.79	24.00	
1			49	22.14	22.20	22.77	24.00	
16QAM		25	0	21.38	21.63	21.67	23.00	
		25	13	21.33	21.43	21.68	23.00	
		25	25	21.17	21.29	21.80	23.00	
		50	0	21.37	21.42	21.76	23.00	
		1	0	21.32	21.33	21.69	23.00	
		1	25	21.32	21.42	21.77	23.00	
64QAM	1	49	21.41	21.27	21.73	23.00		
	25	0	20.26	20.60	20.84	22.00		
	25	13	20.28	20.58	20.96	22.00		
	25	25	20.30	20.23	20.59	22.00		
	50	0	20.32	20.31	20.74	22.00		
	1	0	20.17	20.48	20.51	22.00		
10MHz	64QAM	1	25	20.45	20.39	20.75	22.00	
		1	49	20.07	20.13	20.70	22.00	
		25	0	19.36	19.56	19.63	21.00	
		25	13	19.31	19.32	19.64	21.00	
		25	25	19.12	19.19	19.78	21.00	
		50	0	19.35	19.32	19.64	21.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				42165	42590	43015		

15MHz	QPSK	1	0	22.48	22.49	22.59	24.00
		1	38	22.54	22.36	22.88	24.00
		1	74	22.14	22.34	22.74	24.00
		36	0	21.51	21.39	21.76	23.00
		36	18	21.42	21.45	21.76	23.00
		36	39	21.26	21.26	21.75	23.00
		75	0	21.47	21.48	21.67	23.00
	16QAM	1	0	21.29	21.31	21.79	23.00
		1	38	21.40	21.55	21.92	23.00
		1	74	21.14	21.23	21.70	23.00
		36	0	20.34	20.57	20.66	22.00
		36	18	20.43	20.61	20.78	22.00
		36	39	20.18	20.41	20.76	22.00
		75	0	20.46	20.40	20.88	22.00
	64QAM	1	0	20.39	20.40	20.51	22.00
		1	38	20.52	20.25	20.79	22.00
		1	74	20.09	20.27	20.71	22.00
		36	0	19.47	19.28	19.75	21.00
		36	18	19.35	19.36	19.67	21.00
		36	39	19.16	19.14	19.71	21.00
		75	0	19.45	19.45	19.59	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				42190	42590	42990	
20MHz	QPSK	1	0	22.47	22.30	22.56	24.00
		1	50	22.50	22.81	22.83	24.00
		1	99	22.28	22.37	22.57	24.00
		50	0	21.48	21.56	21.92	23.00
		50	25	21.44	21.35	21.84	23.00
		50	50	21.17	21.48	21.76	23.00
		100	0	21.23	21.54	21.79	23.00
	16QAM	1	0	21.25	21.38	21.78	23.00
		1	50	21.33	21.69	21.77	23.00
		1	99	21.16	21.46	21.82	23.00
		50	0	20.34	20.49	20.78	22.00
		50	25	20.41	20.55	20.88	22.00
		50	50	20.29	20.52	20.69	22.00
		100	0	20.37	20.40	20.90	22.00
	64QAM	1	0	20.42	20.28	20.55	22.00
		1	50	20.42	20.61	20.73	22.00
		1	99	20.18	20.29	20.49	22.00
		50	0	19.43	19.54	19.83	21.00
		50	25	19.36	19.33	19.72	21.00
		50	50	19.12	19.41	19.66	21.00
		100	0	19.13	19.44	19.69	21.00

LTE Band 42 Sensor on&Hotspot on				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				42115	42590	43065		
5MHz	QPSK	1	0	18.41	18.5	18.86	20.00	
		1	13	18.41	18.47	18.79	20.00	
		1	24	18.43	18.47	18.84	20.00	
		12	0	18.38	18.48	18.84	20.00	
		12	6	18.43	18.47	18.83	20.00	
		12	13	18.45	18.53	18.82	20.00	
	16QAM	25	0	18.38	18.53	18.82	20.00	
		1	0	18.38	18.51	18.85	20.00	
		1	13	18.43	18.52	18.8	20.00	
		1	24	18.39	18.45	18.84	20.00	
		12	0	18.45	18.49	18.79	20.00	
		12	6	18.38	18.51	18.81	20.00	
	64QAM	12	13	18.43	18.52	18.87	20.00	
		25	0	18.46	18.54	18.82	20.00	
		1	0	18.37	18.41	18.79	20.00	
		1	13	18.36	18.43	18.71	20.00	
		1	24	18.34	18.38	18.79	20.00	
		12	0	18.35	18.44	18.77	20.00	
	10MHz	QPSK	12	6	18.37	18.37	18.82	20.00
			12	13	18.36	18.47	18.70	20.00
			25	0	18.27	18.46	18.70	20.00
1			0	18.41	18.48	18.85	20.00	
1			25	18.36	18.47	18.87	20.00	
1			49	18.5	18.37	18.91	20.00	
16QAM		25	0	18.36	18.44	18.87	20.00	
		25	13	18.5	18.53	18.9	20.00	
		25	25	18.46	18.5	18.85	20.00	
		50	0	18.45	18.52	18.81	20.00	
		1	0	18.43	18.54	18.84	20.00	
		1	25	18.35	18.61	18.72	20.00	
64QAM	1	49	18.48	18.43	18.82	20.00		
	25	0	18.38	18.42	18.71	20.00		
	25	13	18.47	18.49	18.73	20.00		
	25	25	18.5	18.44	18.88	20.00		
	50	0	18.44	18.48	18.83	20.00		
	1	0	18.30	18.42	18.81	20.00		
15MHz	QPSK	1	25	18.24	18.38	18.85	20.00	
		1	49	18.39	18.25	18.90	20.00	
		25	0	18.32	18.38	18.84	20.00	
		25	13	18.47	18.44	18.89	20.00	
		25	25	18.35	18.39	18.78	20.00	
		50	0	18.35	18.51	18.72	20.00	
		1	0	18.5	18.58	18.85	20.00	
		1	38	18.41	18.53	18.71	20.00	
15MHz	QPSK	1	74	18.38	18.44	18.83	20.00	
		36	0	18.39	18.53	18.75	20.00	

	16QAM	36	18	18.37	18.44	18.84	20.00
		36	39	18.49	18.63	18.76	20.00
		75	0	18.33	18.51	18.74	20.00
		1	0	18.44	18.45	18.87	20.00
		1	38	18.53	18.46	18.9	20.00
		1	74	18.32	18.38	18.85	20.00
		36	0	18.39	18.4	18.86	20.00
		36	18	18.39	18.41	18.73	20.00
		36	39	18.46	18.58	18.93	20.00
	75	0	18.39	18.56	18.82	20.00	
	64QAM	1	0	18.38	18.46	18.84	20.00
		1	38	18.33	18.43	18.66	20.00
		1	74	18.27	18.34	18.78	20.00
		36	0	18.38	18.46	18.73	20.00
		36	18	18.31	18.42	18.78	20.00
		36	39	18.44	18.61	18.74	20.00
		75	0	18.23	18.48	18.65	20.00
	Bandwidth	Modulation	RB size	RB offset	Channel 42190	Channel 42590	Channel 42990
20MHz	QPSK	1	0	18.32	18.52	18.77	20.00
		1	50	18.4	18.52	18.93	20.00
		1	99	18.44	18.4	18.85	20.00
		50	0	18.31	18.41	18.89	20.00
		50	25	18.49	18.39	18.79	20.00
		50	50	18.51	18.49	18.88	20.00
		100	0	18.29	18.61	18.74	20.00
	16QAM	1	0	18.32	18.53	18.79	20.00
		1	50	18.35	18.5	18.79	20.00
		1	99	18.44	18.46	18.92	20.00
		50	0	18.36	18.57	18.79	20.00
		50	25	18.45	18.5	18.82	20.00
		50	50	18.51	18.56	18.83	20.00
	64QAM	100	0	18.46	18.57	18.74	20.00
		1	0	18.29	18.43	18.65	20.00
		1	50	18.37	18.44	18.86	20.00
		1	99	18.41	18.36	18.83	20.00
		50	0	18.24	18.31	18.85	20.00
		50	25	18.38	18.33	18.70	20.00
		50	50	18.44	18.40	18.83	20.00
	100	0	18.28	18.51	18.64	20.00	

LTE Band 42 Receiver on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				42115	42590	43065	
5MHz	QPSK	1	0	21.63	21.66	22.06	23.00
		1	13	21.62	21.81	21.99	23.00
		1	24	21.72	21.72	21.95	23.00
		12	0	21.41	21.50	21.78	23.00
		12	6	21.40	21.46	21.86	23.00
		12	13	21.37	21.46	21.81	23.00
	25	0	21.36	21.45	21.84	23.00	
	16QAM	1	0	21.38	21.49	21.91	23.00
		1	13	21.39	21.51	21.85	23.00
		1	24	21.44	21.53	21.86	23.00
		12	0	20.35	20.42	20.78	22.00
		12	6	20.32	20.40	20.80	22.00
		12	13	20.29	20.37	20.72	22.00
	25	0	20.39	20.52	20.85	22.00	
	64QAM	1	0	20.42	20.26	20.54	22.00
		1	13	20.23	20.49	20.85	22.00
		1	24	20.29	20.11	20.56	22.00
		12	0	19.50	19.46	19.73	21.00
12		6	19.28	19.45	19.58	21.00	
12		13	19.12	19.43	19.68	21.00	
25	0	19.06	19.47	19.59	21.00		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	QPSK	1	0	21.71	21.79	22.08	23.00
		1	25	21.58	21.63	22.13	23.00
		1	49	21.59	21.59	22.11	23.00
		25	0	21.37	21.47	21.81	23.00
		25	13	21.39	21.44	21.80	23.00
		25	25	21.39	21.49	21.78	23.00
	50	0	21.40	21.56	21.83	23.00	
	16QAM	1	0	21.48	21.54	21.79	23.00
		1	25	21.43	21.55	21.84	23.00
		1	49	21.38	21.45	21.87	23.00
		25	0	20.41	20.48	20.89	22.00
		25	13	20.40	20.49	20.84	22.00
		25	25	20.40	20.45	20.82	22.00
	50	0	20.41	20.49	20.81	22.00	
	64QAM	1	0	20.17	20.48	20.51	22.00
		1	25	20.45	20.39	20.75	22.00
		1	49	20.07	20.13	20.70	22.00
		25	0	19.36	19.56	19.63	21.00
25		13	19.31	19.32	19.64	21.00	
25		25	19.12	19.19	19.78	21.00	
50	0	19.35	19.32	19.64	21.00		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	QPSK	1	0	21.70	21.60	21.93	23.00
		1	38	21.64	21.79	21.95	23.00
		1	74	21.66	21.68	21.94	23.00
		36	0	21.34	21.47	21.76	23.00

	16QAM	36	18	21.38	21.43	21.80	23.00
		36	39	21.32	21.39	21.75	23.00
		75	0	21.35	21.46	21.81	23.00
		1	0	21.40	21.52	21.80	23.00
		1	38	21.46	21.58	21.87	23.00
		1	74	21.33	21.48	21.81	23.00
		36	0	20.33	20.40	20.73	22.00
		36	18	20.34	20.41	20.75	22.00
		36	39	20.29	20.38	20.71	22.00
	75	0	20.34	20.42	20.81	22.00	
	64QAM	1	0	20.39	20.40	20.51	22.00
		1	38	20.52	20.25	20.79	22.00
		1	74	20.09	20.27	20.71	22.00
		36	0	19.47	19.28	19.75	21.00
		36	18	19.35	19.36	19.67	21.00
		36	39	19.16	19.14	19.71	21.00
		75	0	19.45	19.45	19.59	21.00
	Bandwidth	Modulation	RB size	RB offset	Channel 42190	Channel 42590	Channel 42990
20MHz	QPSK	1	0	21.52	21.73	21.96	23.00
		1	50	21.74	21.76	22.11	23.00
		1	99	21.73	21.60	22.10	23.00
		50	0	21.42	21.51	21.85	23.00
		50	25	21.37	21.50	21.82	23.00
		50	50	21.29	21.39	21.77	23.00
		100	0	21.33	21.50	21.78	23.00
	16QAM	1	0	21.38	21.43	21.73	23.00
		1	50	21.44	21.54	21.85	23.00
		1	99	21.28	21.36	21.73	23.00
		50	0	20.41	20.47	20.81	22.00
		50	25	20.36	20.50	20.85	22.00
		50	50	20.32	20.38	20.74	22.00
		100	0	20.31	20.43	20.78	22.00
	64QAM	1	0	20.42	20.28	20.55	22.00
		1	50	20.42	20.61	20.73	22.00
		1	99	20.18	20.29	20.49	22.00
		50	0	19.43	19.54	19.83	21.00
		50	25	19.36	19.33	19.72	21.00
		50	50	19.12	19.41	19.66	21.00
		100	0	19.13	19.44	19.69	21.00

9 Conducted Power of Main Antenna(Ant12)

9.1 Conducted Power of LTE

LTE Band 42 Full power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				42115	42590	43065	
5MHz	QPSK	1	0	23.42	23.37	23.49	24.70
		1	13	23.44	23.38	23.53	24.70
		1	24	23.41	23.37	23.48	24.70
		12	0	22.43	22.34	22.48	23.70
		12	6	22.39	22.31	22.44	23.70
		12	13	22.38	22.29	22.42	23.70
		25	0	22.41	22.33	22.48	23.70
	16QAM	1	0	22.41	22.43	22.51	23.70
		1	13	22.41	22.38	22.5	23.70
		1	24	22.43	22.35	22.5	23.70
		12	0	21.37	21.3	21.42	22.70
		12	6	21.35	21.28	21.38	22.70
		12	13	21.31	21.23	21.35	22.70
		25	0	21.43	21.33	21.47	22.70
	64QAM	1	0	21.38	21.30	21.40	22.70
		1	13	21.43	21.32	21.47	22.70
		1	24	21.33	21.25	21.46	22.70
		12	0	20.40	20.29	20.42	21.70
		12	6	20.36	20.22	20.39	21.70
		12	13	20.31	20.23	20.36	21.70
		25	0	20.32	20.25	20.47	21.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	QPSK	1	0	42140	42590	43040	24.70
		1	25	23.42	23.39	23.51	24.70
		1	49	23.45	23.42	23.55	24.70
		1	49	23.37	23.26	23.44	24.70
		25	0	22.41	22.35	22.49	23.70
		25	13	22.39	22.32	22.46	23.70
		25	25	22.35	22.31	22.45	23.70
	16QAM	50	0	22.44	22.34	22.48	23.70
		1	0	22.46	22.35	22.54	23.70
		1	25	22.47	22.43	22.53	23.70
		1	49	22.39	22.36	22.47	23.70
		25	0	21.42	21.34	21.56	22.70
		25	13	21.43	21.35	21.49	22.70
		25	25	21.36	21.33	21.46	22.70
	64QAM	50	0	21.42	21.36	21.44	22.70
		1	0	21.39	21.31	21.49	22.70
		1	25	21.40	21.32	21.47	22.70
		1	49	21.34	21.16	21.37	22.70
		25	0	20.31	20.31	20.40	21.70
		25	13	20.34	20.24	20.36	21.70
		25	25	20.28	20.27	20.39	21.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				42165	42590	43015	

15MHz	QPSK	1	0	23.4	23.4	23.52	24.70
		1	38	23.44	23.45	23.54	24.70
		1	74	23.26	23.38	23.43	24.70
		36	0	22.38	22.33	22.48	23.70
		36	18	22.33	22.31	22.47	23.70
		36	39	22.27	22.25	22.42	23.70
		75	0	22.36	22.33	22.51	23.70
	16QAM	1	0	22.4	22.41	22.51	23.70
		1	38	22.43	22.47	22.56	23.70
		1	74	22.27	22.34	22.47	23.70
		36	0	21.33	21.29	21.45	22.70
		36	18	21.3	21.28	21.44	22.70
		36	39	21.23	21.25	21.37	22.70
		75	0	21.35	21.33	21.5	22.70
	64QAM	1	0	21.37	21.31	21.47	22.70
		1	38	21.33	21.38	21.44	22.70
		1	74	21.18	21.36	21.38	22.70
		36	0	20.26	20.26	20.47	21.70
		36	18	20.26	20.27	20.44	21.70
		36	39	20.26	20.18	20.30	21.70
		75	0	20.32	20.21	20.39	21.70
Bandwidth	Modulation	RB size	RB offset	Channel 42190	Channel 42590	Channel 42990	Tune up
20MHz	QPSK	1	0	23.37	23.28	23.45	24.70
		1	50	23.45	23.41	23.56	24.70
		1	99	23.21	23.17	23.37	24.70
		50	0	22.47	22.34	22.54	23.70
		50	25	22.37	22.36	22.51	23.70
		50	50	22.29	22.24	22.42	23.70
		100	0	22.36	22.29	22.47	23.70
	16QAM	1	0	22.39	22.29	22.5	23.70
		1	50	22.46	22.42	22.56	23.70
		1	99	22.19	22.19	22.41	23.70
		50	0	21.45	21.34	21.52	22.70
		50	25	21.37	21.35	21.49	22.70
		50	50	21.29	21.26	21.42	22.70
		100	0	21.36	21.28	21.44	22.70
	64QAM	1	0	21.31	21.16	21.42	22.70
		1	50	21.34	21.37	21.46	22.70
		1	99	21.09	21.15	21.25	22.70
		50	0	20.36	20.31	20.50	21.70
		50	25	20.30	20.33	20.50	21.70
		50	50	20.24	20.16	20.39	21.70
		100	0	20.26	20.25	20.45	21.70

LTE Band 42 Sensor on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				42115	42590	43065	
5MHz	QPSK	1	0	18.89	19.2	19.33	20.70
		1	13	18.98	19.22	19.31	20.70
		1	24	18.78	19.13	19.11	20.70
		12	0	18.88	19.14	19.31	20.70
		12	6	18.79	19.18	19.37	20.70
		12	13	18.8	19.11	19.24	20.70
		25	0	18.93	19.13	19.43	20.70
	16QAM	1	0	18.84	19.21	19.42	20.70
		1	13	19.01	19.28	19.46	20.70
		1	24	18.88	19.24	19.36	20.70
		12	0	18.9	19.13	19.26	20.70
		12	6	18.91	19.13	19.34	20.70
		12	13	18.95	19	19.24	20.70
		25	0	18.94	19.21	19.44	20.70
	64QAM	1	0	18.80	19.11	19.26	20.70
		1	13	18.92	19.15	19.22	20.70
		1	24	18.79	19.02	19.01	20.70
		12	0	18.84	19.02	19.22	20.70
		12	6	18.71	19.15	19.25	20.70
		12	13	18.72	19.04	19.18	20.70
		25	0	18.91	19.05	19.32	20.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	QPSK	1	0	18.93	19.14	19.36	20.70
		1	25	19.1	19.2	19.3	20.70
		1	49	18.8	19.06	19.21	20.70
		25	0	18.99	19.06	19.29	20.70
		25	13	18.84	19.18	19.34	20.70
		25	25	18.86	19.06	19.25	20.70
		50	0	18.92	19.21	19.31	20.70
	16QAM	1	0	18.97	19.26	19.42	20.70
		1	25	18.97	19.24	19.43	20.70
		1	49	18.91	19.11	19.21	20.70
		25	0	18.82	19.11	19.31	20.70
		25	13	18.89	19.2	19.34	20.70
		25	25	18.85	19.12	19.25	20.70
		50	0	18.9	19.23	19.38	20.70
	64QAM	1	0	18.83	19.07	19.25	20.70
		1	25	19.05	19.10	19.27	20.70
		1	49	18.77	19.00	19.14	20.70
		25	0	18.95	18.95	19.26	20.70
		25	13	18.75	19.10	19.32	20.70
		25	25	18.84	19.05	19.17	20.70
		50	0	18.81	19.16	19.30	20.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	QPSK	1	0	18.86	19.15	19.37	20.70
		1	38	19.02	19.18	19.37	20.70
		1	74	18.82	19.07	19.19	20.70
		36	0	18.95	19.11	19.37	20.70

	16QAM	36	18	18.85	19.17	19.34	20.70
		36	39	18.84	19.09	19.26	20.70
		75	0	18.9	19.15	19.37	20.70
		1	0	18.92	19.18	19.41	20.70
		1	38	18.97	19.22	19.4	20.70
		1	74	18.87	19.16	19.28	20.70
		36	0	18.9	19.16	19.32	20.70
		36	18	18.91	19.12	19.33	20.70
		36	39	18.87	19.06	19.28	20.70
	75	0	18.93	19.19	19.41	20.70	
	64QAM	1	0	18.85	19.13	19.33	20.70
		1	38	18.98	19.08	19.36	20.70
		1	74	18.81	19.00	19.11	20.70
		36	0	18.86	19.00	19.29	20.70
		36	18	18.81	19.14	19.32	20.70
		36	39	18.75	19.00	19.18	20.70
		75	0	18.86	19.11	19.32	20.70
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				42190	42590	42990	
20MHz	QPSK	1	0	18.85	19.06	19.36	20.70
		1	50	18.94	19.19	19.50	20.70
		1	99	18.82	18.98	19.15	20.70
		50	0	18.96	19.20	19.46	20.70
		50	25	18.94	19.20	19.40	20.70
		50	50	18.87	19.13	19.29	20.70
		100	0	18.89	19.13	19.36	20.70
	16QAM	1	0	18.90	19.13	19.46	20.70
		1	50	18.98	19.22	19.40	20.70
		1	99	18.85	19.06	19.21	20.70
		50	0	18.99	19.25	19.46	20.70
		50	25	18.96	19.23	19.42	20.70
		50	50	18.93	19.13	19.33	20.70
		100	0	18.94	19.20	19.39	20.70
	64QAM	1	0	18.73	19.04	19.30	20.70
		1	50	18.89	19.15	19.38	20.70
		1	99	18.71	18.86	19.07	20.70
		50	0	18.86	19.10	19.40	20.70
		50	25	18.84	19.16	19.39	20.70
		50	50	18.76	19.04	19.25	20.70
		100	0	18.83	19.10	19.29	20.70

LTE Band 42 Receiver on&Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				42115	42590	43065	
5MHz	QPSK	1	0	18.09	18.41	18.72	19.20
		1	13	18.44	18.48	18.78	19.20
		1	24	18.12	18.49	18.54	19.20
		12	0	18.36	18.48	18.93	19.20
		12	6	18.21	18.60	18.68	19.20
		12	13	18.35	18.66	18.77	19.20
		25	0	18.19	18.54	18.90	19.20
	16QAM	1	0	18.34	18.41	18.79	19.20
		1	13	18.29	18.65	18.87	19.20
		1	24	18.23	18.60	18.80	19.20
		12	0	18.43	18.77	18.89	19.20
		12	6	18.31	18.50	18.83	19.20
		12	13	18.30	18.52	18.83	19.20
		25	0	18.31	18.69	18.75	19.20
	64QAM	1	0	18.02	18.34	18.69	19.20
		1	13	18.43	18.44	18.67	19.20
		1	24	18.06	18.48	18.45	19.20
		12	0	18.26	18.42	18.84	19.20
		12	6	18.17	18.48	18.59	19.20
		12	13	18.29	18.62	18.69	19.20
		25	0	18.18	18.46	18.79	19.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	QPSK	1	0	18.17	18.41	18.66	19.20
		1	25	18.26	18.45	18.78	19.20
		1	49	18.21	18.57	18.47	19.20
		25	0	18.41	18.50	18.83	19.20
		25	13	18.26	18.64	18.81	19.20
		25	25	18.46	18.62	18.76	19.20
		50	0	18.19	18.36	18.92	19.20
	16QAM	1	0	18.35	18.52	18.68	19.20
		1	25	18.25	18.79	18.97	19.20
		1	49	18.38	18.60	18.81	19.20
		25	0	18.48	18.64	18.96	19.20
		25	13	18.28	18.63	18.86	19.20
		25	25	18.28	18.71	18.76	19.20
		50	0	18.42	18.58	18.71	19.20
	64QAM	1	0	18.06	18.35	18.57	19.20
		1	25	18.17	18.38	18.66	19.20
		1	49	18.10	18.48	18.43	19.20
		25	0	18.31	18.41	18.71	19.20
		25	13	18.22	18.57	18.79	19.20
		25	25	18.40	18.57	18.68	19.20
		50	0	18.13	18.27	18.81	19.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	QPSK	1	0	18.26	18.51	18.74	19.20
		1	38	18.36	18.65	18.64	19.20
		1	74	18.23	18.57	18.64	19.20
		36	0	18.23	18.45	18.92	19.20
						42165	42590

	16QAM	36	18	18.29	18.49	18.83	19.20
		36	39	18.39	18.54	18.82	19.20
		75	0	18.38	18.37	18.91	19.20
		1	0	18.29	18.50	18.83	19.20
		1	38	18.29	18.68	18.98	19.20
		1	74	18.21	18.46	18.81	19.20
		36	0	18.58	18.58	18.88	19.20
		36	18	18.30	18.63	18.79	19.20
		36	39	18.25	18.51	18.79	19.20
	75	0	18.22	18.70	18.80	19.20	
	64QAM	1	0	18.21	18.50	18.67	19.20
		1	38	18.30	18.57	18.63	19.20
		1	74	18.14	18.45	18.56	19.20
		36	0	18.12	18.43	18.82	19.20
		36	18	18.25	18.43	18.77	19.20
		36	39	18.33	18.44	18.70	19.20
		75	0	18.33	18.25	18.79	19.20
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				42190	42590	42990	
20MHz	QPSK	1	0	18.19	18.40	18.75	19.20
		1	50	18.28	18.58	18.91	19.20
		1	99	18.22	18.43	18.65	19.20
		50	0	18.36	18.46	18.89	19.20
		50	25	18.28	18.55	18.84	19.20
		50	50	18.46	18.60	18.74	19.20
		100	0	18.35	18.39	18.87	19.20
	16QAM	1	0	18.22	18.38	18.82	19.20
		1	50	18.39	18.69	18.82	19.20
		1	99	18.32	18.55	18.65	19.20
		50	0	18.48	18.71	18.81	19.20
		50	25	18.19	18.60	18.90	19.20
		50	50	18.39	18.57	18.74	19.20
		100	0	18.22	18.61	18.70	19.20
	64QAM	1	0	18.18	18.36	18.74	19.20
		1	50	18.19	18.54	18.83	19.20
		1	99	18.19	18.39	18.62	19.20
		50	0	18.28	18.44	18.79	19.20
		50	25	18.20	18.47	18.73	19.20
		50	50	18.40	18.51	18.62	19.20
		100	0	18.24	18.34	18.82	19.20

10 Conducted Power of Main Antenna(Ant13)

10.1 Conducted Power of LTE

LTE Band 42 Full power				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				42115	42590	43065		
5MHz	QPSK	1	0	24.67	24.50	24.57	25.50	
		1	13	24.70	24.73	24.75	25.50	
		1	24	24.43	24.37	24.41	25.50	
		12	0	23.79	23.64	23.74	24.50	
		12	6	23.79	23.66	23.65	24.50	
		12	13	23.55	23.60	23.51	24.50	
	16QAM	25	0	23.62	23.57	23.62	24.50	
		1	0	23.58	23.67	23.68	24.50	
		1	13	23.72	23.56	23.75	24.50	
		1	24	23.54	23.48	23.53	24.50	
		12	0	22.87	22.91	22.78	23.50	
		12	6	22.89	22.84	22.82	23.50	
	64QAM	12	13	22.85	22.79	22.77	23.50	
		25	0	22.93	22.77	22.88	23.50	
		1	0	22.64	22.48	22.51	23.50	
		1	13	22.64	22.63	22.63	23.50	
		1	24	22.39	22.30	22.36	23.50	
		12	0	21.73	21.58	21.73	22.50	
	10MHz	QPSK	12	6	21.76	21.61	21.54	22.50
			12	13	21.53	21.49	21.44	22.50
			25	0	21.60	21.48	21.54	22.50
1			0	24.68	24.63	24.74	25.50	
1			25	24.68	24.73	24.77	25.50	
1			49	24.58	24.36	24.40	25.50	
10MHz	16QAM	25	0	23.66	23.80	23.75	24.50	
		25	13	23.66	23.63	23.72	24.50	
		25	25	23.56	23.64	23.68	24.50	
		50	0	23.59	23.68	23.69	24.50	
		1	0	23.72	23.60	23.64	24.50	
		1	25	23.61	23.75	23.68	24.50	
	64QAM	1	49	23.55	23.37	23.48	24.50	
		25	0	22.95	22.83	22.96	23.50	
		25	13	22.79	22.82	22.86	23.50	
		25	25	22.85	22.75	22.80	23.50	
		50	0	22.89	22.77	22.78	23.50	
		1	0	22.64	22.61	22.67	23.50	
	10MHz	QPSK	1	25	22.65	22.68	22.67	23.50
			1	49	22.53	22.25	22.33	23.50
			25	0	21.55	21.70	21.68	22.50
			25	13	21.54	21.57	21.65	22.50
			25	25	21.45	21.60	21.67	22.50
			50	0	21.50	21.66	21.60	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				42165	42590	43015		

15MHz	QPSK	1	0	24.75	24.53	24.59	25.50
		1	38	24.71	24.68	24.70	25.50
		1	74	24.61	24.50	24.40	25.50
		36	0	23.79	23.67	23.76	24.50
		36	18	23.71	23.69	23.52	24.50
		36	39	23.73	23.47	23.58	24.50
		75	0	23.78	23.57	23.55	24.50
	16QAM	1	0	23.73	23.53	23.67	24.50
		1	38	23.70	23.61	23.69	24.50
		1	74	23.59	23.48	23.41	24.50
		36	0	22.85	22.72	22.84	23.50
		36	18	22.95	22.83	22.83	23.50
		36	39	22.87	22.70	22.80	23.50
		75	0	22.83	22.71	22.91	23.50
	64QAM	1	0	22.63	22.47	22.58	23.50
		1	38	22.68	22.56	22.64	23.50
		1	74	22.58	22.46	22.33	23.50
		36	0	21.68	21.58	21.66	22.50
		36	18	21.61	21.67	21.42	22.50
		36	39	21.66	21.40	21.46	22.50
		75	0	21.73	21.50	21.43	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				42190	42590	42990	
20MHz	QPSK	1	0	24.69	24.54	24.64	25.50
		1	50	24.70	24.70	24.69	25.50
		1	99	24.52	24.44	24.43	25.50
		50	0	23.72	23.70	23.69	24.50
		50	25	23.71	23.66	23.62	24.50
		50	50	23.65	23.57	23.58	24.50
		100	0	23.69	23.61	23.62	24.50
	16QAM	1	0	23.67	23.60	23.65	24.50
		1	50	23.71	23.66	23.72	24.50
		1	99	23.56	23.44	23.50	24.50
		50	0	22.89	22.81	22.86	23.50
		50	25	22.86	22.80	22.83	23.50
		50	50	22.83	22.72	22.74	23.50
		100	0	22.86	22.75	22.82	23.50
	64QAM	1	0	22.59	22.48	22.53	23.50
		1	50	22.61	22.59	22.63	23.50
		1	99	22.50	22.41	22.32	23.50
		50	0	21.69	21.62	21.68	22.50
		50	25	21.61	21.59	21.50	22.50
		50	50	21.53	21.45	21.46	22.50
		100	0	21.61	21.60	21.54	22.50

LTE Band 42 Receiver on&Hotspot on				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				42115	42590	43065		
5MHz	QPSK	1	0	17.13	17.46	17.51	18.00	
		1	13	17.31	17.44	17.47	18.00	
		1	24	17.22	17.30	17.28	18.00	
		12	0	17.54	17.34	17.63	18.00	
		12	6	17.51	17.31	17.54	18.00	
		12	13	17.18	17.39	17.47	18.00	
	16QAM	25	0	17.42	17.53	17.47	18.00	
		1	0	17.29	17.39	17.46	18.00	
		1	13	17.31	17.53	17.62	18.00	
		1	24	17.28	17.24	17.41	18.00	
		12	0	17.58	17.55	17.66	18.00	
		12	6	17.22	17.53	17.66	18.00	
	64QAM	12	13	17.36	17.45	17.52	18.00	
		25	0	17.47	17.37	17.58	18.00	
		1	0	17.04	17.40	17.39	18.00	
		1	13	17.23	17.34	17.35	18.00	
		1	24	17.16	17.19	17.20	18.00	
		12	0	17.46	17.29	17.59	18.00	
	10MHz	QPSK	12	6	17.48	17.26	17.42	18.00
			12	13	17.17	17.28	17.39	18.00
			25	0	17.34	17.44	17.43	18.00
1			0	17.09	17.36	17.58	18.00	
1			25	17.22	17.44	17.45	18.00	
1			49	17.10	17.24	17.25	18.00	
16QAM		25	0	17.41	17.40	17.66	18.00	
		25	13	17.44	17.32	17.51	18.00	
		25	25	17.06	17.27	17.40	18.00	
		50	0	17.24	17.39	17.57	18.00	
		1	0	17.28	17.38	17.57	18.00	
		1	25	17.29	17.58	17.63	18.00	
64QAM	1	49	17.31	17.27	17.40	18.00		
	25	0	17.56	17.62	17.56	18.00		
	25	13	17.28	17.46	17.45	18.00		
	25	25	17.37	17.41	17.45	18.00		
	50	0	17.34	17.35	17.52	18.00		
	1	0	16.99	17.27	17.47	18.00		
15MHz	QPSK	1	25	17.20	17.34	17.38	18.00	
		1	49	17.00	17.16	17.14	18.00	
		25	0	17.29	17.31	17.65	18.00	
		25	13	17.42	17.20	17.44	18.00	
		25	25	16.98	17.19	17.39	18.00	
		50	0	17.15	17.27	17.51	18.00	
		1	0	17.21	17.43	17.53	18.00	
		1	38	17.27	17.27	17.59	18.00	
15MHz	QPSK	1	74	17.17	17.21	17.32	18.00	
		36	0	17.44	17.28	17.59	18.00	

	16QAM	36	18	17.41	17.24	17.47	18.00
		36	39	17.19	17.19	17.45	18.00
		75	0	17.32	17.44	17.53	18.00
		1	0	17.21	17.24	17.49	18.00
		1	38	17.35	17.44	17.57	18.00
		1	74	17.21	17.16	17.42	18.00
		36	0	17.49	17.57	17.75	18.00
		36	18	17.31	17.35	17.58	18.00
		36	39	17.35	17.28	17.56	18.00
	75	0	17.26	17.38	17.48	18.00	
	64QAM	1	0	17.20	17.39	17.43	18.00
		1	38	17.24	17.19	17.47	18.00
		1	74	17.15	17.13	17.28	18.00
		36	0	17.43	17.23	17.51	18.00
		36	18	17.38	17.19	17.40	18.00
		36	39	17.07	17.14	17.38	18.00
		75	0	17.20	17.38	17.44	18.00
	Bandwidth	Modulation	RB size	RB offset	Channel 42190	Channel 42590	Channel 42990
20MHz	QPSK	1	0	17.18	17.34	17.48	18.00
		1	50	17.62	17.58	17.51	18.00
		1	99	17.09	17.29	17.18	18.00
		50	0	17.61	17.42	17.57	18.00
		50	25	17.40	17.38	17.61	18.00
		50	50	17.13	17.23	17.50	18.00
		100	0	17.50	17.44	17.49	18.00
	16QAM	1	0	17.22	17.28	17.39	18.00
		1	50	17.29	17.45	17.55	18.00
		1	99	17.25	17.18	17.43	18.00
		50	0	17.41	17.52	17.50	18.00
		50	25	17.25	17.35	17.56	18.00
		50	50	17.29	17.28	17.51	18.00
		100	0	17.32	17.33	17.49	18.00
	64QAM	1	0	17.15	17.30	17.36	18.00
		1	50	17.58	17.52	17.50	18.00
		1	99	16.98	17.19	17.09	18.00
		50	0	17.60	17.41	17.55	18.00
		50	25	17.35	17.37	17.59	18.00
		50	50	17.10	17.21	17.44	18.00
		100	0	17.39	17.42	17.42	18.00

LTE Band 42 Sensor on				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				42115	42590	43065		
5MHz	QPSK	1	0	20.73	20.66	20.61	21.50	
		1	13	20.77	20.6	20.55	21.50	
		1	24	20.79	20.63	20.53	21.50	
		12	0	20.72	20.56	20.59	21.50	
		12	6	20.81	20.71	20.61	21.50	
		12	13	20.82	20.63	20.46	21.50	
	16QAM	25	0	20.73	20.64	20.63	21.50	
		1	0	20.82	20.68	20.6	21.50	
		1	13	20.7	20.66	20.51	21.50	
		1	24	20.67	20.64	20.52	21.50	
		12	0	20.85	20.69	20.6	21.50	
		12	6	20.76	20.57	20.49	21.50	
	64QAM	12	13	20.77	20.7	20.68	21.50	
		25	0	20.85	20.7	20.49	21.50	
		1	0	20.69	20.58	20.52	21.50	
		1	13	20.72	20.58	20.45	21.50	
		1	24	20.70	20.54	20.43	21.50	
		12	0	20.67	20.46	20.51	21.50	
	10MHz	QPSK	12	6	20.70	20.66	20.51	21.50
			12	13	20.80	20.57	20.43	21.50
			25	0	20.67	20.52	20.53	21.50
1			0	20.8	20.61	20.6	21.50	
1			25	20.78	20.65	20.54	21.50	
1			49	20.81	20.6	20.5	21.50	
16QAM		25	0	20.74	20.58	20.5	21.50	
		25	13	20.78	20.62	20.65	21.50	
		25	25	20.76	20.6	20.47	21.50	
		50	0	20.76	20.71	20.63	21.50	
		1	0	20.84	20.7	20.61	21.50	
		1	25	20.74	20.57	20.44	21.50	
64QAM	1	49	20.7	20.68	20.6	21.50		
	25	0	20.82	20.65	20.52	21.50		
	25	13	20.83	20.58	20.59	21.50		
	25	25	20.74	20.64	20.69	21.50		
	50	0	20.78	20.63	20.51	21.50		
	1	0	20.77	20.60	20.48	21.50		
15MHz	QPSK	1	25	20.66	20.56	20.44	21.50	
		1	49	20.72	20.52	20.44	21.50	
		25	0	20.66	20.50	20.41	21.50	
		25	13	20.77	20.61	20.59	21.50	
		25	25	20.69	20.55	20.38	21.50	
		50	0	20.69	20.68	20.60	21.50	
		1	0	20.8	20.66	20.69	21.50	
		1	38	20.81	20.58	20.51	21.50	
15MHz	QPSK	1	74	20.78	20.59	20.5	21.50	
		36	0	20.73	20.59	20.58	21.50	

	16QAM	36	18	20.79	20.67	20.63	21.50
		36	39	20.83	20.6	20.53	21.50
		75	0	20.81	20.67	20.6	21.50
		1	0	20.82	20.66	20.6	21.50
		1	38	20.71	20.62	20.48	21.50
		1	74	20.72	20.67	20.56	21.50
		36	0	20.76	20.66	20.51	21.50
		36	18	20.79	20.57	20.58	21.50
		36	39	20.75	20.65	20.6	21.50
	75	0	20.83	20.72	20.52	21.50	
	64QAM	1	0	20.72	20.65	20.65	21.50
		1	38	20.74	20.48	20.43	21.50
		1	74	20.72	20.53	20.48	21.50
		36	0	20.72	20.51	20.53	21.50
		36	18	20.70	20.66	20.58	21.50
		36	39	20.75	20.50	20.50	21.50
		75	0	20.80	20.62	20.56	21.50
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				42190	42590	42990	
20MHz	QPSK	1	0	20.76	20.63	20.60	21.50
		1	50	20.81	20.63	20.90	21.50
		1	99	20.81	20.63	20.56	21.50
		50	0	20.76	20.56	20.78	21.50
		50	25	20.73	20.67	20.56	21.50
		50	50	20.77	20.59	20.50	21.50
		100	0	20.71	20.64	20.62	21.50
	16QAM	1	0	20.82	20.70	20.61	21.50
		1	50	20.76	20.67	20.45	21.50
		1	99	20.72	20.64	20.59	21.50
		50	0	20.78	20.67	20.53	21.50
		50	25	20.85	20.62	20.54	21.50
		50	50	20.72	20.68	20.69	21.50
		100	0	20.84	20.68	20.52	21.50
	64QAM	1	0	20.67	20.57	20.52	21.50
		1	50	20.71	20.62	20.88	21.50
		1	99	20.72	20.59	20.49	21.50
		50	0	20.65	20.45	20.74	21.50
		50	25	20.82	20.55	20.45	21.50
		50	50	20.76	20.51	20.38	21.50
		100	0	20.66	20.62	20.50	21.50

11 Conducted Power of EN-DC

ANT2:

EN-DC B7 Full Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20775	21100	21425	
5MHz	QPSK	1	0	22.58	22.67	22.51	23.90
		1	13	22.60	22.81	22.62	23.90
		1	24	22.61	22.62	22.55	23.90
		12	0	21.79	21.66	21.81	22.90
		12	6	21.76	21.73	21.81	22.90
		12	13	21.64	21.69	21.50	22.90
		25	0	21.79	21.63	21.82	22.90
	16QAM	1	0	21.62	21.73	21.73	22.90
		1	13	21.80	21.72	21.87	22.90
		1	24	21.54	21.67	21.46	22.90
		12	0	20.63	20.72	20.79	21.90
		12	6	20.63	20.67	20.74	21.90
		12	13	20.63	20.66	20.66	21.90
		25	0	20.73	20.59	20.78	21.90
	64QAM	1	0	20.84	20.75	20.65	21.90
		1	13	20.76	20.71	20.70	21.90
		1	24	20.51	20.58	20.53	21.90
		12	0	19.74	19.72	19.81	20.90
		12	6	19.91	19.75	19.87	20.90
		12	13	19.69	19.81	19.77	20.90
		25	0	19.79	19.80	19.92	20.90
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20800	21100	21400	
10MHz	QPSK	1	0	22.59	22.64	22.53	23.90
		1	25	22.77	22.70	22.69	23.90
		1	49	22.66	22.56	22.50	23.90
		25	0	21.71	21.67	21.79	22.90
		25	13	21.67	21.66	21.70	22.90
		25	25	21.66	21.69	21.46	22.90
		50	0	21.73	21.64	21.70	22.90
	16QAM	1	0	21.64	21.65	21.64	22.90
		1	25	21.80	21.77	21.81	22.90
		1	49	21.53	21.57	21.56	22.90
		25	0	20.77	20.70	20.74	21.90
		25	13	20.66	20.64	20.78	21.90
		25	25	20.74	20.53	20.64	21.90
		50	0	20.80	20.68	20.71	21.90
	64QAM	1	0	20.86	20.72	20.78	21.90
		1	25	20.64	20.82	20.67	21.90
		1	49	20.41	20.51	20.37	21.90
		25	0	19.70	19.69	19.86	20.90
		25	13	19.92	19.75	19.79	20.90
		25	25	19.65	19.78	19.88	20.90
		50	0	19.82	19.74	19.90	20.90
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up

Bandwidth	Modulation	RB size	RB offset	20825	21100	21375	Tune up
				Channel	Channel	Channel	
15MHz	QPSK	1	0	22.55	22.59	22.61	23.90
		1	38	22.69	22.70	22.62	23.90
		1	74	22.61	22.55	22.59	23.90
		36	0	21.81	21.66	21.68	22.90
		36	18	21.72	21.66	21.76	22.90
		36	39	21.72	21.70	21.58	22.90
		75	0	21.74	21.64	21.86	22.90
	16QAM	1	0	21.59	21.73	21.61	22.90
		1	38	21.69	21.82	21.99	22.90
		1	74	21.69	21.61	21.49	22.90
		36	0	20.72	20.67	20.77	21.90
		36	18	20.64	20.60	20.67	21.90
		36	39	20.62	20.52	20.68	21.90
		75	0	20.82	20.67	20.80	21.90
	64QAM	1	0	20.74	20.62	20.74	21.90
		1	38	20.70	20.70	20.58	21.90
		1	74	20.48	20.52	20.45	21.90
		36	0	19.72	19.68	19.86	20.90
		36	18	19.86	19.89	19.79	20.90
		36	39	19.82	19.83	19.93	20.90
		75	0	19.82	19.75	19.92	20.90
				20850	21100	21350	
20MHz	QPSK	1	0	22.62	22.61	22.53	23.90
		1	50	22.70	22.74	22.68	23.90
		1	99	22.62	22.55	22.51	23.90
		50	0	21.76	21.76	21.74	22.90
		50	25	21.74	21.74	21.73	22.90
		50	50	21.70	21.62	21.52	22.90
		100	0	21.74	21.71	21.78	22.90
	16QAM	1	0	21.59	21.68	21.71	22.90
		1	50	21.72	21.82	21.91	22.90
		1	99	21.62	21.62	21.53	22.90
		50	0	20.70	20.67	20.72	21.90
		50	25	20.69	20.68	20.72	21.90
		50	50	20.66	20.62	20.68	21.90
		100	0	20.74	20.67	20.75	21.90
	64QAM	1	0	20.78	20.69	20.73	21.90
		1	50	20.71	20.78	20.68	21.90
		1	99	20.48	20.56	20.47	21.90
		50	0	19.71	19.78	19.84	20.90
		50	25	19.90	19.84	19.85	20.90
		50	50	19.74	19.76	19.85	20.90
		100	0	19.76	19.78	19.84	20.90

EN-DC B7 Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20775	21100	21425	
5MHz	QPSK	1	0	19.68	19.75	19.56	20.30
		1	13	19.65	19.85	19.68	20.30
		1	24	19.69	19.72	19.58	20.30
		12	0	19.75	19.62	19.78	20.30
		12	6	19.69	19.65	19.71	20.30
		12	13	19.56	19.61	19.48	20.30
		25	0	19.73	19.59	19.75	20.30
	16QAM	1	0	19.60	19.69	19.66	20.30
		1	13	19.73	19.68	19.82	20.30
		1	24	19.45	19.60	19.42	20.30
		12	0	19.55	19.62	19.71	20.30
		12	6	19.58	19.58	19.69	20.30
		12	13	19.55	19.64	19.58	20.30
		25	0	19.68	19.53	19.69	20.30
	64QAM	1	0	19.79	19.73	19.55	20.30
		1	13	19.71	19.68	19.67	20.30
		1	24	19.48	19.50	19.45	20.30
		12	0	19.72	19.67	19.77	20.30
		12	6	19.88	19.65	19.85	20.30
		12	13	19.60	19.78	19.71	20.30
		25	0	19.76	19.78	19.90	20.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	QPSK	1	0	19.67	19.71	19.59	20.30
		1	25	19.81	19.80	19.74	20.30
		1	49	19.74	19.65	19.52	20.30
		25	0	19.65	19.62	19.74	20.30
		25	13	19.62	19.62	19.62	20.30
		25	25	19.62	19.62	19.37	20.30
		50	0	19.64	19.61	19.67	20.30
	16QAM	1	0	19.60	19.58	19.58	20.30
		1	25	19.71	19.68	19.77	20.30
		1	49	19.44	19.53	19.50	20.30
		25	0	19.72	19.61	19.68	20.30
		25	13	19.61	19.54	19.70	20.30
		25	25	19.71	19.45	19.57	20.30
		50	0	19.71	19.59	19.62	20.30
	64QAM	1	0	19.77	19.64	19.73	20.30
		1	25	19.61	19.74	19.58	20.30
		1	49	19.31	19.42	19.35	20.30
		25	0	19.63	19.67	19.81	20.30
		25	13	19.90	19.69	19.75	20.30
		25	25	19.61	19.68	19.78	20.30
		50	0	19.76	19.65	19.80	20.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	QPSK	1	0	19.61	19.68	19.66	20.30
		1	38	19.78	19.79	19.71	20.30
		1	74	19.70	19.61	19.67	20.30
		36	0	19.71	19.64	19.62	20.30
						20825	21100

	16QAM	36	18	19.63	19.57	19.69	20.30
		36	39	19.68	19.68	19.54	20.30
		75	0	19.65	19.62	19.82	20.30
		1	0	19.51	19.65	19.54	20.30
		1	38	19.61	19.77	19.92	20.30
		1	74	19.67	19.52	19.43	20.30
		36	0	19.68	19.61	19.72	20.30
		36	18	19.62	19.56	19.60	20.30
		36	39	19.53	19.48	19.63	20.30
	75	0	19.75	19.57	19.74	20.30	
	64QAM	1	0	19.68	19.58	19.72	20.30
		1	38	19.68	19.64	19.51	20.30
		1	74	19.39	19.50	19.42	20.30
		36	0	19.63	19.58	19.83	20.30
		36	18	19.76	19.81	19.69	20.30
		36	39	19.80	19.74	19.86	20.30
		75	0	19.75	19.69	19.82	20.30
	Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350
20MHz	QPSK	1	0	19.67	19.70	19.59	20.30
		1	50	19.77	19.84	19.76	20.30
		1	99	19.68	19.64	19.54	20.30
		50	0	19.72	19.73	19.67	20.30
		50	25	19.71	19.71	19.68	20.30
		50	50	19.63	19.52	19.45	20.30
		100	0	19.72	19.69	19.71	20.30
	16QAM	1	0	19.52	19.62	19.65	20.30
		1	50	19.64	19.75	19.83	20.30
		1	99	19.60	19.60	19.48	20.30
		50	0	19.65	19.61	19.62	20.30
		50	25	19.60	19.63	19.66	20.30
		50	50	19.62	19.60	19.62	20.30
	64QAM	100	0	19.70	19.59	19.66	20.30
		1	0	19.69	19.64	19.69	20.30
		1	50	19.61	19.75	19.62	20.30
		1	99	19.45	19.52	19.37	20.30
		50	0	19.61	19.71	19.82	20.30
		50	25	19.88	19.79	19.80	20.30
		50	50	19.64	19.67	19.75	20.30
	100	0	19.66	19.76	19.75	20.30	

ANT4:

EN-DC B7 Full Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20775	21100	21425	
5MHz	QPSK	1	0	23.74	23.49	23.46	25.10
		1	13	23.66	23.64	23.62	25.10
		1	24	23.51	23.60	23.48	25.10
		12	0	22.61	22.58	22.69	24.10
		12	6	22.71	22.72	22.74	24.10
		12	13	22.66	22.66	22.66	24.10
		25	0	22.54	22.62	22.52	24.10
	16QAM	1	0	22.64	22.60	22.63	24.10
		1	13	22.89	22.79	22.64	24.10
		1	24	22.72	22.62	22.43	24.10
		12	0	21.65	21.56	21.70	23.10
		12	6	21.69	21.61	21.67	23.10
		12	13	21.48	21.52	21.63	23.10
		25	0	21.56	21.55	21.69	23.10
	64QAM	1	0	21.77	21.58	21.63	23.10
		1	13	21.86	21.83	21.69	23.10
		1	24	21.49	21.51	21.57	23.10
		12	0	20.67	20.69	20.73	22.10
		12	6	20.73	20.71	20.72	22.10
		12	13	20.77	20.67	20.85	22.10
		25	0	20.79	20.66	20.73	22.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	QPSK	1	0	23.67	23.68	23.63	25.10
		1	25	23.56	23.71	23.72	25.10
		1	49	23.50	23.50	23.54	25.10
		25	0	22.57	22.68	22.60	24.10
		25	13	22.74	22.63	22.74	24.10
		25	25	22.74	22.53	22.67	24.10
		50	0	22.57	22.56	22.66	24.10
	16QAM	1	0	22.74	22.75	22.60	24.10
		1	25	22.80	22.83	22.72	24.10
		1	49	22.66	22.54	22.58	24.10
		25	0	21.73	21.60	21.65	23.10
		25	13	21.63	21.77	21.61	23.10
		25	25	21.54	21.65	21.59	23.10
		50	0	21.61	21.69	21.66	23.10
	64QAM	1	0	21.76	21.61	21.64	23.10
		1	25	21.71	21.75	21.71	23.10
		1	49	21.49	21.63	21.57	23.10
		25	0	20.69	20.72	20.82	22.10
		25	13	20.77	20.80	20.79	22.10
		25	25	20.84	20.71	20.88	22.10
		50	0	20.79	20.73	20.72	22.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	QPSK	1	0	20825	21100	21375	25.10

		1	38	23.58	23.72	23.63	25.10	
		1	74	23.42	23.61	23.49	25.10	
		36	0	22.52	22.57	22.54	24.10	
		36	18	22.86	22.78	22.77	24.10	
		36	39	22.66	22.68	22.74	24.10	
		75	0	22.66	22.69	22.57	24.10	
	16QAM	1	0	22.76	22.62	22.60	24.10	
		1	38	22.94	22.71	22.65	24.10	
		1	74	22.62	22.49	22.47	24.10	
		36	0	21.65	21.54	21.53	23.10	
		36	18	21.75	21.77	21.54	23.10	
		36	39	21.48	21.63	21.58	23.10	
	64QAM	75	0	21.55	21.58	21.53	23.10	
		1	0	21.62	21.57	21.73	23.10	
		1	38	21.80	21.86	21.70	23.10	
		1	74	21.49	21.60	21.62	23.10	
		36	0	20.64	20.89	20.88	22.10	
		36	18	20.79	20.67	20.77	22.10	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
					20850	21100	21350	
	20MHz	QPSK	1	0	23.70	23.60	23.58	25.10
1			50	23.67	23.72	23.64	25.10	
1			99	23.47	23.53	23.58	25.10	
50			0	22.62	22.81	22.64	24.10	
50			25	22.80	22.72	22.70	24.10	
50			50	22.72	22.65	22.75	24.10	
16QAM		100	0	22.59	22.67	22.64	24.10	
		1	0	22.69	22.68	22.68	24.10	
		1	50	22.86	22.80	22.74	24.10	
		1	99	22.65	22.61	22.53	24.10	
		50	0	21.69	21.63	21.62	23.10	
		50	25	21.70	21.69	21.61	23.10	
64QAM		50	50	21.60	21.58	21.67	23.10	
		100	0	21.61	21.64	21.63	23.10	
		1	0	21.71	21.62	21.65	23.10	
		1	50	21.79	21.78	21.77	23.10	
		1	99	21.48	21.55	21.55	23.10	
		50	0	20.75	20.81	20.84	22.10	
			50	25	20.72	20.79	20.72	22.10
			50	50	20.78	20.76	20.80	22.10
			100	0	20.81	20.73	20.71	22.10

EN-DC B7 Receiver on&Hotspot on				Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
				20775	21100	21425			
5MHz	QPSK	1	0	13.81	13.54	13.55	15.10		
		1	13	13.77	13.76	13.70	15.10		
		1	24	13.60	13.62	13.56	15.10		
		12	0	13.56	13.52	13.61	15.10		
		12	6	13.64	13.67	13.62	15.10		
		12	13	13.54	13.59	13.62	15.10		
	16QAM	25	0	13.48	13.55	13.49	15.10		
		1	0	13.62	13.50	13.52	15.10		
		1	13	13.77	13.76	13.55	15.10		
		1	24	13.70	13.56	13.33	15.10		
		12	0	13.60	13.53	13.63	15.10		
		12	6	13.57	13.49	13.57	15.10		
	64QAM	12	13	13.44	13.41	13.52	15.10		
		25	0	13.44	13.43	13.61	15.10		
		1	0	13.74	13.52	13.53	15.10		
		1	13	13.84	13.77	13.63	15.10		
		1	24	13.43	13.45	13.51	15.10		
		12	0	13.60	13.65	13.62	15.10		
10MHz	QPSK	12	6	13.62	13.69	13.60	15.10		
		12	13	13.74	13.56	13.76	15.10		
		25	0	13.69	13.57	13.67	15.10		
		1	0	13.70	13.76	13.71	15.10		
		1	25	13.59	13.78	13.75	15.10		
		1	49	13.53	13.54	13.56	15.10		
	16QAM	25	0	13.54	13.56	13.54	15.10		
		25	13	13.63	13.55	13.68	15.10		
		25	25	13.72	13.47	13.63	15.10		
		50	0	13.45	13.53	13.56	15.10		
		1	0	13.69	13.70	13.49	15.10		
		1	25	13.76	13.77	13.69	15.10		
	64QAM	1	49	13.63	13.49	13.52	15.10		
		25	0	13.62	13.54	13.56	15.10		
		25	13	13.57	13.73	13.53	15.10		
		25	25	13.46	13.53	13.54	15.10		
		50	0	13.51	13.57	13.54	15.10		
		1	0	13.65	13.53	13.59	15.10		
15MHz	QPSK	1	25	13.66	13.63	13.66	15.10		
		1	49	13.37	13.58	13.47	15.10		
		25	0	13.67	13.65	13.78	15.10		
		25	13	13.75	13.78	13.73	15.10		
		25	25	13.82	13.69	13.83	15.10		
		50	0	13.74	13.62	13.70	15.10		
		EN-DC B7 Receiver on&Hotspot on	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
						20825	21100	21375	
		15MHz	QPSK	1	0	13.65	13.53	13.66	15.10
				1	38	13.65	13.75	13.68	15.10
				1	74	13.44	13.73	13.57	15.10
				36	0	13.46	13.49	13.47	15.10

	16QAM	36	18	13.77	13.76	13.67	15.10
		36	39	13.56	13.66	13.63	15.10
		75	0	13.55	13.66	13.47	15.10
		1	0	13.73	13.50	13.54	15.10
		1	38	13.90	13.65	13.63	15.10
		1	74	13.52	13.40	13.37	15.10
		36	0	13.57	13.47	13.51	15.10
		36	18	13.67	13.67	13.51	15.10
		36	39	13.44	13.59	13.49	15.10
	75	0	13.48	13.52	13.51	15.10	
	64QAM	1	0	13.52	13.52	13.71	15.10
		1	38	13.77	13.78	13.68	15.10
		1	74	13.42	13.50	13.55	15.10
		36	0	13.53	13.80	13.86	15.10
		36	18	13.69	13.59	13.67	15.10
		36	39	13.68	13.65	13.81	15.10
		75	0	13.81	13.53	13.51	15.10
	Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350
20MHz	QPSK	1	0	13.76	13.69	13.67	15.10
		1	50	13.77	13.81	13.69	15.10
		1	99	13.51	13.56	13.65	15.10
		50	0	13.56	13.71	13.55	15.10
		50	25	13.68	13.65	13.67	15.10
		50	50	13.70	13.62	13.64	15.10
		100	0	13.54	13.60	13.59	15.10
	16QAM	1	0	13.64	13.61	13.59	15.10
		1	50	13.74	13.70	13.64	15.10
		1	99	13.58	13.54	13.51	15.10
		50	0	13.64	13.58	13.54	15.10
		50	25	13.67	13.60	13.59	15.10
		50	50	13.55	13.54	13.59	15.10
		100	0	13.56	13.60	13.52	15.10
	64QAM	1	0	13.68	13.52	13.59	15.10
		1	50	13.77	13.71	13.69	15.10
		1	99	13.41	13.51	13.47	15.10
		50	0	13.68	13.74	13.82	15.10
		50	25	13.63	13.72	13.60	15.10
		50	50	13.76	13.74	13.73	15.10
		100	0	13.74	13.64	13.65	15.10

EN-DC B7 Sensor on				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				20775	21100	21425		
5MHz	QPSK	1	0	19.77	19.56	19.52	21.10	
		1	13	19.68	19.73	19.65	21.10	
		1	24	19.53	19.66	19.51	21.10	
		12	0	19.58	19.48	19.60	21.10	
		12	6	19.63	19.68	19.62	21.10	
		12	13	19.61	19.62	19.57	21.10	
	16QAM	25	0	19.52	19.52	19.44	21.10	
		1	0	19.52	19.56	19.61	21.10	
		1	13	19.82	19.69	19.62	21.10	
		1	24	19.60	19.54	19.39	21.10	
		12	0	19.55	19.45	19.63	21.10	
		12	6	19.62	19.57	19.60	21.10	
	64QAM	12	13	19.38	19.44	19.58	21.10	
		25	0	19.46	19.46	19.67	21.10	
		1	0	19.75	19.55	19.56	21.10	
		1	13	19.78	19.72	19.57	21.10	
		1	24	19.46	19.39	19.55	21.10	
		12	0	19.63	19.58	19.62	21.10	
	10MHz	QPSK	12	6	19.71	19.64	19.65	21.10
			12	13	19.70	19.61	19.79	21.10
			25	0	19.75	19.55	19.66	21.10
1			0	19.69	19.77	19.67	21.10	
1			25	19.58	19.79	19.84	21.10	
1			49	19.54	19.54	19.65	21.10	
16QAM		25	0	19.47	19.57	19.52	21.10	
		25	13	19.68	19.55	19.66	21.10	
		25	25	19.72	19.45	19.57	21.10	
		50	0	19.52	19.53	19.55	21.10	
		1	0	19.70	19.71	19.54	21.10	
		1	25	19.71	19.73	19.70	21.10	
64QAM	1	49	19.56	19.48	19.49	21.10		
	25	0	19.68	19.50	19.59	21.10		
	25	13	19.53	19.68	19.55	21.10		
	25	25	19.46	19.60	19.53	21.10		
	50	0	19.57	19.66	19.58	21.10		
	1	0	19.70	19.59	19.52	21.10		
15MHz	QPSK	1	25	19.67	19.64	19.61	21.10	
		1	49	19.46	19.57	19.55	21.10	
		25	0	19.57	19.66	19.70	21.10	
		25	13	19.70	19.78	19.68	21.10	
		25	25	19.74	19.67	19.81	21.10	
		50	0	19.73	19.66	19.65	21.10	
		1	0	19.67	19.59	19.61	21.10	
		1	38	19.61	19.79	19.75	21.10	
15MHz	QPSK	1	74	19.45	19.65	19.53	21.10	
		36	0	19.45	19.53	19.50	21.10	

	16QAM	36	18	19.74	19.70	19.72	21.10
		36	39	19.59	19.56	19.66	21.10
		75	0	19.57	19.62	19.51	21.10
		1	0	19.68	19.60	19.53	21.10
		1	38	19.89	19.61	19.60	21.10
		1	74	19.52	19.42	19.43	21.10
		36	0	19.61	19.52	19.41	21.10
		36	18	19.64	19.70	19.49	21.10
		36	39	19.41	19.59	19.46	21.10
	75	0	19.44	19.49	19.47	21.10	
	64QAM	1	0	19.52	19.53	19.71	21.10
		1	38	19.70	19.80	19.60	21.10
		1	74	19.43	19.51	19.58	21.10
		36	0	19.53	19.86	19.76	21.10
		36	18	19.70	19.63	19.75	21.10
		36	39	19.74	19.68	19.74	21.10
		75	0	19.73	19.63	19.51	21.10
	Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350
20MHz	QPSK	1	0	19.82	19.69	19.66	21.10
		1	50	19.76	19.83	19.70	21.10
		1	99	19.54	19.62	19.64	21.10
		50	0	19.59	19.73	19.62	21.10
		50	25	19.72	19.69	19.58	21.10
		50	50	19.68	19.62	19.65	21.10
		100	0	19.50	19.61	19.54	21.10
	16QAM	1	0	19.64	19.58	19.61	21.10
		1	50	19.78	19.77	19.68	21.10
		1	99	19.55	19.59	19.43	21.10
		50	0	19.64	19.56	19.59	21.10
		50	25	19.58	19.66	19.56	21.10
		50	50	19.52	19.54	19.59	21.10
		100	0	19.57	19.60	19.56	21.10
	64QAM	1	0	19.59	19.58	19.57	21.10
		1	50	19.76	19.74	19.73	21.10
		1	99	19.43	19.43	19.46	21.10
		50	0	19.70	19.71	19.74	21.10
		50	25	19.64	19.77	19.67	21.10
		50	50	19.68	19.70	19.75	21.10
		100	0	19.79	19.66	19.59	21.10

ANT5:

EN-DC B7 Full power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20775	21100	21425	
5MHz	QPSK	1	0	21.73	21.74	21.75	23.00
		1	13	21.76	21.81	21.78	23.00
		1	24	21.64	21.69	21.61	23.00
		12	0	21.69	21.63	21.44	23.00
		12	6	21.52	21.63	21.62	23.00
		12	13	21.57	21.51	21.61	23.00
		25	0	21.68	21.53	21.63	23.00
	16QAM	1	0	21.66	21.49	21.48	23.00
		1	13	21.92	21.70	21.60	23.00
		1	24	21.45	21.53	21.64	23.00
		12	0	21.61	21.71	21.69	23.00
		12	6	21.57	21.82	21.68	23.00
		12	13	21.70	21.71	21.66	23.00
		25	0	21.65	21.57	21.53	23.00
	64QAM	1	0	21.58	21.52	21.52	23.00
		1	13	21.83	21.68	21.76	23.00
		1	24	21.54	21.67	21.54	23.00
		12	0	20.71	20.78	20.75	22.00
		12	6	20.75	20.89	20.84	22.00
		12	13	20.93	20.76	20.78	22.00
		25	0	20.91	20.76	20.76	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	QPSK	1	0	21.72	21.68	21.70	23.00
		1	25	21.91	21.93	21.79	23.00
		1	49	21.61	21.54	21.66	23.00
		25	0	21.56	21.77	21.54	23.00
		25	13	21.56	21.54	21.68	23.00
		25	25	21.78	21.65	21.62	23.00
		50	0	21.70	21.63	21.57	23.00
	16QAM	1	0	21.80	21.58	21.61	23.00
		1	25	21.70	21.71	21.78	23.00
		1	49	21.39	21.48	21.51	23.00
		25	0	21.62	21.76	21.58	23.00
		25	13	21.68	21.70	21.78	23.00
		25	25	21.71	21.67	21.77	23.00
		50	0	21.64	21.60	21.63	23.00
	64QAM	1	0	21.66	21.71	21.66	23.00
		1	25	21.75	21.87	21.81	23.00
		1	49	21.63	21.62	21.41	23.00
		25	0	20.80	20.73	20.76	22.00
		25	13	20.82	20.85	20.91	22.00
		25	25	20.79	20.66	20.71	22.00
		50	0	20.72	20.89	20.78	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	QPSK	1	0	20825	21100	21375	23.00
15MHz	QPSK	1	0	21.79	21.73	21.63	23.00

		1	38	21.88	21.87	21.85	23.00	
		1	74	21.61	21.53	21.71	23.00	
		36	0	21.59	21.49	21.51	23.00	
		36	18	21.64	21.62	21.55	23.00	
		36	39	21.78	21.56	21.62	23.00	
		75	0	21.60	21.55	21.57	23.00	
	16QAM	1	0	21.85	21.72	21.64	23.00	
		1	38	21.80	21.85	21.63	23.00	
		1	74	21.44	21.62	21.53	23.00	
		36	0	21.57	21.64	21.50	23.00	
		36	18	21.53	21.81	21.78	23.00	
		36	39	21.70	21.61	21.70	23.00	
	64QAM	75	0	21.58	21.58	21.51	23.00	
		1	0	21.71	21.57	21.69	23.00	
		1	38	21.85	21.73	21.69	23.00	
		1	74	21.72	21.51	21.51	23.00	
		36	0	20.66	20.86	20.95	22.00	
		36	18	20.74	20.87	20.89	22.00	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
					20850	21100	21350	
	20MHz	QPSK	1	0	21.74	21.74	21.67	23.00
1			50	21.89	21.90	21.83	23.00	
1			99	21.64	21.61	21.71	23.00	
50			0	21.63	21.73	21.60	23.00	
50			25	21.64	21.72	21.71	23.00	
50			50	21.67	21.63	21.56	23.00	
16QAM		100	0	21.70	21.60	21.61	23.00	
		1	0	21.74	21.70	21.63	23.00	
		1	50	21.84	21.75	21.67	23.00	
		1	99	21.53	21.56	21.61	23.00	
		50	0	21.63	21.72	21.63	23.00	
		50	25	21.64	21.74	21.72	23.00	
64QAM		50	50	21.65	21.65	21.71	23.00	
		100	0	21.70	21.69	21.59	23.00	
		1	0	21.66	21.65	21.63	23.00	
		1	50	21.79	21.81	21.79	23.00	
		1	99	21.65	21.62	21.54	23.00	
		50	0	20.79	20.86	20.87	22.00	
			50	25	20.75	20.83	20.88	22.00
			50	50	20.87	20.79	20.71	22.00
			100	0	20.84	20.83	20.86	22.00

EN-DC B7 Receiver on&Hotspot on				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				20775	21100	21425		
5MHz	QPSK	1	0	12.81	12.82	12.87	14.00	
		1	13	12.78	12.85	12.90	14.00	
		1	24	12.75	12.80	12.66	14.00	
		12	0	12.71	12.67	12.46	14.00	
		12	6	12.55	12.72	12.72	14.00	
		12	13	12.64	12.54	12.71	14.00	
	16QAM	25	0	12.72	12.63	12.73	14.00	
		1	0	12.55	12.42	12.39	14.00	
		1	13	12.82	12.66	12.48	14.00	
		1	24	12.41	12.42	12.58	14.00	
		12	0	12.54	12.69	12.58	14.00	
		12	6	12.53	12.76	12.66	14.00	
	64QAM	12	13	12.66	12.68	12.59	14.00	
		25	0	12.62	12.48	12.47	14.00	
		1	0	12.52	12.49	12.50	14.00	
		1	13	12.79	12.64	12.70	14.00	
		1	24	12.45	12.62	12.46	14.00	
		12	0	12.69	12.74	12.63	14.00	
	10MHz	QPSK	12	6	12.65	12.87	12.73	14.00
			12	13	12.81	12.64	12.75	14.00
			25	0	12.87	12.65	12.70	14.00
1			0	12.81	12.70	12.78	14.00	
1			25	12.97	13.02	12.86	14.00	
1			49	12.66	12.65	12.73	14.00	
16QAM		25	0	12.65	12.81	12.60	14.00	
		25	13	12.64	12.65	12.73	14.00	
		25	25	12.84	12.75	12.73	14.00	
		50	0	12.73	12.67	12.68	14.00	
		1	0	12.77	12.46	12.56	14.00	
		1	25	12.63	12.65	12.71	14.00	
64QAM	1	49	12.29	12.38	12.44	14.00		
	25	0	12.53	12.64	12.53	14.00		
	25	13	12.66	12.65	12.72	14.00		
	25	25	12.61	12.65	12.74	14.00		
	50	0	12.53	12.51	12.57	14.00		
	1	0	12.64	12.59	12.56	14.00		
15MHz	QPSK	1	25	12.70	12.82	12.79	14.00	
		1	49	12.57	12.58	12.37	14.00	
		25	0	12.74	12.63	12.66	14.00	
		25	13	12.75	12.78	12.80	14.00	
		25	25	12.73	12.60	12.63	14.00	
		50	0	12.67	12.83	12.69	14.00	
		1	0	12.87	12.79	12.69	14.00	
		1	38	12.92	12.89	12.87	14.00	
15MHz	QPSK	1	74	12.72	12.60	12.81	14.00	
		36	0	12.64	12.55	12.54	14.00	

	16QAM	36	18	12.74	12.71	12.58	14.00
		36	39	12.89	12.67	12.65	14.00
		75	0	12.68	12.59	12.61	14.00
		1	0	12.74	12.69	12.61	14.00
		1	38	12.68	12.73	12.55	14.00
		1	74	12.37	12.59	12.46	14.00
		36	0	12.55	12.55	12.48	14.00
		36	18	12.50	12.74	12.69	14.00
		36	39	12.59	12.56	12.65	14.00
	75	0	12.55	12.47	12.41	14.00	
	64QAM	1	0	12.65	12.55	12.67	14.00
		1	38	12.82	12.71	12.62	14.00
		1	74	12.61	12.44	12.44	14.00
		36	0	12.64	12.82	12.87	14.00
		36	18	12.71	12.77	12.84	14.00
		36	39	12.81	12.68	12.51	14.00
		75	0	12.74	12.73	12.71	14.00
	Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350
20MHz	QPSK	1	0	12.77	12.80	12.75	14.00
		1	50	13.15	13.15	12.90	14.00
		1	99	12.75	12.66	12.81	14.00
		50	0	12.73	13.25	12.67	14.00
		50	25	12.71	12.78	12.83	14.00
		50	50	12.78	12.65	12.63	14.00
		100	0	12.80	12.62	12.70	14.00
	16QAM	1	0	12.62	12.63	12.51	14.00
		1	50	12.81	12.71	12.63	14.00
		1	99	12.47	12.48	12.57	14.00
		50	0	12.53	12.64	12.61	14.00
		50	25	12.59	12.67	12.61	14.00
		50	50	12.61	12.55	12.66	14.00
		100	0	12.66	12.66	12.55	14.00
	64QAM	1	0	12.54	12.58	12.59	14.00
		1	50	12.75	12.74	12.67	14.00
		1	99	12.63	12.60	12.48	14.00
		50	0	12.76	12.80	12.76	14.00
		50	25	12.68	12.80	12.85	14.00
		50	50	12.79	12.74	12.67	14.00
		100	0	12.82	12.73	12.81	14.00



EN-DC B7 Sensor on				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				20775	21100	21425		
5MHz	QPSK	1	0	17.72	17.77	17.77	19.00	
		1	13	17.83	17.81	17.70	19.00	
		1	24	17.62	17.72	17.69	19.00	
		12	0	17.82	17.77	17.65	19.00	
		12	6	17.69	17.74	17.81	19.00	
		12	13	17.66	17.69	17.78	19.00	
	16QAM	25	0	17.86	17.66	17.73	19.00	
		1	0	17.68	17.54	17.53	19.00	
		1	13	17.92	17.66	17.63	19.00	
		1	24	17.47	17.58	17.57	19.00	
		12	0	17.57	17.66	17.58	19.00	
		12	6	17.49	17.77	17.63	19.00	
	64QAM	12	13	17.62	17.60	17.59	19.00	
		25	0	17.59	17.51	17.51	19.00	
		1	0	17.56	17.41	17.40	19.00	
		1	13	17.72	17.61	17.74	19.00	
		1	24	17.52	17.59	17.42	19.00	
		12	0	17.60	17.66	17.66	19.00	
	10MHz	QPSK	12	6	17.70	17.82	17.75	19.00
			12	13	17.81	17.71	17.69	19.00
			25	0	17.87	17.71	17.68	19.00
1			0	17.73	17.65	17.68	19.00	
1			25	17.93	17.90	17.77	19.00	
1			49	17.59	17.59	17.68	19.00	
16QAM		25	0	17.71	17.86	17.66	19.00	
		25	13	17.69	17.69	17.90	19.00	
		25	25	17.86	17.81	17.76	19.00	
		50	0	17.84	17.76	17.71	19.00	
		1	0	17.79	17.63	17.61	19.00	
		1	25	17.71	17.68	17.75	19.00	
64QAM	1	49	17.36	17.51	17.54	19.00		
	25	0	17.57	17.71	17.49	19.00		
	25	13	17.58	17.63	17.72	19.00		
	25	25	17.65	17.56	17.72	19.00		
	50	0	17.57	17.53	17.58	19.00		
	1	0	17.56	17.60	17.63	19.00		
15MHz	QPSK	1	25	17.70	17.80	17.69	19.00	
		1	49	17.58	17.56	17.35	19.00	
		25	0	17.70	17.71	17.74	19.00	
		25	13	17.79	17.82	17.80	19.00	
		25	25	17.67	17.58	17.59	19.00	
		50	0	17.69	17.82	17.72	19.00	
		1	0	17.73	17.80	17.60	19.00	
		1	38	17.92	17.87	17.87	19.00	
15MHz	QPSK	1	74	17.62	17.55	17.70	19.00	
		36	0	17.71	17.68	17.65	19.00	

	16QAM	36	18	17.69	17.75	17.73	19.00
		36	39	17.89	17.71	17.82	19.00
		75	0	17.77	17.73	17.71	19.00
		1	0	17.83	17.68	17.69	19.00
		1	38	17.75	17.82	17.58	19.00
		1	74	17.54	17.63	17.62	19.00
		36	0	17.54	17.56	17.41	19.00
		36	18	17.41	17.74	17.69	19.00
		36	39	17.68	17.53	17.60	19.00
	75	0	17.46	17.56	17.43	19.00	
	64QAM	1	0	17.62	17.52	17.61	19.00
		1	38	17.76	17.68	17.65	19.00
		1	74	17.60	17.47	17.40	19.00
		36	0	17.55	17.82	17.90	19.00
		36	18	17.67	17.75	17.84	19.00
		36	39	17.83	17.68	17.49	19.00
		75	0	17.82	17.76	17.71	19.00
	Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350
20MHz	QPSK	1	0	17.80	17.71	17.68	19.00
		1	50	17.89	17.87	17.88	19.00
		1	99	17.67	17.61	17.73	19.00
		50	0	17.80	17.74	17.75	19.00
		50	25	17.78	17.85	17.84	19.00
		50	50	17.78	17.79	17.73	19.00
		100	0	17.81	17.78	17.77	19.00
	16QAM	1	0	17.70	17.68	17.68	19.00
		1	50	17.89	17.75	17.65	19.00
		1	99	17.54	17.62	17.63	19.00
		50	0	17.61	17.64	17.52	19.00
		50	25	17.60	17.72	17.66	19.00
		50	50	17.61	17.61	17.62	19.00
		100	0	17.61	17.65	17.47	19.00
	64QAM	1	0	17.55	17.53	17.54	19.00
		1	50	17.71	17.76	17.69	19.00
		1	99	17.54	17.53	17.51	19.00
		50	0	17.71	17.79	17.80	19.00
		50	25	17.63	17.73	17.80	19.00
		50	50	17.79	17.73	17.60	19.00
		100	0	17.73	17.73	17.83	19.00

ANT8:

EN-DC B7 Full power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20775	21100	21425	
5MHz	QPSK	1	0	18.94	18.93	18.89	20.50
		1	13	19.25	19.15	19.07	20.50
		1	24	19.06	18.94	18.92	20.50
		12	0	19.12	18.99	18.93	20.50
		12	6	19.03	19.15	19.18	20.50
		12	13	19.04	19.08	19.11	20.50
		25	0	18.96	19.00	19.00	20.50
	16QAM	1	0	19.21	19.17	19.20	20.50
		1	13	19.24	19.11	19.22	20.50
		1	24	18.99	18.95	19.02	20.50
		12	0	18.95	19.21	19.23	20.50
		12	6	19.00	19.07	19.11	20.50
		12	13	19.02	18.94	19.10	20.50
		25	0	19.17	19.05	19.04	20.50
	64QAM	1	0	19.12	19.16	19.17	20.50
		1	13	19.15	19.10	19.12	20.50
		1	24	19.11	18.97	18.99	20.50
		12	0	19.14	18.99	18.98	20.50
		12	6	19.13	19.07	19.10	20.50
		12	13	18.95	19.08	18.96	20.50
		25	0	18.95	18.99	18.99	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	QPSK	1	0	18.96	19.02	19.07	20.50
		1	25	19.11	19.22	19.30	20.50
		1	49	19.11	18.96	18.95	20.50
		25	0	19.10	19.08	19.13	20.50
		25	13	19.09	19.12	19.01	20.50
		25	25	18.94	18.99	19.10	20.50
		50	0	19.10	19.03	19.06	20.50
	16QAM	1	0	19.29	18.97	19.21	20.50
		1	25	19.23	19.20	19.22	20.50
		1	49	18.96	18.97	19.01	20.50
		25	0	19.01	19.13	19.26	20.50
		25	13	19.04	19.07	19.03	20.50
		25	25	19.01	18.91	18.92	20.50
		50	0	19.19	19.15	19.05	20.50
	64QAM	1	0	19.04	19.13	19.00	20.50
		1	25	19.11	19.14	19.10	20.50
		1	49	19.05	18.96	19.09	20.50
		25	0	19.14	19.08	18.99	20.50
		25	13	19.22	18.98	19.21	20.50
		25	25	19.15	18.95	19.16	20.50
		50	0	18.91	19.08	18.98	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	QPSK	1	0	20825	21100	21375	20.50

		1	38	19.11	19.09	19.17	20.50
		1	74	19.07	18.98	18.98	20.50
		36	0	19.22	18.96	19.13	20.50
		36	18	19.13	19.13	19.14	20.50
		36	39	19.14	19.00	18.93	20.50
		75	0	19.11	19.16	19.07	20.50
		16QAM	1	0	19.24	19.10	19.23
	1	38	19.28	19.23	19.35	20.50	
	1	74	19.03	18.93	19.05	20.50	
	36	0	19.05	19.20	19.16	20.50	
	36	18	19.22	19.11	19.12	20.50	
	36	39	18.97	19.02	18.98	20.50	
	75	0	19.11	19.06	19.13	20.50	
	64QAM	1	0	19.05	19.06	19.00	20.50
	1	38	19.16	19.22	19.13	20.50	
	1	74	18.95	18.96	18.93	20.50	
	36	0	19.24	19.10	18.98	20.50	
	36	18	19.19	19.05	19.05	20.50	
	36	39	19.05	19.01	18.96	20.50	
	75	0	19.11	19.16	19.08	20.50	
	Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350
20MHz	QPSK	1	0	19.07	19.05	19.00	20.50
		1	50	19.25	19.30	19.22	20.50
		1	99	19.04	18.98	18.99	20.50
		50	0	19.20	19.21	19.08	20.50
		50	25	19.12	19.14	19.10	20.50
		50	50	19.07	19.05	19.05	20.50
		100	0	19.02	19.12	19.14	20.50
	16QAM	1	0	19.24	19.09	19.17	20.50
		1	50	19.29	19.19	19.29	20.50
		1	99	18.94	19.00	19.05	20.50
		50	0	19.04	19.14	19.18	20.50
		50	25	19.15	19.16	19.12	20.50
		50	50	19.08	18.97	18.99	20.50
		100	0	19.14	19.06	19.09	20.50
	64QAM	1	0	19.05	19.04	19.08	20.50
		1	50	19.15	19.14	19.08	20.50
		1	99	19.11	18.99	18.97	20.50
		50	0	19.12	19.08	19.05	20.50
		50	25	19.21	19.14	19.16	20.50
		50	50	19.07	19.11	19.05	20.50
		100	0	19.03	19.09	19.02	20.50

EN-DC B7 Receiver on&Hotspot on				Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
				20775	21100	21425			
5MHz	QPSK	1	0	11.98	11.91	11.87	13.50		
		1	13	12.25	12.15	12.09	13.50		
		1	24	12.05	11.88	11.89	13.50		
		12	0	12.14	12.00	11.97	13.50		
		12	6	12.05	12.21	12.14	13.50		
		12	13	12.01	12.08	12.09	13.50		
	16QAM	25	0	12.02	12.02	12.07	13.50		
		1	0	12.10	12.01	12.12	13.50		
		1	13	12.10	11.97	12.16	13.50		
		1	24	11.80	11.85	11.96	13.50		
		12	0	11.81	12.02	12.16	13.50		
		12	6	11.84	11.97	12.00	13.50		
	64QAM	12	13	11.89	11.84	11.91	13.50		
		25	0	12.08	11.89	11.91	13.50		
		1	0	12.06	12.00	12.00	13.50		
		1	13	12.01	11.92	12.04	13.50		
		1	24	11.97	11.88	11.82	13.50		
		12	0	12.17	12.04	11.90	13.50		
10MHz	QPSK	12	6	12.13	12.03	12.14	13.50		
		12	13	11.97	12.00	11.94	13.50		
		25	0	11.95	11.96	11.98	13.50		
		1	0	12.01	12.01	12.09	13.50		
		1	25	12.05	12.23	12.24	13.50		
		1	49	12.08	11.98	11.95	13.50		
	16QAM	25	0	12.12	12.07	12.13	13.50		
		25	13	12.13	12.09	12.00	13.50		
		25	25	11.96	12.01	12.10	13.50		
		50	0	12.12	12.06	12.08	13.50		
		1	0	12.18	11.93	12.12	13.50		
		1	25	12.09	12.07	12.08	13.50		
	64QAM	1	49	11.83	11.85	11.83	13.50		
		25	0	11.85	12.00	12.19	13.50		
		25	13	11.94	11.93	11.95	13.50		
		25	25	11.96	11.82	11.83	13.50		
		50	0	12.09	12.03	11.93	13.50		
		1	0	11.90	12.04	11.89	13.50		
15MHz	QPSK	1	25	11.99	12.07	12.01	13.50		
		1	49	11.90	11.82	12.00	13.50		
		25	0	12.21	12.13	12.01	13.50		
		25	13	12.18	12.01	12.17	13.50		
		25	25	12.15	12.01	12.11	13.50		
		50	0	11.93	12.03	12.01	13.50		
		Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
						20825	21100	21375	
		15MHz	QPSK	1	0	12.00	11.89	12.04	13.50
				1	38	12.18	12.10	12.14	13.50
				1	74	12.09	12.04	11.99	13.50
				36	0	12.17	11.94	12.15	13.50

	16QAM	36	18	12.08	12.12	12.10	13.50
		36	39	12.14	12.06	11.97	13.50
		75	0	12.16	12.14	12.06	13.50
		1	0	12.12	12.02	12.08	13.50
		1	38	12.11	12.11	12.20	13.50
		1	74	11.88	11.79	11.92	13.50
		36	0	11.89	12.04	12.06	13.50
		36	18	12.04	11.98	11.95	13.50
		36	39	11.83	11.88	11.89	13.50
	75	0	12.00	11.97	12.02	13.50	
	64QAM	1	0	11.86	12.02	11.89	13.50
		1	38	12.04	12.18	12.03	13.50
		1	74	11.85	11.82	11.81	13.50
		36	0	12.19	12.09	12.04	13.50
		36	18	12.24	12.06	12.03	13.50
		36	39	12.08	11.97	11.95	13.50
		75	0	12.05	12.13	12.10	13.50
	Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350
20MHz	QPSK	1	0	12.12	12.01	12.00	13.50
		1	50	12.18	12.61	12.15	13.50
		1	99	12.02	11.99	11.99	13.50
		50	0	12.20	12.21	12.10	13.50
		50	25	12.10	12.15	12.12	13.50
		50	50	12.01	12.04	12.10	13.50
		100	0	12.04	12.04	12.17	13.50
	16QAM	1	0	12.12	11.97	12.07	13.50
		1	50	12.19	12.15	12.19	13.50
		1	99	11.86	11.89	11.99	13.50
		50	0	11.87	11.97	12.09	13.50
		50	25	12.01	12.04	12.00	13.50
		50	50	11.98	11.88	11.86	13.50
		100	0	12.06	12.00	11.94	13.50
	64QAM	1	0	11.96	11.94	12.03	13.50
		1	50	11.99	12.03	11.95	13.50
		1	99	12.01	11.94	11.87	13.50
		50	0	12.17	12.13	12.07	13.50
		50	25	12.19	12.10	12.18	13.50
		50	50	12.13	12.08	12.07	13.50
		100	0	12.08	12.08	12.03	13.50

12 Conducted Power of NR Antenna

ANT1:

N5 Full power				Conducted Power(dBm)			
SCS 15kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				166800	167300	167800	
20MHz	DFT-s-OFDM PI/2 BPSK	1	1	24.28	24.33	24.39	25.50
		1	53	24.63	24.39	24.51	25.50
		1	104	24.42	24.33	24.46	25.50
		50	0	23.49	23.51	23.30	24.50
		50	28	24.58	24.44	24.33	25.50
		50	56	23.65	23.51	23.36	24.50
	DFT-s-OFDM QPSK	100	0	23.61	23.38	23.39	24.50
		1	1	24.44	24.61	24.40	25.50
		1	53	24.59	24.61	24.41	25.50
		1	104	24.45	24.54	24.52	25.50
		50	0	23.58	23.57	23.38	24.50
		50	28	24.58	24.60	24.43	25.50
		50	56	23.60	23.50	23.31	24.50
	100	0	23.51	23.55	23.43	24.50	
	DFT-s-OFDM 16QAM	1	1	23.10	23.21	23.10	24.00
	DFT-s-OFDM 64QAM	1	1	21.63	21.72	21.59	22.50
DFT-s-OFDM 256QAM	1	1	20.09	20.25	20.13	21.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	CP-OFDM QPSK	1	1	344000	349500	355000	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	343500	349500	355500	25.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	343000	349500	356000	25.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
5MHz	DFT-s-OFDM QPSK	1	1	342500	349500	356500	25.50



N5 Hotspot on&Sensor on				Conducted Power(dBm)			
SCS 15kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				166800	167300	167800	
20MHz	DFT-s-OFDM PI/2 BPSK	1	1	23.36	23.35	23.43	24.50
		1	53	23.71	23.44	23.57	24.50
		1	104	23.50	23.37	23.52	24.50
		50	0	23.49	23.51	23.30	24.50
		50	28	23.65	23.48	23.36	24.50
		50	56	23.65	23.51	23.36	24.50
		100	0	23.61	23.38	23.39	24.50
	DFT-s-OFDM QPSK	1	1	23.49	23.70	23.42	24.50
		1	53	23.61	23.65	23.46	24.50
		1	104	23.53	23.61	23.56	24.50
		50	0	23.58	23.57	23.38	24.50
		50	28	23.60	23.67	23.49	24.50
		50	56	23.60	23.50	23.31	24.50
	DFT-s-OFDM 16QAM	1	1	23.10	23.21	23.10	24.00
DFT-s-OFDM 64QAM	1	1	21.63	21.72	21.59	22.50	
DFT-s-OFDM 256QAM	1	1	20.09	20.25	20.13	21.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	CP-OFDM QPSK	1	1	344000	349500	355000	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	343500	349500	355500	24.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	343000	349500	356000	24.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
5MHz	DFT-s-OFDM QPSK	1	1	342500	349500	356500	24.50



ANT2:

N7 Full power				Conducted Power(dBm)			
SCS 15kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				505000	507000	509000	
50MHz	DFT-s-OFDM PI/2 BPSK	1	1	22.51	22.68	22.67	23.90
		1	135	22.81	22.88	22.74	23.90
		1	268	22.60	22.49	22.55	23.90
		135	0	21.86	21.75	21.85	22.90
		135	67	22.82	22.95	22.85	23.90
		135	135	21.65	21.55	21.49	22.90
		270	0	21.78	21.89	21.90	22.90
	DFT-s-OFDM QPSK	1	1	22.58	22.63	22.65	23.90
		1	135	22.87	22.83	22.75	23.90
		1	268	22.56	22.52	22.60	23.90
		135	0	21.78	21.82	21.89	22.90
		135	67	22.90	22.91	22.81	23.90
		135	135	21.80	21.70	21.52	22.90
		270	0	21.76	21.82	21.89	22.90
DFT-s-OFDM 16QAM	1	1	21.29	21.35	21.38	22.90	
DFT-s-OFDM 64QAM	1	1	19.85	19.91	19.92	21.40	
DFT-s-OFDM 256QAM	1	1	18.77	18.72	18.68	19.40	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	CP-OFDM QPSK	1	1	505000	507000	509000	21.40
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	504000	507000	510000	23.90
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	503000	507000	511000	23.90
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
25MHz	DFT-s-OFDM QPSK	1	1	502500	507000	511500	23.90
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	502000	507000	512000	23.90
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	501500	507000	512500	23.90
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	501000	507000	513000	23.90
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
5MHz	DFT-s-OFDM QPSK	1	1	500500	507000	513500	23.90



N7 Sensor on&Hotspot on				Conducted Power(dBm)			
SCS 15kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				505000	507000	509000	
50MHz	DFT-s-OFDM PI/2 BPSK	1	1	17.44	17.49	17.44	18.90
		1	135	17.60	17.61	17.63	18.90
		1	268	17.61	17.58	17.71	18.90
		135	0	17.53	17.49	17.49	18.90
		135	67	17.47	17.58	17.45	18.90
		135	135	17.63	17.64	17.68	18.90
		270	0	17.75	17.94	17.86	18.90
	DFT-s-OFDM QPSK	1	1	17.58	17.54	17.65	18.90
		1	135	17.70	17.45	17.49	18.90
		1	268	17.44	17.57	17.44	18.90
		135	0	17.70	17.82	17.84	18.90
		135	67	17.63	17.85	17.52	18.90
		135	135	17.49	17.54	17.60	18.90
	DFT-s-OFDM 16QAM	1	1	17.80	17.77	17.74	18.90
DFT-s-OFDM 64QAM	1	1	18.35	18.41	18.42	18.90	
DFT-s-OFDM 256QAM	1	1	18.27	18.22	18.18	18.90	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	CP-OFDM QPSK	1	1	505000	507000	509000	16.40
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	504000	507000	510000	18.90
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	503000	507000	511000	18.90
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
25MHz	DFT-s-OFDM QPSK	1	1	502500	507000	511500	18.90
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	502000	507000	512000	18.90
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	501500	507000	512500	18.90
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	501000	507000	513000	18.90
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
5MHz	DFT-s-OFDM QPSK	1	1	500500	507000	513500	18.90



N38 Full power				Conducted Power(dBm)			
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				518000	519000	520000	
40MHz	DFT-s-OFDM PI/2 BPSK	1	1	22.47	22.41	22.51	24.40
		1	108	22.75	22.77	22.76	24.40
		1	214	22.49	22.52	22.41	24.40
		108	0	21.52	21.56	21.55	23.40
		108	54	22.60	22.73	22.69	24.40
		108	108	21.71	21.79	21.62	23.40
		216	0	21.68	21.64	21.47	23.40
	DFT-s-OFDM QPSK	1	1	22.41	22.43	22.41	24.40
		1	108	22.75	22.82	22.77	24.40
		1	214	22.43	22.51	22.46	24.40
		108	0	21.72	21.64	21.53	23.40
		108	54	22.84	22.77	22.70	24.40
		108	108	21.71	21.66	21.76	23.40
	DFT-s-OFDM 16QAM	1	1	21.06	21.13	21.16	22.40
DFT-s-OFDM 64QAM	1	1	19.46	19.65	19.63	21.40	
DFT-s-OFDM 256QAM	1	1	18.47	18.42	18.52	20.40	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	CP-OFDM QPSK	1	1	518000	519000	520000	22.90
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	517000	519000	521000	24.40
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	516000	519000	522000	24.40



N38 Hotspot on				Conducted Power(dBm)			
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				518000	519000	520000	
40MHz	DFT-s-OFDM PI/2 BPSK	1	1	18.45	18.56	18.44	20.40
		1	108	18.41	18.45	18.46	20.40
		1	214	18.44	18.55	18.62	20.40
		108	0	18.44	18.46	18.48	20.40
		108	54	18.61	18.50	18.42	20.40
		108	108	18.56	18.72	18.75	20.40
		216	0	19.04	19.08	19.05	20.40
	DFT-s-OFDM QPSK	1	1	19.00	18.98	19.01	20.40
		1	108	18.61	19.02	18.67	20.40
		1	214	18.56	18.62	18.58	20.40
		108	0	18.68	18.68	18.66	20.40
		108	54	18.81	18.75	18.73	20.40
		108	108	18.80	18.72	18.64	20.40
	DFT-s-OFDM 16QAM	1	1	19.27	19.18	19.22	20.40
1		1	18.46	18.65	18.63	20.40	
1		1	18.47	18.42	18.52	20.40	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	CP-OFDM QPSK	1	1	518000	519000	520000	17.90
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	517000	519000	521000	20.40
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	516000	519000	522000	20.40



N41 Full power				Conducted Power(dBm)					
SCS 30kHz									
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				509202	513900	518598	523302	528000	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	22.35	22.26	22.07	22.09	22.11	23.90
		1	137	22.43	22.44	22.44	22.32	21.91	23.90
		1	271	21.92	21.94	21.97	21.98	22.26	23.90
		135	0	21.39	21.46	21.48	21.42	21.49	22.90
		135	69	22.24	22.29	22.45	22.27	22.35	23.90
		135	138	21.52	21.62	21.61	21.47	21.71	22.90
		270	0	21.54	21.42	21.52	21.48	21.56	22.90
	DFT-s-OFDM QPSK	1	1	22.43	22.21	22.10	22.15	22.13	23.90
		1	137	22.40	22.47	22.51	22.32	21.94	23.90
		1	271	21.90	21.91	21.95	21.98	22.23	23.90
		135	0	21.48	21.48	21.46	21.36	21.48	22.90
		135	69	22.27	22.38	22.54	22.28	22.38	23.90
		135	138	21.53	21.56	21.59	21.55	21.63	22.90
	DFT-s-OFDM 16QAM	1	1	20.36	20.26	20.38	20.02	19.98	21.90
DFT-s-OFDM 64QAM	1	1	20.12	20.39	20.35	20.12	19.96	21.90	
DFT-s-OFDM 256QAM	1	1	19.59	19.81	19.82	19.40	19.45	21.40	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	509202	513900	518598	523302	528000	22.90
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	508200	513402	518598	523800	528996	23.90
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	507204	512904	518598	524298	529998	23.90
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	505200	511902	518598	525300	531996	23.90
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	504204	511404	518598	525798	532998	23.90
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	503202	510900	518598	526302	534000	23.90
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	502200	510402	518598	526800	534996	23.90
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	501204	509904	518598	527298	535998	23.90



N41 Sensor on&Hotspot on				Conducted Power(dBm)					
SCS 30kHz									
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				509202	513900	518598	523302	528000	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	19.56	19.52	19.28	19.33	19.40	20.90
		1	137	19.65	19.69	19.66	19.58	19.12	20.90
		1	271	19.15	19.16	19.17	19.24	19.48	20.90
		135	0	19.41	19.49	19.56	19.45	19.55	20.90
		135	69	19.41	19.50	19.68	19.47	19.58	20.90
		135	138	19.58	19.71	19.63	19.49	19.73	20.90
		270	0	19.60	19.45	19.61	19.52	19.60	20.90
	DFT-s-OFDM QPSK	1	1	19.65	19.48	19.29	19.39	19.41	20.90
		1	137	19.67	20.15	19.71	19.60	19.12	20.90
		1	271	19.15	19.15	19.22	19.24	19.47	20.90
		135	0	19.57	19.54	19.51	19.42	19.56	20.90
		135	69	19.46	19.63	20.23	19.50	19.65	20.90
		135	138	19.56	19.62	19.69	19.63	19.72	20.90
	DFT-s-OFDM 16QAM	1	1	19.36	19.26	19.38	19.02	18.98	20.90
DFT-s-OFDM 64QAM	1	1	19.12	19.39	19.35	19.12	18.96	20.90	
DFT-s-OFDM 256QAM	1	1	19.09	19.31	19.32	18.90	18.95	20.90	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	509202	513900	518598	523302	528000	20.90
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	508200	513402	518598	523800	528996	20.90
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	507204	512904	518598	524298	529998	20.90
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	505200	511902	518598	525300	531996	20.90
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	504204	511404	518598	525798	532998	20.90
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	503202	510900	518598	526302	534000	20.90
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	502200	510402	518598	526800	534996	20.90
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	501204	509904	518598	527298	535998	20.90



N66 Full power				Conducted Power(dBm)			
SCS 15kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				346000	349000	352000	
40MHz	DFT-s-OFDM PI/2 BPSK	1	1	23.11	23.20	23.26	25.00
		1	108	23.62	23.66	23.67	25.00
		1	214	23.27	23.33	23.39	25.00
		108	0	22.94	23.11	23.12	24.50
		108	54	23.71	23.72	23.65	25.00
		108	108	23.03	23.08	23.08	24.50
		216	0	23.04	23.08	23.02	24.50
	DFT-s-OFDM QPSK	1	1	23.12	23.05	23.25	25.00
		1	108	24.06	23.53	23.52	25.50
		1	214	23.29	23.13	23.33	25.00
		108	0	22.93	22.83	23.08	24.50
		108	54	23.68	23.65	23.62	25.00
		108	108	23.08	22.95	23.16	24.50
	DFT-s-OFDM 16QAM	1	1	22.32	22.36	22.29	23.50
DFT-s-OFDM 64QAM	1	1	20.92	20.96	21.02	22.50	
DFT-s-OFDM 256QAM	1	1	19.53	19.65	19.54	21.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	CP-OFDM QPSK	1	1	346000	349000	352000	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	345000	349000	353000	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	344000	349000	354000	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	343500	349000	354500	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	343000	349000	355000	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
5MHz	DFT-s-OFDM QPSK	1	1	342500	349000	355500	25.00



N66 Sensor on				Conducted Power(dBm)			
SCS 15kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				346000	349000	352000	
40MHz	DFT-s-OFDM PI/2 BPSK	1	1	19.58	19.56	19.57	21.50
		1	108	20.03	20.00	20.01	21.50
		1	214	19.56	19.54	19.59	21.50
		108	0	20.12	20.02	20.00	20.50
		108	54	19.97	20.04	20.18	21.50
		108	108	19.81	19.84	19.71	20.50
		216	0	19.91	19.88	20.06	20.50
	DFT-s-OFDM QPSK	1	1	19.59	19.61	19.61	21.50
		1	108	20.10	20.09	20.07	21.50
		1	214	19.64	19.56	19.60	21.50
		108	0	20.15	20.05	20.02	20.50
		108	54	20.17	20.10	20.16	21.50
		108	108	19.78	19.84	19.84	20.50
	DFT-s-OFDM 16QAM	1	1	21.24	21.32	21.27	21.50
DFT-s-OFDM 64QAM	1	1	20.45	20.49	20.48	20.50	
DFT-s-OFDM 256QAM	1	1	19.48	19.41	19.33	19.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	CP-OFDM QPSK	1	1	346000	349000	352000	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	345000	349000	353000	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	344000	349000	354000	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	343500	349000	354500	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	343000	349000	355000	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
5MHz	DFT-s-OFDM QPSK	1	1	342500	349000	355500	21.50



N66 Hotspot on				Conducted Power(dBm)			
SCS 15kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				346000	349000	352000	
40MHz	DFT-s-OFDM PI/2 BPSK	1	1	16.50	16.58	16.52	18.50
		1	108	16.97	16.91	16.91	18.50
		1	214	16.50	16.54	16.51	18.50
		108	0	17.06	16.96	16.95	18.50
		108	54	16.92	16.99	17.10	18.50
		108	108	16.74	16.78	16.61	18.50
		216	0	16.84	16.79	16.96	18.50
	DFT-s-OFDM QPSK	1	1	16.52	16.56	16.55	18.50
		1	108	17.10	17.00	17.02	18.50
		1	214	16.59	16.58	16.51	18.50
		108	0	17.10	16.96	16.96	18.50
		108	54	17.12	17.01	17.10	18.50
		108	108	16.69	16.75	16.77	18.50
	DFT-s-OFDM 16QAM	1	1	17.00	16.58	16.85	18.50
DFT-s-OFDM 64QAM	1	1	16.86	16.51	16.65	18.50	
DFT-s-OFDM 256QAM	1	1	17.04	16.56	16.55	18.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	CP-OFDM QPSK	1	1	346000	349000	352000	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	345000	349000	353000	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	344000	349000	354000	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	343500	349000	354500	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	343000	349000	355000	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
5MHz	DFT-s-OFDM QPSK	1	1	342500	349000	355500	18.50



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N5 Receiver on&Hotspot on				Conducted Power(dBm)			
SCS 15kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				166800	167300	167800	
20MHz	DFT-s-OFDM PI/2 BPSK	1	1	17.71	17.69	17.59	19.00
		1	53	17.63	17.61	17.73	19.00
		1	104	17.41	17.49	17.64	19.00
		50	0	17.62	17.63	17.67	19.00
		50	28	17.50	17.61	17.65	19.00
		50	56	17.65	17.73	17.77	19.00
		100	0	17.48	17.56	17.53	19.00
	DFT-s-OFDM QPSK	1	1	17.64	17.80	17.63	19.00
		1	53	17.66	17.66	17.46	19.00
		1	104	17.51	17.65	17.45	19.00
		50	0	17.47	17.61	17.56	19.00
		50	28	17.66	17.71	17.55	19.00
		50	56	17.55	17.67	17.50	19.00
	DFT-s-OFDM 16QAM	1	1	17.32	17.18	17.10	19.00
DFT-s-OFDM 64QAM	1	1	17.14	17.25	17.29	19.00	
DFT-s-OFDM 256QAM	1	1	17.75	17.79	17.74	19.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	CP-OFDM QPSK	1	1	344000	349500	355000	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	343500	349500	355500	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	343000	349500	356000	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
5MHz	DFT-s-OFDM QPSK	1	1	342500	349500	356500	19.00



N5 Full power				Conducted Power(dBm)			
SCS 15kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				166800	167300	167800	
20MHz	DFT-s-OFDM PI/2 BPSK	1	1	22.74	22.76	22.72	24.00
		1	53	22.82	22.82	22.79	24.00
		1	104	22.71	22.64	22.71	24.00
		50	0	22.66	22.39	22.52	24.00
		50	28	22.76	22.85	22.86	24.00
		50	56	22.44	22.26	22.48	24.00
		100	0	22.53	22.40	22.48	24.00
	DFT-s-OFDM QPSK	1	1	22.70	23.00	22.75	24.00
		1	53	22.92	22.91	22.95	24.00
		1	104	22.76	22.73	22.72	24.00
		50	0	22.61	22.49	22.41	24.00
		50	28	22.72	22.78	22.77	24.00
		50	56	22.43	22.46	22.45	24.00
	DFT-s-OFDM 16QAM	1	1	22.06	22.23	22.13	23.50
DFT-s-OFDM 64QAM	1	1	20.50	20.78	20.46	22.00	
DFT-s-OFDM 256QAM	1	1	19.07	19.28	19.13	20.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	CP-OFDM QPSK	1	1	344000	349500	355000	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	343500	349500	355500	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	343000	349500	356000	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
5MHz	DFT-s-OFDM QPSK	1	1	342500	349500	356500	24.00

ANT4:

N7 Full power				Conducted Power(dBm)			
SCS 15kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				505000	507000	509000	
50MHz	DFT-s-OFDM PI/2 BPSK	1	1	23.61	23.64	23.50	25.10
		1	135	23.80	23.90	23.76	25.10
		1	268	23.61	23.60	23.60	25.10
		135	0	22.84	22.94	22.89	24.10
		135	67	23.96	23.90	23.98	25.10
		135	135	22.59	22.61	22.77	24.10
		270	0	22.77	22.69	22.77	24.10
	DFT-s-OFDM QPSK	1	1	23.69	23.67	23.58	25.10
		1	135	23.90	23.89	23.84	25.10
		1	268	23.52	23.62	23.56	25.10
		135	0	22.87	22.85	22.90	24.10
		135	67	23.99	23.97	23.94	25.10
		135	135	22.35	22.75	22.61	24.10
	DFT-s-OFDM 16QAM	1	1	22.46	22.46	22.50	24.10
DFT-s-OFDM 64QAM	1	1	20.93	20.96	21.00	22.60	
DFT-s-OFDM 256QAM	1	1	19.66	19.76	19.75	20.60	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	CP-OFDM QPSK	1	1	505000	507000	509000	22.60
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	504000	507000	510000	25.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	503000	507000	511000	25.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
25MHz	DFT-s-OFDM QPSK	1	1	502500	507000	511500	25.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	502000	507000	512000	25.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	501500	507000	512500	25.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	501000	507000	513000	25.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
5MHz	DFT-s-OFDM QPSK	1	1	500500	507000	513500	25.10



N7 Receiver on&Hotspot on				Conducted Power(dBm)			
SCS 15kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				505000	507000	509000	
50MHz	DFT-s-OFDM PI/2 BPSK	1	1	15.52	15.44	15.42	17.10
		1	135	15.32	15.42	15.50	17.10
		1	268	15.51	15.58	15.41	17.10
		135	0	15.46	15.60	15.58	17.10
		135	67	15.70	15.70	15.68	17.10
		135	135	15.72	15.58	15.63	17.10
		270	0	15.54	15.57	15.54	17.10
	DFT-s-OFDM QPSK	1	1	15.54	15.59	15.63	17.10
		1	135	15.70	15.53	15.53	17.10
		1	268	15.43	15.51	15.55	17.10
		135	0	15.60	15.64	15.59	17.10
		135	67	15.84	15.47	15.58	17.10
		135	135	15.73	15.77	15.83	17.10
	DFT-s-OFDM 16QAM	1	1	15.45	15.39	15.41	17.10
DFT-s-OFDM 64QAM	1	1	15.46	15.46	15.44	17.10	
DFT-s-OFDM 256QAM	1	1	16.02	16.03	16.10	17.10	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	CP-OFDM QPSK	1	1	505000	507000	509000	14.60
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	504000	507000	510000	17.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	503000	507000	511000	17.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
25MHz	DFT-s-OFDM QPSK	1	1	502500	507000	511500	17.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	502000	507000	512000	17.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	501500	507000	512500	17.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	501000	507000	513000	17.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
5MHz	DFT-s-OFDM QPSK	1	1	500500	507000	513500	17.10



N7 Sensor on				Conducted Power(dBm)			
SCS 15kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				505000	507000	509000	
50MHz	DFT-s-OFDM PI/2 BPSK	1	1	19.62	19.69	19.59	21.10
		1	135	19.67	19.67	19.65	21.10
		1	268	19.59	19.78	19.80	21.10
		135	0	19.71	19.60	19.56	21.10
		135	67	19.81	19.81	19.91	21.10
		135	135	19.82	19.70	19.81	21.10
		270	0	19.57	19.64	19.74	21.10
	DFT-s-OFDM QPSK	1	1	19.69	19.65	19.70	21.10
		1	135	19.71	19.64	19.61	21.10
		1	268	19.55	19.63	19.59	21.10
		135	0	19.65	19.70	19.78	21.10
		135	67	19.61	19.66	19.62	21.10
		135	135	19.83	19.90	19.89	21.10
	DFT-s-OFDM 16QAM	1	1	19.44	19.39	19.46	21.10
DFT-s-OFDM 64QAM	1	1	19.52	19.44	19.51	21.10	
DFT-s-OFDM 256QAM	1	1	19.47	19.53	19.52	20.60	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	CP-OFDM QPSK	1	1	505000	507000	509000	18.60
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	504000	507000	510000	21.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	503000	507000	511000	21.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
25MHz	DFT-s-OFDM QPSK	1	1	502500	507000	511500	21.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	502000	507000	512000	21.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	501500	507000	512500	21.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	501000	507000	513000	21.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
5MHz	DFT-s-OFDM QPSK	1	1	500500	507000	513500	21.10



N38 Full power				Conducted Power(dBm)			
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				518000	519000	520000	
40MHz	DFT-s-OFDM PI/2 BPSK	1	1	23.70	23.67	23.74	25.60
		1	108	23.78	24.04	23.71	25.60
		1	214	23.81	23.67	23.69	25.60
		108	0	22.89	22.75	22.82	24.60
		108	54	24.23	23.79	24.07	25.60
		108	108	23.10	22.91	22.71	24.60
		216	0	22.70	22.81	22.77	24.60
	DFT-s-OFDM QPSK	1	1	23.75	23.68	23.81	25.60
		1	108	23.92	24.00	23.85	25.60
		1	214	23.97	23.87	23.79	25.60
		108	0	22.80	22.78	22.86	24.60
		108	54	24.02	23.98	24.06	25.60
		108	108	22.88	22.83	22.73	24.60
		216	0	22.85	22.86	22.90	24.60
	DFT-s-OFDM 16QAM	1	1	22.32	22.20	22.10	23.60
	DFT-s-OFDM 64QAM	1	1	20.83	20.68	20.88	22.60
	DFT-s-OFDM 256QAM	1	1	19.98	19.91	20.07	21.60
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	CP-OFDM QPSK	1	1	518000	519000	520000	24.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	517000	519000	521000	25.60
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	516000	519000	522000	25.60



N38 Receiver on&Hotspot on				Conducted Power(dBm)			
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				518000	519000	520000	
40MHz	DFT-s-OFDM PI/2 BPSK	1	1	14.68	14.73	14.88	16.60
		1	108	14.85	14.72	14.88	16.60
		1	214	14.72	14.71	14.87	16.60
		108	0	14.78	14.84	14.67	16.60
		108	54	15.20	15.32	15.22	16.60
		108	108	14.96	15.13	15.10	16.60
		216	0	14.83	14.79	14.74	16.60
	DFT-s-OFDM QPSK	1	1	14.80	14.81	14.75	16.60
		1	108	14.79	14.95	14.79	16.60
		1	214	14.90	14.83	14.83	16.60
		108	0	14.83	14.80	14.83	16.60
		108	54	15.27	14.85	15.30	16.60
		108	108	15.27	15.27	15.28	16.60
	DFT-s-OFDM 16QAM	1	1	14.71	14.65	14.67	16.60
DFT-s-OFDM 64QAM	1	1	14.64	14.65	14.61	16.60	
DFT-s-OFDM 256QAM	1	1	15.01	15.02	14.96	16.60	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	CP-OFDM QPSK	1	1	518000	519000	520000	14.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	517000	519000	521000	16.60
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	516000	519000	522000	16.60



N38 Sensor on				Conducted Power(dBm)			
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				518000	519000	520000	
40MHz	DFT-s-OFDM PI/2 BPSK	1	1	19.75	19.78	19.74	21.60
		1	108	19.68	19.77	19.79	21.60
		1	214	19.79	19.74	19.79	21.60
		108	0	19.93	19.82	19.88	21.60
		108	54	20.34	20.25	20.22	21.60
		108	108	20.05	20.05	20.10	21.60
		216	0	19.75	20.07	19.71	21.60
	DFT-s-OFDM QPSK	1	1	19.73	19.68	20.05	21.60
		1	108	19.75	19.80	19.77	21.60
		1	214	19.73	19.79	19.75	21.60
		108	0	19.87	19.77	19.82	21.60
		108	54	19.94	19.87	20.33	21.60
		108	108	20.32	20.27	20.23	21.60
			216	0	20.13	20.15	20.11
	DFT-s-OFDM 16QAM	1	1	20.91	20.94	20.93	21.60
	DFT-s-OFDM 64QAM	1	1	20.45	20.51	20.52	21.10
	DFT-s-OFDM 256QAM	1	1	19.20	19.22	19.17	20.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	CP-OFDM QPSK	1	1	518000	519000	520000	19.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	517000	519000	521000	21.60
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	516000	519000	522000	21.60



N41 Full power				Conducted Power(dBm)					
SCS 30kHz									
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				509202	513900	518598	523302	528000	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	23.61	23.27	23.36	23.23	23.15	25.10
		1	137	24.03	23.76	24.47	23.91	23.87	25.10
		1	271	23.34	23.27	23.45	23.21	23.32	25.10
		135	0	23.28	23.19	23.03	22.99	22.91	24.10
		135	69	24.55	24.53	24.40	24.36	24.65	25.10
		135	138	23.28	23.17	23.20	23.12	23.01	24.10
		270	0	23.25	23.16	23.16	23.01	22.94	24.10
	DFT-s-OFDM QPSK	1	1	23.49	23.33	23.45	23.13	23.25	25.10
		1	137	23.98	23.89	24.40	23.85	23.98	25.10
		1	271	23.14	23.19	23.55	23.10	23.21	25.10
		135	0	23.31	23.26	23.17	23.02	23.05	24.10
		135	69	24.63	24.51	24.64	24.38	24.48	25.10
		135	138	23.24	23.19	23.28	23.05	23.00	24.10
	DFT-s-OFDM 16QAM	1	1	22.12	22.24	22.15	22.21	22.27	23.10
DFT-s-OFDM 64QAM	1	1	20.75	20.55	20.67	20.79	20.69	22.10	
DFT-s-OFDM 256QAM	1	1	19.60	19.74	19.55	19.69	19.78	21.10	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	509202	513900	518598	523302	528000	23.60
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	508200	513402	518598	523800	528996	25.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	507204	512904	518598	524298	529998	25.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	505200	511902	518598	525300	531996	25.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	504204	511404	518598	525798	532998	25.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	503202	510900	518598	526302	534000	25.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	502200	510402	518598	526800	534996	25.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	501204	509904	518598	527298	535998	25.10



N41 Receiver on&Hotspot on				Conducted Power(dBm)					
SCS 30kHz									
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				509202	513900	518598	523302	528000	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	16.40	16.41	16.70	16.32	16.36	18.10
		1	137	16.43	16.43	16.79	16.32	16.37	18.10
		1	271	16.20	16.37	16.42	16.12	16.28	18.10
		135	0	16.45	16.46	16.86	16.38	16.41	18.10
		135	69	17.10	17.07	17.41	16.99	17.00	18.10
		135	138	16.94	16.94	17.18	16.83	16.87	18.10
		270	0	16.34	16.23	16.59	16.27	16.12	18.10
	DFT-s-OFDM QPSK	1	1	16.30	16.30	16.57	16.21	16.21	18.10
		1	137	16.46	16.48	16.78	16.36	16.40	18.10
		1	271	16.42	16.47	16.76	16.31	16.39	18.10
		135	0	16.20	16.27	16.52	16.14	16.16	18.10
		135	69	16.43	16.43	17.38	16.34	16.37	18.10
		135	138	17.06	17.09	17.38	16.95	17.04	18.10
	270	0	17.04	16.93	17.22	16.95	16.86	18.10	
DFT-s-OFDM 16QAM	1	1	16.39	16.40	16.65	16.29	16.30	18.10	
DFT-s-OFDM 64QAM	1	1	16.38	16.43	16.67	16.29	16.35	18.10	
DFT-s-OFDM 256QAM	1	1	17.01	16.99	16.96	16.95	16.93	18.10	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	509202	513900	518598	523302	528000	15.60
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	508200	513402	518598	523800	528996	18.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	507204	512904	518598	524298	529998	18.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	505200	511902	518598	525300	531996	18.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	504204	511404	518598	525798	532998	18.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	503202	510900	518598	526302	534000	18.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	502200	510402	518598	526800	534996	18.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	501204	509904	518598	527298	535998	18.10



N41 Sensor on				Conducted Power(dBm)					
SCS 30kHz									
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				509202	513900	518598	523302	528000	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	19.64	19.57	19.42	19.59	19.49	21.10
		1	137	19.44	19.57	19.32	19.37	19.50	21.10
		1	271	19.61	19.46	19.21	19.55	19.35	21.10
		135	0	19.70	19.72	19.34	19.64	19.67	21.10
		135	69	19.97	19.91	20.22	19.92	19.82	21.10
		135	138	19.79	19.70	20.01	19.72	19.62	21.10
		270	0	19.27	19.38	19.65	19.20	19.32	21.10
	DFT-s-OFDM QPSK	1	1	19.37	19.38	19.72	19.26	19.28	21.10
		1	137	19.42	19.44	19.58	19.31	19.37	21.10
		1	271	19.62	19.71	19.42	19.57	19.63	21.10
		135	0	19.51	19.49	19.26	19.43	19.44	21.10
		135	69	19.63	19.15	19.46	19.53	19.38	21.10
		135	138	20.00	19.97	20.28	19.93	19.91	21.10
	DFT-s-OFDM 16QAM	1	1	19.27	19.29	19.52	19.19	19.20	21.10
DFT-s-OFDM 64QAM	1	1	19.40	19.37	19.66	19.33	19.30	21.10	
DFT-s-OFDM 256QAM	1	1	19.76	19.87	20.21	19.70	19.82	20.60	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	509202	513900	518598	523302	528000	19.60
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	508200	513402	518598	523800	528996	21.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	507204	512904	518598	524298	529998	21.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	505200	511902	518598	525300	531996	21.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	504204	511404	518598	525798	532998	21.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	503202	510900	518598	526302	534000	21.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	502200	510402	518598	526800	534996	21.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	501204	509904	518598	527298	535998	21.10



N66 Full power				Conducted Power(dBm)			
SCS 15kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				346000	349000	352000	
40MHz	DFT-s-OFDM PI/2 BPSK	1	1	22.37	22.42	22.44	23.80
		1	108	23.13	23.04	23.00	23.80
		1	214	22.60	22.63	22.65	23.80
		108	0	21.66	22.01	21.77	22.80
		108	54	23.08	22.81	22.76	23.80
		108	108	21.83	21.87	21.96	22.80
		216	0	21.96	21.94	21.71	22.80
	DFT-s-OFDM QPSK	1	1	22.45	22.33	22.45	23.80
		1	108	23.04	22.86	22.96	23.80
		1	214	22.55	22.37	22.57	23.80
		108	0	21.86	21.94	21.73	22.80
		108	54	23.05	22.85	22.95	23.80
		108	108	21.82	21.82	21.89	22.80
		216	0	21.82	21.92	21.87	22.80
	DFT-s-OFDM 16QAM	1	1	21.19	21.11	21.22	21.80
	DFT-s-OFDM 64QAM	1	1	19.75	19.85	19.91	20.80
	DFT-s-OFDM 256QAM	1	1	18.41	18.36	18.48	19.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	CP-OFDM QPSK	1	1	346000	349000	352000	21.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	345000	349000	353000	24.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	344000	349000	354000	24.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	343500	349000	354500	24.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	343000	349000	355000	24.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
5MHz	DFT-s-OFDM QPSK	1	1	342500	349000	355500	24.80



N66 Receiver on&Hotspot on				Conducted Power(dBm)			
SCS 15kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				346000	349000	352000	
40MHz	DFT-s-OFDM PI/2 BPSK	1	1	14.37	14.32	14.21	15.80
		1	108	14.80	14.69	14.70	15.80
		1	214	14.42	14.29	14.22	15.80
		108	0	14.80	14.84	14.83	15.80
		108	54	14.74	14.73	14.75	15.80
		108	108	14.79	14.65	14.78	15.80
		216	0	14.68	14.70	14.79	15.80
	DFT-s-OFDM QPSK	1	1	14.31	14.27	14.25	15.80
		1	108	14.75	14.74	14.72	15.80
		1	214	14.39	14.31	14.26	15.80
		108	0	14.73	14.79	14.74	15.80
		108	54	14.79	14.71	14.77	15.80
		108	108	14.73	14.78	14.76	15.80
	DFT-s-OFDM 16QAM	1	1	13.99	14.03	14.09	15.80
DFT-s-OFDM 64QAM	1	1	14.04	14.05	14.08	15.80	
DFT-s-OFDM 256QAM	1	1	14.53	14.61	14.66	15.80	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	CP-OFDM QPSK	1	1	346000	349000	352000	15.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	345000	349000	353000	15.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	344000	349000	354000	15.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	343500	349000	354500	15.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	343000	349000	355000	15.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
5MHz	DFT-s-OFDM QPSK	1	1	342500	349000	355500	15.80



N66 Sensor on				Conducted Power(dBm)			
SCS 15kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				346000	349000	352000	
40MHz	DFT-s-OFDM PI/2 BPSK	1	1	21.27	21.22	21.16	22.80
		1	108	21.59	21.78	21.67	22.80
		1	214	21.24	21.21	21.22	22.80
		108	0	21.78	21.80	21.73	21.80
		108	54	21.73	21.82	21.79	22.80
		108	108	21.74	21.76	21.56	21.80
		216	0	21.74	21.79	21.79	21.80
	DFT-s-OFDM QPSK	1	1	21.26	21.16	21.23	22.80
		1	108	21.72	21.72	21.72	22.80
		1	214	21.23	21.23	21.24	22.80
		108	0	21.84	21.77	21.68	21.80
		108	54	21.77	21.75	21.75	22.80
		108	108	21.73	21.77	21.68	21.80
	DFT-s-OFDM 16QAM	1	1	20.91	20.96	20.98	21.80
DFT-s-OFDM 64QAM	1	1	19.56	19.60	19.67	19.80	
DFT-s-OFDM 256QAM	1	1	18.13	18.20	18.19	18.80	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	CP-OFDM QPSK	1	1	346000	349000	352000	21.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	345000	349000	353000	22.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	344000	349000	354000	22.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	343500	349000	354500	22.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	343000	349000	355000	22.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
5MHz	DFT-s-OFDM QPSK	1	1	342500	349000	355500	22.80



ANT5:

N7 Full power				Conducted Power(dBm)			
SCS 15kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				505000	507000	509000	
50MHz	DFT-s-OFDM PI/2 BPSK	1	1	22.63	22.74	22.72	24.00
		1	135	22.79	22.87	22.89	24.00
		1	268	22.64	22.66	22.56	24.00
		135	0	23.01	22.86	23.00	24.00
		135	67	22.95	22.99	22.96	24.00
		135	135	23.00	22.89	22.79	24.00
		270	0	22.79	22.95	22.79	24.00
	DFT-s-OFDM QPSK	1	1	22.63	22.71	22.68	24.00
		1	135	22.89	22.92	22.88	24.00
		1	268	22.68	22.66	22.58	24.00
		135	0	22.96	22.93	22.96	24.00
		135	67	22.91	22.97	22.90	24.00
		135	135	22.65	22.74	22.75	24.00
	DFT-s-OFDM 16QAM	1	1	22.46	22.47	22.46	24.00
DFT-s-OFDM 64QAM	1	1	20.99	20.99	20.98	22.50	
DFT-s-OFDM 256QAM	1	1	19.72	19.76	19.84	20.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	CP-OFDM QPSK	1	1	505000	507000	509000	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	504000	507000	510000	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	503000	507000	511000	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
25MHz	DFT-s-OFDM QPSK	1	1	502500	507000	511500	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	502000	507000	512000	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	501500	507000	512500	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	501000	507000	513000	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
5MHz	DFT-s-OFDM QPSK	1	1	500500	507000	513500	24.00
5MHz	DFT-s-OFDM QPSK	1	1	22.66	22.70	22.76	24.00



N7 Receiver on&Hotspot on				Conducted Power(dBm)			
SCS 15kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				505000	507000	509000	
50MHz	DFT-s-OFDM PI/2 BPSK	1	1	13.84	13.97	13.74	15.00
		1	135	14.06	13.95	13.90	15.00
		1	268	14.11	14.02	13.97	15.00
		135	0	14.02	13.98	13.93	15.00
		135	67	14.18	14.12	14.09	15.00
		135	135	14.01	14.09	14.01	15.00
		270	0	13.90	13.93	13.97	15.00
	DFT-s-OFDM QPSK	1	1	14.00	13.96	14.12	15.00
		1	135	13.93	14.13	13.86	15.00
		1	268	14.00	13.98	13.95	15.00
		135	0	14.01	14.07	14.13	15.00
		135	67	13.93	14.23	13.98	15.00
		135	135	14.22	14.20	14.14	15.00
	DFT-s-OFDM 16QAM	1	1	13.74	13.67	13.61	15.00
DFT-s-OFDM 64QAM	1	1	13.64	13.66	13.68	15.00	
DFT-s-OFDM 256QAM	1	1	14.24	14.18	14.20	15.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	CP-OFDM QPSK	1	1	505000	507000	509000	14.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	504000	507000	510000	15.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	503000	507000	511000	15.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
25MHz	DFT-s-OFDM QPSK	1	1	502500	507000	511500	15.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	502000	507000	512000	15.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	501500	507000	512500	15.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	501000	507000	513000	15.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
5MHz	DFT-s-OFDM QPSK	1	1	500500	507000	513500	15.00



N7 Sensor on				Conducted Power(dBm)			
SCS 15kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				505000	507000	509000	
50MHz	DFT-s-OFDM PI/2 BPSK	1	1	17.75	17.80	17.85	19.00
		1	135	17.75	17.71	17.92	19.00
		1	268	17.90	17.91	17.92	19.00
		135	0	17.88	17.78	17.77	19.00
		135	67	18.15	18.04	18.03	19.00
		135	135	17.98	17.97	18.12	19.00
		270	0	17.97	17.88	17.92	19.00
	DFT-s-OFDM QPSK	1	1	17.90	17.91	17.84	19.00
		1	135	17.85	17.90	17.86	19.00
		1	268	17.75	17.84	17.86	19.00
		135	0	17.97	17.99	17.90	19.00
		135	67	17.97	17.92	17.83	19.00
		135	135	18.10	18.09	18.14	19.00
	DFT-s-OFDM 16QAM	1	1	17.60	17.59	17.57	19.00
DFT-s-OFDM 64QAM	1	1	17.75	17.67	17.71	19.00	
DFT-s-OFDM 256QAM	1	1	18.24	18.21	18.13	19.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	CP-OFDM QPSK	1	1	505000	507000	509000	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	504000	507000	510000	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	503000	507000	511000	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
25MHz	DFT-s-OFDM QPSK	1	1	502500	507000	511500	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	502000	507000	512000	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	501500	507000	512500	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	501000	507000	513000	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
5MHz	DFT-s-OFDM QPSK	1	1	500500	507000	513500	19.00



N38 Full power				Conducted Power(dBm)			
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				518000	519000	520000	
40MHz	DFT-s-OFDM PI/2 BPSK	1	1	22.59	22.52	22.57	24.50
		1	108	22.86	22.78	22.76	24.50
		1	214	22.54	22.56	22.59	24.50
		108	0	22.69	22.73	22.71	24.50
		108	54	22.89	22.88	22.90	24.50
		108	108	22.70	22.79	22.74	24.50
		216	0	22.72	22.76	22.65	24.50
	DFT-s-OFDM QPSK	1	1	22.56	22.62	22.65	24.50
		1	108	22.87	22.82	22.78	24.50
		1	214	22.64	22.66	22.65	24.50
		108	0	22.64	22.72	22.65	24.50
		108	54	22.84	22.86	22.91	24.50
		108	108	22.83	22.79	22.72	24.50
			216	0	22.61	22.71	22.69
	DFT-s-OFDM 16QAM	1	1	21.90	21.96	22.13	23.50
	DFT-s-OFDM 64QAM	1	1	20.52	20.61	20.58	22.50
	DFT-s-OFDM 256QAM	1	1	19.63	19.53	19.65	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	CP-OFDM QPSK	1	1	518000	519000	520000	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	517000	519000	521000	24.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	516000	519000	522000	24.50



N38 Receiver on&Hotspot on				Conducted Power(dBm)			
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				518000	519000	520000	
40MHz	DFT-s-OFDM PI/2 BPSK	1	1	11.85	11.85	11.84	13.50
		1	108	11.78	11.84	11.86	13.50
		1	214	11.74	11.73	11.76	13.50
		108	0	11.82	11.84	11.86	13.50
		108	54	12.22	12.18	12.26	13.50
		108	108	12.07	11.99	12.03	13.50
		216	0	11.88	11.87	11.93	13.50
	DFT-s-OFDM QPSK	1	1	11.92	11.89	11.80	13.50
		1	108	12.00	11.91	11.87	13.50
		1	214	11.90	11.90	11.81	13.50
		108	0	11.82	11.78	11.85	13.50
		108	54	11.83	11.89	12.30	13.50
		108	108	12.29	12.24	12.22	13.50
	DFT-s-OFDM 16QAM	1	1	11.53	11.51	11.56	13.50
1		1	11.54	11.56	11.50	13.50	
1		1	12.16	12.14	12.15	13.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	CP-OFDM QPSK	1	1	9.94	9.88	9.93	11.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	11.51	11.69	11.62	13.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	11.50	11.88	11.71	13.50



N38 Sensor on				Conducted Power(dBm)			
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				518000	519000	520000	
40MHz	DFT-s-OFDM PI/2 BPSK	1	1	15.93	15.86	15.86	17.50
		1	108	15.96	15.77	15.90	17.50
		1	214	15.79	15.86	15.88	17.50
		108	0	15.94	15.93	15.87	17.50
		108	54	16.19	16.29	16.18	17.50
		108	108	16.07	16.25	15.99	17.50
		216	0	15.82	15.85	15.89	17.50
	DFT-s-OFDM QPSK	1	1	15.75	15.81	15.88	17.50
		1	108	16.00	15.90	15.94	17.50
		1	214	15.98	15.91	15.92	17.50
		108	0	15.86	15.87	15.90	17.50
		108	54	15.88	15.97	16.33	17.50
		108	108	16.31	16.30	16.25	17.50
	DFT-s-OFDM 16QAM	1	1	15.56	15.78	15.55	17.50
DFT-s-OFDM 64QAM	1	1	15.95	15.51	15.58	17.50	
DFT-s-OFDM 256QAM	1	1	16.08	16.11	16.12	17.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	CP-OFDM QPSK	1	1	518000	519000	520000	15.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	517000	519000	521000	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	516000	519000	522000	17.50



N41 Full power				Conducted Power(dBm)					
SCS 30kHz									
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				509202	513900	518598	523302	528000	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	22.80	22.55	22.60	22.90	22.84	24.50
		1	137	22.60	22.51	22.82	22.55	23.02	24.50
		1	271	22.55	22.53	22.74	22.58	22.88	24.50
		135	0	22.84	22.50	22.50	22.73	22.69	24.50
		135	69	23.04	22.68	22.84	22.76	22.92	24.50
		135	138	22.72	22.66	22.73	22.70	22.63	24.50
		270	0	23.68	22.67	23.65	23.70	23.52	24.50
	DFT-s-OFDM QPSK	1	1	22.81	22.57	22.68	22.89	22.90	24.50
		1	137	23.02	23.02	22.94	22.57	23.01	24.50
		1	271	22.67	22.52	22.74	22.62	22.90	24.50
		135	0	22.93	22.59	22.60	22.75	22.69	24.50
		135	69	23.13	22.78	23.13	22.80	22.91	24.50
		135	138	22.74	22.71	22.75	22.68	22.58	24.50
	DFT-s-OFDM 16QAM	1	1	22.51	22.31	22.63	22.35	22.67	23.50
DFT-s-OFDM 64QAM	1	1	21.20	21.02	21.07	21.11	21.24	22.50	
DFT-s-OFDM 256QAM	1	1	20.03	19.95	20.01	19.79	20.05	21.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	509202	513900	518598	523302	528000	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	508200	513402	518598	523800	528996	24.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	507204	512904	518598	524298	529998	24.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	505200	511902	518598	525300	531996	24.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	504204	511404	518598	525798	532998	24.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	503202	510900	518598	526302	534000	24.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	502200	510402	518598	526800	534996	24.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	501204	509904	518598	527298	535998	24.50



N41 Receiver on&Hotspot on				Conducted Power(dBm)					
SCS 30kHz									
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				509202	513900	518598	523302	528000	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	14.07	14.12	14.18	14.20	14.28	15.50
		1	137	14.17	13.94	14.23	14.05	14.10	15.50
		1	271	13.79	13.80	13.87	13.87	13.94	15.50
		135	0	14.17	13.97	14.26	14.08	14.03	15.50
		135	69	14.76	14.63	14.85	14.71	14.81	15.50
		135	138	14.49	14.54	14.60	14.63	14.55	15.50
		270	0	13.98	13.93	14.09	14.00	14.01	15.50
	DFT-s-OFDM QPSK	1	1	14.30	13.82	14.10	13.93	14.01	15.50
		1	137	14.30	14.08	14.25	14.19	14.21	15.50
		1	271	14.20	14.10	14.29	14.16	14.22	15.50
		135	0	13.95	13.82	14.03	13.92	13.90	15.50
		135	69	14.93	14.02	14.26	14.08	14.18	15.50
		135	138	14.83	14.71	14.92	14.79	14.82	15.50
	DFT-s-OFDM 16QAM	1	1	13.79	13.65	13.86	13.74	13.77	15.50
DFT-s-OFDM 64QAM	1	1	13.83	13.72	13.88	13.83	13.83	15.50	
DFT-s-OFDM 256QAM	1	1	14.39	14.19	14.45	14.28	14.35	15.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	509202	513900	518598	523302	528000	14.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	508200	513402	518598	523800	528996	15.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	507204	512904	518598	524298	529998	15.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	505200	511902	518598	525300	531996	15.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	504204	511404	518598	525798	532998	15.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	503202	510900	518598	526302	534000	15.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	502200	510402	518598	526800	534996	15.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	501204	509904	518598	527298	535998	15.50



N41 Sensor on				Conducted Power(dBm)					
SCS 30kHz									
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				509202	513900	518598	523302	528000	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	18.11	17.93	18.17	18.02	18.13	19.50
		1	137	18.31	18.01	18.36	18.11	18.23	19.50
		1	271	18.11	17.77	18.21	17.83	17.93	19.50
		135	0	18.19	17.98	18.27	18.08	18.19	19.50
		135	69	18.94	18.66	19.00	18.73	18.73	19.50
		135	138	18.67	18.54	18.75	18.63	18.61	19.50
		270	0	18.23	17.99	18.29	18.10	18.06	19.50
	DFT-s-OFDM QPSK	1	1	18.21	17.96	18.27	18.05	18.10	19.50
		1	137	18.40	18.10	18.31	18.15	18.22	19.50
		1	271	18.22	18.09	18.33	18.18	18.20	19.50
		135	0	18.10	17.92	18.16	17.97	17.92	19.50
		135	69	19.05	18.02	18.29	18.09	18.18	19.50
		135	138	18.95	18.76	19.04	18.84	18.87	19.50
	DFT-s-OFDM 16QAM	1	1	17.81	17.69	17.89	17.77	17.84	19.50
	DFT-s-OFDM 64QAM	1	1	17.89	17.72	17.95	17.81	17.76	19.50
	DFT-s-OFDM 256QAM	1	1	18.42	18.26	18.47	18.36	18.26	19.50
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel
100MHz	CP-OFDM QPSK	1	1	509202	513900	518598	523302	528000	18.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	508200	513402	518598	523800	528996	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	507204	512904	518598	524298	529998	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	505200	511902	518598	525300	531996	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	504204	511404	518598	525798	532998	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	503202	510900	518598	526302	534000	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	502200	510402	518598	526800	534996	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	501204	509904	518598	527298	535998	19.50



N66 Full power				Conducted Power(dBm)			
SCS 15kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				346000	349000	352000	
40MHz	DFT-s-OFDM PI/2 BPSK	1	1	22.61	22.49	22.68	23.70
		1	108	23.17	23.09	23.12	23.70
		1	214	22.61	22.43	22.63	23.70
		108	0	21.61	22.10	21.69	22.70
		108	54	22.88	23.09	23.21	23.70
		108	108	21.95	22.09	21.97	22.70
		216	0	21.86	22.06	21.74	22.70
	DFT-s-OFDM QPSK	1	1	22.48	22.52	22.59	23.70
		1	108	23.11	23.00	23.06	23.70
		1	214	22.68	22.57	22.60	23.70
		108	0	21.77	22.12	21.71	22.70
		108	54	23.05	23.05	23.05	23.70
		108	108	21.81	21.99	21.93	22.70
		216	0	21.81	22.17	21.87	22.70
	DFT-s-OFDM 16QAM	1	1	21.34	21.24	21.22	21.70
	DFT-s-OFDM 64QAM	1	1	20.04	19.94	20.05	20.70
	DFT-s-OFDM 256QAM	1	1	18.46	18.58	18.07	19.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	CP-OFDM QPSK	1	1	346000	349000	352000	21.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	345000	349000	353000	25.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	344000	349000	354000	25.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	343500	349000	354500	25.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	343000	349000	355000	25.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
5MHz	DFT-s-OFDM QPSK	1	1	342500	349000	355500	25.20



N66 Receiver on&Hotspot on				Conducted Power(dBm)			
SCS 15kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				346000	349000	352000	
40MHz	DFT-s-OFDM PI/2 BPSK	1	1	14.44	14.48	14.59	15.70
		1	108	15.05	14.90	14.92	15.70
		1	214	14.40	14.59	14.55	15.70
		108	0	15.00	14.95	14.93	15.70
		108	54	15.11	14.92	15.01	15.70
		108	108	14.98	15.03	15.01	15.70
		216	0	15.03	15.18	15.12	15.70
	DFT-s-OFDM QPSK	1	1	14.53	14.52	14.54	15.70
		1	108	14.99	14.98	14.95	15.70
		1	214	14.47	14.55	14.51	15.70
		108	0	15.13	15.06	15.05	15.70
		108	54	15.14	15.14	15.07	15.70
		108	108	15.00	15.02	14.98	15.70
	DFT-s-OFDM 16QAM	1	1	14.16	14.25	14.19	15.70
DFT-s-OFDM 64QAM	1	1	14.28	14.36	14.27	15.70	
DFT-s-OFDM 256QAM	1	1	14.91	14.94	14.93	15.70	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	CP-OFDM QPSK	1	1	346000	349000	352000	15.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	345000	349000	353000	15.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	344000	349000	354000	15.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	343500	349000	354500	15.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	343000	349000	355000	15.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
5MHz	DFT-s-OFDM QPSK	1	1	342500	349000	355500	15.70



N66 Sensor on				Conducted Power(dBm)			
SCS 15kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				346000	349000	352000	
40MHz	DFT-s-OFDM PI/2 BPSK	1	1	18.70	18.56	18.60	19.70
		1	108	19.18	19.04	19.05	19.70
		1	214	18.60	18.56	18.48	19.70
		108	0	18.86	19.18	18.89	19.70
		108	54	19.19	19.20	19.16	19.70
		108	108	18.85	18.99	18.96	19.70
		216	0	18.99	19.17	19.08	19.70
	DFT-s-OFDM QPSK	1	1	18.71	18.67	18.64	19.70
		1	108	19.14	19.13	18.99	19.70
		1	214	18.60	18.56	18.55	19.70
		108	0	18.89	19.21	18.85	19.70
		108	54	19.26	19.20	19.28	19.70
		108	108	18.92	18.93	18.92	19.70
	DFT-s-OFDM 16QAM	1	1	18.45	18.38	18.30	19.70
DFT-s-OFDM 64QAM	1	1	18.83	18.90	18.83	19.70	
DFT-s-OFDM 256QAM	1	1	18.53	18.52	18.55	19.70	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	CP-OFDM QPSK	1	1	346000	349000	352000	19.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	345000	349000	353000	19.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	344000	349000	354000	19.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	343500	349000	354500	19.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	343000	349000	355000	19.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
5MHz	DFT-s-OFDM QPSK	1	1	342500	349000	355500	19.70



ANT6:

N77 Full power				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	22.17	/	23.80
		1	137	/	22.49	/	23.80
		1	271	/	21.92	/	23.80
		135	0	/	21.60	/	22.80
		135	69	/	22.68	/	23.80
		135	138	/	21.33	/	22.80
		270	0	/	21.47	/	22.80
	DFT-s-OFDM QPSK	1	1	/	21.95	/	23.80
		1	137	/	22.57	/	23.80
		1	271	/	22.00	/	23.80
		135	0	/	21.71	/	22.80
		135	69	/	22.81	/	23.80
		135	138	/	21.47	/	22.80
		270	0	/	21.56	/	22.80
	DFT-s-OFDM 16QAM	1	1	/	21.70	/	22.80
	DFT-s-OFDM 64QAM	1	1	/	20.98	/	21.30
DFT-s-OFDM 256QAM	1	1	/	19.20	/	19.30	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	/	633334	/	22.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	22.53	22.90	22.50	23.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	22.55	22.88	22.47	23.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	22.39	22.90	22.44	23.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	22.46	22.79	22.46	23.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	22.50	22.78	22.42	23.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	22.47	22.83	22.48	23.80



N77 Receiver on&Hotspot on				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	12.53	/	13.80
		1	137	/	12.37	/	13.80
		1	271	/	12.33	/	13.80
		135	0	/	12.52	/	13.80
		135	69	/	12.39	/	13.80
		135	138	/	12.35	/	13.80
		270	0	/	12.38	/	13.80
	DFT-s-OFDM QPSK	1	1	/	12.38	/	13.80
		1	137	/	12.61	/	13.80
		1	271	/	12.55	/	13.80
		135	0	/	12.72	/	13.80
		135	69	/	12.80	/	13.80
		135	138	/	12.79	/	13.80
	DFT-s-OFDM 16QAM	1	1	/	12.64	/	13.80
DFT-s-OFDM 64QAM	1	1	/	12.33	/	13.80	
DFT-s-OFDM 256QAM	1	1	/	12.61	/	13.80	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	/	633334	/	12.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	633000	633334	633668	13.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	632668	633334	634000	13.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	632000	633334	634668	13.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	631668	633334	635000	13.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	631334	633334	635334	13.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	630668	633334	636000	13.80



N77 Sensor on				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	13.65	/	14.80
		1	137	/	13.36	/	14.80
		1	271	/	13.41	/	14.80
		135	0	/	13.59	/	14.80
		135	69	/	13.49	/	14.80
		135	138	/	13.45	/	14.80
		270	0	/	13.43	/	14.80
	DFT-s-OFDM QPSK	1	1	/	13.40	/	14.80
		1	137	/	13.72	/	14.80
		1	271	/	13.60	/	14.80
		135	0	/	13.78	/	14.80
		135	69	/	13.86	/	14.80
		135	138	/	13.85	/	14.80
	DFT-s-OFDM 16QAM	1	1	/	13.71	/	14.80
	DFT-s-OFDM 64QAM	1	1	/	13.40	/	14.80
DFT-s-OFDM 256QAM	1	1	/	13.74	/	14.80	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	/	633334	/	13.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	633000	633334	633668	14.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	632668	633334	634000	14.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	632000	633334	634668	14.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	631668	633334	635000	14.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	631334	633334	635334	14.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	630668	633334	636000	14.80



N77 Full power				Conducted Power(dBm)						
SCS 30kHz(3700~3980)										
Bandwidth	Modulation	RB size	RB offset	Channel 650000	Channel 652400	Channel 654800	Channel 657200	Channel 659600	Channel 662000	Tune up
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	22.08	21.82	22.01	22.10	21.96	22.25	23.80
		1	137	22.39	21.95	22.40	22.69	22.95	23.39	23.80
		1	271	21.86	21.84	22.40	22.25	22.39	22.44	23.80
		135	0	21.50	21.31	21.02	21.69	21.67	21.17	22.80
		135	69	22.57	21.84	22.51	22.71	23.03	22.93	23.80
		135	138	21.26	20.96	21.60	22.01	21.96	22.24	22.80
		270	0	21.38	20.97	21.49	21.58	21.86	22.34	22.80
	DFT-s-OFDM QPSK	1	1	21.86	21.90	22.04	22.21	21.97	22.41	23.80
		1	137	23.50	22.09	22.64	22.81	23.08	23.48	23.80
		1	271	21.90	21.89	22.41	22.33	22.42	22.52	23.80
		135	0	21.62	21.30	21.11	21.79	21.78	21.21	22.80
		135	69	23.10	21.91	22.63	22.80	23.06	23.04	23.80
		135	138	21.37	20.98	21.62	22.11	22.06	22.38	22.80
	DFT-s-OFDM 16QAM	1	1	21.64	21.56	21.68	21.43	21.58	22.04	22.80
DFT-s-OFDM 64QAM	1	1	20.89	20.89	20.83	20.68	20.94	21.03	21.30	
DFT-s-OFDM 256QAM	1	1	19.10	18.96	18.95	18.93	19.10	18.88	19.30	
Bandwidth	Modulation	RB size	RB offset	Channel 650000	Channel 652400	Channel 654800	Channel 657200	Channel 659600	Channel 662000	Tune up
100MHz	CP-OFDM QPSK	1	1	20.48	20.35	20.50	20.34	20.56	21.15	22.30
Bandwidth	Modulation	RB size	RB offset	Channel 649668	Channel 652200	Channel 654734	Channel 657268	Channel 659800	Channel 662332	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	22.84	22.47	22.45	22.43	22.78	22.35	23.80
Bandwidth	Modulation	RB size	RB offset	Channel 649334	Channel 652000	Channel 654668	Channel 657334	Channel 660000	Channel 662666	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	22.83	22.45	22.36	22.42	22.72	22.28	23.80
Bandwidth	Modulation	RB size	RB offset	Channel 648668	Channel 651600	Channel 654534	Channel 657468	Channel 660400	Channel 663332	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	22.83	22.33	22.36	22.56	22.79	22.28	23.80
Bandwidth	Modulation	RB size	RB offset	Channel 648334	Channel 651400	Channel 654468	Channel 657534	Channel 660600	Channel 663666	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	22.70	22.38	22.37	22.51	22.71	22.24	23.80
Bandwidth	Modulation	RB size	RB offset	Channel 648000	Channel 651200	Channel 654400	Channel 657600	Channel 660800	Channel 664000	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	22.72	22.42	22.32	22.44	22.69	22.35	23.80
Bandwidth	Modulation	RB size	RB offset	Channel 647334	Channel 650800	Channel 654268	Channel 657734	Channel 661200	Channel 664666	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	22.72	22.38	22.43	22.50	22.63	22.30	23.80



N77 Receiver on				Conducted Power(dBm)						
SCS 30kHz(3700~3980)										
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				650000	652400	654800	657200	659600	662000	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	12.47	12.55	13.03	13.03	13.07	13.38	13.80
		1	137	12.26	12.72	12.62	13.32	13.33	13.32	13.80
		1	271	12.26	12.67	12.65	13.29	13.50	13.28	13.80
		135	0	12.41	12.37	12.53	13.23	13.37	13.54	13.80
		135	69	12.33	12.38	12.63	13.20	13.06	13.12	13.80
		135	138	12.28	12.41	12.91	13.16	13.43	13.53	13.80
		270	0	12.28	12.49	12.74	13.50	13.25	13.21	13.80
	DFT-s-OFDM QPSK	1	1	13.58	13.16	13.01	13.41	13.57	13.56	13.80
		1	137	13.32	13.12	12.71	13.16	13.56	13.30	13.80
		1	271	13.12	13.15	12.90	13.39	13.52	13.42	13.80
		135	0	12.62	12.46	12.74	13.06	13.42	13.14	13.80
		135	69	12.31	12.45	12.80	13.30	13.44	13.55	13.80
		135	138	13.57	12.69	12.91	13.32	13.56	13.56	13.80
	DFT-s-OFDM 16QAM	1	1	12.53	12.42	12.95	13.15	13.25	13.36	13.80
	DFT-s-OFDM 64QAM	1	1	12.27	12.60	12.56	13.05	13.50	13.27	13.80
DFT-s-OFDM 256QAM	1	1	12.55	12.27	12.66	13.35	13.27	13.50	13.80	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	650000	652400	654800	657200	659600	662000	12.30
90MHz	DFT-s-OFDM QPSK	1	1	649668	652200	654734	657268	659800	662332	13.80
80MHz	DFT-s-OFDM QPSK	1	1	12.82	13.22	12.97	13.16	13.20	13.65	13.80
80MHz	DFT-s-OFDM QPSK	1	1	12.85	12.29	12.78	13.13	13.29	13.67	13.80
60MHz	DFT-s-OFDM QPSK	1	1	12.80	12.96	13.16	13.20	13.32	13.70	13.80
50MHz	DFT-s-OFDM QPSK	1	1	12.81	12.83	12.98	13.46	13.43	13.66	13.80
40MHz	DFT-s-OFDM QPSK	1	1	12.86	12.97	13.00	13.20	13.22	13.47	13.80
20MHz	DFT-s-OFDM QPSK	1	1	12.84	13.17	13.18	13.05	13.28	13.47	13.80



N77 Sensor on&Hotspot on				Conducted Power(dBm)						
SCS 30kHz(3700~3980)										
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				650000	652400	654800	657200	659600	662000	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	13.60	13.63	14.08	14.16	14.22	14.42	14.80
		1	137	13.25	13.82	13.68	14.37	14.38	14.36	14.80
		1	271	13.33	13.77	13.72	14.32	14.60	14.33	14.80
		135	0	13.51	13.44	13.64	14.35	14.51	14.65	14.80
		135	69	13.40	13.44	13.70	14.29	14.23	14.24	14.80
		135	138	13.34	13.49	13.98	14.23	14.54	14.57	14.80
		270	0	13.37	13.58	13.77	14.56	14.38	14.69	14.80
	DFT-s-OFDM QPSK	1	1	14.65	13.68	13.78	14.43	14.26	14.51	14.80
		1	137	13.64	13.42	13.81	14.23	14.64	14.46	14.80
		1	271	13.53	13.52	13.96	14.42	14.56	14.51	14.80
		135	0	13.71	13.55	13.79	14.13	14.49	14.23	14.80
		135	69	13.37	13.55	13.92	14.44	14.52	14.67	14.80
		135	138	14.68	13.73	13.79	14.46	14.27	14.67	14.80
	DFT-s-OFDM 16QAM	1	1	13.64	13.44	14.07	14.25	14.37	14.44	14.80
DFT-s-OFDM 64QAM	1	1	13.34	13.65	13.65	14.13	14.56	14.38	14.80	
DFT-s-OFDM 256QAM	1	1	13.65	13.33	13.76	14.40	14.38	14.57	14.80	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	650000	652400	654800	657200	659600	662000	13.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	649668	652200	654734	657268	659800	662332	14.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	649334	652000	654668	657334	660000	662666	14.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	648668	651600	654534	657468	660400	663332	14.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	648334	651400	654468	657534	660600	663666	14.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	648000	651200	654400	657600	660800	664000	14.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	647334	650800	654268	657734	661200	664666	14.80



N78(Class 3) Full power				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	21.37	/	22.30
		1	137	/	21.42	/	22.30
		1	271	/	21.40	/	22.30
		135	0	/	21.43	/	22.30
		135	69	/	21.06	/	22.30
		135	138	/	21.43	/	22.30
		270	0	/	21.04	/	22.30
	DFT-s-OFDM QPSK	1	1	/	20.48	/	22.30
		1	137	/	21.50	/	22.30
		1	271	/	20.52	/	22.30
		135	0	/	21.47	/	22.30
		135	69	/	21.13	/	22.30
		135	138	/	21.56	/	22.30
	DFT-s-OFDM 16QAM	1	1	/	21.37	/	22.30
	DFT-s-OFDM 64QAM	1	1	/	20.70	/	20.80
DFT-s-OFDM 256QAM	1	1	/	18.61	/	18.80	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	/	633334	/	20.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	633000	633334	633668	22.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	632668	633334	634000	22.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	632000	633334	634668	22.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	631668	633334	635000	22.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	631334	633334	635334	22.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	631000	633334	635668	22.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	630668	633334	636000	22.30



N78(Class 3) Receiver on&Hotspot on				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	11.49	/	12.30
		1	137	/	11.58	/	12.30
		1	271	/	11.14	/	12.30
		135	0	/	11.52	/	12.30
		135	69	/	11.99	/	12.30
		135	138	/	11.83	/	12.30
		270	0	/	11.32	/	12.30
	DFT-s-OFDM QPSK	1	1	/	11.66	/	12.30
		1	137	/	11.50	/	12.30
		1	271	/	11.61	/	12.30
		135	0	/	11.33	/	12.30
		135	69	/	11.61	/	12.30
		135	138	/	11.95	/	12.30
	DFT-s-OFDM 16QAM	1	1	/	11.01	/	12.30
	DFT-s-OFDM 64QAM	1	1	/	11.25	/	12.30
DFT-s-OFDM 256QAM	1	1	/	11.86	/	12.30	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	/	633334	/	12.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	633000	633334	633668	12.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	632668	633334	634000	12.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	632000	633334	634668	12.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	631668	633334	635000	12.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	631334	633334	635334	12.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	631000	633334	635668	12.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	630668	633334	636000	12.30



N78(Class 3) Sensor on				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	12.38	/	13.30
		1	137	/	12.47	/	13.30
		1	271	/	12.07	/	13.30
		135	0	/	12.44	/	13.30
		135	69	/	12.90	/	13.30
		135	138	/	12.77	/	13.30
		270	0	/	12.19	/	13.30
	DFT-s-OFDM QPSK	1	1	/	12.25	/	13.30
		1	137	/	12.51	/	13.30
		1	271	/	12.49	/	13.30
		135	0	/	12.29	/	13.30
		135	69	/	12.57	/	13.30
		135	138	/	12.99	/	13.30
	DFT-s-OFDM 16QAM	1	1	/	11.98	/	13.30
	DFT-s-OFDM 64QAM	1	1	/	12.11	/	13.30
DFT-s-OFDM 256QAM	1	1	/	12.77	/	13.30	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	/	633334	/	13.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	12.53	12.91	12.77	13.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	12.42	12.77	12.95	13.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	12.57	12.85	12.90	13.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	12.51	12.74	12.79	13.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	12.44	12.77	12.96	13.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	12.53	12.74	12.89	13.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	12.40	12.77	12.85	13.30



N78(Class 2) Full power				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	22.32	/	23.30
		1	137	/	22.49	/	23.30
		1	271	/	22.37	/	23.30
		135	0	/	22.40	/	23.30
		135	69	/	22.07	/	23.30
		135	138	/	22.44	/	23.30
		270	0	/	22.07	/	23.30
	DFT-s-OFDM QPSK	1	1	/	22.42	/	23.30
		1	137	/	22.35	/	23.30
		1	271	/	22.39	/	23.30
		135	0	/	22.53	/	23.30
		135	69	/	22.05	/	23.30
		135	138	/	22.54	/	23.30
	DFT-s-OFDM 16QAM	1	1	/	21.46	/	23.30
	DFT-s-OFDM 64QAM	1	1	/	20.25	/	21.80
DFT-s-OFDM 256QAM	1	1	/	18.91	/	19.80	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	/	633334	/	21.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	21.85	21.87	21.78	23.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	21.77	21.79	21.74	23.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	21.72	21.70	21.76	23.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	21.75	21.82	21.85	23.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	21.82	21.91	21.94	23.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	21.75	21.73	21.75	23.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	21.83	21.84	21.85	23.30



N78(Class 2) Receiver on&Hotspot on				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	11.74	/	13.30
		1	137	/	11.70	/	13.30
		1	271	/	11.63	/	13.30
		135	0	/	11.71	/	13.30
		135	69	/	12.45	/	13.30
		135	138	/	12.27	/	13.30
		270	0	/	11.56	/	13.30
	DFT-s-OFDM QPSK	1	1	/	12.36	/	13.30
		1	137	/	12.25	/	13.30
		1	271	/	12.30	/	13.30
		135	0	/	11.72	/	13.30
		135	69	/	11.73	/	13.30
		135	138	/	12.48	/	13.30
	DFT-s-OFDM 16QAM	1	1	/	11.40	/	13.30
	DFT-s-OFDM 64QAM	1	1	/	11.45	/	13.30
DFT-s-OFDM 256QAM	1	1	/	12.13	/	13.30	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	/	633334	/	11.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	633000	633334	633668	13.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	632668	633334	634000	13.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	632000	633334	634668	13.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	631668	633334	635000	13.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	631334	633334	635334	13.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	631000	633334	635668	13.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	630668	633334	636000	13.30



N78(Class 2) Sensor on				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	13.82	/	15.30
		1	137	/	13.80	/	15.30
		1	271	/	13.66	/	15.30
		135	0	/	13.80	/	15.30
		135	69	/	14.50	/	15.30
		135	138	/	14.38	/	15.30
		270	0	/	13.66	/	15.30
	DFT-s-OFDM QPSK	1	1	/	13.74	/	15.30
		1	137	/	13.82	/	15.30
		1	271	/	13.78	/	15.30
		135	0	/	13.71	/	15.30
		135	69	/	13.83	/	15.30
		135	138	/	14.55	/	15.30
	DFT-s-OFDM 16QAM	1	1	/	13.48	/	15.30
		1	1	/	13.58	/	15.30
1		1	/	14.16	/	15.30	
DFT-s-OFDM 256QAM	1	1	/	14.16	/	15.30	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	/	633334	/	13.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	633000	633334	633668	15.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	632668	633334	634000	15.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	632000	633334	634668	15.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	631668	633334	635000	15.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	631334	633334	635334	15.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	631000	633334	635668	15.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	630668	633334	636000	15.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	13.36	13.62	13.66	15.30



ANT8:

N7 Receiver on&Hotspot on				Conducted Power(dBm)			
SCS 15kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				505000	507000	509000	
50MHz	DFT-s-OFDM PI/2 BPSK	1	1	13.15	13.13	13.27	14.50
		1	135	13.17	13.06	13.19	14.50
		1	268	13.30	13.21	13.33	14.50
		135	0	13.10	13.22	13.18	14.50
		135	67	13.45	13.48	13.42	14.50
		135	135	13.48	13.32	13.26	14.50
		270	0	13.29	13.26	13.36	14.50
	DFT-s-OFDM QPSK	1	1	13.22	13.27	13.29	14.50
		1	135	13.14	13.30	13.27	14.50
		1	268	13.11	13.13	13.23	14.50
		135	0	13.31	13.33	13.38	14.50
		135	67	13.19	13.50	13.50	14.50
		135	135	13.42	13.48	13.41	14.50
	DFT-s-OFDM 16QAM	1	1	12.88	12.92	12.96	14.50
DFT-s-OFDM 64QAM	1	1	12.98	12.93	12.88	14.50	
DFT-s-OFDM 256QAM	1	1	13.54	13.52	13.56	14.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	CP-OFDM QPSK	1	1	505000	507000	509000	12.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	504000	507000	510000	14.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	503000	507000	511000	14.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
25MHz	DFT-s-OFDM QPSK	1	1	502500	507000	511500	14.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	502000	507000	512000	14.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	501500	507000	512500	14.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	501000	507000	513000	14.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
5MHz	DFT-s-OFDM QPSK	1	1	500500	507000	513500	14.50



N7 Full power				Conducted Power(dBm)			
SCS 15kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				505000	507000	509000	
50MHz	DFT-s-OFDM PI/2 BPSK	1	1	19.17	19.09	19.09	20.50
		1	135	19.06	18.99	19.10	20.50
		1	268	19.42	19.29	19.36	20.50
		135	0	19.09	19.12	19.07	20.50
		135	67	19.47	19.50	19.54	20.50
		135	135	19.34	19.29	19.29	20.50
		270	0	19.29	19.29	19.31	20.50
	DFT-s-OFDM QPSK	1	1	19.37	19.25	19.21	20.50
		1	135	19.14	19.40	19.16	20.50
		1	268	19.04	19.13	19.15	20.50
		135	0	19.41	19.30	19.36	20.50
		135	67	19.16	19.60	19.60	20.50
		135	135	19.54	19.51	19.56	20.50
	DFT-s-OFDM 16QAM	1	1	18.98	18.95	18.98	20.50
DFT-s-OFDM 64QAM	1	1	18.93	19.01	19.09	20.50	
DFT-s-OFDM 256QAM	1	1	17.97	18.04	17.97	19.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	CP-OFDM QPSK	1	1	505000	507000	509000	18.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	504000	507000	510000	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	503000	507000	511000	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
25MHz	DFT-s-OFDM QPSK	1	1	502500	507000	511500	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	502000	507000	512000	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	501500	507000	512500	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	501000	507000	513000	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
5MHz	DFT-s-OFDM QPSK	1	1	500500	507000	513500	20.50



N38 Receiver on&Hotspot on				Conducted Power(dBm)			
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				518000	519000	520000	
40MHz	DFT-s-OFDM PI/2 BPSK	1	1	11.52	11.70	11.51	13.00
		1	108	11.60	11.73	11.52	13.00
		1	214	11.66	11.75	11.53	13.00
		108	0	11.63	11.58	11.44	13.00
		108	54	11.92	12.03	12.01	13.00
		108	108	11.96	11.99	11.91	13.00
		216	0	11.62	11.66	11.61	13.00
	DFT-s-OFDM QPSK	1	1	11.75	11.68	11.67	13.00
		1	108	11.85	11.63	11.54	13.00
		1	214	11.67	11.69	11.64	13.00
		108	0	11.68	11.73	11.60	13.00
		108	54	11.71	12.12	11.63	13.00
		108	108	12.11	12.08	11.96	13.00
			216	0	12.05	11.97	11.85
	DFT-s-OFDM 16QAM	1	1	11.42	11.38	11.37	13.00
	DFT-s-OFDM 64QAM	1	1	11.48	11.42	11.33	13.00
	DFT-s-OFDM 256QAM	1	1	12.04	11.99	11.90	13.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	CP-OFDM QPSK	1	1	518000	519000	520000	10.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	517000	519000	521000	13.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	516000	519000	522000	13.00



N38 Full power				Conducted Power(dBm)			
SCS 30kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				518000	519000	520000	
40MHz	DFT-s-OFDM PI/2 BPSK	1	1	17.41	17.57	17.49	19.00
		1	108	17.44	17.39	17.60	19.00
		1	214	17.49	17.66	17.77	19.00
		108	0	17.51	17.53	17.52	19.00
		108	54	18.05	18.13	18.01	19.00
		108	108	17.91	17.91	18.02	19.00
		216	0	17.55	17.60	17.54	19.00
	DFT-s-OFDM QPSK	1	1	17.56	17.54	17.61	19.00
		1	108	17.70	17.55	17.59	19.00
		1	214	17.56	17.53	17.60	19.00
		108	0	17.61	17.65	17.72	19.00
		108	54	17.56	18.10	17.64	19.00
		108	108	18.09	18.04	18.05	19.00
	DFT-s-OFDM 16QAM	1	1	17.21	17.25	17.29	19.00
DFT-s-OFDM 64QAM	1	1	17.88	17.81	17.79	19.00	
DFT-s-OFDM 256QAM	1	1	17.49	17.53	17.57	18.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	CP-OFDM QPSK	1	1	518000	519000	520000	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	517000	519000	521000	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	516000	519000	522000	19.00



N41 Receiver on&Hotspot on				Conducted Power(dBm)					
SCS 30kHz									
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				509202	513900	518598	523302	528000	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	10.07	10.19	10.21	10.19	10.31	11.50
		1	137	10.23	10.16	10.28	10.33	10.23	11.50
		1	271	10.40	10.49	10.51	10.60	10.63	11.50
		135	0	10.08	10.12	10.25	10.25	10.31	11.50
		135	69	11.38	11.33	11.42	11.43	11.42	11.50
		135	138	10.91	11.22	10.97	11.21	11.03	11.50
		270	0	10.64	10.65	10.72	10.66	10.61	11.50
	DFT-s-OFDM QPSK	1	1	10.70	10.68	10.80	10.71	10.82	11.50
		1	137	11.00	10.70	10.86	10.76	10.88	11.50
		1	271	10.25	10.20	10.28	10.25	10.31	11.50
		135	0	10.49	10.45	10.51	10.55	10.66	11.50
		135	69	10.19	10.20	10.29	10.24	10.25	11.50
		135	138	11.49	11.42	11.39	11.48	11.46	11.50
	DFT-s-OFDM 16QAM	1	1	10.31	10.31	10.34	10.40	10.39	11.50
DFT-s-OFDM 64QAM	1	1	10.37	10.42	10.46	10.52	10.50	11.50	
DFT-s-OFDM 256QAM	1	1	10.91	10.94	11.05	11.07	11.05	11.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
1000MHz	CP-OFDM QPSK	1	1	509202	513900	518598	523302	528000	11.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	508200	513402	518598	523800	528996	11.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	507204	512904	518598	524298	529998	11.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	505200	511902	518598	525300	531996	11.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	504204	511404	518598	525798	532998	11.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	503202	510900	518598	526302	534000	11.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	502200	510402	518598	526800	534996	11.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	501204	509904	518598	527298	535998	11.50



N41 Full power				Conducted Power(dBm)					
SCS 30kHz									
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				509202	513900	518598	523302	528000	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	21.03	21.05	21.10	21.10	21.14	22.50
		1	137	20.99	21.10	21.05	21.16	21.20	22.50
		1	271	21.18	20.93	21.23	21.02	21.01	22.50
		135	0	21.07	21.12	21.12	21.18	21.13	22.50
		135	69	21.78	22.17	21.89	22.24	22.08	22.50
		135	138	21.69	21.77	21.75	21.87	21.99	22.50
		270	0	21.04	21.18	21.11	21.27	21.25	22.50
	DFT-s-OFDM QPSK	1	1	21.02	21.24	21.12	21.31	21.28	22.50
		1	137	21.33	21.08	21.15	21.19	21.21	22.50
		1	271	21.03	21.15	21.14	21.25	21.28	22.50
		135	0	21.03	21.08	21.12	21.15	21.16	22.50
		135	69	21.05	21.11	21.11	21.19	21.14	22.50
		135	138	22.20	22.09	21.99	22.20	22.15	22.50
	DFT-s-OFDM 16QAM	1	1	21.10	21.01	20.88	20.89	21.15	22.50
DFT-s-OFDM 64QAM	1	1	20.30	20.02	20.39	20.48	20.47	22.00	
DFT-s-OFDM 256QAM	1	1	19.35	19.21	19.02	19.01	19.09	21.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
1000MHz	CP-OFDM QPSK	1	1	509202	513900	518598	523302	528000	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	508200	513402	518598	523800	528996	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	507204	512904	518598	524298	529998	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	505200	511902	518598	525300	531996	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	504204	511404	518598	525798	532998	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	503202	510900	518598	526302	534000	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	502200	510402	518598	526800	534996	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	501204	509904	518598	527298	535998	22.50



N66 Receiver on&Hotspot on				Conducted Power(dBm)			
SCS 15kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				346000	349000	352000	
40MHz	DFT-s-OFDM PI/2 BPSK	1	1	12.99	12.97	12.94	14.60
		1	108	13.37	13.41	13.38	14.60
		1	214	13.06	13.03	12.98	14.60
		108	0	13.44	13.42	13.44	14.60
		108	54	13.55	13.51	13.63	14.60
		108	108	13.31	13.36	13.47	14.60
		216	0	13.47	13.48	13.49	14.60
	DFT-s-OFDM QPSK	1	1	12.96	12.95	12.97	14.60
		1	108	13.39	13.37	13.39	14.60
		1	214	12.99	13.04	13.03	14.60
		108	0	13.43	13.40	13.40	14.60
		108	54	13.58	13.51	13.57	14.60
		108	108	13.28	13.33	13.42	14.60
	DFT-s-OFDM 16QAM	1	1	12.64	12.73	12.70	14.60
DFT-s-OFDM 64QAM	1	1	12.76	12.71	12.74	14.60	
DFT-s-OFDM 256QAM	1	1	13.34	13.32	13.32	14.60	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	CP-OFDM QPSK	1	1	346000	349000	352000	14.60
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	345000	349000	353000	14.60
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	344000	349000	354000	14.60
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	343500	349000	354500	14.60
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	343000	349000	355000	14.60
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
5MHz	DFT-s-OFDM QPSK	1	1	342500	349000	355500	14.60



N66 Full power				Conducted Power(dBm)			
SCS 15kHz							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				346000	349000	352000	
40MHz	DFT-s-OFDM PI/2 BPSK	1	1	19.78	19.69	19.78	21.60
		1	108	20.41	20.23	20.19	21.60
		1	214	19.84	19.83	19.98	21.60
		108	0	21.55	21.27	21.38	21.60
		108	54	20.36	20.59	20.42	21.60
		108	108	21.34	21.30	21.25	21.60
		216	0	21.22	21.25	21.36	21.60
	DFT-s-OFDM QPSK	1	1	19.92	19.83	19.89	21.60
		1	108	20.39	20.37	20.39	21.60
		1	214	19.92	19.95	20.04	21.60
		108	0	20.48	20.42	20.44	21.60
		108	54	20.50	20.50	20.48	21.60
		108	108	20.29	20.29	20.36	21.60
			216	0	20.32	20.40	20.43
	DFT-s-OFDM 16QAM	1	1	20.51	20.54	20.49	21.60
	DFT-s-OFDM 64QAM	1	1	20.34	20.29	20.33	20.60
	DFT-s-OFDM 256QAM	1	1	18.84	18.89	18.86	19.60
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	CP-OFDM QPSK	1	1	346000	349000	352000	19.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	345000	349000	353000	21.60
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	344000	349000	354000	21.60
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	343500	349000	354500	21.60
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	343000	349000	355000	21.60
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
5MHz	DFT-s-OFDM QPSK	1	1	342500	349000	355500	21.60



ANT11:

N77 Full power				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	22.12	/	24.00
		1	137	/	22.97	/	24.00
		1	271	/	22.12	/	24.00
		135	0	/	22.74	/	23.00
		135	69	/	22.94	/	24.00
		135	138	/	22.57	/	23.00
		270	0	/	22.68	/	23.00
	DFT-s-OFDM QPSK	1	1	/	23.25	/	24.00
		1	137	/	23.01	/	24.00
		1	271	/	22.14	/	24.00
		135	0	/	22.81	/	23.00
		135	69	/	23.03	/	24.00
		135	138	/	22.65	/	23.00
		270	0	/	22.73	/	23.00
	DFT-s-OFDM 16QAM	1	1	/	21.53	/	22.00
DFT-s-OFDM 64QAM	1	1	/	21.00	/	21.50	
DFT-s-OFDM 256QAM	1	1	/	19.91	/	21.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	/	633334	/	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	633000	633334	633668	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	632668	633334	634000	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	632000	633334	634668	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	631668	633334	635000	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	631334	633334	635334	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	630668	633334	636000	24.00



N77 Receiver on				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	19.89	/	21.00
		1	137	/	19.90	/	21.00
		1	271	/	19.37	/	21.00
		135	0	/	19.92	/	21.00
		135	69	/	20.65	/	21.00
		135	138	/	20.39	/	21.00
		270	0	/	19.45	/	21.00
	DFT-s-OFDM QPSK	1	1	/	20.25	/	21.00
		1	137	/	20.20	/	21.00
		1	271	/	20.19	/	21.00
		135	0	/	19.54	/	21.00
		135	69	/	20.62	/	21.00
		135	138	/	20.61	/	21.00
		270	0	/	20.33	/	21.00
	DFT-s-OFDM 16QAM	1	1	/	20.34	/	21.00
	DFT-s-OFDM 64QAM	1	1	/	20.55	/	21.00
	DFT-s-OFDM 256QAM	1	1	/	20.01	/	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	18.23	/	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				633000	633334	633668	
90MHz	DFT-s-OFDM QPSK	1	1	19.55	20.42	19.64	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	19.57	20.36	19.74	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	
60MHz	DFT-s-OFDM QPSK	1	1	19.69	20.34	19.65	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631668	633334	635000	
50MHz	DFT-s-OFDM QPSK	1	1	19.70	20.34	19.79	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	19.66	20.36	19.77	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
20MHz	DFT-s-OFDM QPSK	1	1	19.66	20.23	19.82	21.00



N77 Sensor on&Hotspot on				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	14.66	/	16.50
		1	137	/	14.60	/	16.50
		1	271	/	14.70	/	16.50
		135	0	/	14.60	/	16.50
		135	69	/	15.35	/	16.50
		135	138	/	15.15	/	16.50
		270	0	/	14.84	/	16.50
	DFT-s-OFDM QPSK	1	1	/	14.92	/	16.50
		1	137	/	14.59	/	16.50
		1	271	/	14.62	/	16.50
		135	0	/	14.91	/	16.50
		135	69	/	15.42	/	16.50
		135	138	/	15.41	/	16.50
		270	0	/	15.25	/	16.50
DFT-s-OFDM 16QAM	1	1	/	15.51	/	16.50	
DFT-s-OFDM 64QAM	1	1	/	14.62	/	16.50	
DFT-s-OFDM 256QAM	1	1	/	15.10	/	16.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	/	633334	/	15.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	633000	633334	633668	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	632668	633334	634000	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	632000	633334	634668	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	631668	633334	635000	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	631334	633334	635334	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	630668	633334	636000	16.50



N77 Full power				Conducted Power(dBm)						
SCS 30kHz										
Bandwidth	Modulation	RB size	RB offset	Channel 650000	Channel 652400	Channel 654800	Channel 657200	Channel 659600	Channel 662000	Tune up
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	22.02	22.02	22.02	22.02	22.00	22.37	24.00
		1	137	22.88	22.62	22.79	22.91	22.91	23.22	24.00
		1	271	22.07	22.03	22.30	22.10	22.08	22.06	24.00
		135	0	22.63	22.67	22.95	22.84	22.38	22.96	23.00
		135	69	22.89	22.64	23.01	23.02	22.86	23.54	24.00
		135	138	22.48	22.52	22.88	22.84	22.75	22.98	23.00
		270	0	22.59	22.50	22.87	22.95	22.91	22.93	23.00
	DFT-s-OFDM QPSK	1	1	22.09	22.06	22.12	22.04	22.08	22.35	24.00
		1	137	22.95	22.69	23.03	23.52	22.99	23.50	24.00
		1	271	22.06	22.02	22.34	22.21	22.11	22.12	24.00
		135	0	22.72	22.65	22.97	22.88	22.44	22.98	23.00
		135	69	22.94	22.69	23.02	23.50	22.92	23.49	24.00
		135	138	22.58	22.58	22.93	22.95	22.72	22.97	23.00
	270	0	22.63	22.54	22.86	22.97	22.95	22.95	23.00	
	DFT-s-OFDM 16QAM	1	1	21.45	21.28	21.85	21.68	21.78	21.97	22.00
	DFT-s-OFDM 64QAM	1	1	20.92	20.94	21.23	21.45	21.43	21.35	21.50
DFT-s-OFDM 256QAM	1	1	19.86	19.96	20.23	20.18	20.24	20.35	21.00	
Bandwidth	Modulation	RB size	RB offset	Channel 650000	Channel 652400	Channel 654800	Channel 657200	Channel 659600	Channel 662000	Tune up
100MHz	CP-OFDM QPSK	1	1	21.62	21.58	22.01	21.89	21.95	22.12	22.50
Bandwidth	Modulation	RB size	RB offset	Channel 649668	Channel 652200	Channel 654734	Channel 657268	Channel 659800	Channel 662332	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	22.12	22.05	22.01	22.02	22.02	22.27	24.00
Bandwidth	Modulation	RB size	RB offset	Channel 649334	Channel 652000	Channel 654668	Channel 657334	Channel 660000	Channel 662666	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	22.08	22.09	22.02	22.05	22.00	22.32	24.00
Bandwidth	Modulation	RB size	RB offset	Channel 648668	Channel 651600	Channel 654534	Channel 657468	Channel 660400	Channel 663332	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	22.04	22.02	22.00	22.08	22.05	22.28	24.00
Bandwidth	Modulation	RB size	RB offset	Channel 648334	Channel 651400	Channel 654468	Channel 657534	Channel 660600	Channel 663666	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	22.08	22.08	22.03	22.08	22.10	22.24	24.00
Bandwidth	Modulation	RB size	RB offset	Channel 648000	Channel 651200	Channel 654400	Channel 657600	Channel 660800	Channel 664000	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	22.05	22.09	22.01	22.12	22.10	22.34	24.00
Bandwidth	Modulation	RB size	RB offset	Channel 647334	Channel 650800	Channel 654268	Channel 657734	Channel 661200	Channel 664666	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	22.03	22.00	22.14	22.05	22.00	22.23	24.00



N77 Receiver on				Conducted Power(dBm)						
SCS 30kHz										
Bandwidth	Modulation	RB size	RB offset	Channel 650000	Channel 652400	Channel 654800	Channel 657200	Channel 659600	Channel 662000	Tune up
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	21.77	21.79	21.66	21.17	21.77	21.92	23.00
		1	137	21.78	21.82	21.83	21.22	21.88	21.96	23.00
		1	271	22.07	21.28	21.54	21.11	21.67	21.95	23.00
		135	0	21.93	21.85	21.81	21.23	21.92	22.06	23.00
		135	69	22.66	22.59	22.63	22.30	21.97	21.82	23.00
		135	138	22.43	22.28	22.44	21.96	22.55	22.53	23.00
		270	0	22.01	21.38	21.50	21.11	21.41	21.59	23.00
	DFT-s-OFDM QPSK	1	1	22.10	21.31	21.61	21.06	21.54	21.80	23.00
		1	137	22.11	21.78	22.00	22.20	21.98	22.10	23.00
		1	271	21.86	21.73	21.92	21.23	21.87	22.08	23.00
		135	0	22.05	21.47	21.54	21.24	21.74	22.06	23.00
		135	69	21.90	21.86	21.94	21.23	21.85	22.06	23.00
		135	138	22.77	22.53	22.56	22.82	22.81	22.78	23.00
	270	0	22.52	22.22	22.46	22.03	22.52	22.78	23.00	
DFT-s-OFDM 16QAM	1	1	21.45	21.28	21.85	21.68	21.78	21.97	22.00	
DFT-s-OFDM 64QAM	1	1	20.92	20.94	21.23	21.45	21.43	21.35	21.50	
DFT-s-OFDM 256QAM	1	1	19.86	19.96	20.23	20.18	20.24	20.35	21.00	
Bandwidth	Modulation	RB size	RB offset	Channel 650000	Channel 652400	Channel 654800	Channel 657200	Channel 659600	Channel 662000	Tune up
100MHz	CP-OFDM QPSK	1	1	21.11	20.13	20.32	21.01	20.26	21.33	21.50
Bandwidth	Modulation	RB size	RB offset	Channel 649668	Channel 652200	Channel 654734	Channel 657268	Channel 659800	Channel 662332	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	22.35	21.49	21.71	21.23	21.65	22.01	23.00
Bandwidth	Modulation	RB size	RB offset	Channel 649334	Channel 652000	Channel 654668	Channel 657334	Channel 660000	Channel 662666	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	22.31	21.49	21.84	21.32	21.81	22.08	23.00
Bandwidth	Modulation	RB size	RB offset	Channel 648668	Channel 651600	Channel 654534	Channel 657468	Channel 660400	Channel 663332	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	22.27	21.61	21.73	21.30	21.77	21.96	23.00
Bandwidth	Modulation	RB size	RB offset	Channel 648334	Channel 651400	Channel 654468	Channel 657534	Channel 660600	Channel 663666	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	22.28	21.60	21.89	21.40	21.77	22.13	23.00
Bandwidth	Modulation	RB size	RB offset	Channel 648000	Channel 651200	Channel 654400	Channel 657600	Channel 660800	Channel 664000	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	22.27	21.57	21.83	21.16	21.65	22.07	23.00
Bandwidth	Modulation	RB size	RB offset	Channel 647334	Channel 650800	Channel 654268	Channel 657734	Channel 661200	Channel 664666	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	22.16	21.58	21.91	21.25	21.64	22.01	23.00



N77 Hotspot on&Sensor on				Conducted Power(dBm)						
SCS 30kHz										
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				650000	652400	654800	657200	659600	662000	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	14.59	15.22	15.06	15.95	15.63	15.48	16.50
		1	137	14.52	15.22	14.94	15.91	15.65	15.53	16.50
		1	271	14.65	14.78	15.25	15.11	15.63	15.26	16.50
		135	0	14.55	15.27	14.84	15.91	15.83	15.26	16.50
		135	69	15.28	15.62	15.27	16.18	16.25	16.07	16.50
		135	138	15.06	15.49	15.09	15.94	16.30	15.73	16.50
		270	0	14.78	14.79	14.77	15.15	15.62	15.26	16.50
	DFT-s-OFDM QPSK	1	1	14.82	14.88	14.87	15.23	15.66	15.41	16.50
		1	137	14.54	15.23	15.20	16.25	15.82	15.46	16.50
		1	271	14.53	15.17	15.27	16.00	15.89	15.47	16.50
		135	0	14.80	14.74	15.02	15.32	15.82	15.43	16.50
		135	69	14.64	15.24	14.78	15.98	15.86	15.46	16.50
		135	138	15.33	15.78	15.41	16.35	16.30	16.35	16.50
	270	0	15.14	15.39	15.11	16.09	16.22	15.83	16.50	
	DFT-s-OFDM 16QAM	1	1	15.42	14.68	15.21	14.98	15.56	15.18	16.50
	DFT-s-OFDM 64QAM	1	1	14.53	14.58	15.25	15.17	15.59	15.21	16.50
	DFT-s-OFDM 256QAM	1	1	15.05	15.24	14.83	15.70	16.11	15.80	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	650000	652400	654800	657200	659600	662000	15.00
90MHz	DFT-s-OFDM QPSK	1	1	649668	652200	654734	657268	659800	662332	16.50
80MHz	DFT-s-OFDM QPSK	1	1	649334	652000	654668	657334	660000	662666	16.50
60MHz	DFT-s-OFDM QPSK	1	1	648668	651600	654534	657468	660400	663332	16.50
50MHz	DFT-s-OFDM QPSK	1	1	648334	651400	654468	657534	660600	663666	16.50
40MHz	DFT-s-OFDM QPSK	1	1	648000	651200	654400	657600	660800	664000	16.50
20MHz	DFT-s-OFDM QPSK	1	1	647334	650800	654268	657734	661200	664666	16.50



N78(Class 3) Full power				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	16.89	/	18.50
		1	137	/	17.06	/	18.50
		1	271	/	16.93	/	18.50
		135	0	/	17.23	/	18.50
		135	69	/	17.58	/	18.50
		135	138	/	17.56	/	18.50
		270	0	/	16.80	/	18.50
	DFT-s-OFDM QPSK	1	1	/	16.92	/	18.50
		1	137	/	16.96	/	18.50
		1	271	/	16.99	/	18.50
		135	0	/	17.00	/	18.50
		135	69	/	17.11	/	18.50
		135	138	/	17.80	/	18.50
		270	0	/	17.52	/	18.50
	DFT-s-OFDM 16QAM	1	1	/	16.60	/	18.50
DFT-s-OFDM 64QAM	1	1	/	16.89	/	18.50	
DFT-s-OFDM 256QAM	1	1	/	17.32	/	18.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	/	633334	/	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	17.64	17.12	16.96	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	17.42	16.84	16.68	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	17.75	17.12	17.00	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	17.71	17.08	16.97	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	17.51	16.92	16.84	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	17.65	17.04	17.00	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	17.54	16.99	16.82	18.50



N78(Class 3) Receiver on				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	12.89	/	14.50
		1	137	/	13.06	/	14.50
		1	271	/	12.93	/	14.50
		135	0	/	13.23	/	14.50
		135	69	/	13.58	/	14.50
		135	138	/	13.56	/	14.50
		270	0	/	12.80	/	14.50
	DFT-s-OFDM QPSK	1	1	/	12.92	/	14.50
		1	137	/	12.96	/	14.50
		1	271	/	12.99	/	14.50
		135	0	/	13.00	/	14.50
		135	69	/	13.11	/	14.50
		135	138	/	13.80	/	14.50
		270	0	/	13.52	/	14.50
	DFT-s-OFDM 16QAM	1	1	/	12.60	/	14.50
DFT-s-OFDM 64QAM	1	1	/	12.89	/	14.50	
DFT-s-OFDM 256QAM	1	1	/	13.32	/	14.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	/	633334	/	14.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	633000	633334	633668	14.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	632668	633334	634000	14.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	632000	633334	634668	14.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	631668	633334	635000	14.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	631334	633334	635334	14.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	631000	633334	635668	14.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	630668	633334	636000	14.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	13.54	12.99	12.82	14.50



N78(Class 3) Sensor on&Hotspot on				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	10.84	/	12.50
		1	137	/	11.21	/	12.50
		1	271	/	10.85	/	12.50
		135	0	/	11.28	/	12.50
		135	69	/	11.66	/	12.50
		135	138	/	11.71	/	12.50
		270	0	/	10.82	/	12.50
	DFT-s-OFDM QPSK	1	1	/	10.86	/	12.50
		1	137	/	10.95	/	12.50
		1	271	/	11.09	/	12.50
		135	0	/	11.11	/	12.50
		135	69	/	11.14	/	12.50
		135	138	/	11.82	/	12.50
		270	0	/	11.52	/	12.50
	DFT-s-OFDM 16QAM	1	1	/	10.76	/	12.50
	DFT-s-OFDM 64QAM	1	1	/	10.92	/	12.50
DFT-s-OFDM 256QAM	1	1	/	11.31	/	12.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	/	633334	/	12.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	633000	633334	633668	12.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	632668	633334	634000	12.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	632000	633334	634668	12.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	631668	633334	635000	12.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	631334	633334	635334	12.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	631000	633334	635668	12.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	630668	633334	636000	12.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	10.68	10.96	11.44	12.50



N78(Class 2) Full power				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	20.77	/	21.50
		1	137	/	20.94	/	21.50
		1	271	/	20.47	/	21.50
		135	0	/	21.03	/	21.50
		135	69	/	21.16	/	21.50
		135	138	/	21.06	/	21.50
		270	0	/	20.54	/	21.50
	DFT-s-OFDM QPSK	1	1	/	20.95	/	21.50
		1	137	/	20.85	/	21.50
		1	271	/	20.78	/	21.50
		135	0	/	20.69	/	21.50
		135	69	/	20.85	/	21.50
		135	138	/	21.36	/	21.50
		270	0	/	20.92	/	21.50
DFT-s-OFDM 16QAM	1	1	/	20.19	/	21.50	
DFT-s-OFDM 64QAM	1	1	/	20.49	/	21.50	
DFT-s-OFDM 256QAM	1	1	/	20.49	/	21.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	/	633334	/	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	633000	633334	633668	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	632668	633334	634000	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	632000	633334	634668	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	631668	633334	635000	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	631334	633334	635334	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	631000	633334	635668	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	630668	633334	636000	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	20.19	20.63	21.09	21.50



N78(Class 2) Receiver on				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	16.77	/	17.50
		1	137	/	16.94	/	17.50
		1	271	/	16.47	/	17.50
		135	0	/	17.03	/	17.50
		135	69	/	17.16	/	17.50
		135	138	/	17.06	/	17.50
		270	0	/	16.54	/	17.50
	DFT-s-OFDM QPSK	1	1	/	17.00	/	17.50
		1	137	/	16.85	/	17.50
		1	271	/	16.78	/	17.50
		135	0	/	16.69	/	17.50
		135	69	/	16.85	/	17.50
		135	138	/	17.36	/	17.50
	DFT-s-OFDM 16QAM	1	1	/	16.19	/	17.50
	DFT-s-OFDM 64QAM	1	1	/	16.49	/	17.50
DFT-s-OFDM 256QAM	1	1	/	16.49	/	17.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	/	633334	/	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	633000	633334	633668	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	632668	633334	634000	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	632000	633334	634668	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	631668	633334	635000	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	631334	633334	635334	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	631000	633334	635668	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	630668	633334	636000	17.50



N78(Class 2) Sensor on&Hotspot on				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	14.77	/	15.50
		1	137	/	14.95	/	15.50
		1	271	/	14.24	/	15.50
		135	0	/	15.06	/	15.50
		135	69	/	15.26	/	15.50
		135	138	/	15.20	/	15.50
		270	0	/	14.47	/	15.50
	DFT-s-OFDM QPSK	1	1	/	15.01	/	15.50
		1	137	/	14.91	/	15.50
		1	271	/	14.90	/	15.50
		135	0	/	14.58	/	15.50
		135	69	/	14.95	/	15.50
		135	138	/	15.26	/	15.50
	DFT-s-OFDM 16QAM	1	1	/	14.31	/	15.50
	DFT-s-OFDM 64QAM	1	1	/	14.61	/	15.50
DFT-s-OFDM 256QAM	1	1	/	14.96	/	15.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	/	633334	/	15.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	633000	633334	633668	15.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	632668	633334	634000	15.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	632000	633334	634668	15.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	631668	633334	635000	15.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	631334	633334	635334	15.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	631000	633334	635668	15.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	630668	633334	636000	15.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	14.47	15.03	14.97	15.50



ANT12:

N77 Full power				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	22.76	/	24.70
		1	137	/	23.07	/	24.70
		1	271	/	22.79	/	24.70
		135	0	/	22.70	/	23.70
		135	69	/	23.00	/	24.70
		135	138	/	22.71	/	23.70
		270	0	/	22.93	/	24.70
	DFT-s-OFDM QPSK	1	1	/	22.84	/	24.70
		1	137	/	23.09	/	24.70
		1	271	/	22.88	/	24.70
		135	0	/	22.79	/	24.70
		135	69	/	22.80	/	24.70
		135	138	/	22.80	/	24.70
	DFT-s-OFDM 16QAM	1	1	/	21.96	/	23.70
DFT-s-OFDM 64QAM	1	1	/	21.61	/	22.70	
DFT-s-OFDM 256QAM	1	1	/	20.75	/	21.70	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	/	633334	/	23.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	22.82	22.78	22.93	24.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	22.81	22.84	22.91	24.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	22.90	22.80	23.00	24.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	22.84	22.79	23.02	24.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	22.92	22.81	23.00	24.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	22.77	22.80	23.01	24.70



N77 Receiver on&Hotspot on				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	11.19	/	12.70
		1	137	/	11.33	/	12.70
		1	271	/	10.79	/	12.70
		135	0	/	11.37	/	12.70
		135	69	/	11.90	/	12.70
		135	138	/	11.58	/	12.70
		270	0	/	11.25	/	12.70
	DFT-s-OFDM QPSK	1	1	/	10.78	/	12.70
		1	137	/	11.36	/	12.70
		1	271	/	11.32	/	12.70
		135	0	/	10.82	/	12.70
		135	69	/	11.24	/	12.70
		135	138	/	11.79	/	12.70
	DFT-s-OFDM 16QAM	1	1	/	11.02	/	12.70
DFT-s-OFDM 64QAM	1	1	/	11.14	/	12.70	
DFT-s-OFDM 256QAM	1	1	/	11.13	/	12.70	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	/	633334	/	11.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	633000	633334	633668	12.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	632668	633334	634000	12.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	632000	633334	634668	12.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	631668	633334	635000	12.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	631334	633334	635334	12.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	630668	633334	636000	12.70



N77 Sensor on				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	15.17	/	16.70
		1	137	/	15.24	/	16.70
		1	271	/	14.99	/	16.70
		135	0	/	15.03	/	16.70
		135	69	/	15.72	/	16.70
		135	138	/	15.54	/	16.70
		270	0	/	14.95	/	16.70
	DFT-s-OFDM QPSK	1	1	/	15.05	/	16.70
		1	137	/	15.26	/	16.70
		1	271	/	15.24	/	16.70
		135	0	/	14.99	/	16.70
		135	69	/	15.82	/	16.70
		135	138	/	15.81	/	16.70
	DFT-s-OFDM 16QAM	1	1	/	14.83	/	16.70
DFT-s-OFDM 64QAM	1	1	/	14.94	/	16.70	
DFT-s-OFDM 256QAM	1	1	/	15.50	/	16.70	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	/	633334	/	15.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	633000	633334	633668	16.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	632668	633334	634000	16.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	632000	633334	634668	16.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	631668	633334	635000	16.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	631334	633334	635334	16.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	630668	633334	636000	16.70



N77 Full power				Conducted Power(dBm)						
SCS 30kHz										
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				650000	652400	654800	657200	659600	662000	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	22.71	22.73	23.04	23.17	22.92	23.46	24.70
		1	137	22.97	23.03	22.96	22.85	22.86	23.18	24.70
		1	271	22.72	22.80	23.23	23.40	23.55	23.49	24.70
		135	0	22.62	22.88	22.97	22.89	23.02	23.19	23.70
		135	69	22.92	22.80	23.13	23.13	23.04	23.44	24.70
		135	138	22.66	22.66	23.05	22.95	22.94	23.22	23.70
		270	0	22.87	22.73	22.90	22.97	23.04	23.08	24.70
	DFT-s-OFDM QPSK	1	1	22.75	22.82	23.16	23.09	23.05	23.08	24.70
		1	137	23.01	23.02	23.03	22.99	22.94	23.43	24.70
		1	271	22.78	22.86	23.01	22.93	22.91	23.13	24.70
		135	0	22.71	22.86	23.12	22.89	23.02	23.29	23.70
		135	69	23.02	22.80	23.17	23.11	23.12	23.84	24.70
		135	138	22.72	22.76	23.03	23.00	23.04	23.21	23.70
	270	0	23.01	22.78	23.01	23.04	23.08	23.09	24.70	
	DFT-s-OFDM 16QAM	1	1	21.85	21.72	22.02	21.76	21.92	22.12	23.70
	DFT-s-OFDM 64QAM	1	1	21.52	21.63	21.86	21.67	21.78	21.92	22.70
	DFT-s-OFDM 256QAM	1	1	20.69	20.91	20.67	20.69	20.62	20.78	21.70
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel
100MHz	CP-OFDM QPSK	1	1	21.42	21.57	21.97	22.02	21.92	22.12	23.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	22.72	22.77	23.03	23.14	23.01	23.46	24.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	22.78	22.73	23.02	23.04	23.02	23.38	24.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	22.75	22.85	23.11	23.13	22.91	23.38	24.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	22.72	22.78	23.07	23.14	22.96	23.36	24.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	22.70	22.82	23.06	23.15	22.96	23.35	24.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	22.74	22.72	23.08	23.12	22.90	23.44	24.70



N77 Receiver on&Hotspot on				Conducted Power(dBm)							
SCS 30kHz											
Bandwidth	Modulation	RB size	RB offset	Channel 650000	Channel 652400	Channel 654800	Channel 657200	Channel 659600	Channel 662000	Tune up	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	11.18	11.14	11.61	12.05	12.10	11.72	12.70	
		1	137	11.26	11.23	11.86	12.30	12.07	11.74	12.70	
		1	271	11.09	10.73	11.29	11.85	12.38	11.58	12.70	
		135	0	10.97	11.28	11.73	12.30	11.92	11.75	12.70	
		135	69	11.68	11.84	12.12	12.14	12.06	12.35	12.70	
		135	138	11.53	11.50	12.12	12.09	12.06	11.99	12.70	
		270	0	11.03	11.19	11.26	11.92	12.34	11.51	12.70	
	DFT-s-OFDM QPSK	1	1	11.04	10.71	11.27	11.86	12.26	11.63	12.70	
		1	137	11.22	11.27	11.81	12.29	12.30	12.31	12.70	
		1	271	11.18	11.21	11.80	12.26	12.09	11.77	12.70	
		135	0	11.01	10.72	11.38	12.04	12.33	11.63	12.70	
		135	69	11.07	11.19	11.79	12.40	12.05	11.66	12.70	
		135	138	11.79	11.73	12.22	12.41	12.24	12.42	12.70	
	DFT-s-OFDM 16QAM	1	1	10.79	10.95	11.08	11.86	11.97	11.35	12.70	
	DFT-s-OFDM 64QAM	1	1	10.93	11.06	11.27	11.90	12.23	11.44	12.70	
	DFT-s-OFDM 256QAM	1	1	11.47	11.05	11.66	11.53	12.10	12.00	12.70	
	Bandwidth	Modulation	RB size	RB offset	Channel 650000	Channel 652400	Channel 654800	Channel 657200	Channel 659600	Channel 662000	Tune up
	100MHz	CP-OFDM QPSK	1	1	9.20	9.22	9.74	9.59	9.96	9.48	11.20
Bandwidth	Modulation	RB size	RB offset	Channel 649668	Channel 652200	Channel 654734	Channel 657268	Channel 659800	Channel 662332	Tune up	
90MHz	DFT-s-OFDM QPSK	1	1	11.54	11.14	11.61	12.03	12.16	12.32	12.70	
Bandwidth	Modulation	RB size	RB offset	Channel 649334	Channel 652000	Channel 654668	Channel 657334	Channel 660000	Channel 662666	Tune up	
80MHz	DFT-s-OFDM QPSK	1	1	11.59	11.11	11.69	11.87	12.09	12.29	12.70	
Bandwidth	Modulation	RB size	RB offset	Channel 648668	Channel 651600	Channel 654534	Channel 657468	Channel 660400	Channel 663332	Tune up	
60MHz	DFT-s-OFDM QPSK	1	1	11.38	11.08	11.68	11.96	12.14	12.34	12.70	
Bandwidth	Modulation	RB size	RB offset	Channel 648334	Channel 651400	Channel 654468	Channel 657534	Channel 660600	Channel 663666	Tune up	
50MHz	DFT-s-OFDM QPSK	1	1	11.50	11.07	11.56	11.96	12.05	12.30	12.70	
Bandwidth	Modulation	RB size	RB offset	Channel 648000	Channel 651200	Channel 654400	Channel 657600	Channel 660800	Channel 664000	Tune up	
40MHz	DFT-s-OFDM QPSK	1	1	11.53	11.23	11.67	11.90	12.02	12.30	12.70	
Bandwidth	Modulation	RB size	RB offset	Channel 647334	Channel 650800	Channel 654268	Channel 657734	Channel 661200	Channel 664666	Tune up	
20MHz	DFT-s-OFDM QPSK	1	1	11.53	11.05	11.70	12.01	12.13	12.33	12.70	



N77 Sensor on				Conducted Power(dBm)						
SCS 30kHz										
Bandwidth	Modulation	RB size	RB offset	Channel 650000	Channel 652400	Channel 654800	Channel 657200	Channel 659600	Channel 662000	Tune up
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	15.09	15.14	15.54	15.99	16.03	15.62	16.70
		1	137	15.15	15.14	15.76	16.21	15.99	15.67	16.70
		1	271	14.92	14.96	15.18	15.83	16.29	15.51	16.70
		135	0	14.92	15.17	15.64	16.18	15.89	15.62	16.70
		135	69	15.64	15.70	15.99	16.06	16.00	16.24	16.70
		135	138	15.44	15.47	16.06	16.06	15.98	15.95	16.70
		270	0	14.90	14.92	15.20	15.81	16.29	15.50	16.70
	DFT-s-OFDM QPSK	1	1	14.97	14.91	15.16	15.79	16.18	15.53	16.70
		1	137	15.11	15.20	15.57	16.16	16.03	16.22	16.70
		1	271	15.14	15.15	15.74	16.21	16.06	15.71	16.70
		135	0	14.91	14.89	15.32	15.95	16.27	15.56	16.70
		135	69	14.99	15.12	15.67	16.34	15.98	15.60	16.70
		135	138	15.70	15.63	16.08	15.99	16.39	16.43	16.70
	270	0	15.46	15.42	16.01	15.86	16.02	16.06	16.70	
	DFT-s-OFDM 16QAM	1	1	14.74	14.76	14.97	15.74	15.89	15.33	16.70
	DFT-s-OFDM 64QAM	1	1	14.86	14.94	15.18	15.78	16.12	15.38	16.70
	DFT-s-OFDM 256QAM	1	1	15.39	14.95	15.57	16.38	16.00	15.89	16.70
Bandwidth	Modulation	RB size	RB offset	Channel 650000	Channel 652400	Channel 654800	Channel 657200	Channel 659600	Channel 662000	Tune up
100MHz	CP-OFDM QPSK	1	1	13.21	13.48	13.71	13.55	13.98	13.47	15.20
Bandwidth	Modulation	RB size	RB offset	Channel 649668	Channel 652200	Channel 654734	Channel 657268	Channel 659800	Channel 662332	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	15.59	15.20	15.63	16.07	16.20	16.35	16.70
Bandwidth	Modulation	RB size	RB offset	Channel 649334	Channel 652000	Channel 654668	Channel 657334	Channel 660000	Channel 662666	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	15.61	15.10	15.73	15.82	16.10	16.36	16.70
Bandwidth	Modulation	RB size	RB offset	Channel 648668	Channel 651600	Channel 654534	Channel 657468	Channel 660400	Channel 663332	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	15.43	15.11	15.72	15.95	16.19	16.41	16.70
Bandwidth	Modulation	RB size	RB offset	Channel 648334	Channel 651400	Channel 654468	Channel 657534	Channel 660600	Channel 663666	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	15.55	15.14	15.63	15.95	16.05	16.36	16.70
Bandwidth	Modulation	RB size	RB offset	Channel 648000	Channel 651200	Channel 654400	Channel 657600	Channel 660800	Channel 664000	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	15.56	15.25	15.71	15.90	15.99	16.27	16.70
Bandwidth	Modulation	RB size	RB offset	Channel 647334	Channel 650800	Channel 654268	Channel 657734	Channel 661200	Channel 664666	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	15.53	15.05	15.69	16.00	16.20	16.35	16.70



N78(Class 3) Full power				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	18.58	/	19.20
		1	137	/	18.69	/	19.20
		1	271	/	18.22	/	19.20
		135	0	/	18.64	/	19.20
		135	69	/	18.88	/	19.20
		135	138	/	18.99	/	19.20
		270	0	/	18.29	/	19.20
	DFT-s-OFDM QPSK	1	1	/	18.30	/	19.20
		1	137	/	18.56	/	19.20
		1	271	/	18.64	/	19.20
		135	0	/	18.53	/	19.20
		135	69	/	18.60	/	19.20
		135	138	/	19.06	/	19.20
	DFT-s-OFDM 16QAM	1	1	/	18.04	/	19.20
	DFT-s-OFDM 64QAM	1	1	/	18.36	/	19.20
DFT-s-OFDM 256QAM	1	1	/	18.70	/	19.20	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	/	633334	/	19.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	17.78	18.33	18.98	19.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	17.66	18.25	18.83	19.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	17.88	18.40	18.96	19.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	17.69	18.35	19.03	19.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	17.61	18.26	18.77	19.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	17.74	18.49	18.98	19.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	17.65	18.19	18.83	19.20



N78(Class 3) Sensor on&Hotspot on&Receiver on				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	9.66	/	10.20
		1	137	/	9.82	/	10.20
		1	271	/	9.22	/	10.20
		135	0	/	9.66	/	10.20
		135	69	/	9.80	/	10.20
		135	138	/	10.10	/	10.20
		270	0	/	9.24	/	10.20
	DFT-s-OFDM QPSK	1	1	/	9.28	/	10.20
		1	137	/	9.64	/	10.20
		1	271	/	9.69	/	10.20
		135	0	/	9.46	/	10.20
		135	69	/	9.56	/	10.20
		135	138	/	10.06	/	10.20
	DFT-s-OFDM 16QAM	1	1	/	9.10	/	10.20
DFT-s-OFDM 64QAM	1	1	/	9.33	/	10.20	
DFT-s-OFDM 256QAM	1	1	/	9.68	/	10.20	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	/	633334	/	9.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	633000	633334	633668	10.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	632668	633334	634000	10.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	632000	633334	634668	10.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	631668	633334	635000	10.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	631334	633334	635334	10.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	631000	633334	635668	10.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	630668	633334	636000	10.20



N78(Class 2) Full power				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	21.23	/	22.20
		1	137	/	21.50	/	22.20
		1	271	/	21.19	/	22.20
		135	0	/	21.53	/	22.20
		135	69	/	21.96	/	22.20
		135	138	/	22.07	/	22.20
		270	0	/	20.96	/	22.20
	DFT-s-OFDM QPSK	1	1	/	21.09	/	22.20
		1	137	/	21.41	/	22.20
		1	271	/	21.36	/	22.20
		135	0	/	21.22	/	22.20
		135	69	/	21.38	/	22.20
		135	138	/	22.01	/	22.20
	DFT-s-OFDM 16QAM	1	1	/	20.81	/	22.20
DFT-s-OFDM 64QAM	1	1	/	21.06	/	22.20	
DFT-s-OFDM 256QAM	1	1	/	21.01	/	22.20	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	/	633334	/	22.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	20.89	21.45	21.97	22.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	20.63	21.26	21.90	22.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	20.83	21.46	22.10	22.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	20.84	21.51	21.98	22.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	20.68	21.40	21.95	22.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	20.78	21.40	22.09	22.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	20.56	21.24	21.90	22.20



N78(Class 2) Sensor on&Hotspot on&Receiver on				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	12.53	/	13.20
		1	137	/	12.81	/	13.20
		1	271	/	12.42	/	13.20
		135	0	/	12.83	/	13.20
		135	69	/	13.02	/	13.20
		135	138	/	13.06	/	13.20
		270	0	/	12.37	/	13.20
	DFT-s-OFDM QPSK	1	1	/	12.32	/	13.20
		1	137	/	13.02	/	13.20
		1	271	/	12.75	/	13.20
		135	0	/	12.67	/	13.20
		135	69	/	12.78	/	13.20
		135	138	/	13.09	/	13.20
	DFT-s-OFDM 16QAM	1	1	/	12.24	/	13.20
DFT-s-OFDM 64QAM	1	1	/	12.52	/	13.20	
DFT-s-OFDM 256QAM	1	1	/	12.78	/	13.20	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	/	633334	/	13.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	12.06	12.62	13.09	13.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	11.87	12.41	13.02	13.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	12.08	12.62	13.13	13.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	12.07	12.65	13.13	13.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	11.95	12.59	12.93	13.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	12.11	12.68	13.12	13.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	11.87	12.52	12.99	13.20



ANT13:

N77 Full power				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	20.79	/	22.50
		1	137	/	21.08	/	22.50
		1	271	/	20.76	/	22.50
		135	0	/	20.80	/	22.50
		135	69	/	21.66	/	22.50
		135	138	/	21.52	/	22.50
		270	0	/	20.76	/	22.50
	DFT-s-OFDM QPSK	1	1	/	20.91	/	22.50
		1	137	/	21.26	/	22.50
		1	271	/	21.09	/	22.50
		135	0	/	20.87	/	22.50
		135	69	/	21.93	/	22.50
		135	138	/	21.93	/	22.50
		270	0	/	21.39	/	22.50
	DFT-s-OFDM 16QAM	1	1	/	20.54	/	22.50
DFT-s-OFDM 64QAM	1	1	/	21.53	/	22.50	
DFT-s-OFDM 256QAM	1	1	/	20.14	/	21.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	/	633334	/	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	20.90	633334	633668	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	21.13	633334	634000	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	21.34	633334	634668	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	21.19	633334	635000	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	20.93	633334	635334	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	21.18	633334	636000	22.50



N77 Receiver on&Hotspot on				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	14.00	/	15.50
		1	137	/	13.97	/	15.50
		1	271	/	14.07	/	15.50
		135	0	/	14.03	/	15.50
		135	69	/	15.02	/	15.50
		135	138	/	14.72	/	15.50
		270	0	/	13.95	/	15.50
	DFT-s-OFDM QPSK	1	1	/	14.20	/	15.50
		1	137	/	14.65	/	15.50
		1	271	/	14.28	/	15.50
		135	0	/	14.10	/	15.50
		135	69	/	14.05	/	15.50
		135	138	/	14.95	/	15.50
	DFT-s-OFDM 16QAM	1	1	/	13.75	/	15.50
	DFT-s-OFDM 64QAM	1	1	/	13.98	/	15.50
DFT-s-OFDM 256QAM	1	1	/	14.33	/	15.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	/	633334	/	13.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	633000	633334	633668	15.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	632668	633334	634000	15.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	632000	633334	634668	15.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	631668	633334	635000	15.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	631334	633334	635334	15.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	630668	633334	636000	15.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	14.31	14.25	14.18	15.50



N77 Sensor on				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	16.09	/	17.50
		1	137	/	16.03	/	17.50
		1	271	/	15.90	/	17.50
		135	0	/	16.18	/	17.50
		135	69	/	16.72	/	17.50
		135	138	/	16.73	/	17.50
		270	0	/	16.02	/	17.50
	DFT-s-OFDM QPSK	1	1	/	16.14	/	17.50
		1	137	/	16.30	/	17.50
		1	271	/	16.29	/	17.50
		135	0	/	16.01	/	17.50
		135	69	/	16.79	/	17.50
		135	138	/	16.78	/	17.50
		270	0	/	16.55	/	17.50
	DFT-s-OFDM 16QAM	1	1	/	15.91	/	17.50
DFT-s-OFDM 64QAM	1	1	/	16.03	/	17.50	
DFT-s-OFDM 256QAM	1	1	/	16.34	/	17.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	/	633334	/	15.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	633000	633334	633668	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	632668	633334	634000	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	632000	633334	634668	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	631668	633334	635000	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	631334	633334	635334	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	630668	633334	636000	17.50



N77 Full power					Conducted Power(dBm)					
SCS 30kHz										
Bandwidth	Modulation	RB size	RB offset	Channel 650000	Channel 652400	Channel 654800	Channel 657200	Channel 659600	Channel 662000	Tune up
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	20.85	21.19	21.32	21.12	21.09	21.26	22.50
		1	137	21.00	21.18	21.34	21.13	21.08	20.80	22.50
		1	271	20.87	20.73	21.00	21.17	21.19	20.64	22.50
		135	0	20.86	21.19	21.28	21.11	21.11	20.62	22.50
		135	69	21.74	21.81	22.06	21.73	21.61	21.61	22.50
		135	138	21.42	21.53	21.40	21.60	21.52	21.19	22.50
		270	0	20.81	20.74	20.94	20.90	20.92	20.61	22.50
	DFT-s-OFDM QPSK	1	1	20.83	20.79	20.98	21.09	21.11	21.12	22.50
		1	137	20.99	21.20	21.42	21.23	21.17	21.13	22.50
		1	271	20.99	21.19	21.36	21.22	21.15	20.79	22.50
		135	0	20.81	20.77	21.06	21.11	21.12	20.60	22.50
		135	69	20.94	21.20	21.30	21.12	21.10	20.68	22.50
		135	138	21.85	21.85	22.15	21.85	21.76	21.59	22.50
	270	0	21.66	21.57	21.40	21.60	21.56	21.28	22.50	
	DFT-s-OFDM 16QAM	1	1	21.49	21.50	21.87	21.89	21.90	21.22	22.50
	DFT-s-OFDM 64QAM	1	1	21.58	21.46	21.80	21.80	21.69	21.37	22.50
	DFT-s-OFDM 256QAM	1	1	20.07	20.01	20.29	20.34	20.35	19.87	21.50
Bandwidth	Modulation	RB size	RB offset	Channel 650000	Channel 652400	Channel 654800	Channel 657200	Channel 659600	Channel 662000	Tune up
100MHz	CP-OFDM QPSK	1	1	19.70	19.62	19.93	19.94	19.86	19.65	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 649668	Channel 652200	Channel 654734	Channel 657268	Channel 659800	Channel 662332	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	20.81	20.81	21.01	21.06	21.05	21.00	22.50
Bandwidth	Modulation	RB size	RB offset	Channel 649334	Channel 652000	Channel 654668	Channel 657334	Channel 660000	Channel 662666	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	20.85	21.23	20.94	21.02	21.10	21.17	22.50
Bandwidth	Modulation	RB size	RB offset	Channel 648668	Channel 651600	Channel 654534	Channel 657468	Channel 660400	Channel 663332	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	20.83	21.23	20.96	20.99	20.98	21.27	22.50
Bandwidth	Modulation	RB size	RB offset	Channel 648334	Channel 651400	Channel 654468	Channel 657534	Channel 660600	Channel 663666	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	21.12	21.30	20.95	20.98	21.12	21.24	22.50
Bandwidth	Modulation	RB size	RB offset	Channel 648000	Channel 651200	Channel 654400	Channel 657600	Channel 660800	Channel 664000	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	20.85	20.82	20.91	20.96	21.16	21.27	22.50
Bandwidth	Modulation	RB size	RB offset	Channel 647334	Channel 650800	Channel 654268	Channel 657734	Channel 661200	Channel 664666	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	21.27	21.23	21.04	21.02	21.03	21.18	22.50



N77 Receiver on&Hotspot on				Conducted Power(dBm)						
SCS 30kHz										
Bandwidth	Modulation	RB size	RB offset	Channel 650000	Channel 652400	Channel 654800	Channel 657200	Channel 659600	Channel 662000	Tune up
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	14.07	14.27	14.66	14.41	14.28	13.96	15.50
		1	137	14.07	14.44	14.54	14.53	14.28	14.14	15.50
		1	271	13.96	14.04	14.33	14.28	14.27	13.80	15.50
		135	0	14.14	14.45	14.63	14.43	14.24	14.02	15.50
		135	69	14.92	14.96	15.19	15.21	15.11	14.67	15.50
		135	138	14.64	14.82	14.87	14.95	14.90	14.35	15.50
		270	0	14.04	14.15	14.31	14.34	14.32	13.93	15.50
	DFT-s-OFDM QPSK	1	1	14.11	14.03	14.38	14.38	14.37	13.98	15.50
		1	137	14.21	14.33	14.70	14.59	14.56	14.04	15.50
		1	271	14.19	14.30	14.62	14.50	14.30	14.02	15.50
		135	0	14.04	14.02	14.25	14.34	14.33	13.88	15.50
		135	69	14.14	14.46	14.65	14.45	14.26	14.04	15.50
		135	138	14.85	14.95	15.26	15.25	15.25	14.66	15.50
	DFT-s-OFDM 16QAM	1	1	13.81	14.26	14.16	14.09	14.12	14.22	15.50
1		1	13.90	13.92	14.13	14.27	14.14	14.28	15.50	
1		1	14.43	14.43	14.78	14.73	14.73	14.38	15.50	
Bandwidth	Modulation	RB size	RB offset	Channel 650000	Channel 652400	Channel 654800	Channel 657200	Channel 659600	Channel 662000	Tune up
100MHz	CP-OFDM QPSK	1	1	12.71	12.71	12.99	12.25	12.80	12.45	13.00
Bandwidth	Modulation	RB size	RB offset	Channel 649668	Channel 652200	Channel 654734	Channel 657268	Channel 659800	Channel 662332	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	14.04	14.00	14.27	14.25	14.39	14.03	15.50
Bandwidth	Modulation	RB size	RB offset	Channel 649334	Channel 652000	Channel 654668	Channel 657334	Channel 660000	Channel 662666	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	14.12	13.92	14.41	14.33	14.27	13.99	15.50
Bandwidth	Modulation	RB size	RB offset	Channel 648668	Channel 651600	Channel 654534	Channel 657468	Channel 660400	Channel 663332	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	14.00	14.04	14.32	14.36	14.25	13.92	15.50
Bandwidth	Modulation	RB size	RB offset	Channel 648334	Channel 651400	Channel 654468	Channel 657534	Channel 660600	Channel 663666	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	13.98	14.12	14.32	14.39	14.41	14.00	15.50
Bandwidth	Modulation	RB size	RB offset	Channel 648000	Channel 651200	Channel 654400	Channel 657600	Channel 660800	Channel 664000	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	14.05	14.03	14.38	14.33	14.23	14.01	15.50
Bandwidth	Modulation	RB size	RB offset	Channel 647334	Channel 650800	Channel 654268	Channel 657734	Channel 661200	Channel 664666	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	14.09	14.12	14.38	14.32	14.40	13.93	15.50



N77 Sensor on				Conducted Power(dBm)						
SCS 30kHz										
Bandwidth	Modulation	RB size	RB offset	Channel 650000	Channel 652400	Channel 654800	Channel 657200	Channel 659600	Channel 662000	Tune up
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	16.20	16.43	16.63	16.53	16.30	16.06	17.50
		1	137	16.14	16.41	16.65	16.44	16.23	16.11	17.50
		1	271	16.01	16.02	16.21	16.29	16.28	15.81	17.50
		135	0	16.10	16.40	16.56	16.37	16.30	16.02	17.50
		135	69	16.79	16.83	17.22	17.13	17.15	16.70	17.50
		135	138	16.68	16.67	16.90	16.98	16.81	16.50	17.50
		270	0	16.09	16.05	16.33	16.37	16.31	15.91	17.50
	DFT-s-OFDM QPSK	1	1	16.06	16.02	16.41	16.41	16.41	15.94	17.50
		1	137	16.20	16.43	16.65	16.55	16.34	16.01	17.50
		1	271	16.21	16.47	16.63	16.51	16.33	16.11	17.50
		135	0	16.07	16.00	16.32	16.34	16.40	15.90	17.50
		135	69	16.19	16.44	16.58	16.50	16.32	16.03	17.50
		135	138	16.89	16.96	17.25	17.24	17.22	16.67	17.50
	270	0	16.66	16.68	16.93	17.03	16.95	16.45	17.50	
	DFT-s-OFDM 16QAM	1	1	15.85	15.76	16.18	16.15	16.10	16.21	17.50
	DFT-s-OFDM 64QAM	1	1	15.92	15.87	16.20	16.22	16.18	15.78	17.50
	DFT-s-OFDM 256QAM	1	1	16.42	16.42	16.73	16.75	16.76	16.36	17.50
Bandwidth	Modulation	RB size	RB offset	Channel 650000	Channel 652400	Channel 654800	Channel 657200	Channel 659600	Channel 662000	Tune up
100MHz	CP-OFDM QPSK	1	1	14.79	14.70	14.96	14.93	14.82	14.42	15.00
Bandwidth	Modulation	RB size	RB offset	Channel 649668	Channel 652200	Channel 654734	Channel 657268	Channel 659800	Channel 662332	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	16.10	16.09	16.39	16.41	16.45	15.89	17.50
Bandwidth	Modulation	RB size	RB offset	Channel 649334	Channel 652000	Channel 654668	Channel 657334	Channel 660000	Channel 662666	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	16.10	16.06	16.39	16.35	16.31	16.00	17.50
Bandwidth	Modulation	RB size	RB offset	Channel 648668	Channel 651600	Channel 654534	Channel 657468	Channel 660400	Channel 663332	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	16.07	15.91	16.38	16.37	16.31	15.92	17.50
Bandwidth	Modulation	RB size	RB offset	Channel 648334	Channel 651400	Channel 654468	Channel 657534	Channel 660600	Channel 663666	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	16.01	15.90	16.42	16.44	16.35	15.87	17.50
Bandwidth	Modulation	RB size	RB offset	Channel 648000	Channel 651200	Channel 654400	Channel 657600	Channel 660800	Channel 664000	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	15.98	16.12	16.26	16.38	16.28	15.91	17.50
Bandwidth	Modulation	RB size	RB offset	Channel 647334	Channel 650800	Channel 654268	Channel 657734	Channel 661200	Channel 664666	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	16.12	15.98	16.29	16.36	16.39	15.82	17.50



N78(Class 3) Receiver on&Hotspot on				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	8.81	/	10.00
		1	137	/	9.00	/	10.00
		1	271	/	8.48	/	10.00
		135	0	/	9.01	/	10.00
		135	69	/	9.45	/	10.00
		135	138	/	9.44	/	10.00
		270	0	/	8.65	/	10.00
	DFT-s-OFDM QPSK	1	1	/	8.71	/	10.00
		1	137	/	8.78	/	10.00
		1	271	/	8.84	/	10.00
		135	0	/	8.87	/	10.00
		135	69	/	8.94	/	10.00
		135	138	/	9.70	/	10.00
	DFT-s-OFDM 16QAM	1	1	/	8.44	/	10.00
	DFT-s-OFDM 64QAM	1	1	/	8.77	/	10.00
DFT-s-OFDM 256QAM	1	1	/	9.18	/	10.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	/	633334	/	7.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	633000	633334	633668	10.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	632668	633334	634000	10.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	632000	633334	634668	10.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	631668	633334	635000	10.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	631334	633334	635334	10.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	631000	633334	635668	10.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	630668	633334	636000	10.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	8.49	8.71	8.80	10.00



N78(Class 3) Full power				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	16.53	/	18.00
		1	137	/	16.71	/	18.00
		1	271	/	16.40	/	18.00
		135	0	/	16.73	/	18.00
		135	69	/	17.39	/	18.00
		135	138	/	17.33	/	18.00
		270	0	/	16.44	/	18.00
	DFT-s-OFDM QPSK	1	1	/	16.56	/	18.00
		1	137	/	16.64	/	18.00
		1	271	/	16.61	/	18.00
		135	0	/	16.71	/	18.00
		135	69	/	16.68	/	18.00
		135	138	/	17.53	/	18.00
	DFT-s-OFDM 16QAM	1	1	/	16.38	/	18.00
	DFT-s-OFDM 64QAM	1	1	/	16.54	/	18.00
DFT-s-OFDM 256QAM	1	1	/	16.94	/	18.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	/	633334	/	15.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	633000	633334	633668	18.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	632668	633334	634000	18.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	632000	633334	634668	18.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	631668	633334	635000	18.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	631334	633334	635334	18.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	631000	633334	635668	18.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	630668	633334	636000	18.00



N78(Class 3) Sensor on				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	11.81	/	13.00
		1	137	/	12.00	/	13.00
		1	271	/	11.48	/	13.00
		135	0	/	12.01	/	13.00
		135	69	/	12.45	/	13.00
		135	138	/	12.44	/	13.00
		270	0	/	11.65	/	13.00
	DFT-s-OFDM QPSK	1	1	/	11.71	/	13.00
		1	137	/	11.78	/	13.00
		1	271	/	11.84	/	13.00
		135	0	/	11.87	/	13.00
		135	69	/	11.94	/	13.00
		135	138	/	12.70	/	13.00
	DFT-s-OFDM 16QAM	1	1	/	11.44	/	13.00
	DFT-s-OFDM 64QAM	1	1	/	11.77	/	13.00
DFT-s-OFDM 256QAM	1	1	/	12.18	/	13.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	/	633334	/	10.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	633000	633334	633668	13.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	632668	633334	634000	13.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	632000	633334	634668	13.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	631668	633334	635000	13.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	631334	633334	635334	13.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	631000	633334	635668	13.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	630668	633334	636000	13.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	11.49	11.71	11.80	13.00



N78(Class 2) Receiver on&Hotspot on				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	11.82	/	13.00
		1	137	/	12.13	/	13.00
		1	271	/	11.79	/	13.00
		135	0	/	12.05	/	13.00
		135	69	/	12.45	/	13.00
		135	138	/	12.61	/	13.00
		270	0	/	11.70	/	13.00
	DFT-s-OFDM QPSK	1	1	/	11.77	/	13.00
		1	137	/	12.01	/	13.00
		1	271	/	11.92	/	13.00
		135	0	/	11.88	/	13.00
		135	69	/	11.90	/	13.00
		135	138	/	12.76	/	13.00
	DFT-s-OFDM 16QAM	1	1	/	11.46	/	13.00
	DFT-s-OFDM 64QAM	1	1	/	11.75	/	13.00
DFT-s-OFDM 256QAM	1	1	/	12.31	/	13.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	/	633334	/	13.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	633000	633334	633668	13.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	632668	633334	634000	13.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	632000	633334	634668	13.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	631668	633334	635000	13.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	631334	633334	635334	13.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	631000	633334	635668	13.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	630668	633334	636000	13.00



N78(Class 2) Full power				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	19.58	/	21.00
		1	137	/	19.90	/	21.00
		1	271	/	19.48	/	21.00
		135	0	/	19.90	/	21.00
		135	69	/	20.09	/	21.00
		135	138	/	20.36	/	21.00
		270	0	/	19.43	/	21.00
	DFT-s-OFDM QPSK	1	1	/	19.49	/	21.00
		1	137	/	19.76	/	21.00
		1	271	/	19.73	/	21.00
		135	0	/	19.71	/	21.00
		135	69	/	19.77	/	21.00
		135	138	/	20.32	/	21.00
			270	0	/	20.11	/
	DFT-s-OFDM 16QAM	1	1	/	19.30	/	21.00
	DFT-s-OFDM 64QAM	1	1	/	19.46	/	21.00
	DFT-s-OFDM 256QAM	1	1	/	19.42	/	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	19.64	/	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				633000	633334	633668	
90MHz	DFT-s-OFDM QPSK	1	1	19.58	19.76	19.24	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	19.38	19.56	19.16	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	
60MHz	DFT-s-OFDM QPSK	1	1	19.67	19.69	19.18	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631668	633334	635000	
50MHz	DFT-s-OFDM QPSK	1	1	19.70	19.75	19.20	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	19.52	19.69	19.52	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631000	633334	635668	
30MHz	DFT-s-OFDM QPSK	1	1	19.55	19.80	19.14	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
20MHz	DFT-s-OFDM QPSK	1	1	19.36	19.62	19.36	21.00



N78(Class 2) Sensor on				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	14.82	/	16.00
		1	137	/	15.13	/	16.00
		1	271	/	14.79	/	16.00
		135	0	/	15.05	/	16.00
		135	69	/	15.45	/	16.00
		135	138	/	15.61	/	16.00
		270	0	/	14.70	/	16.00
	DFT-s-OFDM QPSK	1	1	/	14.77	/	16.00
		1	137	/	14.89	/	16.00
		1	271	/	14.92	/	16.00
		135	0	/	14.88	/	16.00
		135	69	/	14.90	/	16.00
		135	138	/	15.76	/	16.00
	DFT-s-OFDM 16QAM	1	1	/	14.46	/	16.00
	DFT-s-OFDM 64QAM	1	1	/	14.75	/	16.00
DFT-s-OFDM 256QAM	1	1	/	15.31	/	16.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	/	633334	/	16.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	633000	633334	633668	16.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	632668	633334	634000	16.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	632000	633334	634668	16.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	631668	633334	635000	16.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	631334	633334	635334	16.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	631000	633334	635668	16.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	630668	633334	636000	16.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	14.55	14.77	14.67	16.00

13 Conducted Power of UL and DL CA

(1) Uplink CA:

CA_7C:

Ant 2																
Combination	Modulation	PCC						SCC					Ful power		sensor on&Hotspot	
		Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	DL Channel	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	Tune-up(dBm)	Power	Tune-up(dBm)
CA_7C	QPSK	7	20	20850	1	99	2850	7	20	21048	1	0	23.68	25.50	18.89	20.00
CA_7C	QPSK	7	20	21100	1	99	3100	7	20	21298	1	0	23.55	25.50	18.74	20.00
CA_7C	QPSK	7	20	21100	1	0	3100	7	20	20902	1	99	23.61	25.50	18.88	20.00
CA_7C	QPSK	7	20	21350	1	0	3350	7	20	21152	1	99	23.74	25.50	18.80	20.00

Ant 4																		
Combination	Modulation	PCC						SCC					Ful power		Serson on		Receiver on&Hotspot	
		Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	DL Channel	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	Tune-up(dBm)	Power	Tune-up(dBm)	Power	Tune-up(dBm)
CA_7C	QPSK	7	20	20850	1	99	2850	7	20	21048	1	0	23.25	24.80	22.15	23.80	13.78	15.80
CA_7C	QPSK	7	20	21100	1	99	3100	7	20	21298	1	0	23.15	24.80	22.02	23.80	13.81	15.80
CA_7C	QPSK	7	20	21100	1	0	3100	7	20	20902	1	99	23.11	24.80	22.19	23.80	13.85	15.80
CA_7C	QPSK	7	20	21350	1	0	3350	7	20	21152	1	99	23.15	24.80	22.10	23.80	13.90	15.80

Ant 5																				
Combination	Modulation	PCC						SCC					Ful power		Serson on		Receiver on&Hotspot		Serson Off	
		Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	DL Channel	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	Tune-up(dBm)	Power	Tune-up(dBm)	Power	Tune-up(dBm)	Power	Tune-up(dBm)
CA_7C	QPSK	7	20	20850	1	99	2850	7	20	21048	1	0	23.01	25.20	17.10	19.20	12.15	14.20	21.18	23.20
CA_7C	QPSK	7	20	21100	1	99	3100	7	20	21298	1	0	23.21	25.20	17.15	19.20	12.30	14.20	21.10	23.20
CA_7C	QPSK	7	20	21100	1	0	3100	7	20	20902	1	99	23.15	25.20	17.20	19.20	12.25	14.20	21.21	23.20
CA_7C	QPSK	7	20	21350	1	0	3350	7	20	21152	1	99	23.50	25.20	17.21	19.20	12.35	14.20	21.19	23.20

Ant 8																		
Combination	Modulation	PCC						SCC					Ful power		Serson off		Receiver on&Hotspot	
		Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	DL Channel	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	Tune-up(dBm)	Power	Tune-up(dBm)	Power	Tune-up(dBm)
CA_7C	QPSK	7	20	20850	1	99	2850	7	20	21048	1	0	24.01	25.50	20.14	21.50	12.35	14.00
CA_7C	QPSK	7	20	21100	1	99	3100	7	20	21298	1	0	24.12	25.50	20.10	21.50	12.21	14.00
CA_7C	QPSK	7	20	21100	1	0	3100	7	20	20902	1	99	24.20	25.50	20.16	21.50	12.30	14.00
CA_7C	QPSK	7	20	21350	1	0	3350	7	20	21152	1	99	24.12	25.50	20.21	21.50	12.40	14.00



CA_38C:

Ant 2																		
Combination	Modulation	PCC						SCC					Full power		sensor on		Hotspot on	
		Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	DL Channel	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	Tune-up(dBm)	Power	Power	Tune-up(dBm)	Tune-up(dBm)
CA_38C	QPSK	38	20	37850	1	99	37850	38	20	38048	1	0	23.65	25.50	21.45	23.50	21.45	22.50
CA_38C	QPSK	38	20	37901	1	99	37901	38	20	38099	1	0	23.45	25.50	21.55	23.50	21.33	22.50
CA_38C	QPSK	38	20	38099	1	0	38099	38	20	37901	1	99	23.70	25.50	21.35	23.50	21.51	22.50
CA_38C	QPSK	38	20	38150	1	0	38150	38	20	37952	1	99	23.69	25.50	21.40	23.50	21.36	22.50

Ant 4																
Combination	Modulation	PCC						SCC					Full Power		Receiver on&Hotspot	
		Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	DL Channel	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	Tune-up(dBm)	Power	Power
CA_38C	QPSK	38	20	37850	1	99	37850	38	20	38048	1	0	23.05	24.80	18.05	19.80
CA_38C	QPSK	38	20	37901	1	99	37901	38	20	38099	1	0	23.10	24.80	18.19	19.80
CA_38C	QPSK	38	20	38099	1	0	38099	38	20	37901	1	99	23.05	24.80	18.05	19.80
CA_38C	QPSK	38	20	38150	1	0	38150	38	20	37952	1	99	23.15	24.80	18.10	19.80

Ant 5																		
Combination	Modulation	PCC						SCC					Full Power		Serson on		Receiver on&Hotspot	
		Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	DL Channel	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	Tune-up(dBm)	Power	Power	Tune-up(dBm)	Tune-up(dBm)
CA_38C	QPSK	38	20	37850	1	99	37850	38	20	38048	1	0	23.54	25.20	20.65	22.20	13.71	15.70
CA_38C	QPSK	38	20	37901	1	99	37901	38	20	38099	1	0	23.44	25.20	20.44	22.20	13.72	15.70
CA_38C	QPSK	38	20	38099	1	0	38099	38	20	37901	1	99	23.56	25.20	20.35	22.20	13.79	15.70
CA_38C	QPSK	38	20	38150	1	0	38150	38	20	37952	1	99	23.60	25.20	20.41	22.20	13.80	15.70

Ant 8																		
Combination	Modulation	PCC						SCC					Full Power		Serson off		Receiver on&Hotspot	
		Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	DL Channel	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	Tune-up(dBm)	Power	Power	Tune-up(dBm)	Tune-up(dBm)
CA_38C	QPSK	38	20	37850	1	99	37850	38	20	38048	1	0		25.50	23.04	24.50	15.35	17.00
CA_38C	QPSK	38	20	37901	1	99	37901	38	20	38099	1	0		25.50	23.06	24.50	15.40	17.00
CA_38C	QPSK	38	20	38099	1	0	38099	38	20	37901	1	99		25.50	23.07	24.50	15.36	17.00
CA_38C	QPSK	38	20	38150	1	0	38150	38	20	37952	1	99		25.50	23.02	24.50	15.45	17.00



CA_41C:

Ant 2														
Combination	Modulation	PCC						SCC					Full Power	
		Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	DL Channel	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	Tune-up(dBm)
CA_41C	QPSK	41	20	39750	1	99	39750	41	20	39948	1	0	23.52	24.00
CA_41C	QPSK	41	20	40185	1	99	40185	41	20	40383	1	0	23.70	24.00
CA_41C	QPSK	41	20	40620	1	99	40620	41	20	40818	1	0	23.62	24.00
CA_41C	QPSK	41	20	41055	1	99	41055	41	20	40857	1	0	23.56	24.00
CA_41C	QPSK	41	20	41490	1	99	41490	41	20	41292	1	0	23.41	24.00
CA_41C	QPSK	41	20	39750	1	0	39750	41	20	39948	1	99	23.60	24.00
CA_41C	QPSK	41	20	40185	1	0	40185	41	20	40383	1	99	23.41	24.00
CA_41C	QPSK	41	20	40620	1	0	40620	41	20	40818	1	99	23.35	24.00
CA_41C	QPSK	41	20	41055	1	0	41055	41	20	40857	1	99	23.41	24.00
CA_41C	QPSK	41	20	41490	1	0	41490	41	20	41292	1	99	23.55	24.00

Ant 4																
Combination	Modulation	PCC						SCC					Full Power		Serison on	
		Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	DL Channel	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	Tune-up(dBm)	Power	Tune-up(dBm)
CA_41C	QPSK	41	20	39750	1	99	39750	41	20	39948	1	0	23.05	23.30	19.10	19.30
CA_41C	QPSK	41	20	40185	1	99	40185	41	20	40383	1	0	23.09	23.30	19.05	19.30
CA_41C	QPSK	41	20	40620	1	99	40620	41	20	40818	1	0	23.19	23.30	19.21	19.30
CA_41C	QPSK	41	20	41055	1	99	41055	41	20	40857	1	0	22.98	23.30	19.18	19.30
CA_41C	QPSK	41	20	41490	1	99	41490	41	20	41292	1	0	23.11	23.30	19.20	19.30
CA_41C	QPSK	41	20	39750	1	0	39750	41	20	39948	1	99	23.05	23.30	19.08	19.30
CA_41C	QPSK	41	20	40185	1	0	40185	41	20	40383	1	99	23.14	23.30	19.06	19.30
CA_41C	QPSK	41	20	40620	1	0	40620	41	20	40818	1	99	23.16	23.30	19.21	19.30
CA_41C	QPSK	41	20	41055	1	0	41055	41	20	40857	1	99	22.99	23.30	19.23	19.30
CA_41C	QPSK	41	20	41490	1	0	41490	41	20	41292	1	99	23.04	23.30	19.14	19.30

Ant 5																		
Combination	Modulation	PCC						SCC					Full Power		Full Power		Full Power	
		Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	DL Channel	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	Tune-up(dBm)	Power	Tune-up(dBm)	Power	Tune-up(dBm)
CA_41C	QPSK	41	20	39750	1	99	39750	41	20	39948	1	0	22.12	23.70	21.84	22.70	16.36	16.70
CA_41C	QPSK	41	20	40185	1	99	40185	41	20	40383	1	0	22.25	23.70	21.86	22.70	16.35	16.70
CA_41C	QPSK	41	20	40620	1	99	40620	41	20	40818	1	0	22.16	23.70	21.75	22.70	16.54	16.70
CA_41C	QPSK	41	20	41055	1	99	41055	41	20	40857	1	0	22.17	23.70	21.91	22.70	16.36	16.70
CA_41C	QPSK	41	20	41490	1	99	41490	41	20	41292	1	0	22.35	23.70	21.56	22.70	16.55	16.70
CA_41C	QPSK	41	20	39750	1	0	39750	41	20	39948	1	99	22.16	23.70	21.45	22.70	16.21	16.70
CA_41C	QPSK	41	20	40185	1	0	40185	41	20	40383	1	99	22.20	23.70	21.65	22.70	16.15	16.70
CA_41C	QPSK	41	20	40620	1	0	40620	41	20	40818	1	99	22.18	23.70	21.55	22.70	16.24	16.70
CA_41C	QPSK	41	20	41055	1	0	41055	41	20	40857	1	99	22.10	23.70	21.86	22.70	16.21	16.70
CA_41C	QPSK	41	20	41490	1	0	41490	41	20	41292	1	99	22.16	23.70	21.84	22.70	16.21	16.70



Ant 8																
Combination	Modulation	PCC						SCC					Full Power		Receiver on&Hotspot	
		Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	DL Channel	Band	BW (MHz)	UL Channel	UL# RB	UL RB Offset	Power	Tune-up(dBm)	Power	Tune-up(dBm)
CA_41C	QPSK	41	20	39750	1	99	39750	41	20	39948	1	0	23.65	24.00	16.85	17.00
CA_41C	QPSK	41	20	40185	1	99	40185	41	20	40383	1	0	23.44	24.00	16.74	17.00
CA_41C	QPSK	41	20	40620	1	99	40620	41	20	40818	1	0	23.85	24.00	16.85	17.00
CA_41C	QPSK	41	20	41055	1	99	41055	41	20	40857	1	0	23.74	24.00	16.50	17.00
CA_41C	QPSK	41	20	41490	1	99	41490	41	20	41292	1	0	23.65	24.00	16.74	17.00
CA_41C	QPSK	41	20	39750	1	0	39750	41	20	39948	1	99	23.45	24.00	16.65	17.00
CA_41C	QPSK	41	20	40185	1	0	40185	41	20	40383	1	99	23.71	24.00	16.41	17.00
CA_41C	QPSK	41	20	40620	1	0	40620	41	20	40818	1	99	23.65	24.00	16.56	17.00
CA_41C	QPSK	41	20	41055	1	0	41055	41	20	40857	1	99	23.41	24.00	16.55	17.00
CA_41C	QPSK	41	20	41490	1	0	41490	41	20	41292	1	99	23.55	24.00	16.41	17.00

(2) Downlink CA:

1 Band / 2CC	2 Bands / 2CC	2 Bands / 3CC	2 Bands / 4CC	3 Bands / 3CC	3 Bands / 4CC
CA_2C					
	CA_2A-4A			CA_2A-4A-5A	
	CA_2A-5A			CA_2A-4A-5A	
	CA_2A-7A	CA_2A-7A-7A			
	CA_4A-5A			CA_2A-4A-5A	
	CA_4A-7A			CA_2A-4A-7A	
	CA_5A-7A			CA_5A-7A-66A	CA_5A-7A-66A-66A
	CA_5A-66A	CA_5A-66A-66A			CA_5A-7A-66A-66A
CA_7A-7A		CA_5A-7A-7A			
CA_7C		CA_4A-7C			CA_2A-4A-7C
		CA_2A-7C			CA_2A-4A-7C
	CA_7A-42A				
	CA_12A-66A	CA_12A-66A-66A			
CA_38C					
CA_41A-41A					
CA_41C					
CA_66A-66A		CA_5A-66A-66A			CA_5A-7A-66A-66A
	CA_7A-66A	CA_7A-66A-66A			CA_5A-7A-66A-66A
	CA_2A-66A				
CA_38A-38A					
		CA_5A-7C			CA_5A-7C-66A
		CA_7C-66A	CA_7C-66A-66A		



DL LTE CA Class	Full Power																						
	PCC								SCC1				SCC2				SCC3				Power(dBm)		
	LTE Band	Ant	BW (MHz)	Modulation	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL LTE CA Tx.Power	LTE Rel 8 Tx.Power	Tune-up
CA_2C	Band 2	2	20M	QPSK	1860	18700	1	0	Band 2	20M	1959.8	898	/	/	/	/	/	/	/	/	23.51	23.57	25.50
CA_38C	Band 38	2	20M	QPSK	2610	38150	1	0	Band 38	20M	2590.2	37952	/	/	/	/	/	/	/	/	23.55	23.61	25.50
CA_38C	Band 38	4	20M	QPSK	2610	38150	1	0	Band 38	20M	2590.2	37952	/	/	/	/	/	/	/	/	22.95	23.01	24.80
CA_38C	Band 38	5	20M	QPSK	2610	38150	1	0	Band 38	20M	2590.2	37952	/	/	/	/	/	/	/	/	23.35	23.41	25.20
CA_38C	Band 38	8	20M	QPSK	2580	37850	1	50	Band 38	20M	2599.8	38048	/	/	/	/	/	/	/	/	23.55	23.60	25.50
CA_41C	Band 41	2	20M	QPSK	2506	39750	1	0	Band 41	20M	2525.8	39948	/	/	/	/	/	/	/	/	23.37	23.44	24.00
CA_41C	Band 41	4	20M	QPSK	2506	39750	1	0	Band 41	20M	2525.8	39948	/	/	/	/	/	/	/	/	22.87	22.95	23.30
CA_41C	Band 41	5	20M	QPSK	2506	39750	1	0	Band 41	20M	2525.8	39948	/	/	/	/	/	/	/	/	23.01	23.05	23.70
CA_41C	Band 41	8	20M	QPSK	2506	39750	1	0	Band 41	20M	2525.8	39948	/	/	/	/	/	/	/	/	23.49	23.57	24.00
CA_38A-38A	Band 38	2	20M	QPSK	2610	38150	1	0	Band 38	20M	2580	37850	/	/	/	/	/	/	/	/	23.53	23.60	25.50
CA_38A-38A	Band 38	4	20M	QPSK	2610	38150	1	0	Band 38	20M	2580	37850	/	/	/	/	/	/	/	/	23.94	23.02	24.80
CA_38A-38A	Band 38	5	20M	QPSK	2610	38150	1	0	Band 38	20M	2580	37850	/	/	/	/	/	/	/	/	23.37	23.40	25.20
CA_38A-38A	Band 38	8	20M	QPSK	2580	37850	1	50	Band 38	20M	2610	38150	/	/	/	/	/	/	/	/	23.51	23.57	25.50
CA_41A-41A	Band 41	2	20M	QPSK	2506	39750	1	50	Band 41	20M	2680	41490	/	/	/	/	/	/	/	/	23.35	23.42	24.00
CA_41A-41A	Band 41	4	20M	QPSK	2506	39750	1	50	Band 41	20M	2680	41490	/	/	/	/	/	/	/	/	22.87	22.94	23.30
CA_41A-41A	Band 41	5	20M	QPSK	2506	39750	1	50	Band 41	20M	2680	41490	/	/	/	/	/	/	/	/	22.98	23.04	23.70
CA_41A-41A	Band 41	8	20M	QPSK	2506	39750	1	50	Band 41	20M	2680	41490	/	/	/	/	/	/	/	/	23.46	23.54	24.00
CA_2A-66A	Band 66	5	20M	QPSK	1720	132072	1	50	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	23.38	23.46	25.20
CA_2A-66A	Band 66	8	20M	QPSK	1720	132072	1	50	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	23.68	23.73	25.50
CA_7A-42A	Band 7	2	20M	QPSK	2560	21350	1	0	Band 42	20M	3500	42590	/	/	/	/	/	/	/	/	23.76	23.81	25.50
CA_7A-42A	Band 7	4	20M	QPSK	2560	21350	1	0	Band 42	20M	3500	42590	/	/	/	/	/	/	/	/	23.04	23.11	24.80
CA_7A-42A	Band 42	6	20M	QPSK	3540	42990	1	0	Band 7	20M	2680	3350	/	/	/	/	/	/	/	/	21.74	21.81	23.00
CA_7A-42A	Band 42	11	20M	QPSK	3540	42990	1	0	Band 7	20M	2680	3350	/	/	/	/	/	/	/	/	22.56	22.63	24.00
CA_2A-7A-7A	Band 2	2	20M	QPSK	1860	18700	1	0	Band 7	20M	2630	2850	Band 7	20M	2680	3350	/	/	/	/	23.52	23.58	25.50
CA_2A-7A-7A	Band 7	5	20M	QPSK	2560	21350	1	0	Band 7	20M	2680	3350	Band 2	20M	1960	900	/	/	/	/	23.24	23.30	25.20
CA_2A-7A-7A	Band 7	8	20M	QPSK	2560	21350	1	0	Band 7	20M	2680	3350	Band 2	20M	1960	900	/	/	/	/	23.54	23.61	25.50
CA_5A-7A-7A	Band 5	1	10M	QPSK	844	20600	1	0	Band 7	20M	2630	2850	Band 7	20M	2680	3350	/	/	/	/	23.76	23.80	25.50
CA_5A-7A-7A	Band 5	3	10M	QPSK	844	20600	1	0	Band 7	20M	2630	2850	Band 7	20M	2680	3350	/	/	/	/	23.11	23.15	25.00
CA_5A-7A-7A	Band 7	2	20M	QPSK	2560	21350	1	0	Band 7	20M	2680	3350	Band 5	10M	881.5	2525	/	/	/	/	23.77	23.80	25.50
CA_5A-7A-7A	Band 7	4	20M	QPSK	2560	21350	1	0	Band 7	20M	2680	3350	Band 5	10M	881.5	2525	/	/	/	/	23.03	23.12	24.80
CA_5A-7A-7A	Band 7	5	20M	QPSK	2560	21350	1	0	Band 7	20M	2680	3350	Band 5	10M	881.5	2525	/	/	/	/	23.24	23.29	25.20
CA_5A-7A-7A	Band 7	8	20M	QPSK	2560	21350	1	0	Band 7	20M	2680	3350	Band 5	10M	881.5	2525	/	/	/	/	23.55	23.61	25.50
CA_12A-66A-66A	Band 12	1	10M	QPSK	711	23130	1	0	Band 66	20M	2170	67036	Band 66	20M	2120	66536	/	/	/	/	23.85	23.91	25.50
CA_12A-66A-66A	Band 12	3	10M	QPSK	711	20600	1	0	Band 66	20M	2170	67036	Band 66	20M	2120	66536	/	/	/	/	23.24	23.30	25.00
CA_12A-66A-66A	Band 66	5	20M	QPSK	1720	132072	1	50	Band 66	20M	2170	67036	Band 12	10M	737.5	5095	/	/	/	/	23.38	23.47	25.20
CA_12A-66A-66A	Band 66	8	20M	QPSK	1720	132072	1	50	Band 66	20M	2170	67036	Band 12	10M	737.5	5095	/	/	/	/	23.66	23.72	25.50
CA_7C-66A-66A	Band 7	5	20M	QPSK	2560	21350	1	0	Band 7	20M	2660.5	3152	Band 66	20M	2170	67036	Band 66	20M	2120	66536	23.22	23.28	25.20
CA_7C-66A-66A	Band 7	8	20M	QPSK	2560	21350	1	0	Band 7	20M	2660.5	3152	Band 66	20M	2170	67036	Band 66	20M	2120	66536	23.53	23.60	25.50
CA_7C-66A-66A	Band 66	2	20M	QPSK	1720	132072	1	50	Band 66	20M	2170	67036	Band 7	20M	2630	2850	Band 7	20M	2649.8	3048	23.64	23.71	25.50
CA_7C-66A-66A	Band 66	4	20M	QPSK	1720	132072	1	50	Band 66	20M	2170	67036	Band 7	20M	2630	2850	Band 7	20M	2649.8	3048	22.97	23.06	24.80
CA_2A-4A-5A	Band 2	2	20M	QPSK	1860	18700	1	0	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	/	/	/	/	23.51	23.56	25.50
CA_2A-4A-5A	Band 4	5	20M	QPSK	1745	20300	1	99	Band 2	20M	1960	900	Band 5	10M	881.5	2525	/	/	/	/	23.26	23.32	25.20
CA_2A-4A-5A	Band 4	8	20M	QPSK	1745	20300	1	99	Band 2	20M	1960	900	Band 5	10M	881.5	2525	/	/	/	/	23.76	23.85	25.50
CA_2A-4A-5A	Band 5	1	10M	QPSK	844	20600	1	0	Band 4	20M	2132.5	2175	Band 2	20M	1960	900	/	/	/	/	23.75	23.80	25.50
CA_2A-4A-5A	Band 5	3	10M	QPSK	844	20600	1	0	Band 4	20M	2132.5	2175	Band 2	20M	1960	900	/	/	/	/	23.10	23.14	25.00
CA_2A-4A-7A	Band 2	2	20M	QPSK	1860	18700	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	/	/	/	/	23.51	23.53	25.50
CA_2A-4A-7A	Band 4	5	20M	QPSK	1745	20300	1	99	Band 7	20M	2680	3350	Band 2	20M	1960	900	/	/	/	/	23.24	23.31	25.20
CA_2A-4A-7A	Band 4	8	20M	QPSK	1745	20300	1	99	Band 7	20M	2680	3350	Band 2	20M	1960	900	/	/	/	/	23.75	23.84	25.50
CA_2A-4A-7A	Band 7	5	20M	QPSK	2560	21350	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	/	/	/	/	23.22	23.29	25.20



CA_5A-7A-7A	Band 7	2	20M	QPSK	2560	21350	1	0	Band 7	20M	2680	3350	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	
CA_5A-7A-7A	Band 7	4	20M	QPSK	2560	21350	1	0	Band 7	20M	2680	3350	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	
CA_5A-7A-7A	Band 7	5	20M	QPSK	2560	21350	1	0	Band 7	20M	2680	3350	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	
CA_5A-7A-7A	Band 7	8	20M	QPSK	2560	21350	1	0	Band 7	20M	2680	3350	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	
CA_12A-66A-66A	Band 12	1	10M	QPSK	711	23130	1	0	Band 66	20M	2170	67036	Band 66	20M	2120	66536	/	/	/	/	/	/	/	/	
CA_12A-66A-66A	Band 12	3	10M	QPSK	711	20600	1	0	Band 66	20M	2170	67036	Band 66	20M	2120	66536	/	/	/	/	/	/	/	/	
CA_12A-66A-66A	Band 66	5	20M	QPSK	1720	132072	1	50	Band 66	20M	2170	67036	Band 12	10M	737.5	5095	/	/	/	/	/	/	/	/	
CA_12A-66A-66A	Band 66	8	20M	QPSK	1720	132072	1	50	Band 66	20M	2170	67036	Band 12	10M	737.5	5095	/	/	/	/	/	/	/	/	
CA_7C-66A-66A	Band 7	5	20M	QPSK	2560	21350	1	0	Band 7	20M	2660.5	3152	Band 66	20M	2170	67036	Band 66	20M	2120	66536	/	/	/	/	
CA_7C-66A-66A	Band 7	8	20M	QPSK	2560	21350	1	0	Band 7	20M	2660.5	3152	Band 66	20M	2170	67036	Band 66	20M	2120	66536	/	/	/	/	
CA_7C-66A-66A	Band 66	2	20M	QPSK	1720	132072	1	50	Band 66	20M	2170	67036	Band 7	20M	2630	2850	Band 7	20M	2649.8	3048	/	/	/	/	
CA_7C-66A-66A	Band 66	4	20M	QPSK	1720	132072	1	50	Band 66	20M	2170	67036	Band 7	20M	2630	2850	Band 7	20M	2649.8	3048	/	/	/	/	
CA_2A-4A-5A	Band 2	2	20M	QPSK	1860	18700	1	0	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	
CA_2A-4A-5A	Band 4	5	20M	QPSK	1745	20300	1	99	Band 2	20M	1960	900	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	
CA_2A-4A-5A	Band 4	8	20M	QPSK	1745	20300	1	99	Band 2	20M	1960	900	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	
CA_2A-4A-5A	Band 5	1	10M	QPSK	844	20600	1	0	Band 4	20M	2132.5	2175	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	
CA_2A-4A-5A	Band 5	3	10M	QPSK	844	20600	1	0	Band 4	20M	2132.5	2175	Band 2	20M	1960	900	/	/	/	/	/	/	21.85	21.93	23.50
CA_2A-4A-7A	Band 2	2	20M	QPSK	1860	18700	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	
CA_2A-4A-7A	Band 4	5	20M	QPSK	1745	20300	1	99	Band 7	20M	2680	3350	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	
CA_2A-4A-7A	Band 4	8	20M	QPSK	1745	20300	1	99	Band 7	20M	2680	3350	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	
CA_2A-4A-7A	Band 7	5	20M	QPSK	2560	21350	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	
CA_2A-4A-7A	Band 7	8	20M	QPSK	2560	21350	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	
CA_5A-7A-66A-66A	Band 5	1	10M	QPSK	844	20600	1	0	Band 7	20M	2655	3100	Band 66	20M	2170	67036	Band 66	20M	2120	66536	/	/	/	/	
CA_5A-7A-66A-66A	Band 5	3	10M	QPSK	844	20600	1	0	Band 7	20M	2655	3100	Band 66	20M	2170	67036	Band 66	20M	2120	66536	21.85	21.93	23.50	/	
CA_5A-7A-66A-66A	Band 7	5	20M	QPSK	2560	21350	1	0	Band 66	20M	2170	67036	Band 66	20M	2120	66536	Band 5	10M	881.5	2525	/	/	/	/	
CA_5A-7A-66A-66A	Band 7	8	20M	QPSK	2560	21350	1	0	Band 66	20M	2170	67036	Band 66	20M	2120	66536	Band 5	10M	881.5	2525	/	/	/	/	
CA_5A-7A-66A-66A	Band 66	2	20M	QPSK	1720	132072	1	50	Band 66	20M	2170	67036	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	/	/	/	/	
CA_5A-7A-66A-66A	Band 66	4	20M	QPSK	1720	132072	1	50	Band 66	20M	2170	67036	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	/	/	/	/	
CA_5A-7C-66A	Band 5	1	10M	QPSK	844	20600	1	0	Band 7	20M	2630	2850	Band 7	20M	2649.8	3048	Band 66	20M	2145	66786	/	/	/	/	
CA_5A-7C-66A	Band 5	3	10M	QPSK	844	20600	1	0	Band 7	20M	2630	2850	Band 7	20M	2649.8	3048	Band 66	20M	2145	66786	21.85	21.93	23.50	/	
CA_5A-7C-66A	Band 7	2	20M	QPSK	2560	21350	1	0	Band 7	20M	2660.5	3152	Band 5	10M	881.5	2525	Band 66	20M	2145	66786	/	/	/	/	
CA_5A-7C-66A	Band 7	4	20M	QPSK	2560	21350	1	0	Band 7	20M	2660.5	3152	Band 5	10M	881.5	2525	Band 66	20M	2145	66786	/	/	/	/	
CA_5A-7C-66A	Band 66	5	20M	QPSK	1720	132072	1	50	Band 7	20M	2630	2850	Band 7	20M	2649.8	3048	Band 5	10M	881.5	2525	/	/	/	/	
CA_5A-7C-66A	Band 66	8	20M	QPSK	1720	132072	1	50	Band 7	20M	2630	2850	Band 7	20M	2649.8	3048	Band 5	10M	881.5	2525	/	/	/	/	
CA_2A-4A-7C	Band 2	2	20M	QPSK	1860	18700	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2630	2850	Band 7	20M	2649.8	3048	/	/	/	/	
CA_2A-4A-7C	Band 4	5	20M	QPSK	1745	20300	1	99	Band 2	20M	1960	900	Band 7	20M	2630	2850	Band 7	20M	2649.8	3048	/	/	/	/	
CA_2A-4A-7C	Band 4	8	20M	QPSK	1745	20300	1	99	Band 2	20M	1960	900	Band 7	20M	2630	2850	Band 7	20M	2649.8	3048	/	/	/	/	
CA_2A-4A-7C	Band 7	5	20M	QPSK	2560	21350	1	0	Band 7	20M	2660.5	3152	Band 4	20M	2132.5	2175	Band 2	20M	1960	900	/	/	/	/	
CA_2A-4A-7C	Band 7	8	20M	QPSK	2560	21350	1	0	Band 7	20M	2660.5	3152	Band 4	20M	2132.5	2175	Band 2	20M	1960	900	/	/	/	/	

Receiver on																							
DL LTE CA Class	PCC								SCC1				SCC2				SCC3				Power(dBm)		
	LTE Band	Ant	BW (MHz)	Modulation	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL LTE CA Tx.Power	LTE Rel 8 Tx.Power	Tune-up
CA_2C	Band 2	2	20M	QPSK	1860	18700	1	0	Band 2	20M	1959.8	898	/	/	/	/	/	/	/	/	/	/	
CA_38C	Band 38	2	20M	QPSK	2610	38150	1	0	Band 38	20M	2590.2	37952	/	/	/	/	/	/	/	/	/	/	
CA_38C	Band 38	4	20M	QPSK	2610	38150	1	0	Band 38	20M	2590.2	37952	/	/	/	/	/	/	/	/	17.85	17.95	19.80
CA_38C	Band 38	5	20M	QPSK	2610	38150	1	0	Band 38	20M	2590.2	37952	/	/	/	/	/	/	/	/	13.65	13.79	15.70
CA_38C	Band 38	8	20M	QPSK	2580	37850	1	50	Band 38	20M	2599.8	38048	/	/	/	/	/	/	/	/	15.41	15.46	17.00
CA_41C	Band 41	2	20M	QPSK	2506	39750	1	0	Band 41	20M	2525.8	39948	/	/	/	/	/	/	/	/	/	/	/
CA_41C	Band 41	4	20M	QPSK	2506	39750	1	0	Band 41	20M	2525.8	39948	/	/	/	/	/	/	/	/	19.05	19.09	19.30
CA_41C	Band 41	5	20M	QPSK	2506	39750	1	0	Band 41	20M	2525.8	39948	/	/	/	/	/	/	/	/	16.35	16.40	16.70
CA_41C	Band 41	8	20M	QPSK	2506	39750	1	0	Band 41	20M	2525.8	39948	/	/	/	/	/	/	/	/	16.72	16.76	17.00
CA_38A-38A	Band 38	2	20M	QPSK	2610	38150	1	0	Band 38	20M	2580	37850	/	/	/	/	/	/	/	/	/	/	/
CA_38A-38A	Band 38	4	20M	QPSK	2610	38150	1	0	Band 38	20M	2580	37850	/	/	/	/	/	/	/	/	17.85	17.95	19.80
CA_38A-38A	Band 38	5	20M	QPSK	2610	38150	1	0	Band 38	20M	2580	37850	/	/	/	/	/	/	/	/	13.65	13.79	15.70
CA_38A-38A	Band 38	8	20M	QPSK	2580	37850	1	50	Band 38	20M	2610	38150	/	/	/	/	/	/	/	/	15.35	15.46	17.00
CA_41A-41A	Band 41	2	20M	QPSK	2506	39750	1	50	Band 41	20M	2680	41490	/	/	/	/	/	/	/	/	/	/	/
CA_41A-41A	Band 41	4	20M	QPSK	2506	39750	1	50	Band 41	20M	2680	41490	/	/	/	/	/	/	/	/	19.05	19.19	19.30
CA_41A-41A	Band 41	5	20M	QPSK	2506	39750	1	50	Band 41	20M	2680	41490	/	/	/	/	/	/	/	/	16.35	16.46	16.70
CA_41A-41A	Band 41	8	20M	QPSK	2506	39750	1	50	Band 41	20M	2680	41490	/	/	/	/	/	/	/	/	16.74	16.87	17.00
CA_2A-66A	Band 66	5	20M	QPSK	1720	132072	1	50	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	15.31	15.35	17.20
CA_2A-66A	Band 66	8	20M	QPSK	1720	132072	1	50	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	14.86	14.91	16.50
CA_7A-42A	Band 7	2	20M	QPSK	2560	21350	1	0	Band 42	20M	3500	42590	/	/	/	/	/	/	/	/	/	/	/
CA_7A-42A	Band 7	4	20M	QPSK	2560	21350	1	0	Band 42	20M	3500	42590	/	/	/	/	/	/	/	/	13.75	13.87	15.80
CA_7A-42A	Band 42	6	20M	QPSK	3540	42990	1	0	Band 7	20M	2680	3350	/	/	/	/	/	/	/	/	18.86	18.91	20.00
CA_7A-42A	Band 42	11	20M	QPSK	3540	42990	1	0	Band 7	20M	2680	3350	/	/	/	/	/	/	/	/	21.89	21.96	23.00
CA_2A-7A-7A	Band 2	2	20M	QPSK	1860	18700	1	0	Band 7	20M	2630	2850	Band 7	20M	2680	3350	/	/	/	/	/	/	/
CA_2A-7A-7A	Band 7	5	20M	QPSK	2560	21350	1	0	Band 7	20M	2680	3350	Band 2	20M	1960	900	/	/	/	/	12.30	12.34	14.20
CA_2A-7A-7A	Band 7	8	20M	QPSK	2560	21350	1	0	Band 7	20M	2680	3350	Band 2	20M	1960	900	/	/	/	/	12.15	12.17	14.00
CA_5A-7A-7A	Band 5	1	10M	QPSK	844	20600	1	0	Band 7	20M	2630	2850	Band 7	20M	2680	3350	/	/	/	/	/	/	/
CA_5A-7A-7A	Band 5	3	10M	QPSK	844	20600	1	0	Band 7	20M	2630	2850	Band 7	20M	2680	3350	/	/	/	/	17.20	17.27	19.00
CA_5A-7A-7A	Band 7	2	20M	QPSK	2560	21350	1	0	Band 7	20M	2680	3350	Band 5	10M	881.5	2525	/	/	/	/	/	/	/
CA_5A-7A-7A	Band 7	4	20M	QPSK	2560	21350	1	0	Band 7	20M	2680	3350	Band 5	10M	881.5	2525	/	/	/	/	13.75	13.87	15.80
CA_5A-7A-7A	Band 7	5	20M	QPSK	2560	21350	1	0	Band 7	20M	2680	3350	Band 5	10M	881.5	2525	/	/	/	/	12.31	12.34	14.20
CA_5A-7A-7A	Band 7	8	20M	QPSK	2560	21350	1	0	Band 7	20M	2680	3350	Band 5	10M	881.5	2525	/	/	/	/	12.16	12.17	14.00
CA_12A-66A-66A	Band 12	1	10M	QPSK	711	23130	1	0	Band 66	20M	2170	67036	Band 66	20M	2120	66536	/	/	/	/	/	/	/
CA_12A-66A-66A	Band 12	3	10M	QPSK	711	20600	1	0	Band 66	20M	2170	67036	Band 66	20M	2120	66536	/	/	/	/	17.20	17.27	19.00
CA_12A-66A-66A	Band 66	5	20M	QPSK	1720	132072	1	50	Band 66	20M	2170	67036	Band 12	10M	737.5	5095	/	/	/	/	15.31	15.35	17.20
CA_12A-66A-66A	Band 66	8	20M	QPSK	1720	132072	1	50	Band 66	20M	2170	67036	Band 12	10M	737.5	5095	/	/	/	/	14.85	14.91	16.50
CA_7C-66A-66A	Band 7	5	20M	QPSK	2560	21350	1	0	Band 7	20M	2660.5	3152	Band 66	20M	2170	67036	Band 66	20M	2120	66536	21.30	12.34	14.20
CA_7C-66A-66A	Band 7	8	20M	QPSK	2560	21350	1	0	Band 7	20M	2660.5	3152	Band 66	20M	2170	67036	Band 66	20M	2120	66536	12.16	12.17	14.00
CA_7C-66A-66A	Band 66	2	20M	QPSK	1720	132072	1	50	Band 66	20M	2170	67036	Band 7	20M	2630	2850	Band 7	20M	2649.8	3048	/	/	/
CA_7C-66A-66A	Band 66	4	20M	QPSK	1720	132072	1	50	Band 66	20M	2170	67036	Band 7	20M	2630	2850	Band 7	20M	2649.8	3048	15.23	15.27	16.80
CA_2A-4A-5A	Band 2	2	20M	QPSK	1860	18700	1	0	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	/	/	/	/	/	/	/
CA_2A-4A-5A	Band 4	5	20M	QPSK	1745	20300	1	99	Band 2	20M	1960	900	Band 5	10M	881.5	2525	/	/	/	/	16.39	16.49	18.20



DL LTE CA Class	Sensor on																						
	PCC								SCC1				SCC2				SCC3				Power(dBm)		
	LTE Band	Ant	BW (MHz)	Modulation	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL LTE CA Tx.Power	LTE Rel 8 Tx.Power	Tune-up
CA_2C	Band 2	2	20M	QPSK	1860	18700	1	0	Band 2	20M	1959.8	898	/	/	/	/	/	/	/	/	21.45	21.55	22.50
CA_38C	Band 38	2	20M	QPSK	2610	38150	1	0	Band 38	20M	2590.2	37952	/	/	/	/	/	/	/	/	21.46	21.55	23.50
CA_38C	Band 38	4	20M	QPSK	2610	38150	1	0	Band 38	20M	2590.2	37952	/	/	/	/	/	/	/	/	/	/	/
CA_38C	Band 38	5	20M	QPSK	2610	38150	1	0	Band 38	20M	2590.2	37952	/	/	/	/	/	/	/	/	20.40	20.41	22.20
CA_38C	Band 38	8	20M	QPSK	2580	37850	1	50	Band 38	20M	2599.8	38048	/	/	/	/	/	/	/	/	/	/	/
CA_41C	Band 41	2	20M	QPSK	2506	39750	1	0	Band 41	20M	2525.8	39948	/	/	/	/	/	/	/	/	/	/	/
CA_41C	Band 41	4	20M	QPSK	2506	39750	1	0	Band 41	20M	2525.8	39948	/	/	/	/	/	/	/	/	/	/	/
CA_41C	Band 41	5	20M	QPSK	2506	39750	1	0	Band 41	20M	2525.8	39948	/	/	/	/	/	/	/	/	22.21	22.26	22.70
CA_41C	Band 41	8	20M	QPSK	2506	39750	1	0	Band 41	20M	2525.8	39948	/	/	/	/	/	/	/	/	/	/	/
CA_38A-38A	Band 38	2	20M	QPSK	2610	38150	1	0	Band 38	20M	2580	37850	/	/	/	/	/	/	/	/	21.35	21.55	23.50
CA_38A-38A	Band 38	4	20M	QPSK	2610	38150	1	0	Band 38	20M	2580	37850	/	/	/	/	/	/	/	/	/	/	/
CA_38A-38A	Band 38	5	20M	QPSK	2610	38150	1	0	Band 38	20M	2580	37850	/	/	/	/	/	/	/	/	20.36	20.41	22.20
CA_38A-38A	Band 38	8	20M	QPSK	2580	37850	1	50	Band 38	20M	2610	38150	/	/	/	/	/	/	/	/	/	/	/
CA_41A-41A	Band 41	2	20M	QPSK	2506	39750	1	50	Band 41	20M	2680	41490	/	/	/	/	/	/	/	/	/	/	/
CA_41A-41A	Band 41	4	20M	QPSK	2506	39750	1	50	Band 41	20M	2680	41490	/	/	/	/	/	/	/	/	/	/	/
CA_41A-41A	Band 41	5	20M	QPSK	2506	39750	1	50	Band 41	20M	2680	41490	/	/	/	/	/	/	/	/	22.23	22.31	22.70
CA_41A-41A	Band 41	8	20M	QPSK	2506	39750	1	50	Band 41	20M	2680	41490	/	/	/	/	/	/	/	/	/	/	/
CA_2A-66A	Band 66	5	20M	QPSK	1720	132072	1	50	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	21.00	21.02	22.70
CA_2A-66A	Band 66	8	20M	QPSK	1720	132072	1	50	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	/	/	/
CA_7A-42A	Band 7	2	20M	QPSK	2560	21350	1	0	Band 42	20M	3500	42590	/	/	/	/	/	/	/	/	18.45	18.54	20.00
CA_7A-42A	Band 7	4	20M	QPSK	2560	21350	1	0	Band 42	20M	3500	42590	/	/	/	/	/	/	/	/	22.00	22.02	23.80
CA_7A-42A	Band 42	6	20M	QPSK	3540	42990	1	0	Band 7	20M	2680	3350	/	/	/	/	/	/	/	/	18.86	18.91	20.00
CA_7A-42A	Band 42	11	20M	QPSK	3540	42990	1	0	Band 7	20M	2680	3350	/	/	/	/	/	/	/	/	18.65	18.77	20.00
CA_2A-7A-7A	Band 2	2	20M	QPSK	1860	18700	1	0	Band 7	20M	2630	2850	Band 7	20M	2680	3350	/	/	/	/	21.51	21.55	22.50
CA_2A-7A-7A	Band 7	5	20M	QPSK	2560	21350	1	0	Band 7	20M	2680	3350	Band 2	20M	1960	900	/	/	/	/	17.28	17.30	19.20
CA_2A-7A-7A	Band 7	8	20M	QPSK	2560	21350	1	0	Band 7	20M	2680	3350	Band 2	20M	1960	900	/	/	/	/	/	/	/
CA_5A-7A-7A	Band 5	1	10M	QPSK	844	20600	1	0	Band 7	20M	2630	2850	Band 7	20M	2680	3350	/	/	/	/	/	/	/
CA_5A-7A-7A	Band 5	3	10M	QPSK	844	20600	1	0	Band 7	20M	2630	2850	Band 7	20M	2680	3350	/	/	/	/	/	/	/
CA_5A-7A-7A	Band 7	2	20M	QPSK	2560	21350	1	0	Band 7	20M	2680	3350	Band 5	10M	881.5	2525	/	/	/	/	18.45	18.54	20.00
CA_5A-7A-7A	Band 7	4	20M	QPSK	2560	21350	1	0	Band 7	20M	2680	3350	Band 5	10M	881.5	2525	/	/	/	/	22.00	22.02	23.80
CA_5A-7A-7A	Band 7	5	20M	QPSK	2560	21350	1	0	Band 7	20M	2680	3350	Band 5	10M	881.5	2525	/	/	/	/	17.28	17.30	19.20
CA_5A-7A-7A	Band 7	8	20M	QPSK	2560	21350	1	0	Band 7	20M	2680	3350	Band 5	10M	881.5	2525	/	/	/	/	/	/	/
CA_12A-66A-66A	Band 12	1	10M	QPSK	711	23130	1	0	Band 66	20M	2170	67036	Band 66	20M	2120	66536	/	/	/	/	/	/	/
CA_12A-66A-66A	Band 12	3	10M	QPSK	711	20600	1	0	Band 66	20M	2170	67036	Band 66	20M	2120	66536	/	/	/	/	/	/	/
CA_12A-66A-66A	Band 66	5	20M	QPSK	1720	132072	1	50	Band 66	20M	2170	67036	Band 12	10M	737.5	5095	/	/	/	/	21.00	21.02	22.70
CA_12A-66A-66A	Band 66	8	20M	QPSK	1720	132072	1	50	Band 66	20M	2170	67036	Band 12	10M	737.5	5095	/	/	/	/	/	/	/
CA_7C-66A-66A	Band 7	5	20M	QPSK	2560	21350	1	0	Band 7	20M	2660.5	3152	Band 66	20M	2170	67036	Band 66	20M	2120	66536	17.24	17.30	19.20
CA_7C-66A-66A	Band 7	8	20M	QPSK	2560	21350	1	0	Band 7	20M	2660.5	3152	Band 66	20M	2170	67036	Band 66	20M	2120	66536	/	/	/
CA_7C-66A-66A	Band 66	2	20M	QPSK	1720	132072	1	50	Band 66	20M	2170	67036	Band 7	20M	2630	2850	Band 7	20M	2649.8	3048	21.65	21.73	23.50
CA_7C-66A-66A	Band 66	4	20M	QPSK	1720	132072	1	50	Band 66	20M	2170	67036	Band 7	20M	2630	2850	Band 7	20M	2649.8	3048	22.12	22.22	23.80
CA_2A-4A-5A	Band 2	2	20M	QPSK	1860	18700	1	0	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	/	/	/	/	21.35	21.55	22.50
CA_2A-4A-5A	Band 4	5	20M	QPSK	1745	20300	1	99	Band 2	20M	1960	900	Band 5	10M	881.5	2525	/	/	/	/	21.61	21.65	23.20
CA_2A-4A-5A	Band 4	8	20M	QPSK	1745	20300	1	99	Band 2	20M	1960	900	Band 5	10M	881.5	2525	/	/	/	/	/	/	/
CA_2A-4A-5A	Band 5	1	10M	QPSK	844	20600	1	0	Band 4	20M	2132.5	2175	Band 2	20M	1960	900	/	/	/	/	/	/	/
CA_2A-4A-5A	Band 5	3	10M	QPSK	844	20600	1	0	Band 4	20M	2132.5	2175	Band 2	20M	1960	900	/	/	/	/	/	/	/
CA_2A-4A-7A	Band 2	2	20M	QPSK	1860	18700	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	/	/	/	/	21.41	21.55	22.50
CA_2A-4A-7A	Band 4	5	20M	QPSK	1745	20300	1	99	Band 7	20M	2680	3350	Band 2	20M	1960	900	/	/	/	/	21.55	21.65	23.20
CA_2A-4A-7A	Band 4	8	20M	QPSK	1745	20300	1	99	Band 7	20M	2680	3350	Band 2	20M	1960	900	/	/	/	/	/	/	/
CA_2A-4A-7A	Band 7	5	20M	QPSK	2560	21350	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	/	/	/	/	17.30	17.30	19.20



CA_2A-4A-7A	Band 7	8	20M	QPSK	2560	21350	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/
CA_5A-7A-66A-66A	Band 5	1	10M	QPSK	844	20600	1	0	Band 7	20M	2655	3100	Band 66	20M	2170	67036	Band 66	20M	2120	66536	/	/	/
CA_5A-7A-66A-66A	Band 5	3	10M	QPSK	844	20600	1	0	Band 7	20M	2655	3100	Band 66	20M	2170	67036	Band 66	20M	2120	66536	/	/	/
CA_5A-7A-66A-66A	Band 7	5	20M	QPSK	2560	21350	1	0	Band 66	20M	2170	67036	Band 66	20M	2120	66536	Band 5	10M	881.5	2525	17.21	17.30	19.20
CA_5A-7A-66A-66A	Band 7	8	20M	QPSK	2560	21350	1	0	Band 66	20M	2170	67036	Band 66	20M	2120	66536	Band 5	10M	881.5	2525	/	/	/
CA_5A-7A-66A-66A	Band 66	2	20M	QPSK	1720	132072	1	50	Band 66	20M	2170	67036	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	21.71	21.73	23.50
CA_5A-7A-66A-66A	Band 66	4	20M	QPSK	1720	132072	1	50	Band 66	20M	2170	67036	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	22.12	22.22	23.80
CA_5A-7C-66A	Band 5	1	10M	QPSK	844	20600	1	0	Band 7	20M	2630	2850	Band 7	20M	2649.8	3048	Band 66	20M	2145	66786	/	/	/
CA_5A-7C-66A	Band 5	3	10M	QPSK	844	20600	1	0	Band 7	20M	2630	2850	Band 7	20M	2649.8	3048	Band 66	20M	2145	66786	/	/	/
CA_5A-7C-66A	Band 7	2	20M	QPSK	2560	21350	1	0	Band 7	20M	2660.5	3152	Band 5	10M	881.5	2525	Band 66	20M	2145	66786	18.35	18.54	20.00
CA_5A-7C-66A	Band 7	4	20M	QPSK	2560	21350	1	0	Band 7	20M	2660.5	3152	Band 5	10M	881.5	2525	Band 66	20M	2145	66786	21.98	22.02	23.80
CA_5A-7C-66A	Band 66	5	20M	QPSK	1720	132072	1	50	Band 7	20M	2630	2850	Band 7	20M	2649.8	3048	Band 5	10M	881.5	2525	21.01	21.02	22.70
CA_5A-7C-66A	Band 66	8	20M	QPSK	1720	132072	1	50	Band 7	20M	2630	2850	Band 7	20M	2649.8	3048	Band 5	10M	881.5	2525	/	/	/
CA_2A-4A-7C	Band 2	2	20M	QPSK	1860	18700	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2630	2850	Band 7	20M	2649.8	3048	21.51	21.55	22.50
CA_2A-4A-7C	Band 4	5	20M	QPSK	1745	20300	1	99	Band 2	20M	1960	900	Band 7	20M	2630	2850	Band 7	20M	2649.8	3048	21.55	21.65	23.20
CA_2A-4A-7C	Band 4	8	20M	QPSK	1745	20300	1	99	Band 2	20M	1960	900	Band 7	20M	2630	2850	Band 7	20M	2649.8	3048	/	/	/
CA_2A-4A-7C	Band 7	5	20M	QPSK	2560	21350	1	0	Band 7	20M	2660.5	3152	Band 4	20M	2132.5	2175	Band 2	20M	1960	900	17.29	17.30	19.20
CA_2A-4A-7C	Band 7	8	20M	QPSK	2560	21350	1	0	Band 7	20M	2660.5	3152	Band 4	20M	2132.5	2175	Band 2	20M	1960	900	/	/	/

DL LTE CA Class	Hotspot on																						
	PCC								SCC1				SCC2				SCC3				Power(dBm)		
	LTE Band	Ant	BW (MHz)	Modulation	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL LTE Tx.Power	LTE Rel 8 Tx.Power	Tune-up
CA_2C	Band 2	2	20M	QPSK	1860	18700	1	0	Band 2	20M	1959.8	898	/	/	/	/	/	/	/	/	19.54	19.60	20.50
CA_38C	Band 38	2	20M	QPSK	2610	38150	1	0	Band 38	20M	2590.2	37952	/	/	/	/	/	/	/	/	21.30	21.35	22.50
CA_38C	Band 38	4	20M	QPSK	2610	38150	1	0	Band 38	20M	2590.2	37952	/	/	/	/	/	/	/	/	17.85	17.95	19.80
CA_38C	Band 38	5	20M	QPSK	2610	38150	1	0	Band 38	20M	2590.2	37952	/	/	/	/	/	/	/	/	13.65	13.79	15.70
CA_38C	Band 38	8	20M	QPSK	2580	37850	1	50	Band 38	20M	2599.8	38048	/	/	/	/	/	/	/	/	15.41	15.46	17.00
CA_41C	Band 41	2	20M	QPSK	2506	39750	1	0	Band 41	20M	2525.8	39948	/	/	/	/	/	/	/	/	/	/	/
CA_41C	Band 41	4	20M	QPSK	2506	39750	1	0	Band 41	20M	2525.8	39948	/	/	/	/	/	/	/	/	19.05	19.09	19.30
CA_41C	Band 41	5	20M	QPSK	2506	39750	1	0	Band 41	20M	2525.8	39948	/	/	/	/	/	/	/	/	16.35	16.40	16.70
CA_41C	Band 41	8	20M	QPSK	2506	39750	1	0	Band 41	20M	2525.8	39948	/	/	/	/	/	/	/	/	16.72	16.76	17.00
CA_38A-38A	Band 38	2	20M	QPSK	2610	38150	1	0	Band 38	20M	2580	37850	/	/	/	/	/	/	/	/	21.25	21.35	22.50
CA_38A-38A	Band 38	4	20M	QPSK	2610	38150	1	0	Band 38	20M	2580	37850	/	/	/	/	/	/	/	/	17.85	17.95	19.80
CA_38A-38A	Band 38	5	20M	QPSK	2610	38150	1	0	Band 38	20M	2580	37850	/	/	/	/	/	/	/	/	13.65	13.79	15.70
CA_38A-38A	Band 38	8	20M	QPSK	2580	37850	1	50	Band 38	20M	2610	38150	/	/	/	/	/	/	/	/	15.35	15.46	17.00
CA_41A-41A	Band 41	2	20M	QPSK	2506	39750	1	50	Band 41	20M	2680	41490	/	/	/	/	/	/	/	/	/	/	/
CA_41A-41A	Band 41	4	20M	QPSK	2506	39750	1	50	Band 41	20M	2680	41490	/	/	/	/	/	/	/	/	19.05	19.19	19.30
CA_41A-41A	Band 41	5	20M	QPSK	2506	39750	1	50	Band 41	20M	2680	41490	/	/	/	/	/	/	/	/	16.35	16.46	16.70
CA_41A-41A	Band 41	8	20M	QPSK	2506	39750	1	50	Band 41	20M	2680	41490	/	/	/	/	/	/	/	/	16.74	16.87	17.00
CA_2A-66A	Band 66	5	20M	QPSK	1720	132072	1	50	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	15.31	15.35	17.20
CA_2A-66A	Band 66	8	20M	QPSK	1720	132072	1	50	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	14.86	14.91	16.50
CA_7A-42A	Band 7	2	20M	QPSK	2560	21350	1	0	Band 42	20M	3500	42590	/	/	/	/	/	/	/	/	18.44	18.54	20.00
CA_7A-42A	Band 7	4	20M	QPSK	2560	21350	1	0	Band 42	20M	3500	42590	/	/	/	/	/	/	/	/	13.75	13.87	15.80
CA_7A-42A	Band 42	6	20M	QPSK	3540	42990	1	0	Band 7	20M	2680	3350	/	/	/	/	/	/	/	/	18.86	18.91	20.00
CA_7A-42A	Band 42	11	20M	QPSK	3540	42990	1	0	Band 7	20M	2680	3350	/	/	/	/	/	/	/	/	18.65	18.77	20.00
CA_2A-7A-7A	Band 2	2	20M	QPSK	1860	18700	1	0	Band 7	20M	2630	2850	Band 7	20M	2680	3350	/	/	/	/	19.55	19.60	20.50
CA_2A-7A-7A	Band 7	5	20M	QPSK	2560	21350	1	0	Band 7	20M	2680	3350	Band 2	20M	1960	900	/	/	/	/	12.30	12.34	14.20
CA_2A-7A-7A	Band 7	8	20M	QPSK	2560	21350	1	0	Band 7	20M	2680	3350	Band 2	20M	1960	900	/	/	/	/	12.15	12.17	14.00
CA_5A-7A-7A	Band 5	1	10M	QPSK	844	20600	1	0	Band 7	20M	2630	2850	Band 7	20M	2680	3350	/	/	/	/	22.20	22.21	23.50
CA_5A-7A-7A	Band 5	3	10M	QPSK	844	20600	1	0	Band 7	20M	2630	2850	Band 7	20M	2680	3350	/	/	/	/	/	/	/
CA_5A-7A-7A	Band 7	2	20M	QPSK	2560	21350	1	0	Band 7	20M	2680	3350	Band 5	10M	881.5	2525	/	/	/	/	18.44	18.54	20.00
CA_5A-7A-7A	Band 7	4	20M	QPSK	2560	21350	1	0	Band 7	20M	2680	3350	Band 5	10M	881.5	2525	/	/	/	/	13.76	13.87	15.80
CA_5A-7A-7A	Band 7	5	20M	QPSK	2560	21350	1	0	Band 7	20M	2680	3350	Band 5	10M	881.5	2525	/	/	/	/	12.31	12.34	14.20



CA_5A-7A-7A	Band 7	8	20M	QPSK	2560	21350	1	0	Band 7	20M	2680	3350	Band 5	10M	881.5	2525	/	/	/	/	12.16	12.17	14.00
CA_12A-66A-66A	Band 12	1	10M	QPSK	711	23130	1	0	Band 66	20M	2170	67036	Band 66	20M	2120	66536	/	/	/	/	22.20	22.21	23.50
CA_12A-66A-66A	Band 12	3	10M	QPSK	711	20600	1	0	Band 66	20M	2170	67036	Band 66	20M	2120	66536	/	/	/	/	/	/	/
CA_12A-66A-66A	Band 66	5	20M	QPSK	1720	132072	1	50	Band 66	20M	2170	67036	Band 12	10M	737.5	5095	/	/	/	/	15.31	15.35	17.20
CA_12A-66A-66A	Band 66	8	20M	QPSK	1720	132072	1	50	Band 66	20M	2170	67036	Band 12	10M	737.5	5095	/	/	/	/	14.85	14.91	16.50
CA_7C-66A-66A	Band 7	5	20M	QPSK	2560	21350	1	0	Band 7	20M	2660.5	3152	Band 66	20M	2170	67036	Band 66	20M	2120	66536	21.30	12.34	14.20
CA_7C-66A-66A	Band 7	8	20M	QPSK	2560	21350	1	0	Band 7	20M	2660.5	3152	Band 66	20M	2170	67036	Band 66	20M	2120	66536	12.16	12.17	14.00
CA_7C-66A-66A	Band 66	2	20M	QPSK	1720	132072	1	50	Band 66	20M	2170	67036	Band 7	20M	2630	2850	Band 7	20M	2649.8	3048	19.85	19.98	21.50
CA_7C-66A-66A	Band 66	4	20M	QPSK	1720	132072	1	50	Band 66	20M	2170	67036	Band 7	20M	2630	2850	Band 7	20M	2649.8	3048	15.23	15.27	16.80
CA_2A-4A-5A	Band 2	2	20M	QPSK	1860	18700	1	0	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	/	/	/	/	19.56	19.60	20.50
CA_2A-4A-5A	Band 4	5	20M	QPSK	1745	20300	1	99	Band 2	20M	1960	900	Band 5	10M	881.5	2525	/	/	/	/	16.39	16.49	18.20
CA_2A-4A-5A	Band 4	8	20M	QPSK	1745	20300	1	99	Band 2	20M	1960	900	Band 5	10M	881.5	2525	/	/	/	/	16.80	16.81	18.50
CA_2A-4A-5A	Band 5	1	10M	QPSK	844	20600	1	0	Band 4	20M	2132.5	2175	Band 2	20M	1960	900	/	/	/	/	22.19	22.21	23.50
CA_2A-4A-5A	Band 5	3	10M	QPSK	844	20600	1	0	Band 4	20M	2132.5	2175	Band 2	20M	1960	900	/	/	/	/	/	/	/
CA_2A-4A-7A	Band 2	2	20M	QPSK	1860	18700	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	/	/	/	/	19.55	19.60	20.50
CA_2A-4A-7A	Band 4	5	20M	QPSK	1745	20300	1	99	Band 7	20M	2680	3350	Band 2	20M	1960	900	/	/	/	/	16.39	16.49	18.20
CA_2A-4A-7A	Band 4	8	20M	QPSK	1745	20300	1	99	Band 7	20M	2680	3350	Band 2	20M	1960	900	/	/	/	/	16.79	16.81	18.50
CA_2A-4A-7A	Band 7	5	20M	QPSK	2560	21350	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	/	/	/	/	12.29	12.34	14.20
CA_2A-4A-7A	Band 7	8	20M	QPSK	2560	21350	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	/	/	/	/	12.09	12.17	14.00
CA_5A-7A-66A-66A	Band 5	1	10M	QPSK	844	20600	1	0	Band 7	20M	2655	3100	Band 66	20M	2170	67036	Band 66	20M	2120	66536	22.06	22.21	23.50
CA_5A-7A-66A-66A	Band 5	3	10M	QPSK	844	20600	1	0	Band 7	20M	2655	3100	Band 66	20M	2170	67036	Band 66	20M	2120	66536	/	/	/
CA_5A-7A-66A-66A	Band 7	5	20M	QPSK	2560	21350	1	0	Band 66	20M	2170	67036	Band 66	20M	2120	66536	Band 5	10M	881.5	2525	12.30	12.34	14.20
CA_5A-7A-66A-66A	Band 7	8	20M	QPSK	2560	21350	1	0	Band 66	20M	2170	67036	Band 66	20M	2120	66536	Band 5	10M	881.5	2525	12.01	12.17	14.00
CA_5A-7A-66A-66A	Band 66	2	20M	QPSK	1720	132072	1	50	Band 66	20M	2170	67036	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	21.89	19.98	21.50
CA_5A-7A-66A-66A	Band 66	4	20M	QPSK	1720	132072	1	50	Band 66	20M	2170	67036	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	15.24	15.27	16.80
CA_5A-7C-66A	Band 5	1	10M	QPSK	844	20600	1	0	Band 7	20M	2630	2850	Band 7	20M	2649.8	3048	Band 66	20M	2145	66786	22.16	22.21	23.50
CA_5A-7C-66A	Band 5	3	10M	QPSK	844	20600	1	0	Band 7	20M	2630	2850	Band 7	20M	2649.8	3048	Band 66	20M	2145	66786	/	/	/
CA_5A-7C-66A	Band 7	2	20M	QPSK	2560	21350	1	0	Band 7	20M	2660.5	3152	Band 5	10M	881.5	2525	Band 66	20M	2145	66786	18.35	18.54	20.00
CA_5A-7C-66A	Band 7	4	20M	QPSK	2560	21350	1	0	Band 7	20M	2660.5	3152	Band 5	10M	881.5	2525	Band 66	20M	2145	66786	13.85	13.87	15.80
CA_5A-7C-66A	Band 66	5	20M	QPSK	1720	132072	1	50	Band 7	20M	2630	2850	Band 7	20M	2649.8	3048	Band 5	10M	881.5	2525	15.21	15.35	17.20
CA_5A-7C-66A	Band 66	8	20M	QPSK	1720	132072	1	50	Band 7	20M	2630	2850	Band 7	20M	2649.8	3048	Band 5	10M	881.5	2525	14.86	14.91	16.50
CA_2A-4A-7C	Band 2	2	20M	QPSK	1860	18700	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2630	2850	Band 7	20M	2649.8	3048	19.58	19.60	20.50
CA_2A-4A-7C	Band 4	5	20M	QPSK	1745	20300	1	99	Band 2	20M	1960	900	Band 7	20M	2630	2850	Band 7	20M	2649.8	3048	16.39	16.49	18.20
CA_2A-4A-7C	Band 4	8	20M	QPSK	1745	20300	1	99	Band 2	20M	1960	900	Band 7	20M	2630	2850	Band 7	20M	2649.8	3048	16.79	16.81	18.50
CA_2A-4A-7C	Band 7	5	20M	QPSK	2560	21350	1	0	Band 7	20M	2660.5	3152	Band 4	20M	2132.5	2175	Band 2	20M	1960	900	12.24	12.34	14.20
CA_2A-4A-7C	Band 7	8	20M	QPSK	2560	21350	1	0	Band 7	20M	2660.5	3152	Band 4	20M	2132.5	2175	Band 2	20M	1960	900	12.13	12.17	14.00

Full power															
DL LTE CA Class	PCC								SCC1				Power(dBm)		
	LTE Band	Ant	BW (MHz)	Modulation	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL LTE CA Tx.Power	LTE Rel 8 Tx.Power	Tune-up
CA_40A-41A	Band 41	4	20M	QPSK	2680	41490	1	50	Band 40	20M	2350	39150	23.26	23.15	23.30
CA_40A-41A	Band 41	5	20M	QPSK	2680	41490	1	99	Band 40	20M	2350	39150	23.60	23.49	23.70
Receiver on&Hotspot on															
DL LTE CA Class	PCC								SCC1				Power(dBm)		
	LTE Band	Ant	BW (MHz)	Modulation	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL LTE CA Tx.Power	LTE Rel 8 Tx.Power	Tune-up
CA_40A-41A	Band 41	4	20M	QPSK	2680	41490	1	50	Band 40	20M	2350	39150	19.23	19.14	19.30
CA_40A-41A	Band 41	5	20M	QPSK	2680	41490	1	99	Band 40	20M	2350	39150	16.65	16.62	16.70
Sensor on															
DL LTE CA Class	PCC								SCC1				Power(dBm)		
	LTE Band	Ant	BW (MHz)	Modulation	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL LTE CA Tx.Power	LTE Rel 8 Tx.Power	Tune-up
CA_40A-41A	Band 41	5	20M	QPSK	2680	41490	1	99	Band 40	20M	2350	39150	22.61	22.49	22.70

14 Conducted Power of Wi-Fi and BT

Full power:

Ant7					
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11b	1	2412	1	16.11	17.50
	6	2437		16.12	17.50
	11	2462		16.10	17.50
802.11g	1	2412	6	14.02	15.50
	6	2437		13.86	15.50
	11	2462		13.98	15.50
802.11n HT20	1	2412	6.5	14.00	15.50
	6	2437		13.73	15.50
	11	2462		13.85	15.50
802.11n HT40	3	2422	13.5	10.48	11.50
	6	2437		9.83	11.50
	11	2462		10.05	11.50
802.11ax HT20	1	2412	MCS0	14.01	15.50
	6	2437		14.11	15.50
	11	2462		14.26	15.50
802.11ax HT40	3	2422	MCS0	13.86	15.00
	6	2437		13.42	15.00
	11	2462		13.54	15.00

Ant9					
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11b	1	2412	1	16.11	17.50
	6	2437		16.48	17.50
	11	2462		16.20	17.50
802.11g	1	2412	6	14.01	15.50
	6	2437		14.57	15.50
	11	2462		14.10	15.50
802.11n HT20	1	2412	6.5	13.78	15.50
	6	2437		14.36	15.50
	11	2462		13.98	15.50
802.11n HT40	3	2422	13.5	10.32	11.50
	6	2437		10.58	11.50
	11	2462		10.41	11.50
802.11ax HT20	1	2412	MCS0	14.16	15.50
	6	2437		14.55	15.50
	11	2462		14.30	15.50
802.11ax HT40	3	2422	MCS0	13.86	15.00
	6	2437		13.99	15.00
	11	2462		13.76	15.00



Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Ant7	Ant9	MIMO	Tune up
				Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	
802.11b	1	2412	1	16.18	16.35	19.28	20.50
	6	2437		16.53	16.40	19.48	20.50
	11	2462		16.23	16.15	19.20	20.50
802.11g	1	2412	6	13.98	14.14	17.07	18.50
	6	2437		13.81	14.59	17.23	18.50
	11	2462		13.99	14.00	17.01	18.50
802.11n HT20	1	2412	6.5	14.19	13.96	17.09	18.50
	6	2437		13.86	14.55	17.23	18.50
	11	2462		13.79	14.11	16.96	18.50
802.11n HT40	3	2422	13.5	10.44	10.23	13.35	14.50
	6	2437		10.01	10.49	13.27	14.50
	11	2462		9.98	10.60	13.31	14.50
802.11ax HT20	1	2412	MCS0	14.06	14.15	17.12	18.50
	6	2437		14.18	14.64	17.43	18.50
	11	2462		14.16	14.22	17.20	18.50
802.11ax HT40	3	2422	MCS0	13.88	13.96	16.93	18.00
	6	2437		13.37	14.01	16.71	18.00
	11	2462		13.65	13.77	16.72	18.00

Ant7						
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11a	U-NII-1	36	5180	6	17.02	18.00
		40	5200		17.10	18.00
		44	5220		17.12	18.00
		48	5240		17.21	18.00
	U-NII-2A	52	5260		16.60	17.50
		56	5280		16.63	17.50
		60	5300		16.64	17.50
		64	5320		16.71	17.50
		100	5500		16.45	17.50
		104	5520		16.56	17.50
	U-NII-2C	108	5540		16.48	17.50
		112	5560		16.55	17.50
		116	5580		16.78	17.50
		120	5600		16.61	17.50
		124	5620		16.63	17.50
		128	5640		16.66	17.50
		132	5660		16.83	17.50
		136	5680		16.94	17.50
		140	5700		17.00	17.50
		144	5720		16.88	17.50
U-NII-3	149	5745	18.66	19.50		
	153	5765	18.68	19.50		
	157	5785	18.73	19.50		
	161	5805	18.87	19.50		
	165	5825	18.68	19.50		
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11n-HT20	U-NII-1	36	5180	MCS0	16.71	18.00
		40	5200		16.81	18.00
		44	5220		16.85	18.00
		48	5240		16.96	18.00



	U-NII-2A	52	5260		16.80	18.00
		56	5280		16.86	18.00
		60	5300		16.90	18.00
		64	5320		16.97	18.00
	U-NII-2C	100	5500		16.38	17.50
		104	5520		16.29	17.50
		108	5540		16.32	17.50
		112	5560		16.39	17.50
		116	5580		16.51	17.50
		120	5600		16.59	17.50
		124	5620		16.48	17.50
		128	5640		16.44	17.50
		132	5660		16.68	17.50
		136	5680		16.78	17.50
	U-NII-3	140	5700		16.75	17.50
		144	5720		16.78	17.50
		149	5745		18.44	19.50
		153	5765		18.52	19.50
		157	5785		18.56	19.50
			161		5805	18.52
		165	5825	18.50	19.50	
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11n-HT40	U-NII-1	38	5190	MCS0	14.41	15.50
		46	5230		14.60	15.50
	U-NII-2A	54	5270		15.00	16.00
		62	5310		15.03	16.00
	U-NII-2C	102	5510		15.83	17.00
		110	5550		15.88	17.00
		118	5590		16.01	17.00
		126	5630		16.03	17.00
		134	5670		16.21	17.00
	U-NII-3	142	5710		16.30	17.00
		151	5755		18.06	19.00
		159	5795		18.10	19.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11ac-20	U-NII-1	36	5180	MCS0	16.68	18.00
		40	5200		16.73	18.00
		44	5220		16.80	18.00
		48	5240		16.92	18.00
	U-NII-2A	52	5260		16.72	18.00
		56	5280		16.77	18.00
		60	5300		16.82	18.00
		64	5320		16.91	18.00
	U-NII-2C	100	5500		16.16	17.50
		104	5520		16.20	17.50
		108	5540		16.39	17.50
		112	5560		16.29	17.50
		116	5580		16.38	17.50
		120	5600		16.40	17.50
		124	5620		16.44	17.50
		128	5640		16.38	17.50
		132	5660		16.58	17.50
		136	5680		16.60	17.50
		140	5700	16.57	17.50	



		144	5720		16.61	17.50
	U-NII-3	149	5745		18.60	19.50
		153	5765		18.42	19.50
		157	5785		18.51	19.50
		161	5805		18.48	19.50
		165	5825		18.49	19.50
5GHz		mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)
802.11ac-40	U-NII-1	38	5190	MCS0	17.73	19.00
		46	5230		17.89	19.00
	U-NII-2A	54	5270		17.86	19.00
		62	5310		18.15	19.00
	U-NII-2C	102	5510		15.71	17.00
		110	5550		15.83	17.00
		118	5590		16.01	17.00
		126	5630		16.08	17.00
		134	5670		16.15	17.00
		142	5710		16.13	17.00
	U-NII-3	151	5755		18.20	19.00
		159	5795		18.26	19.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11ac 80M	U-NII-1	42	5210	MCS0	15.88	17.50
	U-NII-2A	58	5290		15.95	17.50
	U-NII-2C	106	5530		11.04	12.50
		122	5610		11.35	12.50
		138	5690		11.59	12.50
	U-NII-3	155	5775		17.61	19.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11ax-20	U-NII-1	36	5180	MCS0	16.98	18.00
		40	5200		17.05	18.00
		44	5220		17.11	18.00
		48	5240		17.22	18.00
	U-NII-2A	52	5260		16.99	18.00
		56	5280		17.02	18.00
		60	5300		17.25	18.00
		64	5320		17.15	18.00
	U-NII-2C	100	5500		15.43	16.50
		104	5520		15.48	16.50
		108	5540		15.55	16.50
		112	5560		15.61	16.50
		116	5580		15.74	16.50
		120	5600		15.70	16.50
		124	5620		15.73	16.50
		128	5640		15.83	16.50
		132	5660		15.90	16.50
		136	5680		15.88	16.50
	U-NII-3	140	5700		16.06	16.50
		144	5720		15.92	16.50
		149	5745		18.96	19.50
		153	5765		18.83	19.50
		157	5785		18.85	19.50
		161	5805		19.00	19.50
165	5825	18.98	19.50			
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11ax-40	U-NII-1	38	5190	MCS0	13.55	14.50



5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11ax 80M	U-NII-2A	46	5230	MCS0	13.91	14.50
		54	5270		15.12	16.00
		62	5310		15.38	16.00
	U-NII-2C	102	5510		11.61	12.50
		110	5550		11.68	12.50
		118	5590		11.80	12.50
		126	5630		11.84	12.50
		134	5670		12.01	12.50
	U-NII-3	142	5710		12.09	12.50
		151	5755		18.36	19.00
		159	5795	18.40	19.00	

Ant9						
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11a	U-NII-1	36	5180	6	17.02	18.00
		40	5200		17.29	18.00
		44	5220		17.42	18.00
		48	5240		17.56	18.00
	U-NII-2A	52	5260		17.00	17.50
		56	5280		17.02	17.50
		60	5300		17.09	17.50
		64	5320		17.14	17.50
		U-NII-2C	100		5500	16.46
	104		5520		16.71	17.50
	108		5540		16.62	17.50
	112		5560		16.66	17.50
	116		5580		16.58	17.50
	120		5600		16.70	17.50
	124		5620		16.57	17.50
	128		5640		16.55	17.50
	132		5660		16.69	17.50
	136		5680		16.71	17.50
	U-NII-3	140	5700		16.90	17.50
		144	5720		16.85	17.50
		149	5745		18.44	19.50
		153	5765		18.45	19.50
		157	5785		18.55	19.50
		161	5805		18.66	19.50
			165		5825	18.62

5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11n-HT20	U-NII-1	36	5180	MCS0	16.75	18.00
		40	5200		16.93	18.00
		44	5220		17.12	18.00
		48	5240		17.34	18.00
	U-NII-2A	52	5260		17.51	18.00
		56	5280		17.26	18.00
		60	5300	17.49	18.00	

		64	5320		17.38	18.00
	U-NII-2C	100	5500		16.31	17.50
		104	5520		16.48	17.50
		108	5540		16.55	17.50
		112	5560		16.40	17.50
		116	5580		16.38	17.50
		120	5600		16.50	17.50
		124	5620		16.47	17.50
		128	5640		16.40	17.50
		132	5660		16.38	17.50
		136	5680		16.62	17.50
		140	5700		16.45	17.50
		144	5720		16.56	17.50
		U-NII-3	149	5745		18.28
	153		5765		18.27	19.50
	157		5785		18.34	19.50
	161		5805		18.24	19.50
	165		5825		18.41	19.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11n-HT40	U-NII-1	38	5190	MCS0	14.64	15.50
		46	5230		15.01	15.50
	U-NII-2A	54	5270		15.62	16.00
		62	5310		15.71	16.00
	U-NII-2C	102	5510		16.05	17.00
		110	5550		16.15	17.00
		118	5590		16.08	17.00
		126	5630		16.26	17.00
		134	5670		16.24	17.00
	U-NII-3	142	5710		16.17	17.00
		151	5755		18.08	19.00
159		5795	18.14	19.00		
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11ac-20	U-NII-1	36	5180	MCS0	16.87	18.00
		40	5200		17.01	18.00
		44	5220		17.15	18.00
		48	5240		17.33	18.00
	U-NII-2A	52	5260		17.22	18.00
		56	5280		17.30	18.00
		60	5300		17.38	18.00
		64	5320		17.42	18.00
	U-NII-2C	100	5500		16.30	17.50
		104	5520		16.38	17.50
		108	5540		16.61	17.50
		112	5560		16.42	17.50
		116	5580		16.35	17.50
		120	5600		16.38	17.50
		124	5620		16.38	17.50
		128	5640		16.41	17.50
		132	5660		16.43	17.50
		136	5680		16.46	17.50
	U-NII-3	140	5700		16.48	17.50
		144	5720		16.52	17.50
149		5745	18.72	19.50		
153		5765	18.45	19.50		



5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up		
802.11ac-40	U-NII-1	157	5785	MCS0	18.56	19.50		
		161	5805		18.57	19.50		
	U-NII-2A	165	5825		18.61	19.50		
		38	5190		18.00	19.00		
	U-NII-2C	46	5230		18.43	19.00		
		54	5270		18.36	19.00		
		62	5310		18.65	19.00		
		102	5510		16.07	17.00		
		110	5550		16.16	17.00		
		118	5590		16.08	17.00		
	U-NII-3	126	5630		16.02	17.00		
		134	5670		16.17	17.00		
		142	5710		16.30	17.00		
		151	5755		18.29	19.00		
			159		5795	18.34	19.00	
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up		
802.11ac 80M	U-NII-1	42	5210	MCS0	16.42	17.50		
		58	5290		16.66	17.50		
	U-NII-2C	106	5530		11.58	12.50		
		122	5610		11.61	12.50		
	U-NII-3	138	5690		11.65	12.50		
		155	5775		17.68	19.00		
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up		
802.11ax-20	U-NII-1	36	5180	MCS0	17.35	18.00		
		40	5200		17.48	18.00		
		44	5220		17.62	18.00		
		48	5240		17.78	18.00		
	U-NII-2A	52	5260		17.53	18.00		
		56	5280		17.58	18.00		
		60	5300		17.66	18.00		
		64	5320		17.73	18.00		
	U-NII-2C	100	5500		15.83	16.50		
		104	5520		15.81	16.50		
		108	5540		15.91	16.50		
		112	5560		15.95	16.50		
		116	5580		16.03	16.50		
		120	5600		15.98	16.50		
		124	5620		16.05	16.50		
		128	5640		15.90	16.50		
		132	5660		15.86	16.50		
		136	5680		15.93	16.50		
	U-NII-3	140	5700		15.96	16.50		
		144	5720		16.10	16.50		
		149	5745		18.99	19.50		
		153	5765		19.09	19.50		
		157	5785		19.02	19.50		
		161	5805		19.11	19.50		
			165		5825	19.13	19.50	
	5GHz	mode	Channel		Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
	802.11ax-40	U-NII-1	38		5190	MCS0	13.98	14.50
46			5230	14.28	14.50			
U-NII-2A		54	5270	15.78	16.00			
		62	5310	15.83	16.00			

		102	5510		11.92	12.50
		110	5550		12.00	12.50
		118	5590		12.06	12.50
		126	5630		12.03	12.50
		134	5670		12.05	12.50
		142	5710		12.02	12.50
	U-NII-3	151	5755		18.39	19.00
		159	5795		18.47	19.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11ax 80M	U-NII-1	42	5210	MCS0	10.86	11.50
	U-NII-2A	58	5290		12.16	12.50
	U-NII-2C	106	5530		11.72	12.50
		122	5610		11.82	12.50
		138	5690		11.85	12.50
	U-NII-3	155	5775		18.07	19.00

5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Ant7	Ant9	MIMO	Tune up
					Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	
802.11a	U-NII-1	36	5180	6	17.08	17.01	20.06	21.00
		40	5200		17.29	17.50	20.41	21.00
		44	5220		17.55	17.49	20.53	21.00
		48	5240		17.40	17.61	20.52	21.00
	U-NII-2A	52	5260		16.78	17.11	19.96	20.50
		56	5280		16.76	17.17	19.98	20.50
		60	5300		16.90	17.34	20.14	20.50
	U-NII-2C	64	5320		16.83	17.25	20.06	20.50
		100	5500		16.66	16.62	19.65	20.50
		104	5520		16.75	16.75	19.76	20.50
		108	5540		16.76	16.70	19.74	20.50
		112	5560		16.80	16.81	19.82	20.50
		116	5580		16.81	16.66	19.75	20.50
		120	5600		16.78	16.80	19.80	20.50
		124	5620		16.90	16.80	19.86	20.50
		128	5640		16.89	16.76	19.84	20.50
		132	5660		17.05	16.94	20.01	20.50
	U-NII-3	136	5680		17.22	16.94	20.09	20.50
		140	5700		17.12	17.10	20.12	20.50
		144	5720		17.02	16.65	19.85	20.50
149		5745	18.87	18.70	21.80	22.50		
153		5765	18.92	18.54	21.74	22.50		
		157	5785	18.89	18.63	21.77	22.50	
		161	5805	18.98	18.84	21.92	22.50	
		165	5825	18.80	18.89	21.86	22.50	
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up
802.11n- HT20	U-NII-1	36	5180	MCS0	16.89	16.82	19.87	21.00
		40	5200		16.86	17.11	20.00	21.00
		44	5220		17.08	17.16	20.13	21.00
		48	5240		17.15	17.49	20.33	21.00
	U-NII-2A	52	5260		17.10	17.56	20.35	21.00
		56	5280		16.93	17.32	20.14	21.00
		60	5300	17.00	17.52	20.28	21.00	

		64	5320		17.05	17.43	20.25	21.00		
		100	5500		16.65	16.57	19.62	20.50		
		104	5520		16.50	16.61	19.57	20.50		
		108	5540		16.55	16.74	19.66	20.50		
		112	5560		16.65	16.62	19.65	20.50		
		116	5580		16.75	16.47	19.62	20.50		
		120	5600		16.64	16.69	19.68	20.50		
		124	5620		16.69	16.56	19.64	20.50		
		128	5640		16.56	16.61	19.60	20.50		
		132	5660		16.72	16.64	19.69	20.50		
		136	5680		16.88	16.87	19.89	20.50		
		140	5700		16.98	16.69	19.85	20.50		
		144	5720		16.85	16.61	19.74	20.50		
		149	5745		18.51	18.44	21.49	22.50		
		153	5765		18.56	18.42	21.50	22.50		
		157	5785		18.82	18.37	21.61	22.50		
		161	5805		18.75	18.48	21.63	22.50		
		165	5825		18.65	18.53	21.60	22.50		
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up		
802.11n-HT40	U-NII-1	38	5190	MCS0	14.57	14.74	17.67	18.50		
		46	5230		14.86	15.23	18.06	18.50		
	U-NII-2A	54	5270		15.20	15.90	18.57	19.00		
		62	5310		15.30	15.98	18.66	19.00		
	U-NII-2C	102	5510		16.09	16.12	19.12	20.00		
		110	5550		16.04	16.26	19.16	20.00		
		118	5590		16.09	16.24	19.18	20.00		
		126	5630		16.29	16.29	19.30	20.00		
		134	5670		16.45	16.34	19.41	20.00		
		142	5710		16.53	16.22	19.39	20.00		
	U-NII-3	151	5755		18.25	18.26	21.27	22.00		
		159	5795		18.39	18.23	21.32	22.00		
	5GHz	mode	Channel		Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up
	802.11ac-20	U-NII-1	36		5180	MCS0	16.82	16.85	19.85	21.00
40			5200	16.92	17.04		19.99	21.00		
44			5220	17.00	17.18		20.10	21.00		
48			5240	17.09	17.44		20.28	21.00		
U-NII-2A		52	5260	16.80	17.49		20.17	21.00		
		56	5280	17.03	17.51		20.29	21.00		
		60	5300	17.07	17.48		20.29	21.00		
		64	5320	16.96	17.69		20.35	21.00		
U-NII-2C		100	5500	16.31	16.41		19.37	20.50		
		104	5520	16.43	16.46		19.46	20.50		
		108	5540	16.55	16.89		19.73	20.50		
		112	5560	16.54	16.66		19.61	20.50		
		116	5580	16.66	16.44		19.56	20.50		
		120	5600	16.63	16.60		19.63	20.50		
		124	5620	16.58	16.47		19.54	20.50		
		128	5640	16.48	16.64		19.57	20.50		
		132	5660	16.61	16.51		19.57	20.50		
		136	5680	16.68	16.69		19.70	20.50		
140	5700	16.70	16.64	19.68	20.50					
144	5720	16.67	16.54	19.62	20.50					

		149	5745		18.67	18.99	21.84	22.50		
		153	5765		18.45	18.53	21.50	22.50		
		157	5785		18.54	18.69	21.63	22.50		
		161	5805		18.52	18.82	21.68	22.50		
		165	5825		18.73	18.79	21.77	22.50		
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up		
802.11ac-40	U-NII-1	38	5190	MCS0	18.01	18.06	21.05	22.00		
		46	5230		17.96	18.45	21.22	22.00		
	U-NII-2A	54	5270		17.91	18.41	21.18	22.00		
		62	5310		17.90	18.57	21.26	22.00		
	U-NII-2C	102	5510		15.74	16.28	19.03	20.00		
		110	5550		15.88	16.43	19.17	20.00		
		118	5590		16.25	16.35	19.31	20.00		
		126	5630		16.23	16.12	19.19	20.00		
		134	5670		16.24	16.33	19.30	20.00		
		142	5710		16.39	16.33	19.37	20.00		
	U-NII-3	151	5755		18.32	18.46	21.40	22.00		
		159	5795		18.42	18.38	21.41	22.00		
	5GHz	mode	Channel		Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up
	802.11ac 80M	U-NII-1	42		5210	MCS0	16.04	16.61	19.34	20.50
58			5290	16.02	16.88		19.48	20.50		
U-NII-2C		106	5530	11.32	11.68		14.51	15.50		
		122	5610	11.63	11.73		14.69	15.50		
U-NII-3		138	5690	11.87	11.71		14.80	15.50		
		155	5775	17.84	17.75		20.81	22.00		
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up		
802.11ax-20	U-NII-1	36	5180	MCS0	17.12	17.42	20.28	21.00		
		40	5200		17.18	17.53	20.37	21.00		
		44	5220		17.27	17.70	20.50	21.00		
		48	5240		17.44	17.85	20.66	21.00		
	U-NII-2A	52	5260		17.25	17.78	20.53	21.00		
		56	5280		17.06	17.70	20.40	21.00		
		60	5300		17.37	17.77	20.58	21.00		
	U-NII-2C	64	5320		17.21	17.80	20.53	21.00		
		100	5500		15.52	16.05	18.80	19.50		
		104	5520		15.73	15.97	18.86	19.50		
		108	5540		15.63	16.05	18.86	19.50		
		112	5560		15.77	16.13	18.96	19.50		
		116	5580		15.82	16.28	19.07	19.50		
		120	5600		15.92	16.23	19.09	19.50		
		124	5620		15.93	16.25	19.10	19.50		
		128	5640		15.93	16.05	19.00	19.50		
		132	5660		15.96	15.90	18.94	19.50		
		136	5680		16.02	16.11	19.08	19.50		
		140	5700		16.13	16.00	19.08	19.50		
		144	5720		16.08	16.28	19.19	19.50		
	U-NII-3	149	5745		19.07	19.08	22.09	22.50		
		153	5765		18.88	19.16	22.03	22.50		



		157	5785		19.00	19.29	22.16	22.50		
		161	5805		19.05	19.22	22.15	22.50		
		165	5825		19.07	19.27	22.18	22.50		
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up		
802.11ax-40	U-NII-1	38	5190	MCS0	13.80	14.25	17.04	17.50		
		46	5230		14.18	14.47	17.34	17.50		
	U-NII-2A	54	5270		15.25	15.82	18.55	19.00		
		62	5310		15.60	15.86	18.74	19.00		
	U-NII-2C	102	5510		11.71	12.01	14.87	15.50		
		110	5550		11.76	12.16	14.97	15.50		
		118	5590		12.02	12.12	15.08	15.50		
		126	5630		12.12	12.14	15.14	15.50		
		134	5670		12.06	12.33	15.21	15.50		
		142	5710		12.26	12.24	15.26	15.50		
	U-NII-3	151	5755		18.57	18.66	21.63	22.00		
		159	5795		18.55	18.74	21.66	22.00		
	5GHz	mode	Channel		Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up
	802.11ax 80M	U-NII-1	42		5210	MCS0	10.52	11.13	13.85	14.50
U-NII-2A		58	5290	11.72	12.25		15.00	15.50		
		106	5530	11.58	11.82		14.71	15.50		
U-NII-2C		122	5610	11.69	12.05		14.88	15.50		
		138	5690	11.92	11.92		14.93	15.50		
U-NII-3		155	5775	18.13	18.19		21.17	22.00		

Reduce power:

Ant7					
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11b	1	2412	1	14.09	15.50
	6	2437		14.12	15.50
	11	2462		14.08	15.50
802.11g	1	2412	6	14.02	15.50
	6	2437		13.86	15.50
	11	2462		13.98	15.50
802.11n HT20	1	2412	6.5	14.00	15.50
	6	2437		13.73	15.50
	11	2462		13.85	15.50
802.11n HT40	3	2422	13.5	10.48	11.50
	6	2437		9.83	11.50
	11	2462		10.05	11.50
802.11ax HT20	1	2412	MCS0	14.01	15.50
	6	2437		14.11	15.50
	11	2462		14.26	15.50
802.11ax HT40	3	2422	MCS0	13.86	15.00
	6	2437		13.42	15.00
	11	2462		13.54	15.00

Ant9					
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11b	1	2412	1	14.06	15.50
	6	2437		14.46	15.50
	11	2462		14.17	15.50
802.11g	1	2412	6	14.01	15.50
	6	2437		14.57	15.50
	11	2462		14.10	15.50
802.11n HT20	1	2412	6.5	13.78	15.50
	6	2437		14.36	15.50
	11	2462		13.98	15.50
802.11n HT40	3	2422	13.5	10.32	11.50
	6	2437		10.58	11.50
	11	2462		10.41	11.50
802.11ax HT20	1	2412	MCS0	14.16	15.50
	6	2437		14.55	15.50
	11	2462		14.30	15.50
802.11ax HT40	3	2422	MCS0	13.86	15.00
	6	2437		13.99	15.00
	11	2462		13.76	15.00



Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Ant7	Ant9	MIMO	Tune up
				Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	
802.11b	1	2412	1	14.15	14.31	17.24	18.50
	6	2437		14.49	14.39	17.45	18.50
	11	2462		14.19	14.15	17.18	18.50
802.11g	1	2412	6	13.98	14.14	17.07	16.50
	6	2437		13.81	14.59	17.23	16.50
	11	2462		13.99	14.00	17.01	16.50
802.11n HT20	1	2412	6.5	14.19	13.96	17.09	16.50
	6	2437		13.86	14.55	17.23	16.50
	11	2462		13.79	14.11	16.96	16.50
802.11n HT40	3	2422	13.5	10.44	10.23	13.35	12.50
	6	2437		10.01	10.49	13.27	12.50
	11	2462		9.98	10.60	13.31	12.50
802.11ax HT20	1	2412	MCS0	14.06	14.15	17.12	16.50
	6	2437		14.18	14.64	17.43	16.50
	11	2462		14.16	14.22	17.20	16.50
802.11ax HT40	3	2422	MCS0	13.88	13.96	16.93	16.00
	6	2437		13.37	14.01	16.71	16.00
	11	2462		13.65	13.77	16.72	16.00

Ant7						
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11a	U-NII-1	36	5180	6	11.50	12.50
		40	5200		11.56	12.50
		44	5220		11.62	12.50
		48	5240		11.68	12.50
	U-NII-2A	52	5260		11.57	12.50
		56	5280		11.59	12.50
		60	5300		11.62	12.50
		64	5320		11.68	12.50
	U-NII-2C	100	5500		11.45	12.50
		104	5520		11.52	12.50
		108	5540		11.46	12.50
		112	5560		11.51	12.50
		116	5580		11.76	12.50
		120	5600		11.61	12.50
		124	5620		11.60	12.50
		128	5640		11.64	12.50
		132	5660		11.83	12.50
		136	5680		11.93	12.50
	U-NII-3	140	5700		11.98	12.50
		144	5720		11.87	12.50
149		5745	11.80	12.50		
153		5765	11.67	12.50		
157		5785	11.69	12.50		
		161	5805	11.84	12.50	
		165	5825	11.65	12.50	
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11n-HT20	U-NII-1	36	5180	MCS0	11.16	12.50
		40	5200		11.30	12.50
		44	5220		11.30	12.50



	U-NII-2A	48	5240		11.45	12.50
		52	5260		11.28	12.50
		56	5280		11.34	12.50
		60	5300		11.37	12.50
		64	5320		11.45	12.50
	U-NII-2C	100	5500		11.33	12.50
		104	5520		11.27	12.50
		108	5540		11.27	12.50
		112	5560		11.35	12.50
		116	5580		11.47	12.50
		120	5600		11.55	12.50
		124	5620		11.44	12.50
		128	5640		11.41	12.50
		132	5660		11.65	12.50
		136	5680		11.73	12.50
	U-NII-3	140	5700		11.72	12.50
		144	5720		11.78	12.50
		149	5745		11.42	12.50
		153	5765		11.52	12.50
		157	5785		11.55	12.50
		161	5805	11.48	12.50	
		165	5825	11.47	12.50	
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11n-HT40	U-NII-1	38	5190	MCS0	10.89	12.00
		46	5230		11.05	12.00
	U-NII-2A	54	5270		10.98	12.00
		62	5310		10.98	12.00
	U-NII-2C	102	5510		10.83	12.00
		110	5550		10.87	12.00
		118	5590		11.01	12.00
		126	5630		11.00	12.00
		134	5670		11.19	12.00
	U-NII-3	142	5710		11.26	12.00
		151	5755		11.06	12.00
		159	5795		11.09	12.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11ac-20	U-NII-1	36	5180	MCS0	11.17	12.50
		40	5200		11.20	12.50
		44	5220		11.27	12.50
		48	5240		11.39	12.50
	U-NII-2A	52	5260		11.18	12.50
		56	5280		11.26	12.50
		60	5300		11.32	12.50
		64	5320		11.40	12.50
	U-NII-2C	100	5500		11.14	12.50
		104	5520		11.15	12.50
		108	5540		11.34	12.50
		112	5560		11.29	12.50
		116	5580		11.33	12.50
		120	5600		11.38	12.50
		124	5620		11.42	12.50
		128	5640		11.38	12.50
		132	5660	11.53	12.50	
		136	5680	11.56	12.50	



		140	5700		11.53	12.50
		144	5720		11.58	12.50
	U-NII-3	149	5745		11.56	12.50
		153	5765		11.41	12.50
		157	5785		11.49	12.50
		161	5805		11.44	12.50
		165	5825		11.44	12.50
5GHz		mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)
802.11ac-40	U-NII-1	38	5190	MCS0	10.72	12.00
		46	5230		10.88	12.00
	U-NII-2A	54	5270		10.82	12.00
		62	5310		10.99	12.00
	U-NII-2C	102	5510		10.68	12.00
		110	5550		10.80	12.00
		118	5590		11.01	12.00
		126	5630		11.05	12.00
		134	5670		11.14	12.00
		142	5710		11.13	12.00
	U-NII-3	151	5755		11.20	12.00
		159	5795		11.21	12.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11ac 80M	U-NII-1	42	5210	MCS0	10.37	12.00
	U-NII-2A	58	5290		10.41	12.00
	U-NII-2C	106	5530		10.51	12.00
		122	5610		10.82	12.00
		138	5690		11.06	12.00
	U-NII-3	155	5775		10.59	12.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11ax-20	U-NII-1	36	5180	MCS0	11.47	12.50
		40	5200		11.51	12.50
		44	5220		11.57	12.50
		48	5240		11.50	12.50
	U-NII-2A	52	5260		11.45	12.50
		56	5280		11.48	12.50
		60	5300		11.60	12.50
		64	5320		11.65	12.50
	U-NII-2C	100	5500		11.41	12.50
		104	5520		11.43	12.50
		108	5540		11.51	12.50
		112	5560		11.56	12.50
		116	5580		11.72	12.50
		120	5600		11.68	12.50
		124	5620		11.71	12.50
		128	5640		11.83	12.50
		132	5660		11.89	12.50
		136	5680		11.88	12.50
		140	5700		11.78	12.50
		144	5720		11.90	12.50
	U-NII-3	149	5745		11.78	12.50
		153	5765		11.81	12.50
		157	5785		11.81	12.50
		161	5805		11.80	12.50
		165	5825		11.74	12.50
		5GHz	mode		Channel	Frequency(MHz)



802.11ax-40	U-NII-1	38	5190	MCS0	11.01	12.00
		46	5230		11.38	12.00
	U-NII-2A	54	5270		11.10	12.00
		62	5310		11.36	12.00
	U-NII-2C	102	5510		10.56	12.00
		110	5550		10.66	12.00
		118	5590		10.76	12.00
		126	5630		10.83	12.00
		134	5670		10.96	12.00
	U-NII-3	142	5710		11.04	12.00
151		5755	11.35	12.00		
		159	5795	11.35	12.00	
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11ax 80M	U-NII-1	42	5210	MCS0	10.34	11.50
	U-NII-2A	58	5290		11.05	12.00
	U-NII-2C	106	5530		10.90	12.00
		122	5610		11.05	12.00
	138	5690	11.31		12.00	
	U-NII-3	155	5775		10.99	12.00

Ant9						
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11a	U-NII-1	36	5180	6	11.47	12.50
		40	5200		11.73	12.50
		44	5220		11.83	12.50
		48	5240		11.98	12.50
	U-NII-2A	52	5260		12.01	12.50
		56	5280		12.02	12.50
		60	5300		12.06	12.50
		64	5320		12.12	12.50
	U-NII-2C	100	5500		11.41	12.50
		104	5520		11.68	12.50
		108	5540		11.61	12.50
		112	5560		11.63	12.50
		116	5580		11.58	12.50
		120	5600		11.65	12.50
		124	5620		11.52	12.50
		128	5640		11.53	12.50
		132	5660		11.66	12.50
		136	5680		11.66	12.50
	140	5700	11.87		12.50	
	144	5720	11.80		12.50	
	U-NII-3	149	5745		11.44	12.50
		153	5765		11.43	12.50
		157	5785		11.50	12.50
		161	5805		11.66	12.50
165		5825	11.60	12.50		
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11n-HT20	U-NII-1	36	5180	MCS0	11.19	12.50
		40	5200		11.33	12.50
		44	5220		11.53	12.50
		48	5240		11.76	12.50
	U-NII-2A	52	5260		11.94	12.50
	56	5280	11.69		12.50	



		60	5300		11.92	12.50
		64	5320		11.82	12.50
	U-NII-2C	100	5500		11.26	12.50
		104	5520		11.46	12.50
		108	5540		11.53	12.50
		112	5560		11.40	12.50
		116	5580		11.35	12.50
		120	5600		11.49	12.50
		124	5620		11.46	12.50
		128	5640		11.38	12.50
		132	5660		11.33	12.50
		136	5680		11.60	12.50
		140	5700		11.43	12.50
		144	5720		11.56	12.50
	U-NII-3	149	5745		11.25	12.50
		153	5765		11.22	12.50
		157	5785		11.34	12.50
		161	5805		11.24	12.50
		165	5825		11.40	12.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11n-HT40	U-NII-1	38	5190	MCS0	11.14	12.00
		46	5230		11.50	12.00
	U-NII-2A	54	5270		11.58	12.00
		62	5310		11.69	12.00
	U-NII-2C	102	5510		11.00	12.00
		110	5550		11.15	12.00
		118	5590		11.05	12.00
		126	5630		11.22	12.00
		134	5670		11.22	12.00
	U-NII-3	142	5710		11.17	12.00
		151	5755		11.07	12.00
		159	5795		11.13	12.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11ac-20	U-NII-1	36	5180	MCS0	11.30	12.50
		40	5200		11.41	12.50
		44	5220		11.60	12.50
		48	5240		11.76	12.50
	U-NII-2A	52	5260		11.63	12.50
		56	5280		11.70	12.50
		60	5300		11.82	12.50
		64	5320		11.82	12.50
	U-NII-2C	100	5500		11.29	12.50
		104	5520		11.35	12.50
		108	5540		11.59	12.50
		112	5560		11.37	12.50
		116	5580		11.30	12.50
		120	5600		11.36	12.50
		124	5620		11.36	12.50
		128	5640		11.38	12.50
		132	5660		11.42	12.50
		136	5680		11.42	12.50
	U-NII-3	140	5700		11.47	12.50
		144	5720		11.47	12.50
		149	5745	11.67	12.50	



		153	5765		11.42	12.50
		157	5785		11.54	12.50
		161	5805		11.55	12.50
		165	5825		11.61	12.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11ac-40	U-NII-1	38	5190	MCS0	10.98	12.00
		46	5230		11.41	12.00
	U-NII-2A	54	5270		11.35	12.00
		62	5310		11.37	12.00
	U-NII-2C	102	5510		11.02	12.00
		110	5550		11.12	12.00
		118	5590		11.03	12.00
		126	5630		10.97	12.00
		134	5670		11.12	12.00
	U-NII-3	142	5710		11.28	12.00
		151	5755		11.29	12.00
		159	5795		11.33	12.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11ac 80M	U-NII-1	42	5210	MCS0	10.92	12.50
	U-NII-2A	58	5290		11.14	12.50
	U-NII-2C	106	5530		10.58	12.50
		122	5610		10.58	12.50
		138	5690		10.61	12.50
	U-NII-3	155	5775		10.64	12.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11ax-20	U-NII-1	36	5180	MCS0	11.80	12.50
		40	5200		11.88	12.50
		44	5220		12.04	12.50
		48	5240		12.19	12.50
	U-NII-2A	52	5260		11.95	12.50
		56	5280		12.03	12.50
		60	5300		12.08	12.50
		64	5320		12.10	12.50
	U-NII-2C	100	5500		11.82	12.50
		104	5520		11.77	12.50
		108	5540		11.81	12.50
		112	5560		11.50	12.50
		116	5580		11.78	12.50
		120	5600		11.77	12.50
		124	5620		11.78	12.50
		128	5640		11.86	12.50
		132	5660		11.83	12.50
		136	5680		11.70	12.50
	U-NII-3	140	5700		11.85	12.50
		144	5720		11.80	12.50
		149	5745		11.56	12.50
		153	5765		11.55	12.50
		157	5785		11.41	12.50
		161	5805		11.35	12.50
165	5825	11.54	12.50			
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11ax-40	U-NII-1	38	5190	MCS0	11.43	12.00
		46	5230		11.73	12.00
	U-NII-2A	54	5270		11.73	12.00



		62	5310		11.82	12.00
	U-NII-2C	102	5510		10.88	12.00
		110	5550		10.96	12.00
		118	5590		11.05	12.00
		126	5630		11.02	12.00
		134	5670		11.00	12.00
		142	5710		10.97	12.00
		U-NII-3	151	5755		11.37
	159		5795		11.46	12.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11ax 80M	U-NII-1	42	5210	MCS0	10.83	11.50
	U-NII-2A	58	5290		11.11	12.00
	U-NII-2C	106	5530		10.68	12.00
		122	5610		10.79	12.00
		138	5690		10.84	12.00
	U-NII-3	155	5775		11.06	12.00

5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Ant7	Ant9	MIMO	Tune up
					Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	
802.11a	U-NII-1	36	5180	6	11.57	11.47	14.53	15.50
		40	5200		11.78	12.00	14.90	15.50
		44	5220		12.00	11.95	14.99	15.50
		48	5240		11.89	12.10	15.01	15.50
	U-NII-2A	52	5260		11.74	12.10	14.93	15.50
		56	5280		11.74	12.14	14.95	15.50
		60	5300		11.87	12.29	15.10	15.50
		64	5320		11.91	12.31	15.12	15.50
	U-NII-2C	100	5500		11.62	11.61	14.63	15.50
		104	5520		11.71	11.75	14.74	15.50
		108	5540		11.72	11.67	14.71	15.50
		112	5560		11.80	11.79	14.81	15.50
		116	5580		11.81	11.66	14.75	15.50
		120	5600		11.74	11.79	14.78	15.50
		124	5620		11.87	11.76	14.83	15.50
		128	5640		11.84	11.76	14.81	15.50
	U-NII-3	132	5660		12.02	11.90	14.97	15.50
		136	5680		12.21	11.90	15.07	15.50
		140	5700		12.12	12.05	15.10	15.50
		144	5720		12.01	11.62	14.83	15.50
149		5745	11.87	11.68	14.79	15.50		
153		5765	11.90	11.51	14.72	15.50		
	157	5785	11.84	11.60	14.73	15.50		
	161	5805	11.98	11.80	14.90	15.50		
	165	5825	11.75	11.86	14.82	15.50		
	5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)
802.11n- HT20	U-NII-1	36	5180	MCS0	11.37	11.32	14.36	15.50
		40	5200		11.34	11.57	14.47	15.50
		44	5220		11.55	11.61	14.59	15.50
		48	5240		11.62	11.94	14.79	15.50
	U-NII-2A	52	5260		11.60	12.06	14.85	15.50
		56	5280		11.39	11.77	14.59	15.50

5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up	
	U-NII-2C	60	5300	MCS0	11.50	11.97	14.75	15.50	
		64	5320		11.51	11.92	14.73	15.50	
		100	5500		11.60	11.56	14.59	15.50	
		104	5520		11.50	11.61	14.57	15.50	
		108	5540		11.50	11.69	14.61	15.50	
		112	5560		11.63	11.62	14.64	15.50	
		116	5580		11.70	11.43	14.58	15.50	
		120	5600		11.61	11.67	14.65	15.50	
		124	5620		11.67	11.55	14.62	15.50	
		128	5640		11.53	11.60	14.58	15.50	
		132	5660		11.72	11.63	14.69	15.50	
		136	5680		11.83	11.87	14.86	15.50	
		140	5700		11.95	11.66	14.82	15.50	
		144	5720		11.84	11.56	14.71	15.50	
	U-NII-3	149	5745		11.50	11.42	14.47	15.50	
		153	5765		11.55	11.42	14.50	15.50	
		157	5785		11.80	11.34	14.59	15.50	
		161	5805		11.73	11.45	14.60	15.50	
		165	5825	11.61	11.51	14.57	15.50		
802.11n-HT40	U-NII-1	38	5190	MCS0	11.04	11.21	14.14	15.00	
		46	5230		11.33	11.73	14.54	15.00	
U-NII-2A	54	5270	11.15		11.86	14.53	15.00		
	62	5310	11.25		11.95	14.62	15.00		
U-NII-2C	102	5510	11.04		11.08	14.07	15.00		
	110	5550	11.02		11.25	14.15	15.00		
	118	5590	11.07		11.19	14.14	15.00		
	126	5630	11.26		11.28	14.28	15.00		
	134	5670	11.42		11.29	14.37	15.00		
	142	5710	11.51		11.18	14.36	15.00		
U-NII-3	151	5755	11.22		11.25	14.25	15.00		
	159	5795	11.39		11.22	14.32	15.00		
802.11ac-20	U-NII-1	36	5180		MCS0	11.30	11.33	14.33	15.50
		40	5200			11.41	11.49	14.46	15.50
U-NII-2A	44	5220	11.47	11.68		14.59	15.50		
	48	5240	11.59	11.92		14.77	15.50		
	52	5260	11.28	11.95		14.64	15.50		
	56	5280	11.49	12.01		14.77	15.50		
U-NII-2C	60	5300	11.55	11.96		14.77	15.50		
	64	5320	11.44	12.15		14.82	15.50		
	100	5500	11.26	11.37		14.33	15.50		
	104	5520	11.38	11.42		14.41	15.50		
	108	5540	11.55	11.86		14.72	15.50		
	112	5560	11.52	11.63		14.59	15.50		
	116	5580	11.65	11.43		14.55	15.50		
	120	5600	11.63	11.59		14.62	15.50		
	124	5620	11.58	11.43		14.52	15.50		
	128	5640	11.43	11.64		14.55	15.50		
	132	5660	11.56	11.51		14.55	15.50		
	136	5680	11.64	11.68		14.67	15.50		
		140	5700	11.67	11.60	14.65	15.50		

		144	5720		11.62	11.51	14.58	15.50		
		149	5745		11.65	11.97	14.82	15.50		
		153	5765		11.40	11.50	14.46	15.50		
		157	5785		11.49	11.67	14.59	15.50		
		161	5805		11.51	11.81	14.67	15.50		
		165	5825		11.70	11.76	14.74	15.50		
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up		
802.11ac-40	U-NII-1	38	5190	MCS0	10.96	11.03	14.01	15.00		
		46	5230		10.91	11.45	14.20	15.00		
	U-NII-2A	54	5270		10.91	11.36	14.15	15.00		
		62	5310		10.90	11.52	14.23	15.00		
	U-NII-2C	102	5510		10.73	11.27	14.02	15.00		
		110	5550		10.86	11.39	14.14	15.00		
		118	5590		11.25	11.30	14.29	15.00		
		126	5630		11.23	11.07	14.16	15.00		
		134	5670		11.24	11.29	14.28	15.00		
		142	5710		11.38	11.33	14.37	15.00		
	U-NII-3	151	5755		11.32	11.43	14.39	15.00		
		159	5795		11.41	11.35	14.39	15.00		
	5GHz	mode	Channel		Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up
	802.11ac 80M	U-NII-1	42		5210	MCS0	10.50	11.09	13.82	15.00
58			5290	10.47	11.36		13.95	15.00		
U-NII-2C		106	5530	10.80	11.14		13.98	15.00		
		122	5610	11.12	11.19		14.17	15.00		
U-NII-3		138	5690	11.34	11.16		14.26	15.00		
		155	5775	10.79	10.74		13.78	15.00		
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up		
802.11ax-20	U-NII-1	36	5180	MCS0	11.58	11.88	14.74	15.50		
		40	5200		11.63	11.99	14.82	15.50		
		44	5220		11.72	12.18	14.97	15.50		
		48	5240		11.89	12.31	15.12	15.50		
	U-NII-2A	52	5260		11.75	12.24	15.01	15.50		
		56	5280		11.56	12.17	14.89	15.50		
		60	5300		11.85	12.26	15.07	15.50		
	U-NII-2C	64	5320		11.69	12.25	14.99	15.50		
		100	5500		11.48	12.00	14.76	15.50		
		104	5520		11.71	11.95	14.84	15.50		
		108	5540		11.58	12.02	14.82	15.50		
		112	5560		11.75	12.10	14.94	15.50		
		116	5580		11.79	12.23	15.03	15.50		
		120	5600		11.92	12.18	15.06	15.50		
		124	5620		11.91	12.20	15.07	15.50		
		128	5640		11.92	12.05	15.00	15.50		
		132	5660		11.95	11.85	14.91	15.50		
		136	5680		11.99	12.11	15.06	15.50		
		140	5700		12.09	11.99	15.05	15.50		
	U-NII-3	144	5720		12.08	12.26	15.05	15.50		
		149	5745		12.04	12.06	14.86	15.50		

	3	153	5765		11.88	12.12	14.78	15.50		
		157	5785		11.95	12.28	14.84	15.50		
		161	5805		12.05	12.20	14.74	15.50		
		165	5825		12.06	12.27	14.83	15.50		
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up		
802.11ax-40	U-NII-1	38	5190	MCS0	10.79	11.24	14.03	15.00		
		46	5230		11.16	11.46	14.32	15.00		
	U-NII-2A	54	5270		11.21	11.81	14.53	15.00		
		62	5310		11.60	11.84	14.73	15.00		
	U-NII-2C	102	5510		11.16	11.51	14.35	15.00		
		110	5550		11.22	11.62	14.43	15.00		
		118	5590		11.48	11.58	14.54	15.00		
		126	5630		11.59	11.60	14.61	15.00		
		134	5670		11.55	11.81	14.69	15.00		
		142	5710		11.73	11.73	14.74	15.00		
	U-NII-3	151	5755		11.57	11.65	14.62	15.00		
		159	5795		11.52	11.71	14.63	15.00		
	5GHz	mode	Channel		Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up
	802.11ax 80M	U-NII-1	42		5210	MCS0	10.49	11.11	13.82	14.50
58			5290	11.20	11.74		14.49	15.00		
U-NII-2C		106	5530	11.03	11.30		14.18	15.00		
		122	5610	11.15	11.50		14.34	15.00		
		138	5690	11.42	11.40		14.42	15.00		
U-NII-3		155	5775	11.11	11.15		14.14	15.00		

BT		Average Conducted Power(dBm)			
Band	Channel	0	39	78	Tune up
BT	GFSK	13.59	14.73	13.72	15.50
	$\pi/4$ DQPSK	8.17	9.80	8.90	12.00
	8DPSK	8.10	9.73	9.03	12.00
Band	Channel	0	19	39	Tune up
BLE	1M	-0.34	1.52	1.85	3.00
	2M	-2.09	-0.20	0.13	3.00