

Reduced Power Mode for Hotspot On

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)	Ch. Delta > 0.5
	512	661	810		512	661	810		
TX Channel	1850.2	1860	1909.8	1850.2	1860	1909.8			
Frequency (MHz)	24.25	24.33	24.26	25.00	15.25	15.33	15.26	16.00	0.12
GSM 1 Tx slot	24.21	24.31	24.25	25.00	15.21	15.31	15.25	16.00	
GPRS 1 Tx slots	21.54	21.66	21.47	22.50	15.54	15.66	15.47	16.50	0.19
GPRS 3 Tx slots	20.36	20.55	20.38	21.00	16.10	16.29	16.12	16.74	0.19
GPRS 4 Tx slots	18.51	18.76	18.57	19.00	15.51	15.76	15.57	16.00	0.25
EDGE 1 Tx slot	19.67	19.62	19.59	20.50	10.67	10.62	10.59	11.50	0.08
EDGE 2 Tx slots	18.24	18.19	18.29	18.50	12.24	12.19	12.29	12.50	0.10
EDGE 3 Tx slots	17.26	17.18	17.03	18.00	13.00	12.92	12.77	13.74	0.23
EDGE 4 Tx slots	15.03	15.34	15.10	15.50	12.03	12.34	12.10	12.50	0.31

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
	TX Channel	5262	9400		9538	1312	1413		1513	4132	4192		4233
Rx Channel	9662	9890	9938		1537	1638	1738		4957	4467	4468		
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	15.43	15.41	15.40	16.00	15.38	15.43	15.30	16.50	21.20	21.19	21.02	22.50
3GPP Rel 99	RM12 12.2Kbps	15.44	15.48	15.41	16.00	15.39	15.44	15.31	16.50	21.22	21.24	21.07	22.50
3GPP Rel 6	HSDPA Subtest-1	14.82	14.83	14.75	15.00	14.22	14.21	14.32	15.50	20.15	20.10	19.90	21.50
3GPP Rel 6	HSDPA Subtest-2	14.82	14.82	14.76	15.00	14.32	14.35	14.17	15.50	20.20	20.14	19.99	21.50
3GPP Rel 6	HSDPA Subtest-3	14.34	14.33	14.27	14.50	14.02	14.21	13.99	15.00	19.64	19.59	19.48	21.00
3GPP Rel 6	HSDPA Subtest-4	14.34	14.32	14.26	14.50	14.07	14.12	14.00	15.00	19.65	19.63	19.48	21.00
3GPP Rel 6	DCHSDPA Subtest-1	14.81	14.82	14.74	15.00	14.21	14.20	14.31	15.50	20.14	20.08	19.88	21.50
3GPP Rel 6	DCHSDPA Subtest-2	14.80	14.81	14.75	15.00	14.10	14.11	14.16	15.50	20.17	20.12	19.98	21.50
3GPP Rel 6	DCHSDPA Subtest-3	14.33	14.32	14.26	14.50	14.11	14.20	13.98	15.00	19.63	19.57	19.46	21.00
3GPP Rel 6	DCHSDPA Subtest-4	14.32	14.31	14.25	14.50	14.06	14.11	13.99	15.00	19.63	19.59	19.47	21.00
3GPP Rel 6	HSPA Subtest-1	14.56	14.37	14.80	15.00	14.61	14.62	14.33	15.50	20.17	20.15	19.86	21.50
3GPP Rel 6	HSPA Subtest-2	12.84	12.87	12.79	13.00	12.59	12.63	12.27	13.50	18.25	18.14	17.98	19.50
3GPP Rel 6	HSPA Subtest-3	13.82	13.81	13.79	14.00	13.64	13.57	13.30	14.50	19.18	19.13	18.94	20.50
3GPP Rel 6	HSPA Subtest-4	12.84	12.82	12.81	13.00	12.56	12.67	12.25	13.50	18.22	18.12	17.95	19.50
3GPP Rel 6	HSPA Subtest-5	14.80	14.80	14.80	15.00	14.59	14.42	14.32	15.50	20.21	20.14	19.87	21.50

Band	TX Channel	CDMA BC1			Tuneup Limit (dBm)	CDMA BC10			Tuneup Limit (dBm)
		25	690	1175		476	580	684	
Frequency (MHz)		1153.125	1250	1594.975		1171.9	1251.3	1231.1	
RC1 SO55		15.55	15.61	15.65	16.50	23.34	23.35	23.33	24.00
RC3 SO65		15.56	15.59	15.66	16.50	23.36	23.36	23.36	24.00
RC3 SO32 (F+SCH)		15.56	15.59	15.53	16.50	23.37	23.39	23.37	24.00
RC3 SO32 (F+SCH)		15.54	15.58	15.48	16.50	23.37	23.37	23.35	24.00
RTAP 153.9Kbps		15.51	15.63	15.59	16.50	23.45	23.49	23.41	24.00
RTAP 409.6Kbps		15.50	15.61	15.63	16.50	23.47	23.46	23.44	24.00

Reduced Power Mode for Handheld On

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513	
Rx Channel		9662	9800	9938		1537	1638	1738	
Frequency (MHz)		1852.2	1860	1867.8		1712.4	1723.8	1732.1	
3GPP Rel 99	AMR 12.2kbps	18.72	18.73	18.71	19.50	19.92	19.95	19.91	20.00
3GPP Rel 99	RM-12.2kbps	18.73	18.74	18.72	19.50	19.93	19.96	19.92	20.00
3GPP Rel 6	HSDPA Subtest-1	17.93	17.97	17.88	18.50	18.94	18.90	18.76	19.00
3GPP Rel 6	HSDPA Subtest-2	17.96	17.94	17.88	18.50	18.97	18.91	18.74	19.00
3GPP Rel 6	HSDPA Subtest-3	17.45	17.44	17.37	18.00	18.48	18.41	18.20	18.50
3GPP Rel 6	HSDPA Subtest-4	17.45	17.45	17.43	18.00	18.44	18.39	18.24	18.50
3GPP Rel 8	DC-HSDPA Subtest-1	17.92	17.96	17.87	18.50	18.93	18.89	18.75	19.00
3GPP Rel 8	DC-HSDPA Subtest-2	17.85	17.93	17.87	18.50	18.96	18.90	18.73	19.00
3GPP Rel 8	DC-HSDPA Subtest-3	17.45	17.43	17.36	18.00	18.45	18.40	18.19	18.50
3GPP Rel 8	DC-HSDPA Subtest-4	17.44	17.44	17.42	18.00	18.43	18.38	18.23	18.50
3GPP Rel 6	HSUPA Subtest-1	17.95	17.98	17.88	18.50	18.93	18.88	18.70	19.00
3GPP Rel 6	HSUPA Subtest-2	15.98	15.94	15.93	16.50	16.94	16.88	16.73	17.00
3GPP Rel 6	HSUPA Subtest-3	16.94	16.94	16.86	17.50	17.91	17.88	17.69	18.00
3GPP Rel 6	HSUPA Subtest-4	15.95	15.98	15.87	16.50	16.95	16.87	16.71	17.00
3GPP Rel 6	HSUPA Subtest-5	17.90	17.90	17.90	18.50	18.95	18.85	18.75	19.00

Band		CDMA BC1			Tune-up Limit (dBm)
TX Channel		25	600	1175	
Frequency (MHz)		1851.25	1880	1908.75	
RC1 SO55		21.15	21.33	21.48	22.00
RC3 SO55		21.17	21.35	21.48	22.00
RC3 SO32 (F-SCH)		21.13	21.35	21.51	22.00
RC3 SO32 (H-SCH)		21.16	21.36	21.51	22.00
RTAP 153.6kbps		21.21	21.39	21.53	22.00
RETAP 40960ba		21.20	21.31	21.47	22.00

CA_41C UP Link power

Full Power								
CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
40620	40818	QPSK	1	0	0	0	23.42	24
39750	39552	QPSK	1	0	0	0	23.41	24
40185	39987	QPSK	1	0	0	0	23.43	24
41055	40857	QPSK	1	0	0	0	23.44	24
41490	41292	QPSK	1	0	0	0	23.39	24

Sensor								
CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
40620	40818	QPSK	1	0	0	0	18.68	20
39750	39552	QPSK	1	0	0	0	18.61	20
40185	39987	QPSK	1	0	0	0	18.72	20
41055	41253	QPSK	1	0	0	0	18.65	20
41490	41292	QPSK	1	0	0	0	18.62	20

Hotspot								
CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
40620	40818	QPSK	1	0	0	0	14.1	15
39750	39552	QPSK	1	0	0	0	14.06	15
40185	39987	QPSK	1	0	0	0	13.93	15
41055	41253	QPSK	1	0	0	0	14.09	15
41490	41292	QPSK	1	0	0	0	14.11	15

<EN-DC>

Full Power

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
40620	40818	QPSK	1	0	0	0	23.42	24
39750	39552	QPSK	1	0	0	0	23.41	24
40185	39987	QPSK	1	0	0	0	23.43	24
41055	40857	QPSK	1	0	0	0	23.44	24
41490	41292	QPSK	1	0	0	0	23.39	24

Sensor

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
40620	40818	QPSK	1	0	0	0	17.11	18
39750	39552	QPSK	1	0	0	0	17.04	18
40185	39987	QPSK	1	0	0	0	17	18
41055	41253	QPSK	1	0	0	0	17.14	18
41490	41292	QPSK	1	0	0	0	17.08	18

Hotspot

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
40620	40818	QPSK	1	0	0	0	12.13	13
39750	39552	QPSK	1	0	0	0	12.01	13
40185	39987	QPSK	1	0	0	0	12.11	13
41055	41253	QPSK	1	0	0	0	12.04	13
41490	41292	QPSK	1	0	0	0	12.07	13

Handheld

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
40620	40818	QPSK	1	0	0	0	20.24	21
39750	39552	QPSK	1	0	0	0	20.19	21
40185	39987	QPSK	1	0	0	0	20.14	21
41055	41253	QPSK	1	0	0	0	20.21	21
41490	41292	QPSK	1	0	0	0	20.2	21

Full Power Mode
2CA DL

Configure	CA List	PCC							SCC					Power		
		LTE	BW	UL	UL	Mod.	UL#	DL Antenna Configuration	UL	LTE	BW	DL	DL Antenna Configuration	DL	With CA	Without CA
		Band	(MHz)	Freq. (MHz)	Channel		RB		Offset	Band	(MHz)	Freq. (MHz)		Channel	Tx. Power (dBm)	Tx. Power (dBm)
Inter-Band	CA_2A-4A	Band 2	20M	1880	18900	QPSK	1		0	Band 4	20M	2132.5		2175	22.83	22.90
		Band 4	20M	1732.5	20175	QPSK	1		0	Band 2	20M	1960		900	22.96	22.97
	CA_2A-5A	Band 2	20M	1880	18900	QPSK	1		0	Band 5	10M	881.5		2525	22.86	22.90
		Band 5	10M	836.5	20525	QPSK	1		0	Band 2	20M	1960		900	22.76	22.81
	CA_2A-12A	Band 2	20M	1880	18900	QPSK	1		0	Band 12	10M	737.5		5095	22.88	22.90
		Band 12	10M	707.5	23095	QPSK	1		0	Band 2	20M	1960		900	22.77	22.86
	CA_2A-66A	Band 2	20M	1880	18900	QPSK	1		0	Band 66	20M	2155		66886	22.96	22.90
		Band 66	20M	1745	132322	QPSK	1		0	Band 2	20M	1960		900	22.83	22.98
	CA_2A-71A	Band 2	20M	1880	18900	QPSK	1		0	Band 71	20M	637		68786	22.94	22.90
		Band 71	20M	683	133322	QPSK	1		0	Band 2	20M	1960		900	22.94	23.22
	CA_4A-5A	Band 4	20M	1732.5	20175	QPSK	1		0	Band 5	10M	881.5		2525	23.06	22.97
		Band 5	10M	836.5	20525	QPSK	1		0	Band 4	20M	2132.5		2175	22.87	22.81
	CA_4A-12A	Band 4	20M	1732.5	20175	QPSK	1		0	Band 12	10M	737.5		5095	23.08	22.97
		Band 12	10M	707.5	23095	QPSK	1		0	Band 4	20M	2132.5		2175	22.80	22.86
	CA_4A-71A	Band 4	20M	1732.5	20175	QPSK	1		0	Band 71	20M	637		68786	23.10	22.97
		Band 71	20M	683	133322	QPSK	1		0	Band 4	20M	2132.5		2175	22.91	23.22
CA_5A-41A	Band 5	10M	836.5	20525	QPSK	1		0	Band 41	20M	2593		40620	22.75	22.81	
	Band 41	20M	2593	40620	QPSK	1		0	Band 5	10M	881.5		2525	23.43	23.98	
CA_5A-41A	Band 5	10M	836.5	20525	QPSK	1	4x4MIMO	0	Band 41	20M	2593	4x4MIMO	40620	22.71	22.81	
	Band 41	20M	2593	40620	QPSK	1		0	Band 5	10M	881.5		2525	23.76	23.98	
CA_12A-66A	Band 12	10M	707.5	23095	QPSK	1		0	Band 66	20M	2155		66886	22.75	22.86	
	Band 66	20M	1745	132322	QPSK	1		0	Band 12	10M	737.5		5095	22.90	22.98	
CA_25A-26A	Band 25	20M	1880	26340	QPSK	1		0	Band 26	15M	876.5		8865	22.91	22.92	
	Band 26	15M	831.5	26865	QPSK	1		0	Band 25	20M	1962.5		8365	22.97	22.94	
CA_25A-41A	Band 25	20M	1880	26340	QPSK	1		0	Band 41	20M	2593		40620	22.87	22.92	
	Band 41	20M	2593	40620	QPSK	1		0	Band 25	20M	1962.5		8365	23.09	23.98	
CA_26A-41A	Band 26	15M	831.5	26865	QPSK	1		0	Band 41	20M	2593		40620	23.05	22.94	
	Band 41	20M	2593	40620	QPSK	1		0	Band 26	15M	876.5		8865	23.41	23.98	
CA_66A-71A	Band 66	20M	1745	132322	QPSK	1		0	Band 71	20M	637		68786	22.86	22.98	
	Band 71	20M	683	133322	QPSK	1		0	Band 66	20M	2145		66786	22.91	23.22	
CA_2C	Band 2	20M	1880	18900	QPSK	1		0	Band 2	20M	1979.8		1098	22.94	22.90	
CA_12B	Band 12	5M	701.5	23035	QPSK	1		0	Band 12	10M	741.2		5107	22.23	22.86	
CA_41C	Band 41	20M	2593	40620	QPSK	1		0	Band 41	20M	2612.8		40818	23.32	23.98	
CA_66B	Band 66	15M	1745	132322	QPSK	1		0	Band 66	5M	2164.3		66979	22.84	22.65	
CA_66C	Band 66	20M	1745	132322	QPSK	1		0	Band 66	20M	2174.8		67084	22.90	22.98	
CA_2A-2A	Band 2	20M	1880	18900	QPSK	1		0	Band 2	5M	1987.5		1175	22.96	22.90	
CA_4A-4A	Band 4	20M	1732.5	20175	QPSK	1		0	Band 4	5M	2152.5		2375	23.14	22.97	
CA_25A-25A	Band 25	20M	1880	26340	QPSK	1		0	Band 25	5M	1992.5		8665	22.98	22.92	
CA_41A-41A	Band 41	20M	2593	40620	QPSK	1		0	Band 41	5M	2687.5		41565	23.43	23.98	
CA_66A-66A	Band 66	20M	1745	132322	QPSK	1		0	Band 66	5M	2197.5		67311	23.02	22.98	

3CA DL

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

Configure		PCC							SCC1					SCC2					Power		
		LTE	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
		Band	(MHz)	Freq.	Channel		RB	RB Offset		Band	(MHz)	Freq.	Channel		Band	(MHz)	Freq.	Channel		Tx. Power (dBm)	Tx. Power (dBm)
Inter-Band	CA_2A-4A-5A	Band 2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		Band 5	10M	881.5	2525		22.92	22.9
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 5	10M	881.5	2525		Band 2	20M	1960	900		22.85	22.97
		Band 5	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175		22.57	22.81
	CA_2A4-4A4-5A	Band 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525		22.92	22.9
		Band 4	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 2	20M	1960	900	4x4MIMO	22.88	22.97
		Band 5	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.57	22.81
	CA_2A-4A-12A	Band 2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		Band 12	10M	737.5	5095		22.94	22.9
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 12	10M	737.5	5095		Band 2	20M	1960	900		22.81	22.97
		Band 12	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175		22.63	22.86
	CA_2A4-4A4-12A	Band 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 12	10M	737.5	5095		22.94	22.9
		Band 4	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 2	20M	1960	900	4x4MIMO	22.89	22.97
		Band 12	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.63	22.86
	CA_2A-4A-71A	Band 2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		Band 71	20M	637	68786		23.03	22.9
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 71	20M	637	68786		Band 2	20M	1960	900		22.42	22.97
		Band 71	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175		22.7	23.22
	CA_2A4-4A4-71A	Band 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 71	20M	637	68786		23.03	22.9
		Band 4	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 71	20M	637	68786		Band 2	20M	1960	900	4x4MIMO	22.85	22.97
		Band 71	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.7	23.22
	CA_2A-12A-66A	Band 2	20M	1880	18900	QPSK	1	0		Band 12	10M	737.5	5095		Band 66	20M	2155	66886		23.05	22.9
		Band 12	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886		Band 2	20M	1960	900		22.63	22.86
		Band 66	20M	1745	132322	QPSK	1	0		Band 2	20M	1960	900		Band 12	10M	737.5	5095		23.13	22.98

Reduced Power Mode for Sensor On 2CA DL

Configure	CA List	PCC								SCC					Power	
		LTE	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
		Band	(MHz)	Freq. (MHz)			Channel	RB		RB Offset	Band	(MHz)			Freq. (MHz)	Channel
Inter-Band	CA_2A-4A	Band 2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		17.25	17.14
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 2	20M	1960	900		18.14	18.17
	CA_2A-5A	Band 2	20M	1880	18900	QPSK	1	0		Band 5	10M	881.5	2525		17.13	17.14
		Band 5	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900		22.32	22.40
	CA_2A-12A	Band 2	20M	1880	18900	QPSK	1	0		Band 12	10M	737.5	5095		17.10	17.14
		Band 12	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900		22.85	22.86
	CA_2A-66A	Band 2	20M	1880	18900	QPSK	1	0		Band 66	20M	2155	66886		17.20	17.14
		Band 66	20M	1745	132322	QPSK	1	0		Band 2	20M	1960	900		18.10	18.18
	CA_2A-71A	Band 2	20M	1880	18900	QPSK	1	0		Band 71	20M	637	68786		17.05	17.14
		Band 71	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900		23.15	23.22
	CA_4A-5A	Band 4	20M	1732.5	20175	QPSK	1	0		Band 5	10M	881.5	2525		18.10	18.17
		Band 5	10M	836.5	20525	QPSK	1	0		Band 4	20M	2132.5	2175		22.31	22.40
	CA_4A-12A	Band 4	20M	1732.5	20175	QPSK	1	0		Band 12	10M	737.5	5095		18.04	18.17
		Band 12	10M	707.5	23095	QPSK	1	0		Band 4	20M	2132.5	2175		22.66	22.86
	CA_4A-71A	Band 4	20M	1732.5	20175	QPSK	1	0		Band 71	20M	637	68786		18.01	18.17
		Band 71	20M	683	133322	QPSK	1	0		Band 4	20M	2132.5	2175		23.14	23.22
	CA_5A-41A	Band 5	10M	836.5	20525	QPSK	1	0		Band 41	20M	2593	40620		22.41	22.40
		Band 41	20M	2593	40620	QPSK	1	0		Band 5	10M	881.5	2525		19.24	19.25
	CA_5A-41A	Band 5	10M	836.5	20525	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	22.35	22.40
		Band 41	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		19.17	19.25
CA_12A-66A	Band 12	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886		22.85	22.86	
	Band 66	20M	1745	132322	QPSK	1	0		Band 12	10M	737.5	5095		18.14	18.18	
CA_25A-26A	Band 25	20M	1880	26340	QPSK	1	0		Band 26	15M	876.5	8865		17.00	17.14	
	Band 26	15M	831.5	26865	QPSK	1	0		Band 25	20M	1962.5	8365		22.42	22.59	
CA_25A-41A	Band 25	20M	1880	26340	QPSK	1	0		Band 41	20M	2593	40620		17.10	17.14	
	Band 41	20M	2593	40620	QPSK	1	0		Band 25	20M	1962.5	8365		19.21	19.25	
CA_26A-41A	Band 26	15M	831.5	26865	QPSK	1	0		Band 41	20M	2593	40620		22.32	22.59	
	Band 41	20M	2593	40620	QPSK	1	0		Band 26	15M	876.5	8865		19.20	19.25	
CA_66A-71A	Band 66	20M	1745	132322	QPSK	1	0		Band 71	20M	637	68786		18.11	18.18	
	Band 71	20M	683	133322	QPSK	1	0		Band 66	20M	2145	66786		23.00	23.22	
Intra-Band	CA_2C	Band 2	20M	1880	18900	QPSK	1	0		Band 2	20M	1979.8	1098		17.00	17.14
	CA_12B	Band 12	5M	701.5	23035	QPSK	1	0		Band 12	10M	741.2	5107		22.76	22.86
	CA_41C	Band 41	20M	2593	40620	QPSK	1	0		Band 41	20M	2612.8	2791		19.23	19.25
	CA_66B	Band 66	15M	1745	132322	QPSK	1	0		Band 66	5M	2164.3	66979		17.65	17.89
	CA_66C	Band 66	20M	1745	132322	QPSK	1	0		Band 66	20M	2174.8	67084		18.04	18.18
	CA_2A-2A	Band 2	20M	1880	18900	QPSK	1	0		Band 2	5M	1987.5	1175		17.00	17.14
	CA_4A-4A	Band 4	20M	1732.5	20175	QPSK	1	0		Band 4	5M	2152.5	2375		18.01	18.17
	CA_25A-25A	Band 25	20M	1880	26340	QPSK	1	0		Band 25	5M	1992.5	8665		17.00	17.14
	CA_41A-41A	Band 41	20M	2593	40620	QPSK	1	0		Band 41	5M	2687.5	41565		19.15	19.25
	CA_66A-66A	Band 66	20M	1745	132322	QPSK	1	0		Band 66	5M	2197.5	67311		18.12	18.18

3CA DL

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

Configure		PCC							DL Antenna Configuration	SCC1				DL Antenna Configuration	SCC2				DL Antenna Configuration	Power	
		LTE	BW	UL	UL		UL#	UL		LTE	BW	DL	DL		LTE	BW	DL	DL		With CA	Without CA
		Band	(MHz)	Freq.	Channel	Mod.	RB	RB		Band	(MHz)	Freq.	Channel		Band	(MHz)	Freq.	Channel		Tx. Power (dBm)	Tx. Power (dBm)
				(MHz)				Offset				(MHz)									
Inter-Band	CA_2A-4A-5A	Band 2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		Band 5	10M	881.5	2525		17.1	17.14
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 5	10M	881.5	2525		Band 2	20M	1960	900		18	18.17
		Band 5	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175		22.32	22.4
	CA_2A4-4A4-5A	Band 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525		17.1	17.14
		Band 4	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 2	20M	1960	900	4x4MIMO	18.12	18.17
		Band 5	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.21	22.4
	CA_2A-4A-12A	Band 2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		Band 12	10M	737.5	5095		17.02	17.14
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 12	10M	737.5	5095		Band 2	20M	1960	900		18.14	18.17
		Band 12	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175		22.8	22.86
	CA_2A4-4A4-12A	Band 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 12	10M	737.5	5095		17.21	17.14
		Band 4	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 2	20M	1960	900	4x4MIMO	18.03	18.17
		Band 12	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.81	22.86
	CA_2A-4A-71A	Band 2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		Band 71	20M	637	68786		17.12	17.14
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 71	20M	637	68786		Band 2	20M	1960	900		18.12	18.17
		Band 71	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175		23.11	23.22
	CA_2A4-4A-71A	Band 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 71	20M	637	68786		17.1	17.14
		Band 4	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 71	20M	637	68786		Band 2	20M	1960	900	4x4MIMO	18.15	18.17
		Band 71	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	23.12	23.22
	CA_2A-12A-66A	Band 2	20M	1880	18900	QPSK	1	0		Band 12	10M	737.5	5095		Band 66	20M	2155	66886		17.05	17.14
		Band 12	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886		Band 2	20M	1960	900		22.82	22.86
		Band 66	20M	1745	132322	QPSK	1	0		Band 2	20M	1960	900		Band 12	10M	737.5	5095		18.12	18.18

3CA DL

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

Configure		PCC							DL Antenna Configuration	SCC1				DL Antenna Configuration	SCC2				DL Antenna Configuration	Power	
		LTE	BW	UL	UL	UL#	UL	Mod.		LTE	BW	DL	DL		LTE	BW	DL	DL		Tx. Power (dBm)	Tx. Power (dBm)
		Band	(MHz)	Freq. (MHz)	Channel	RB	RB Offset			Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel			
Inter-Band	CA_2A-4A-5A	Band 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	14.21	14.3
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 5	10M	881.5	2525		Band 2	20M	1960	900		15.82	15.85
		Band 5	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175		22.32	22.4
	CA_2A4-4A4-5A	Band 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	14.21	14.3
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 5	10M	881.5	2525		Band 2	20M	1960	900		15.82	15.85
		Band 5	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175		22.32	22.4
	CA_2A-4A-12A	Band 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	14.26	14.3
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 12	10M	737.5	5095		Band 2	20M	1960	900		15.8	15.85
		Band 12	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175		22.81	22.86
	CA_2A4-4A4-12A	Band 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	14.21	14.3
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 12	10M	737.5	5095		Band 2	20M	1960	900		15.82	15.85
		Band 12	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175		22.91	22.86
	CA_2A-4A-71A	Band 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 71	20M	637	68786	4x4MIMO	14.21	14.3
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 71	20M	637	68786		Band 2	20M	1960	900		15.82	15.85
		Band 71	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175		23.12	23.22
	CA_2A4-4A4-71A	Band 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 71	20M	637	68786	4x4MIMO	14.23	14.3
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 71	20M	637	68786		Band 2	20M	1960	900		15.82	15.85
		Band 71	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175		23.21	23.22
	CA_2A-12A-66A	Band 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	14.26	14.3
		Band 12	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886		Band 2	20M	1960	900		22.82	22.86
		Band 66	20M	1745	132322	QPSK	1	0		Band 2	20M	1960	900		Band 12	10M	737.5	5095		15.8	15.81

Reduced Power Mode for Handheld on 2CA DL

Configure	CA List	PCC									SCC					Power	
		LTE	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration		LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
		Band	(MHz)	Freq. (MHz)	Channel		RB	Offset			Band	(MHz)	Freq. (MHz)	Channel		Tx Power (dBm)	Tx Power (dBm)
Inter-Band	CA_2A-4A	Band 2	20M	1880	18900	QPSK	1	0			Band 4	20M	2132.5	2175		19.85	20.00
		Band 4	20M	1732.5	20175	QPSK	1	0			Band 2	20M	1960	900		21.43	21.59
	CA_2A-5A	Band 2	20M	1880	18900	QPSK	1	0			Band 5	10M	881.5	2525		19.83	20.00
		Band 5	10M	836.5	20525	QPSK	1	0			Band 2	20M	1960	900		22.76	22.81
	CA_2A-12A	Band 2	20M	1880	18900	QPSK	1	0			Band 12	10M	737.5	5095		19.82	20.00
		Band 12	10M	707.5	23095	QPSK	1	0			Band 2	20M	1960	900		22.77	22.86
	CA_2A-66A	Band 2	20M	1880	18900	QPSK	1	0			Band 66	20M	2155	66886		19.83	20.00
		Band 66	20M	1745	132322	QPSK	1	0			Band 2	20M	1960	900		21.55	21.65
	CA_2A-71A	Band 2	20M	1880	18900	QPSK	1	0			Band 71	20M	637	68786		19.83	20.00
		Band 71	20M	683	133322	QPSK	1	0			Band 2	20M	1960	900		23.12	23.22
	CA_4A-5A	Band 4	20M	1732.5	20175	QPSK	1	0			Band 5	10M	881.5	2525		21.48	21.59
		Band 5	10M	836.5	20525	QPSK	1	0			Band 4	20M	2132.5	2175		22.87	22.81
	CA_4A-12A	Band 4	20M	1732.5	20175	QPSK	1	0			Band 12	10M	737.5	5095		21.44	21.59
		Band 12	10M	707.5	23095	QPSK	1	0			Band 4	20M	2132.5	2175		22.80	22.86
	CA_4A-71A	Band 4	20M	1732.5	20175	QPSK	1	0			Band 71	20M	637	68786		21.39	21.59
		Band 71	20M	683	133322	QPSK	1	0			Band 4	20M	2132.5	2175		23.09	23.22
	CA_5A-41A	Band 5	10M	836.5	20525	QPSK	1	0			Band 41	20M	2593	40620		22.75	22.81
		Band 41	20M	2593	40620	QPSK	1	0			Band 5	10M	881.5	2525		23.43	23.98
	CA_5A-41A	Band 5	10M	836.5	20525	QPSK	1	0			Band 41	20M	2593	40620	4x4MIMO	23.68	22.81
		Band 41	20M	2593	40620	QPSK	1	0	4x4MIMO		Band 5	10M	881.5	2525		23.41	23.98
	CA_12A-66A	Band 12	10M	707.5	23095	QPSK	1	0			Band 66	20M	2155	66886		22.75	22.86
		Band 66	20M	1745	132322	QPSK	1	0			Band 12	10M	737.5	5095		21.45	21.65
	CA_25A-26A	Band 25	20M	1880	26340	QPSK	1	0			Band 26	15M	876.5	8665		20.30	20.26
		Band 26	15M	831.5	26865	QPSK	1	0			Band 25	20M	1962.5	8365		22.97	22.94
	CA_25A-41A	Band 25	20M	1880	26340	QPSK	1	0			Band 41	20M	2593	40620		20.24	20.26
		Band 41	20M	2593	40620	QPSK	1	0			Band 25	20M	1962.5	8365		23.09	23.98
	CA_26A-41A	Band 26	15M	831.5	26865	QPSK	1	0			Band 41	20M	2593	40620		23.05	22.94
		Band 41	20M	2593	40620	QPSK	1	0			Band 26	15M	876.5	8665		23.41	23.98
Intra-Band	CA_2C	Band 2	20M	1880	18900	QPSK	1	0			Band 2	20M	1979.8	1998		19.89	20.00
		Band 66	20M	1745	132322	QPSK	1	0			Band 71	20M	637	68786		22.86	22.98
	CA_66A-71A	Band 66	20M	1745	132322	QPSK	1	0			Band 71	20M	637	68786		22.86	22.98
		Band 71	20M	683	133322	QPSK	1	0			Band 66	20M	2145	66786		23.12	23.22
	CA_12B	Band 12	5M	701.5	23035	QPSK	1	0			Band 12	10M	741.2	5107		22.23	22.86
		Band 41	20M	2593	40620	QPSK	1	0			Band 41	20M	2612.8	2791		23.32	23.98
	CA_66B	Band 66	15M	1745	132322	QPSK	1	0			Band 66	5M	2164.3	66979		21.25	21.28
		Band 66	20M	1745	132322	QPSK	1	0			Band 66	20M	2174.8	67084		21.55	21.65
	CA_2A-2A	Band 2	20M	1880	18900	QPSK	1	0			Band 2	5M	1987.5	1175		19.98	20.00
		Band 4	20M	1732.5	20175	QPSK	1	0			Band 4	5M	2152.5	2375		21.46	21.59
	CA_25A-25A	Band 25	20M	1880	26340	QPSK	1	0			Band 25	5M	1992.5	8665		20.16	20.26
		Band 41	20M	2593	40620	QPSK	1	0			Band 41	5M	2687.5	41565		23.43	23.98
	CA_66A-66A	Band 66	20M	1745	132322	QPSK	1	0			Band 66	5M	2197.5	67311		21.53	21.65

3CA DL

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

Configure		PCC							DL Antenna Configuration	SCC1				DL Antenna Configuration	SCC2				DL Antenna Configuration	Power	
		LTE	BW	UL	UL	Mod.	UL#	UL		LTE	BW	DL	DL		LTE	BW	DL	DL		With CA	Without CA
		Band	(MHz)	Freq. (MHz)	Channel		RB	RB Offset		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Tx Power (dBm)	Tx Power (dBm)
Inter-Band	CA_2A-4A-5A	Band 2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		Band 5	10M	881.5	2525		19.85	20
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 5	10M	881.5	2525		Band 2	20M	1960	900		21.42	21.59
		Band 5	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175		22.57	22.81
	CA_2A4-4A4-5A	Band 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525		19.89	20
		Band 4	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 2	20M	1960	900	4x4MIMO	21.42	21.59
		Band 5	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.8	22.81
	CA_2A-4A-12A	Band 2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		Band 12	10M	737.5	5095		19.89	20
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 12	10M	737.5	5095		Band 2	20M	1960	900		21.43	21.59
		Band 12	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175		22.8	22.86
	CA_2A4-4A4-12A	Band 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 12	10M	737.5	5095		19.89	20
		Band 4	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 2	20M	1960	900	4x4MIMO	21.43	21.59
		Band 12	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.82	22.86
	CA_2A-4A-71A	Band 2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		Band 71	20M	637	68786		19.92	20
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 71	20M	637	68786		Band 2	20M	1960	900		21.43	21.59
		Band 71	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175		23.12	23.22
	CA_2A4-4A4-71A	Band 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 71	20M	637	68786		19.82	20
		Band 4	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 71	20M	637	68786		Band 2	20M	1960	900	4x4MIMO	21.43	21.59
		Band 71	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	23.15	23.22
	CA_2A-12A-66A	Band 2	20M	1880	18900	QPSK	1	0		Band 12	10M	737.5	5095		Band 66	20M	2155	66886		19.92	20
		Band 12	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886		Band 2	20M	1960	900		22.68	22.86
		Band 66	20M	1745	132322	QPSK	1	0		Band 2	20M	1960	900		Band 12	10M	737.5	5095		21.56	21.65

Band 41/ Band 41 HPUE (2.6G Band)													
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				39750	40185	40620	41055	41490					
Frequency (MHz)				2506	2549.5	2593	2636.5	2680					
20	QPSK	1	0	17.87	17.70	17.93	17.78	17.91	18	0			
20	QPSK	1	49	17.89	17.55	17.54	17.55	17.88					
20	QPSK	1	99	17.56	17.45	17.56	17.54	17.56					
20	QPSK	50	0	17.90	17.87	17.92	17.76	17.87					
20	QPSK	50	24	17.43	17.67	17.67	17.67	17.67	18	0			
20	QPSK	50	50	17.42	17.43	17.78	17.67	17.78					
20	QPSK	100	0	17.40	17.37	17.78	17.67	17.56					
20	16QAM	1	0	17.35	17.23	17.26	17.54	17.55					
20	16QAM	1	49	17.34	17.27	17.21	17.19	17.26	18	0			
20	16QAM	1	99	17.33	17.32	17.25	17.45	17.26					
20	16QAM	50	0	17.38	17.31	17.24	17.15	17.21					
20	16QAM	50	24	17.41	17.40	17.31	17.24	17.35					
20	16QAM	50	50	17.43	17.39	17.27	17.08	17.34	18	0			
20	16QAM	100	0	17.39	17.36	17.28	17.11	17.25					
20	64QAM	1	0	17.29	17.34	17.25	17.34	17.45					
20	64QAM	1	49	17.17	17.07	17.17	17.19	17.22					
20	64QAM	1	99	17.17	17.19	17.12	17.55	17.34	18	0			
20	64QAM	50	0	17.31	17.24	17.15	17.11	17.13					
20	64QAM	50	24	17.42	17.37	17.23	17.16	17.26					
20	64QAM	50	50	17.36	17.35	17.20	17.05	17.26					
20	64QAM	100	0	17.43	17.37	17.32	17.18	17.28					
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5					
15	QPSK	1	0	17.63	17.59	17.52	17.72	17.88	18	0			
15	QPSK	1	37	17.61	17.57	17.62	17.84	17.69					
15	QPSK	1	74	17.63	17.75	17.69	17.62	17.64					
15	QPSK	36	0	17.80	17.75	17.64	17.90	17.72					
15	QPSK	36	20	17.82	17.75	17.71	17.67	17.81	18	0			
15	QPSK	36	39	17.80	17.76	17.69	17.82	17.74					
15	QPSK	75	0	17.81	17.76	17.75	17.90	17.71					
15	16QAM	1	0	17.76	17.69	17.67	17.84	17.85					
15	16QAM	1	37	17.54	17.61	17.55	17.89	17.82	18	0			
15	16QAM	1	74	17.73	17.85	17.70	17.71	17.90					
15	16QAM	36	0	17.78	17.71	17.60	17.86	17.64					
15	16QAM	36	20	17.77	17.69	17.58	17.89	17.79					
15	16QAM	36	39	17.76	17.72	17.59	17.81	17.78	18	0			
15	16QAM	75	0	17.84	17.78	17.69	17.89	17.78					
15	64QAM	1	0	17.69	17.56	17.85	17.56	17.89					
15	64QAM	1	37	17.60	17.83	17.84	17.60	17.89					
15	64QAM	1	74	17.60	17.69	17.85	17.89	17.79	18	0			
15	64QAM	36	0	17.81	17.73	17.62	17.90	17.71					
15	64QAM	36	20	17.76	17.75	17.63	17.87	17.82					
15	64QAM	36	39	17.75	17.74	17.66	17.87	17.77					
15	64QAM	75	0	17.80	17.76	17.66	17.90	17.76					
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2501	2547	2593	2639	2685					
10	QPSK	1	0	17.80	17.54	17.52	17.51	17.50	18	0			
10	QPSK	1	25	17.74	17.64	17.63	17.54	17.50					
10	QPSK	1	49	17.79	17.55	17.50	17.44	17.42					
10	QPSK	25	0	17.86	17.80	17.78	17.67	17.61					
10	QPSK	25	12	17.91	17.82	17.84	17.69	17.62	18	0			
10	QPSK	25	25	17.92	17.80	17.76	17.66	17.60					
10	QPSK	50	0	17.86	17.80	17.80	17.63	17.58					
10	16QAM	1	0	17.93	17.79	17.65	17.68	17.60					
10	16QAM	1	25	17.86	17.86	17.56	17.79	17.66	18	0			
10	16QAM	1	49	17.89	17.84	17.77	17.70	17.61					
10	16QAM	25	0	17.83	17.78	17.74	17.67	17.55					
10	16QAM	25	12	17.87	17.83	17.78	17.67	17.58					
10	16QAM	25	25	17.87	17.75	17.72	17.65	17.53	18	0			
10	16QAM	50	0	17.89	17.82	17.82	17.70	17.64					
10	64QAM	1	0	17.77	17.59	17.53	17.48	17.34					
10	64QAM	1	25	17.63	17.61	17.66	17.51	17.40					
10	64QAM	1	49	17.67	17.59	17.57	17.46	17.33	18	0			
10	64QAM	25	0	17.83	17.76	17.75	17.63	17.58					
10	64QAM	25	12	17.81	17.81	17.78	17.68	17.61					
10	64QAM	25	25	17.82	17.74	17.73	17.63	17.58					
10	64QAM	50	0	17.83	17.78	17.75	17.65	17.55					
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2496.5	2545.8	2593	2640.30	2687.5					
5	QPSK	1	0	17.71	17.46	17.42	17.45	17.38	18	0			
5	QPSK	1	12	17.65	17.56	17.53	17.48	17.38					
5	QPSK	1	24	17.70	17.47	17.40	17.38	17.30					
5	QPSK	12	0	17.77	17.72	17.68	17.61	17.49					
5	QPSK	12	7	17.82	17.74	17.74	17.63	17.50	18	0			
5	QPSK	12	13	17.83	17.72	17.66	17.60	17.48					
5	QPSK	25	0	17.77	17.72	17.70	17.57	17.46					
5	16QAM	1	0	17.84	17.71	17.55	17.62	17.48					
5	16QAM	1	12	17.77	17.78	17.89	17.73	17.54	18	0			
5	16QAM	1	24	17.87	17.76	17.67	17.64	17.49					
5	16QAM	12	0	17.74	17.70	17.64	17.61	17.43					
5	16QAM	12	7	17.78	17.75	17.68	17.61	17.46					
5	16QAM	12	13	17.78	17.67	17.62	17.59	17.41	18	0			
5	16QAM	25	0	17.80	17.74	17.72	17.64	17.52					
5	64QAM	1	0	17.68	17.51	17.43	17.42	17.22					
5	64QAM	1	12	17.54	17.53	17.56	17.45	17.28					
5	64QAM	1	24	17.58	17.51	17.47	17.40	17.21	18	0			
5	64QAM	12	0	17.74	17.68	17.65	17.57	17.46					
5	64QAM	12	7	17.72	17.73	17.68	17.62	17.49					
5	64QAM	12	13	17.73	17.66	17.63	17.57	17.46					
5	64QAM	25	0	17.74	17.70	17.65	17.59	17.43					

Band 41 / Band 41 HPUE(2.6G Band)													
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				39750	40185	40620	41055	41490					
Frequency (MHz)				2506	2549.5	2593	2636.5	2680					
20	QPSK	1	0	12.48	12.23	12.63	12.31	12.21	13	0			
20	QPSK	1	49	12.32	12.36	12.30	12.29	12.48					
20	QPSK	1	99	12.26	12.30	12.13	12.28	12.31					
20	QPSK	50	0	11.92	11.84	12.18	11.93	11.91					
20	QPSK	50	24	11.90	11.81	11.76	11.98	11.73	13	0			
20	QPSK	50	50	11.86	11.87	11.70	11.94	11.98					
20	QPSK	100	0	11.98	12.01	12.16	11.97	11.90					
20	16QAM	1	0	12.39	12.44	12.39	12.45	12.40					
20	16QAM	1	49	12.34	12.35	12.01	12.06	12.04	13	0			
20	16QAM	1	99	12.45	12.49	12.44	12.45	12.44					
20	16QAM	50	0	11.92	11.93	11.82	12.01	11.90					
20	16QAM	50	24	12.03	11.89	11.80	11.90	11.84					
20	16QAM	50	50	12.09	12.06	11.82	11.91	11.94	13	0			
20	16QAM	100	0	11.91	11.92	11.68	11.98	11.96					
20	64QAM	1	0	12.23	12.25	12.27	12.23	12.44					
20	64QAM	1	49	12.01	12.08	12.25	12.21	12.31					
20	64QAM	1	99	12.48	12.34	12.23	12.43	12.06	13	0			
20	64QAM	50	0	11.94	11.96	11.80	12.05	11.95					
20	64QAM	50	24	11.94	11.87	11.79	11.93	11.71					
20	64QAM	50	50	12.07	12.01	11.80	12.00	11.92					
20	64QAM	100	0	11.93	11.95	11.72	11.98	11.93					
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5					
15	QPSK	1	0	11.69	11.72	11.55	11.53	11.79	13	0			
15	QPSK	1	37	11.91	11.83	11.65	11.95	11.65					
15	QPSK	1	74	11.98	11.80	11.79	11.83	11.65					
15	QPSK	36	0	12.03	11.94	11.74	11.94	11.83					
15	QPSK	36	20	11.98	11.86	11.77	11.96	11.86	13	0			
15	QPSK	36	39	11.93	11.82	11.77	11.88	11.80					
15	QPSK	75	0	12.00	11.90	11.72	11.91	11.79					
15	16QAM	1	0	12.23	12.33	12.03	12.15	12.06					
15	16QAM	1	37	12.02	11.94	11.99	12.13	11.97	13	0			
15	16QAM	1	74	12.35	12.01	11.85	12.27	12.10					
15	16QAM	36	0	11.98	12.00	11.73	11.95	12.01					
15	16QAM	36	20	12.02	11.93	11.80	11.89	11.99					
15	16QAM	36	39	11.99	11.89	11.77	11.88	11.90	13	0			
15	16QAM	75	0	11.93	11.86	11.72	11.97	12.05					
15	64QAM	1	0	12.31	12.18	11.84	12.10	11.90					
15	64QAM	1	37	12.21	12.21	11.86	12.10	12.01					
15	64QAM	1	74	12.16	11.99	12.01	11.88	11.94	13	0			
15	64QAM	36	0	12.01	11.98	11.76	11.94	11.96					
15	64QAM	36	20	11.98	11.90	11.89	12.00	12.02					
15	64QAM	36	39	12.04	11.95	11.86	11.88	11.93					
15	64QAM	75	0	12.07	11.90	11.80	11.89	11.88					
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2501	2547	2593	2639	2685					
10	QPSK	1	0	11.83	11.88	11.84	12.06	12.02	13	0			
10	QPSK	1	25	11.88	11.84	11.95	11.91	11.83					
10	QPSK	1	49	12.24	12.16	11.74	11.98	11.80					
10	QPSK	25	0	12.00	11.96	11.80	12.03	11.94					
10	QPSK	25	12	11.98	11.92	11.81	11.98	11.86	13	0			
10	QPSK	25	25	11.97	11.89	11.85	11.93	11.82					
10	QPSK	50	0	11.98	12.01	11.76	12.00	11.90					
10	16QAM	1	0	12.36	12.41	12.10	12.44	12.37					
10	16QAM	1	25	12.26	12.29	12.01	12.02	12.04	13	0			
10	16QAM	1	49	12.45	12.45	12.06	12.35	12.01					
10	16QAM	25	0	11.94	11.92	11.85	11.98	12.00					
10	16QAM	25	12	12.02	11.88	11.78	12.02	11.93					
10	16QAM	25	25	12.00	11.83	11.82	11.99	11.89	13	0			
10	16QAM	50	0	12.02	11.96	11.71	11.93	11.86					
10	64QAM	1	0	12.29	12.35	12.26	12.31	12.18					
10	64QAM	1	25	12.24	12.19	12.21	12.21	12.21					
10	64QAM	1	49	12.34	12.30	11.88	12.16	11.99	13	0			
10	64QAM	25	0	11.95	11.97	11.88	12.01	11.98					
10	64QAM	25	12	12.05	11.92	11.79	11.98	11.90					
10	64QAM	25	25	12.04	11.87	11.79	12.04	11.95					
10	64QAM	50	0	12.04	12.01	11.79	12.07	11.90					
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5					
5	QPSK	1	0	12.19	12.23	12.24	12.18	12.24	13	0			
5	QPSK	1	12	12.30	12.35	12.22	12.15	12.16					
5	QPSK	1	24	12.45	12.42	12.29	12.33	12.31					
5	QPSK	12	0	12.46	12.43	12.37	12.27	12.35					
5	QPSK	12	7	12.23	12.31	12.25	12.24	12.27	13	0			
5	QPSK	12	13	12.29	12.32	12.30	12.26	12.17					
5	QPSK	25	0	12.48	12.47	12.35	12.23	12.26					
5	16QAM	1	0	12.46	12.44	12.43	12.54	12.55					
5	16QAM	1	12	12.43	12.55	12.46	12.29	12.54	13	0			
5	16QAM	1	24	12.41	12.31	12.60	12.42	12.61					
5	16QAM	12	0	12.24	12.25	12.42	12.28	12.37					
5	16QAM	12	7	12.16	12.22	12.35	12.26	12.30					
5	16QAM	12	13	12.17	12.11	12.36	12.29	12.29	13	0			
5	16QAM	25	0	12.25	12.30	12.38	12.25	12.38					
5	64QAM	1	0	12.54	12.62	12.40	12.62	12.50					
5	64QAM	1	12	12.37	12.46	12.18	12.18	12.22					
5	64QAM	1	24	12.24	12.24	12.50	12.50	12.38	13	0			
5	64QAM	12	0	12.24	12.26	12.37	12.25	12.35					
5	64QAM	12	7	12.21	12.28	12.31	12.23	12.27					
5	64QAM	12	13	12.17	12.26	12.25	12.16	12.31					
5	64QAM	25	0	12.24	12.22	12.34	12.28	12.39					

Band 41/Band 41 HPUE (2.6G Band)											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Low-Middle Ch. / Freq	Power Middle Ch. / Freq	Power High-Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				39750	40185	40620	41055	41490			
Frequency (MHz)				2506	2549.5	2593	2636.5	2680			
20	QPSK	1	0	20.56	20.65	20.77	20.54	20.67	21	0	
20	QPSK	1	49	20.33	20.43	20.44	20.45	20.54			
20	QPSK	1	99	20.54	20.65	20.49	20.45	20.43			
20	QPSK	50	0	20.48	20.43	20.56	20.54	20.45			
20	QPSK	50	24	20.49	20.38	20.32	20.26	20.12	21	0	
20	QPSK	50	50	20.45	20.37	20.55	20.34	20.43			
20	QPSK	100	0	20.48	20.37	20.32	20.16	20.05			
20	16QAM	1	0	20.48	20.29	20.27	20.04	20.34			
20	16QAM	1	49	20.43	20.33	20.19	20.26	20.07	21	0	
20	16QAM	1	99	20.45	20.39	20.25	20.32	20.03			
20	16QAM	50	0	20.52	20.33	20.28	20.24	20.21			
20	16QAM	50	24	20.5	20.41	20.37	20.28	20.14			
20	16QAM	50	50	20.49	20.40	20.37	20.14	20.12	21	0	
20	16QAM	100	0	20.49	20.41	20.34	20.18	20.07			
20	64QAM	1	0	20.22	20.13	20.13	20.21	20.00			
20	64QAM	1	49	20.18	20.07	20.11	20.06	20.12			
20	64QAM	1	99	20.22	20.13	20.14	20.12	20.02	21	0	
20	64QAM	50	0	20.43	20.26	20.22	20.18	20.14			
20	64QAM	50	24	20.45	20.35	20.29	20.25	20.07			
20	64QAM	50	50	20.41	20.35	20.30	20.09	20.05			
20	64QAM	100	0	20.52	20.43	20.39	20.22	20.10			
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5			
15	QPSK	1	0	20.39	20.52	20.47	20.28	20.32	21	0	
15	QPSK	1	37	20.54	20.54	20.44	20.45	20.24			
15	QPSK	1	74	20.60	20.65	20.60	20.17	20.26			
15	QPSK	36	0	20.73	20.71	20.56	20.51	20.30			
15	QPSK	36	20	20.73	20.70	20.61	20.55	20.43	21	0	
15	QPSK	36	39	20.72	20.68	20.59	20.46	20.42			
15	QPSK	75	0	20.76	20.70	20.66	20.51	20.38			
15	16QAM	1	0	20.75	20.69	20.58	20.48	20.31			
15	16QAM	1	37	20.63	20.57	20.46	20.50	20.53	21	0	
15	16QAM	1	74	20.76	20.56	20.64	20.33	20.47			
15	16QAM	36	0	20.70	20.67	20.52	20.48	20.27			
15	16QAM	36	20	20.73	20.66	20.58	20.52	20.36			
15	16QAM	36	39	20.72	20.68	20.57	20.42	20.37	21	0	
15	16QAM	75	0	20.67	20.74	20.65	20.51	20.43			
15	64QAM	1	0	20.62	20.49	20.36	20.54	20.34			
15	64QAM	1	37	20.57	20.40	20.39	20.26	20.39			
15	64QAM	1	74	20.52	20.54	20.51	20.43	20.40	21	0	
15	64QAM	36	0	20.75	20.72	20.54	20.52	20.32			
15	64QAM	36	20	20.76	20.70	20.62	20.57	20.43			
15	64QAM	36	39	20.75	20.71	20.62	20.45	20.40			
15	64QAM	75	0	20.66	20.70	20.75	20.52	20.39			
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501	2547	2593	2639	2685			
10	QPSK	1	0	20.35	20.05	20.20	20.33	20.35	21	0	
10	QPSK	1	25	20.36	20.25	20.26	20.09	20.34			
10	QPSK	1	49	20.20	20.24	20.25	20.34	20.22			
10	QPSK	25	0	20.53	20.39	20.37	20.25	20.11			
10	QPSK	25	12	20.54	20.43	20.36	20.34	20.15	21	0	
10	QPSK	25	25	20.52	20.44	20.35	20.21	20.07			
10	QPSK	50	0	20.53	20.43	20.38	20.25	20.06			
10	16QAM	1	0	20.61	20.39	20.41	20.32	20.43			
10	16QAM	1	25	20.58	20.37	20.37	20.30	20.19	21	0	
10	16QAM	1	49	20.51	20.43	20.35	20.31	20.32			
10	16QAM	25	0	20.50	20.39	20.34	20.21	20.08			
10	16QAM	25	12	20.54	20.48	20.42	20.38	20.20			
10	16QAM	25	25	20.42	20.39	20.34	20.23	20.04	21	0	
10	16QAM	50	0	20.51	20.46	20.41	20.26	20.09			
10	64QAM	1	0	20.40	20.45	20.18	20.43	20.32			
10	64QAM	1	25	20.45	20.29	20.13	20.20	20.45			
10	64QAM	1	49	20.49	20.38	20.31	20.06	20.34	21	0	
10	64QAM	25	0	20.47	20.35	20.30	20.23	20.07			
10	64QAM	25	12	20.53	20.47	20.39	20.40	20.15			
10	64QAM	25	25	20.50	20.39	20.32	20.18	20.03			
10	64QAM	50	0	20.48	20.42	20.33	20.24	20.07			
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5			
5	QPSK	1	0	20.41	20.32	20.24	20.22	19.96	21	0	
5	QPSK	1	12	20.39	20.37	20.28	20.35	20.07			
5	QPSK	1	24	20.37	20.24	20.19	20.19	20.00			
5	QPSK	12	0	20.47	20.38	20.39	20.32	20.17			
5	QPSK	12	7	20.50	20.43	20.42	20.35	20.23	21	0	
5	QPSK	12	13	20.45	20.39	20.40	20.32	20.16			
5	QPSK	25	0	20.44	20.37	20.39	20.31	20.14			
5	16QAM	1	0	20.50	20.45	20.37	20.34	20.23			
5	16QAM	1	12	20.56	20.50	20.55	20.45	20.30	21	0	
5	16QAM	1	24	20.56	20.44	20.46	20.33	20.19			
5	16QAM	12	0	20.45	20.37	20.39	20.29	20.13			
5	16QAM	12	7	20.50	20.37	20.39	20.34	20.16			
5	16QAM	12	13	20.43	20.38	20.39	20.27	20.17	21	0	
5	16QAM	25	0	20.49	20.43	20.44	20.33	20.17			
5	64QAM	1	0	20.29	20.16	20.12	20.10	19.94			
5	64QAM	1	12	20.26	20.22	20.15	20.08	19.95			
5	64QAM	1	24	20.31	20.18	20.19	20.07	20.15	21	0	
5	64QAM	12	0	20.44	20.36	20.36	20.29	20.35			
5	64QAM	12	7	20.47	20.40	20.40	20.31	20.14			
5	64QAM	12	13	20.43	20.36	20.36	20.28	20.11			
5	64QAM	25	0	20.48	20.36	20.37	20.28	20.15			



Full Power Mode

n2 (only SCS15KHz has 5M BW)								
BW [MHz]	Modulation	RB Size		Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	23.27	23.39	23.21	24.0	0.0
20	PI2 BPSK	1	53	23.27	23.26	23.26		
20	PI2 BPSK	1	104	23.34	23.12	23.14		
20	PI2 BPSK	50	0	22.80	22.80	22.74	24.0	0.0
20	PI2 BPSK	50	28	23.12	23.10	23.04		
20	PI2 BPSK	50	56	22.74	22.69	22.64		
20	PI2 BPSK	100	0	22.64	22.67	22.60	23.5	0.5
20	QPSK	1	1	23.19	23.25	23.20	24.0	0.0
20	QPSK	1	53	23.20	23.25	23.16		
20	QPSK	1	104	23.05	23.03	22.98		
20	QPSK	50	0	22.36	22.31	22.26	24.0	0.0
20	QPSK	50	28	23.29	23.16	23.15		
20	QPSK	50	56	22.38	22.27	22.20		
20	QPSK	100	0	22.25	22.31	22.24	23.0	1.0
20	16QAM	1	1	22.45	22.43	22.36	23.0	1.0
20	64QAM	1	1	21.06	20.80	20.95	21.5	2.5
20	256QAM	1	1	18.94	18.54	18.61	19.5	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	PI2 BPSK	1	1	23.26	23.24	23.06	24.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	PI2 BPSK	1	1	23.10	23.07	22.96	24.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	PI2 BPSK	1	1	23.14	23.10	23.04	24.0	0.0

n5 (only SCS15KHz has 5M BW)								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	23.26	23.31	22.95	24.0	0.0
20	PI2 BPSK	1	53	22.98	23.30	22.82		
20	PI2 BPSK	1	104	23.04	23.03	22.73		
20	PI2 BPSK	50	0	22.35	22.65	22.38	24.0	0.0
20	PI2 BPSK	50	28	22.80	22.68	22.60		
20	PI2 BPSK	50	56	22.30	22.44	22.13		
20	PI2 BPSK	100	0	22.57	22.63	22.16	23.5	0.5
20	QPSK	1	1	23.07	22.95	22.95	24.0	0.0
20	QPSK	1	53	23.13	22.94	22.77		
20	QPSK	1	104	23.17	22.91	22.66		
20	QPSK	50	0	22.58	22.65	22.74	24.0	0.0
20	QPSK	50	28	22.81	22.70	22.86		
20	QPSK	50	56	22.84	22.65	22.57		
20	QPSK	100	0	21.91	21.29	20.36	23.0	1.0
20	16QAM	1	1	22.11	22.23	22.02	23.0	1.0
20	64QAM	1	1	20.68	20.33	20.25	21.5	2.5
20	256QAM	1	1	18.15	18.37	18.19	19.5	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	PI2 BPSK	1	1	23.19	23.17	22.99	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	PI2 BPSK	1	1	23.14	22.99	22.76	24.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	PI2 BPSK	1	1	23.25	23.07	22.87	24.0	0.0

n25								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1862.5	1905		
20	PI2 BPSK	1	1	23.22	23.23	22.90	24.0	0.0
20	PI2 BPSK	1	53	23.12	23.04	22.85		
20	PI2 BPSK	1	104	23.17	23.02	22.81		
20	PI2 BPSK	50	0	22.69	23.11	22.52	24.0	0.0
20	PI2 BPSK	50	28	23.10	23.03	22.99		
20	PI2 BPSK	50	56	22.70	22.56	22.49		
20	PI2 BPSK	100	0	22.71	22.61	22.51	23.5	0.5
20	QPSK	1	1	23.20	23.17	23.07	24.0	0.0
20	QPSK	1	53	23.15	23.03	23.03		
20	QPSK	1	104	23.21	23.02	22.90		
20	QPSK	50	0	22.20	22.29	22.08	24.0	0.0
20	QPSK	50	28	23.15	22.15	22.96		
20	QPSK	50	56	22.23	22.13	21.97		
20	QPSK	100	0	22.24	22.08	22.02	23.0	1.0
20	16QAM	1	1	22.26	22.40	22.47	23.0	1.0
20	64QAM	1	1	20.65	20.69	20.92	21.5	2.5
20	256QAM	1	1	18.35	18.73	18.56	19.5	4.5
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1862.5	1907.5	24.0	0.0
15	PI2 BPSK	1	1	23.17	22.96	22.13	24.0	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1862.5	1910	24.0	0.0
10	PI2 BPSK	1	1	23.13	23.05	23.08	24.0	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1862.5	1912.5	24.0	0.0
5	PI2 BPSK	1	1	23.05	23.12	23.06	24.0	0.0

n66 (only SCS15KHz has 5M BW)								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				172.5	174.5	177.5		
20	PI2 BPSK	1	1	23.06	23.27	23.00	24.0	0.0
20	PI2 BPSK	1	53	23.10	23.20	23.01		
20	PI2 BPSK	1	104	23.06	23.12	23.05		
20	PI2 BPSK	50	0	22.96	22.96	22.99	24.0	0.0
20	PI2 BPSK	50	28	22.91	22.90	22.87		
20	PI2 BPSK	50	56	22.82	22.84	22.49		
20	PI2 BPSK	100	0	22.44	22.56	22.55	23.5	0.5
20	QPSK	1	1	23.07	23.20	23.13	24.0	0.0
20	QPSK	1	53	23.15	23.25	23.16		
20	QPSK	1	104	22.96	23.06	22.94		
20	QPSK	50	0	22.07	22.15	22.03	24.0	0.0
20	QPSK	50	28	23.05	23.08	23.02		
20	QPSK	50	56	22.02	22.11	21.97		
20	QPSK	100	0	22.08	22.16	22.05	23.0	1.0
20	16QAM	1	1	22.25	22.35	22.33	23.0	1.0
20	64QAM	1	1	20.86	21.04	21.02	21.5	2.5
20	256QAM	1	1	18.85	18.74	18.61	19.5	4.5
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	PI2 BPSK	1	1	22.99	23.15	22.95	24.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	PI2 BPSK	1	1	22.96	23.14	22.89	24.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	PI2 BPSK	1	1	22.91	23.09	22.82	24.0	0.0

n71 (only SCS15KHz has 5M BW)								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				134000	136100	137600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670	680.5	685		
20	PI2 BPSK	1	1	23.15	23.49	23.49	24.0	0.0
20	PI2 BPSK	1	53	23.00	23.39	23.39		
20	PI2 BPSK	1	104	23.05	23.16	23.16		
20	PI2 BPSK	50	0	22.65	23.25	22.94	24.0	0.0
20	PI2 BPSK	50	28	23.03	23.20	23.25		
20	PI2 BPSK	50	56	22.70	22.91	22.91		
20	PI2 BPSK	100	0	22.72	22.72	22.72	23.5	0.5
20	QPSK	1	1	22.90	23.40	23.40	24.0	0.0
20	QPSK	1	53	23.26	23.36	23.39		
20	QPSK	1	104	23.09	23.13	23.13		
20	QPSK	50	0	22.25	23.36	23.36	24.0	0.0
20	QPSK	50	28	23.17	23.35	23.35		
20	QPSK	50	56	22.21	22.41	22.41		
20	QPSK	100	0	22.30	22.33	22.33	23.0	1.0
20	16QAM	1	1	22.05	22.75	22.75	23.0	1.0
20	64QAM	1	1	20.28	21.36	21.36	21.5	2.5
20	256QAM	1	1	18.40	18.99	18.99	19.5	4.5
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	PI2 BPSK	1	1	23.26	23.17	23.01	24.0	0.0
Channel				133600	136100	138500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	680.5	693		
10	PI2 BPSK	1	1	23.17	22.94	23.10	24.0	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	680.5	695.5		
5	PI2 BPSK	1	1	23.37	23.13	23.06	24.0	0.0

n12								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				141300	141500	141700	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	707.5	708.5		
15	PI/2 BPSK	1	1	23.26	23.46	23.21	24.0	0.0
15	PI/2 BPSK	1	40	23.05	23.27	23.16		
15	PI/2 BPSK	1	77	23.08	23.42	23.11		
15	PI/2 BPSK	36	0	22.61	23.07	22.71	24.0	0.0
15	PI/2 BPSK	36	22	23.02	23.00	23.03		
15	PI/2 BPSK	36	43	22.70	22.81	23.01		
15	PI/2 BPSK	75	0	20.09	21.86	22.75	23.5	0.5
15	QPSK	1	1	23.11	23.15	23.25	24.0	0.0
15	QPSK	1	40	23.04	23.11	23.03		
15	QPSK	1	77	23.01	23.04	23.10		
15	QPSK	36	0	22.16	22.12	22.27	24.0	0.0
15	QPSK	36	22	23.04	23.00	23.15		
15	QPSK	36	43	22.89	23.01	22.71		
15	QPSK	75	0	22.17	22.14	22.14	23.0	1.0
15	16QAM	1	1	22.71	22.26	22.85	23.0	1.0
15	64QAM	1	1	20.67	20.58	20.86	21.5	2.5
15	256QAM	1	1	18.59	18.55	18.81	19.5	4.5
Channel				140800	141500	142200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704	707.5	711		
10	PI/2 BPSK	1	1	23.06	23.00	23.02	24.0	0.0
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	PI/2 BPSK	1	1	23.22	23.07	23.12	24.0	0.0

n41 for FCC									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	23.80	23.74	23.70	24.0		
100	PI/2 BPSK	1	137	23.14	23.30	23.35			
100	PI/2 BPSK	1	271	22.77	22.65	22.57			
100	PI/2 BPSK	135	0	23.22	23.37	23.00			
100	PI/2 BPSK	135	69	22.99	23.35	23.12	24.0		
100	PI/2 BPSK	135	138	22.85	23.27	22.98			
100	PI/2 BPSK	270	0	22.70	23.00	22.87			
100	QPSK	1	1	22.61	22.50	22.70			
100	QPSK	1	137	23.08	23.25	23.10	24.0		
100	QPSK	1	271	22.73	22.70	22.65			
100	QPSK	135	0	23.43	22.94	23.11			
100	QPSK	135	69	23.34	23.50	23.29			
100	QPSK	135	138	22.78	23.40	22.99	24.0		
100	QPSK	270	0	22.84	23.02	22.90			
100	16QAM	1	1	22.62	22.72	22.13			
100	64QAM	1	1	22.44	22.65	22.01			
100	256QAM	1	1	20.78	21.05	20.68	22.0		
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	PI/2 BPSK	1	1	23.00	23.00	22.91	24.0		
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	PI/2 BPSK	1	1	22.94	22.81	22.86	24.0		
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	PI/2 BPSK	1	1	22.80	22.85	22.97	24.0		
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	PI/2 BPSK	1	1	22.73	22.94	23.00	24.0		
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	PI/2 BPSK	1	1	22.87	23.27	23.05	24.0		
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	PI/2 BPSK	1	1	23.12	23.07	22.94	24.0		

n41 for FCC HPUE									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	26.52	26.77	25.69	27.0		
100	PI/2 BPSK	1	137	25.70	26.76	26.27			
100	PI/2 BPSK	1	271	25.69	25.21	25.80			
100	PI/2 BPSK	135	0	25.45	26.53	25.56			
100	PI/2 BPSK	135	69	25.84	26.00	26.06	27.0		
100	PI/2 BPSK	135	138	24.64	25.72	25.46			
100	PI/2 BPSK	270	0	25.20	25.86	25.55			
100	QPSK	1	1	25.71	25.82	25.58			
100	QPSK	1	137	25.65	26.70	26.19	27.0		
100	QPSK	1	271	25.86	25.08	25.50			
100	QPSK	135	0	24.98	25.29	24.83			
100	QPSK	135	69	25.94	26.52	24.88			
100	QPSK	135	138	24.65	25.20	25.19	27.0		
100	QPSK	270	0	24.30	25.37	24.73			
100	16QAM	1	1	24.72	25.20	24.67			
100	64QAM	1	1	23.55	23.80	23.53			
100	256QAM	1	1	20.98	21.34	20.86	22.5		
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	PI/2 BPSK	1	1	26.36	26.31	26.12	27.0		
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	PI/2 BPSK	1	1	26.28	26.20	25.97	27.0		
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	PI/2 BPSK	1	1	26.24	26.15	26.02	27.0		
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	PI/2 BPSK	1	1	26.46	26.30	25.89	27.0		
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	PI/2 BPSK	1	1	26.32	26.25	26.11	27.0		
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	PI/2 BPSK	1	1	26.41	26.25	26.08	27.0		



Reduced Power Mode for Receiver On

n2 (only SCS15KHz has 5M BW)										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1860	1880	1900				
20	PI2 BPSK	1	1	14.84	15.01	14.90	15.5	0.0		
20	PI2 BPSK	1	53	14.73	14.95	14.96				
20	PI2 BPSK	1	104	14.71	14.96	15.01				
20	PI2 BPSK	50	0	14.21	14.92	14.35	15.5	0.0		
20	PI2 BPSK	50	28	14.70	14.83	14.76				
20	PI2 BPSK	50	56	14.80	14.40	14.81				
20	PI2 BPSK	100	0	14.35	14.20	14.32	15.5		0.0	
20	QPSK	1	1	14.80	14.80	14.82	15.5			
20	QPSK	1	53	14.85	14.82	14.82				
20	QPSK	1	104	14.88	14.76	14.82				
20	QPSK	50	0	14.91	14.79	14.72	15.5	0.0		
20	QPSK	50	28	14.52	14.67	14.82				
20	QPSK	50	56	14.90	14.79	14.80				
20	QPSK	100	0	14.73	14.91	14.83	15.5		0.0	
20	16QAM	1	1	14.70	14.82	14.73	15.5		0.0	
20	64QAM	1	1	14.65	14.80	14.86	15.5		0.0	
20	256QAM	1	1	14.82	14.69	14.78	15.5		0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1857.5	1880	1902.5				
15	PI2 BPSK	1	1	14.51	14.34	14.43	15.5		0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1855	1880	1905				
10	PI2 BPSK	1	1	14.24	14.11	14.27	15.5		0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1852.5	1880	1907.5				
5	PI2 BPSK	1	1	14.52	14.71	14.80	15.5		0.0	

n25										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1860	1882.5	1905				
20	PI/2 BPSK	1	1	14.91	15.09	14.94	15.5	0.0		
20	PI/2 BPSK	1	53	14.81	14.98	15.03				
20	PI/2 BPSK	1	104	15.00	15.07	15.05				
20	PI/2 BPSK	50	0	14.23	14.98	14.37	15.5	0.0		
20	PI/2 BPSK	50	28	14.74	14.86	14.80				
20	PI/2 BPSK	50	56	14.81	14.39	14.84				
20	PI/2 BPSK	100	0	14.38	14.10	14.35	15.5		0.0	
20	QPSK	1	1	14.82	14.83	14.84	15.5	0.0		
20	QPSK	1	53	14.79	14.85	14.97				
20	QPSK	1	104	14.77	14.84	14.90				
20	QPSK	50	0	14.90	14.86	14.78	15.5	0.0		
20	QPSK	50	28	14.58	14.70	14.87				
20	QPSK	50	56	14.93	14.82	14.93				
20	QPSK	100	0	14.76	14.93	14.89	15.5		0.0	
20	16QAM	1	1	14.71	14.83	14.75	15.5		0.0	
20	64QAM	1	1	14.67	14.82	14.97	15.5		0.0	
20	256QAM	1	1	14.86	14.73	14.91	15.5		0.0	
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1857.5	1882.5	1907.5				
15	PI/2 BPSK	1	1	14.48	14.39	14.51	15.5		0.0	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1855	1882.5	1910				
10	PI/2 BPSK	1	1	14.27	14.16	14.34	15.5		0.0	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1852.5	1882.5	1912.5				
5	PI/2 BPSK	1	1	14.59	14.78	14.86	15.5		0.0	

n66 (only SCS15KHz has 5M BW)										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1720	1745	1770				
20	PI/2 BPSK	1	1	14.89	14.99	14.80	15.5	0.0		
20	PI/2 BPSK	1	53	14.72	14.81	14.63				
20	PI/2 BPSK	1	104	14.76	14.92	14.68				
20	PI/2 BPSK	50	0	14.75	14.91	14.71	15.5	0.0		
20	PI/2 BPSK	50	28	14.69	14.83	14.60				
20	PI/2 BPSK	50	56	14.70	14.90	14.72				
20	PI/2 BPSK	100	0	14.75	14.88	14.71	15.5		0.0	
20	QPSK	1	1	14.81	14.93	14.75	15.5	0.0		
20	QPSK	1	53	14.90	14.97	14.98				
20	QPSK	1	104	14.84	14.93	14.70				
20	QPSK	50	0	14.68	14.81	14.62	15.5	0.0		
20	QPSK	50	28	14.72	14.83	14.66				
20	QPSK	50	56	14.86	14.83	14.59				
20	QPSK	100	0	14.59	14.86	14.67	15.5		0.0	
20	16QAM	1	1	14.70	14.78	14.58	15.5		0.0	
20	64QAM	1	1	14.59	14.74	14.51	15.5		0.0	
20	256QAM	1	1	14.55	14.66	14.47	15.5		0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1717.5	1745	1772.5				
15	PI/2 BPSK	1	1	14.75	14.82	14.80	15.5		0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1715	1745	1775				
10	PI/2 BPSK	1	1	14.63	14.77	14.83	15.5		0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1712.5 <th>1745</th> <th>1777.5</th> <th></th> <th colspan="2"></th>	1745	1777.5				
5	PI/2 BPSK	1	1	14.74	14.86	14.68	15.5		0.0	

n41/n41 HPUE for FCC Power Class 2&3								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	16.02	16.89	16.04	17.0	0.0
100	PI/2 BPSK	1	137	16.09	16.48	16.15		
100	PI/2 BPSK	1	271	15.15	15.28	15.12		
100	PI/2 BPSK	135	0	16.37	16.87	16.51	17.0	0.0
100	PI/2 BPSK	135	69	16.47	16.75	16.53		
100	PI/2 BPSK	135	138	15.84	16.12	15.97		
100	PI/2 BPSK	270	0	15.38	15.69	15.55	17.0	0.0
100	QPSK	1	1	15.26	15.48	15.33	17.0	0.0
100	QPSK	1	137	15.97	16.30	16.05		
100	QPSK	1	271	15.23	15.20	15.13		
100	QPSK	135	0	16.42	16.76	16.42	17.0	0.0
100	QPSK	135	69	16.44	16.79	16.49		
100	QPSK	135	138	15.78	15.96	15.75		
100	QPSK	270	0	16.09	16.43	16.14	17.0	0.0
100	16QAM	1	1	15.32	15.38	15.43	17.0	0.0
100	64QAM	1	1	15.25	15.36	15.30	17.0	0.0
100	256QAM	1	1	15.36	15.29	15.18	17.0	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	PI/2 BPSK	1	1	15.53	15.78	15.42	17.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	PI/2 BPSK	1	1	15.42	15.86	15.56	17.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	PI/2 BPSK	1	1	15.44	15.63	15.37	17.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI/2 BPSK	1	1	15.57	15.81	15.59	17.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	PI/2 BPSK	1	1	15.76	16.05	15.68	17.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	PI/2 BPSK	1	1	15.48	15.75	15.41	17.0	0.0

Reduced Power Mode for Sensor On&Hotspot on

n2 (only SCS15KHz has 5M BW)								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	14.84	15.01	14.90	15.5	0.0
20	PI/2 BPSK	1	53	14.73	14.95	14.96		
20	PI/2 BPSK	1	104	14.71	14.96	15.01		
20	PI/2 BPSK	50	0	14.21	14.92	14.35	15.5	0.0
20	PI/2 BPSK	50	28	14.70	14.83	14.76		
20	PI/2 BPSK	50	56	14.60	14.40	14.61		
20	PI/2 BPSK	100	0	14.35	14.20	14.32	15.5	0.0
20	QPSK	1	1	14.80	14.60	14.82	15.5	0.0
20	QPSK	1	53	14.85	14.82	14.92		
20	QPSK	1	104	14.88	14.76	14.82		
20	QPSK	50	0	14.91	14.79	14.72	15.5	0.0
20	QPSK	50	28	14.52	14.67	14.82		
20	QPSK	50	56	14.90	14.79	14.90		
20	QPSK	100	0	14.73	14.91	14.83	15.5	0.0
20	16QAM	1	1	14.70	14.82	14.73	15.5	0.0
20	64QAM	1	1	14.65	14.80	14.86	15.5	0.0
20	256QAM	1	1	14.82	14.69	14.78	15.5	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	PI/2 BPSK	1	1	14.51	14.34	14.43	15.5	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	PI/2 BPSK	1	1	14.24	14.11	14.27	15.5	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	PI/2 BPSK	1	1	14.52	14.71	14.80	15.5	0.0

n5 (Sensor & Hotspot)								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	23.26	23.31	22.95	23.5	0.0
20	PI/2 BPSK	1	53	22.98	23.30	22.82		
20	PI/2 BPSK	1	104	23.04	23.03	22.73		
20	PI/2 BPSK	50	0	22.35	22.85	22.38	23.5	0.0
20	PI/2 BPSK	50	28	22.80	22.68	22.60		
20	PI/2 BPSK	50	56	22.30	22.44	22.13		
20	PI/2 BPSK	100	0	22.57	22.63	22.10	23.0	0.5
20	QPSK	1	1	23.07	22.95	22.95	23.5	0.0
20	QPSK	1	53	23.13	22.94	22.77		
20	QPSK	1	104	23.17	22.91	22.66		
20	QPSK	50	0	22.58	22.65	22.74	23.5	0.0
20	QPSK	50	28	22.81	22.70	22.86		
20	QPSK	50	56	22.84	22.65	22.57		
20	QPSK	100	0	21.91	21.29	20.36	22.5	1.0
20	16QAM	1	1	22.11	22.23	22.02	22.5	1.0
20	64QAM	1	1	20.68	20.33	20.25	21.0	2.5
20	256QAM	1	1	18.15	18.37	18.19	19.0	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	PI/2 BPSK	1	1	23.19	23.17	22.99	23.5	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	PI/2 BPSK	1	1	23.14	22.99	22.76	23.5	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	PI/2 BPSK	1	1	23.25	23.07	22.87	23.5	0.0

n25 (Sensor&Hotspot)								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850	1882.5	1905		
20	PI/2 BPSK	1	1	14.91	15.09	14.94	15.5	0.0
20	PI/2 BPSK	1	53	14.81	14.98	15.03		
20	PI/2 BPSK	1	104	15.00	15.07	15.05		
20	PI/2 BPSK	50	0	14.23	14.98	14.37	15.5	0.0
20	PI/2 BPSK	50	28	14.74	14.86	14.80		
20	PI/2 BPSK	50	56	14.61	14.39	14.64		
20	PI/2 BPSK	100	0	14.38	14.19	14.35	15.5	0.0
20	QPSK	1	1	14.82	14.63	14.84	15.5	0.0
20	QPSK	1	53	14.79	14.85	14.97		
20	QPSK	1	104	14.77	14.84	14.90		
20	QPSK	50	0	14.90	14.86	14.76	15.5	0.0
20	QPSK	50	28	14.58	14.70	14.87		
20	QPSK	50	56	14.93	14.82	14.93		
20	QPSK	100	0	14.76	14.93	14.89	15.5	0.0
20	16QAM	1	1	14.71	14.83	14.75	15.5	0.0
20	64QAM	1	1	14.67	14.82	14.97	15.5	0.0
20	256QAM	1	1	14.86	14.73	14.91	15.5	0.0
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1882.5	1907.5		
15	PI/2 BPSK	1	1	14.48	14.39	14.51	15.5	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1882.5	1910		
10	PI/2 BPSK	1	1	14.27	14.16	14.34	15.5	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1882.5	1912.5		
5	PI/2 BPSK	1	1	14.59	14.78	14.86	15.5	0.0

n66 (only SCS15KHz has 5M BW)								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	PI/2 BPSK	1	1	15.97	16.28	15.93	17.0	0.0
20	PI/2 BPSK	1	53	15.67	16.12	15.83		
20	PI/2 BPSK	1	104	15.92	16.13	15.70		
20	PI/2 BPSK	50	0	15.98	16.09	15.91	17.0	0.0
20	PI/2 BPSK	50	28	15.74	16.07	15.65		
20	PI/2 BPSK	50	56	15.75	16.04	15.66		
20	PI/2 BPSK	100	0	15.81	16.13	15.71	17.0	0.0
20	QPSK	1	1	15.87	16.06	15.81	17.0	0.0
20	QPSK	1	53	15.67	16.09	15.65		
20	QPSK	1	104	15.73	16.03	15.63		
20	QPSK	50	0	15.73	16.04	15.73	17.0	0.0
20	QPSK	50	28	15.65	16.13	15.63		
20	QPSK	50	56	15.78	15.99	15.66		
20	QPSK	100	0	15.68	16.01	15.71	17.0	0.0
20	16QAM	1	1	15.75	16.20	15.55	17.0	0.0
20	64QAM	1	1	15.62	15.95	15.58	17.0	0.0
20	256QAM	1	1	15.59	15.79	15.63	17.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	PI/2 BPSK	1	1	15.91	15.89	15.91	17.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	PI/2 BPSK	1	1	15.75	15.78	15.74	17.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	PI/2 BPSK	1	1	15.79	15.75	15.67	17.0	0.0

n41/n41 HPUE for FCC								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	16.02	16.89	16.04	17.0	0.0
100	PI/2 BPSK	1	137	16.09	16.48	16.15		
100	PI/2 BPSK	1	271	15.15	15.28	15.12		
100	PI/2 BPSK	135	0	16.37	16.87	16.51	17.0	0.0
100	PI/2 BPSK	135	69	16.47	16.75	16.53		
100	PI/2 BPSK	135	138	15.84	16.12	15.97		
100	PI/2 BPSK	270	0	15.38	15.69	15.55	17.0	0.0
100	QPSK	1	1	15.26	15.48	15.33	17.0	0.0
100	QPSK	1	137	15.97	16.30	16.05		
100	QPSK	1	271	15.23	15.20	15.13		
100	QPSK	135	0	16.42	16.76	16.42	17.0	0.0
100	QPSK	135	69	16.44	16.79	16.49		
100	QPSK	135	138	15.78	15.96	15.75		
100	QPSK	270	0	16.09	16.43	16.14	17.0	0.0
100	16QAM	1	1	15.32	15.38	15.43	17.0	0.0
100	64QAM	1	1	15.25	15.36	15.30	17.0	0.0
100	256QAM	1	1	15.36	15.29	15.18	17.0	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	PI/2 BPSK	1	1	15.53	15.78	15.42	17.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	PI/2 BPSK	1	1	15.42	15.86	15.56	17.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	PI/2 BPSK	1	1	15.44	15.63	15.37	17.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI/2 BPSK	1	1	15.57	15.81	15.59	17.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	PI/2 BPSK	1	1	15.76	16.05	15.68	17.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	PI/2 BPSK	1	1	15.48	15.75	15.41	17.0	0.0

Reduced Power Mode for Handheld On

n2 (only SCS15KHz has 5M BW)								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	19.16	19.25	19.05	19.5	0.0
20	PI2 BPSK	1	53	19.15	19.23	19.06		
20	PI2 BPSK	1	104	19.11	19.22	19.01		
20	PI2 BPSK	50	0	19.08	19.19	19.08	19.5	0.0
20	PI2 BPSK	50	28	19.07	19.16	19.04		
20	PI2 BPSK	50	56	19.09	19.17	19.10		
20	PI2 BPSK	100	0	19.09	19.13	19.04	19.5	0.0
20	QPSK	1	1	20.62	20.60	20.55	19.5	0.0
20	QPSK	1	53	20.72	20.69	20.66		
20	QPSK	1	104	20.76	21.00	20.68		
20	QPSK	50	0	20.69	20.81	20.58	19.5	0.0
20	QPSK	50	28	20.86	20.79	20.66		
20	QPSK	50	56	19.15	19.16	19.11		
20	QPSK	100	0	19.17	19.15	19.08	19.5	0.0
20	16QAM	1	1	19.22	19.30	19.11	19.5	0.0
20	64QAM	1	1	19.02	18.89	18.67	19.5	0.0
20	256QAM	1	1	19.14	19.15	19.10	19.5	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1867.5	1880	1902.5		
15	PI2 BPSK	1	1	19.10	19.13	19.07	19.5	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1865	1880	1905		
10	PI2 BPSK	1	1	19.02	18.96	18.94	19.5	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1880	1907.5		
5	PI2 BPSK	1	1	19.01	18.97	18.96	19.5	0.0

n25								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1882.5	1905		
20	PI2 BPSK	1	1	19.13	19.20	19.15	19.5	0.0
20	PI2 BPSK	1	53	19.15	19.14	19.16		
20	PI2 BPSK	1	104	19.16	19.16	19.17		
20	PI2 BPSK	50	0	19.17	19.19	19.15	19.5	0.0
20	PI2 BPSK	50	28	19.11	19.17	19.13		
20	PI2 BPSK	50	56	19.13	19.16	19.17		
20	PI2 BPSK	100	0	19.08	19.11	19.01	19.5	0.0
20	QPSK	1	1	19.10	19.07	19.04	19.5	0.0
20	QPSK	1	53	19.17	19.20	19.19		
20	QPSK	1	104	19.16	19.18	19.19		
20	QPSK	50	0	19.10	19.12	19.10	19.5	0.0
20	QPSK	50	28	19.13	19.12	19.08		
20	QPSK	50	56	19.09	19.13	19.11		
20	QPSK	100	0	19.12	19.14	19.13	19.5	S
20	16QAM	1	1	19.01	19.03	19.99	19.5	0.0
20	64QAM	1	1	19.03	19.17	19.07	19.5	0.0
20	256QAM	1	1	18.97	18.92	19.01	19.5	0.0
Channel				371900	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1867.5	1882.5	1907.5		
15	PI2 BPSK	1	1	19.06	19.20	19.10	19.5	0.0
Channel				371300	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1865	1882.5	1910		
10	PI2 BPSK	1	1	19.01	18.97	19.02	19.5	0.0
Channel				370900	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1882.5	1912.5		
5	PI2 BPSK	1	1	19.14	19.17	19.20	19.5	0.0

n66 (only SCS15KHz has 5M BW)								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				344000	348000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1770		
20	PI2 BPSK	1	1	19.91	19.99	19.94	20.5	0.0
20	PI2 BPSK	1	53	19.83	19.85	19.82		
20	PI2 BPSK	1	104	19.93	19.88	19.89		
20	PI2 BPSK	50	0	19.90	19.96	19.82	20.5	0.0
20	PI2 BPSK	50	28	19.89	19.83	19.81		
20	PI2 BPSK	50	56	19.88	19.86	19.85		
20	PI2 BPSK	100	0	19.85	19.91	19.84	20.5	0.0
20	QPSK	1	1	19.87	19.84	19.84	20.5	0.0
20	QPSK	1	53	19.87	19.91	19.95		
20	QPSK	1	104	19.82	19.84	19.98		
20	QPSK	50	0	19.97	19.78	19.88	20.5	0.0
20	QPSK	50	28	19.80	19.77	19.87		
20	QPSK	50	56	19.89	19.87	19.88		
20	QPSK	100	0	19.86	19.77	19.86	20.5	0.0
20	16QAM	1	1	19.89	19.94	19.95	20.5	0.0
20	64QAM	1	1	19.87	19.79	19.95	20.5	0.0
20	256QAM	1	1	18.95	18.67	18.76	19.5	1.0
Channel				343500	348000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	PI2 BPSK	1	1	19.97	19.98	19.89	20.5	0.0
Channel				343000	348000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	PI2 BPSK	1	1	19.90	19.77	19.80	20.5	0.0
Channel				342500	348000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	PI2 BPSK	1	1	19.87	19.78	19.84	20.5	0.0

n41/n41 HPUE for FCC								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	21.5	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	21.12	21.27	21.24		
100	PI/2 BPSK	1	137	21.07	21.19	21.11	21.5	0.0
100	PI/2 BPSK	1	271	20.96	21.14	21.03		
100	PI/2 BPSK	135	0	21.16	21.24	21.09		
100	PI/2 BPSK	135	69	20.99	21.11	21.00	21.5	0.0
100	PI/2 BPSK	135	138	20.28	21.08	20.29		
100	PI/2 BPSK	270	0	20.89	21.01	20.72		
100	QPSK	1	1	20.94	21.01	20.90	21.5	0.0
100	QPSK	1	137	20.94	20.95	20.96		
100	QPSK	1	271	20.99	20.97	21.00		
100	QPSK	135	0	20.70	20.82	20.70	21.5	0.0
100	QPSK	135	69	20.63	20.56	20.65		
100	QPSK	135	138	20.50	20.64	20.66		
100	QPSK	270	0	20.67	20.73	20.68	21.5	0.0
100	16QAM	1	1	20.02	19.97	20.06	21.5	0.0
100	64QAM	1	1	20.31	20.29	20.17	21.5	0.0
100	256QAM	1	1	20.03	19.95	19.98	20.5	1.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	21.5	0.0
90	PI/2 BPSK	1	1	21.00	21.09	21.07	21.5	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99	21.5	0.0
80	PI/2 BPSK	1	1	20.87	20.99	20.79	21.5	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98	21.5	0.0
60	PI/2 BPSK	1	1	20.92	20.86	20.92	21.5	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99	21.5	0.0
50	PI/2 BPSK	1	1	21.03	21.07	21.01	21.5	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670	21.5	0.0
40	PI/2 BPSK	1	1	21.07	21.03	21.00	21.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	21.5	0.0
20	PI/2 BPSK	1	1	20.91	20.95	21.01	21.5	0.0

5GHz WLAN		Ant 1+2 Full Power				
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Duty Cycle
5 GHz WLAN	802.11a 6Mbps	149	5745	20.83	22.00	97.93
		157	5785	20.84	22.00	
		165	5825	20.78	22.00	
		149	5745	20.83	22.00	
	802.11n HT40 MCS0	157	5785	20.72	22.00	97.79
		165	5825	20.78	22.00	
	802.11a-VR120 MCS0	151	5754	20.35	21.50	96.32
		159	5795	20.42	21.50	
	802.11a-VR120 MCS0	149	5745	20.04	22.00	97.43
		157	5785	20.20	22.00	
802.11a-VR120 MCS0	802.11a-VR120 MCS0	151	5755	20.39	21.50	96.32
		159	5795	20.35	21.50	
	802.11a-VR120 MCS0	155	5775	20.41	21.50	93.33

5GHz WLAN	Ant 2 up to Head					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Duty Cycle %
	802.11a 6Mbps	149	5745	18.14	20.00	97.93
		157	5785	19.24	20.00	
		165	5825	18.24	20.00	
		149	5745	18.14	20.00	
		157	5785	18.14	20.00	
		165	5825	18.14	20.00	
	802.11n HT20 MCS0	157	5785	18.14	20.00	97.79
		165	5825	18.14	20.00	
		157	5785	18.14	20.00	
		165	5825	18.14	20.00	
		157	5785	18.14	20.00	
		165	5825	18.14	20.00	
	802.11n HT40 MCS0	159	5765	18.50	15.00	96.32
		149	5745	18.14	20.00	
		159	5765	18.50	15.00	
		149	5745	18.14	20.00	
		159	5765	18.50	15.00	
		149	5745	18.14	20.00	
	802.11ac VHT160 MCS0	151	5795	19.50	15.00	97.43
		157	5785	19.50	20.00	
		165	5825	19.50	20.00	
		151	5795	19.50	15.00	
		157	5785	19.50	20.00	
		165	5825	19.50	20.00	
	802.11ac VHT160 MCS0	159	5765	19.50	15.00	96.32
		149	5745	18.14	20.00	
		159	5765	19.50	15.00	
		149	5745	18.14	20.00	
		159	5765	19.50	15.00	
		149	5745	18.14	20.00	
	802.11ac VHT160 MCS0	155	5775	19.50	15.00	93.33
		145	5735	18.14	20.00	
		155	5775	19.50	15.00	
		145	5735	18.14	20.00	
		155	5775	19.50	15.00	
		145	5735	18.14	20.00	

5GHz WLAN	Ant 1+2=body/HotSpot					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	148	5745	16.52	17.50	97.93
		157	5785	16.67	17.50	
		165	5825	16.74	17.50	
	802.11n HT40 MCS0	148	5745	16.52	17.50	97.79
		157	5785	16.58	17.50	
		165	5825	16.70	17.50	
	802.11a+HT40 MCS0	151	5756	16.76	17.50	96.32
		159	5795		17.50	
		148	5745	16.52	17.50	
	802.11a+VHT20 MCS0	157	5785	16.75	17.50	97.43
		165	5825	16.83	17.50	
		151	5755	16.75	17.50	
802.11a+VHT40 MCS0	159	5795		17.00	96.32	
	155	5775		17.00		

5GHz WLAN		Ant 142 for Simultaneous-Handheld				
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time Up Limit	Turn Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	20.83	21.50	97.93
		157	5785	20.84	21.50	
		165	5825	20.78	21.50	
		173	5865	20.78	21.50	
		181	5905	20.78	21.50	
		189	5945	20.78	21.50	
	802.11a-HT20 MCS0	157	5785	21.58	21.50	97.79
		165	5825	21.58	21.50	
		173	5865	21.58	21.50	
		181	5905	21.58	21.50	
		189	5945	21.58	21.50	
		197	5985	21.58	21.50	
802.11ac VHT20 MCS0	149	5745	21.58	21.50	96.32	
	157	5785	21.58	21.50		
	165	5825	21.58	21.50		
	173	5865	21.58	21.50		
	181	5905	21.58	21.50		
	189	5945	21.58	21.50		
802.11ac VHT40 MCS0	149	5745	21.58	21.50	97.43	
	157	5785	21.58	21.50		
	165	5825	21.58	21.50		
	173	5865	21.58	21.50		
	181	5905	21.58	21.50		
	189	5945	21.58	21.50		
802.11ac VHT40 MCS0	155	5775	21.58	21.00	93.33	
	157	5785	21.58	21.00		



BR / EDR

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	11.13	8.58	8.55
	CH 39	2441	11.82	9.55	9.75
	CH 78	2480	10.63	7.95	8.09
Tune-up Limit			12.5	10.5	10.5

LE

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	6.88
	CH 19	2440	7.95
	CH 39	2480	6.19
Tune-up Limit			9

LE 5.0

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	7.10	7.39
	CH 19	2440	7.81	8.22
	CH 39	2480	6.30	6.53
Tune-up Limit			9	9



Appendix F. Supplemental Tuner Head & Body SAR Results

The results are shown as follows.

Head

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)											
									Auto-Tune	0	15	30	45	60	75	90	105	120	135	
FR1 n5	BPSK/DFT-15KHz	167300	836.5	1	1	Right Cheek	0mm	0.163	0.206	0.009	0.15	0.047	0.001	0.105	0.051	0.001	0.144	0.036	0.008	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)											
									Auto-Tune	1	16	31	46	61	76	91	106	121	136	
FR1 n12	DFT-15KHz	141500	707.5	1	1	Right Cheek	5mm	0.110	0.144	0.005	0.143	0.035	0.001	0.102	0.044	0.001	0.126	0.050	0.046	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)											
									Auto-Tune	2	17	32	47	62	77	92	107	122	137	
FR1 n71	BPSK/DFT-15KHz	136100	680.5	1	1	Right Cheek	0mm	0.138	0.163	0.031	0.073	0.051	0.004	0.056	0.067	0.020	0.041	0.075	0.001	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)											
									Auto-Tune	3	18	33	48	63	78	93	108	123	138	
WCDMA V	RMC12.2Kbps	4132	826.4	-	-	Right Cheek	0mm	0.257	0.284	0.122	0.009	0.228	0.092	0.000	0.165	0.114	0.010	0.192	0.029	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)											
									Auto-Tune	4	19	34	49	64	79	94	109	124	139	
WCDMA IV	RMC12.2Kbps	1513	1752.6	-	-	Right Cheek	0mm	0.143	0.167	0.178	0.157	0.123	0.107	0.158	0.157	0.145	0.029	0.082	0.082	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)											
									Auto-Tune	5	20	35	50	65	80	95	110	125	140	
WCDMA II	RMC12.2Kbps	9400	1880	-	-	Right Cheek	0mm	0.096	0.113	0.109	0.098	0.103	0.099	0.113	0.113	0.113	0.097	0.082	0.084	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)											
									Auto-Tune	6	21	36	51	66	81	96	111	126	141	
CDMA BC 0	RC3 SO55	1013	824.7	-	-	Right Cheek	0mm	0.210	0.233	0.134	0.096	0.008	0.124	0.027	0.014	0.127	0.048	0.005	0.125	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)											
									Auto-Tune	7	22	37	52	67	82	97	112	127	142	
CDMA BC 1	RC3 SO55	1175	1908.75	-	-	Right Cheek	0mm	0.083	0.096	0.085	0.095	0.070	0.083	0.088	0.090	0.099	0.093	0.075	0.068	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)											
									Auto-Tune	8	23	38	53	68	83	98	113	128	143	
CDMA BC 10	RC3 SO55	476	817.9	-	-	Right Cheek	0mm	0.219	0.241	0.204	0.212	0.032	0.105	0.160	0.016	0.136	0.104	0.011	0.081	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)											
									Auto-Tune	9	24	39	54	69	84	99	114	129		
LTE Band 71	20M/QPSK	133322	683	1	0	Right Cheek	0mm	0.152	0.163	0.001	0.148	0.049	0.000	0.102	0.036	0.000	0.056	0.024		

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)											
									Auto-Tune	10	25	40	55	70	85	100	115	130		
LTE Band 12	10M/QPSK	23095	707.5	1	0	Right Cheek	0mm	0.191	0.208	0.003	0.162	0.053	0.001	0.179	0.067	0.001	0.073	0.057		

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)											
									Auto-Tune	11	26	41	56	71	86	101	116	131		
LTE Band 13	10M/QPSK	23230	782	1	0	Right Cheek	0mm	0.187	0.204	0.027	0.167	0.131	0.022	0.073	0.196	0.004	0.118	0.172		

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)											
									Auto-Tune	12	27	42	57	72	87	102	117	132		
LTE Band 26	15M/QPSK	26965	841.5	1	0	Right Cheek	0mm	0.226	0.251	0.151	0.002	0.136	0.096	0.012	0.230	0.044	0.001	0.161		

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)											
									Auto-Tune	13	28	43	58	73	88	103	118	133		
LTE Band 66	20M/QPSK	132572	1770	1	0	Right Cheek	0mm	0.127	0.147	0.144	0.147	0.122	0.112	0.128	0.103	0.096	0.120	0.087		

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)											
									Auto-Tune	14	29	44	59	74	89	104	119	134		
LTE Band 25	20M/QPSK	26590	1905	1	0	Right Tilted	0mm	0.094	0.110	0.093	0.094	0.087	0.082	0.080	0.074	0.073	0.082	0.068		

Body

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)											
									Auto-Tune	0	15	30	45	60	75	90	105	120	135	
FR1 n5	DFT-15KHz	167300	836.5	1	1	Back	5mm	0.734	1.141	0.057	0.810	0.309	0.005	0.562	0.287	0.011	0.819	0.206	0.000	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)											
									Auto-Tune	1	16	31	46	61	76	91	106	121	136	
FR1 n12	DFT-15KHz	141500	707.5	1	1	Back	5mm	0.705	0.886	0.052	0.881	0.258	0.004	0.578	0.267	0.009	0.844	0.305	0.001	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)											
									Auto-Tune	2	17	32	47	62	77	92	107	122	137	
FR1 n71	DFT-15KHz	136100	680.5	50	0	Back	5mm	0.581	0.728	0.196	0.548	0.421	0.020	0.423	0.437	0.046	0.328	0.521	0.000	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)											
									Auto-Tune	3	18	33	48	63	78	93	108	123	138	
WCDMA V	RMC12.2Kbps	4233	846.6	-	-	Back	5mm	0.936	1.197	0.549	1.115	0.973	0.356	0.001	0.594	0.438	0.034	0.654	0.105	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)											
									Auto-Tune	4	19	34	49	64	79	94	109	124	139	
WCDMA IV	RMC12.2Kbps	1513	1752.6	-	-	Back	5mm	1.13	1.462	0.812	0.633	0.753	0.556	1.042	0.938	0.863	0.928	0.398	0.363	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)											
									Auto-Tune	5	20	35	50	65	80	95	110	125	140	
WCDMA II	RMC12.2Kbps	9262	1852.4	-	-	Bottom Side	5mm	1.17	1.531	1.423	1.305	1.455	1.280	1.438	1.530	1.511	1.450	1.026	1.019	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)											
									Auto-Tune	6	21	36	51	66	81	96	111	126	141	
CDMA BC0	RTAP 153.6Kbps	1013	824.7	-	-	Back	5mm	1.03	1.3	0.735	0.679	0.047	0.602	0.167	0.011	0.656	0.229	0.007	0.682	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)											
									Auto-Tune	7	22	37	52	67	82	97	112	127	142	
CDMA BC1	RTAP 153.6Kbps	1175	1908.75	-	-	Bottom Side	5mm	1.05	1.399	1.287	1.345	1.340	0.984	0.950	1.314	1.293	1.308	1.299	0.856	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)											
									Auto-Tune	8	23	38	53	68	83	98	113	128	143	
CDMA BC10	RTAP 153.6Kbps	580	820.5	-	-	Back	5mm	1.1	1.349	1.110	1.268	0.169	0.431	0.966	0.094	0.598	0.518	0.066	0.338	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)											
									Auto-Tune	9	24	39	54	69	84	99	114	129		
LTE Band 71	20M/QPSK	133322	683	1	0	Back	5mm	0.797	1.403	0.006	0.712	0.212	0.008	0.483	0.140	0.006	0.293	0.122		

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)											
									Auto-Tune	10	25	40	55	70	85	100	115	130		
LTE Band 12	10M/QPSK	23095	707.5	1	0	Back	5mm	1.01	1.297	0.029	1.220	0.458	0.012	1.191	0.515	0.001	0.519	0.364		

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)											
									Auto-Tune	11	26	41	56	71	86	101	116	131		
LTE Band 13	10M/QPSK	23230	782	1	0	Back	5mm	0.948	1.17	0.041	0.238	0.161	0.026	0.501	0.302	0.014	0.179	0.201		

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)											
									Auto-Tune	12	27	42	57	72	87	102	117	132		
LTE Band 26	15M/QPSK	26865	831.5	1	0	Back	5mm	1.14	1.416	0.737	0.013	0.649	0.253	0.050	0.670	0.131	0.003	0.495		

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)											
									Auto-Tune	13	28	43	58	73	88	103	118	133		
LTE Band 66	20M/QPSK	132322	1745	100	0	Back	5mm	1.17	1.531	0.827	0.446	0.716	0.634	1.409	0.625	0.507	0.991	0.460		

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)											
									Auto-Tune	14	29	44	59	74	89	104	119	134		
LTE Band 25	20M/QPSK	26590	1880	50	0	Bottom Side	5mm	1.03	1.374	1.090	1.096	1.134	1.142	1.198	0.741	1.016	1.183	0.998		

