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Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL at 5250 MHz

Impedance, transformed to feed point	50.5Ω - 3.27jΩ
Return Loss	- 29.7dB

Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point	54.2Ω + 0.81jΩ
Return Loss	- 27.8dB

Antenna Parameters with Head TSL at 5750 MHz

Impedance, transformed to feed point	49.4Ω + 1.99jΩ
Return Loss	- 33.6dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.098 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.
No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG

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DASY5 Validation Report for Head TSL Date: 10.22.2021

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 5GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1315

Communication System: CW; Frequency: 5250 MHz, Frequency: 5600 MHz, Frequency: 5750 MHz,

Medium parameters used: f = 5250 MHz; σ = 4.704 S/m; ε_r = 36.62; ρ = 1000 kg/m^3, Medium parameters used: f = 5600 MHz; σ = 5.084 S/m; ε_r = 36; ρ = 1000 kg/m^3, Medium parameters used: f = 5750 MHz; σ = 5.248 S/m; ε_r = 35.78; ρ = 1000 kg/m^3,

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7517; ConvF(5.42, 5.42, 5.42) @ 5250 MHz; ConvF(4.75, 4.75, 4.75) @ 5600 MHz; ConvF(4.82, 4.82, 4.82) @ 5750 MHz; Calibrated: 2021-02-03
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1556; Calibrated: 2021-01-15
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Dipole Calibration /Pin=100mW, d=10mm, f=5250 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 70.32 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 31.0 W/kg
SAR(1 g) = 7.66 W/kg; SAR(10 g) = 2.2 W/kg
Smallest distance from peaks to all points 3 dB below = 7.4 mm
Ratio of SAR at M2 to SAR at M1 = 65%
Maximum value of SAR (measured) = 18.2 W/kg

Dipole Calibration /Pin=100mW, d=10mm, f=5600 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 71.09 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 34.9 W/kg
SAR(1 g) = 8.17 W/kg; SAR(10 g) = 2.34 W/kg
Smallest distance from peaks to all points 3 dB below = 7.4 mm
Ratio of SAR at M2 to SAR at M1 = 63.3%
Maximum value of SAR (measured) = 19.9 W/kg

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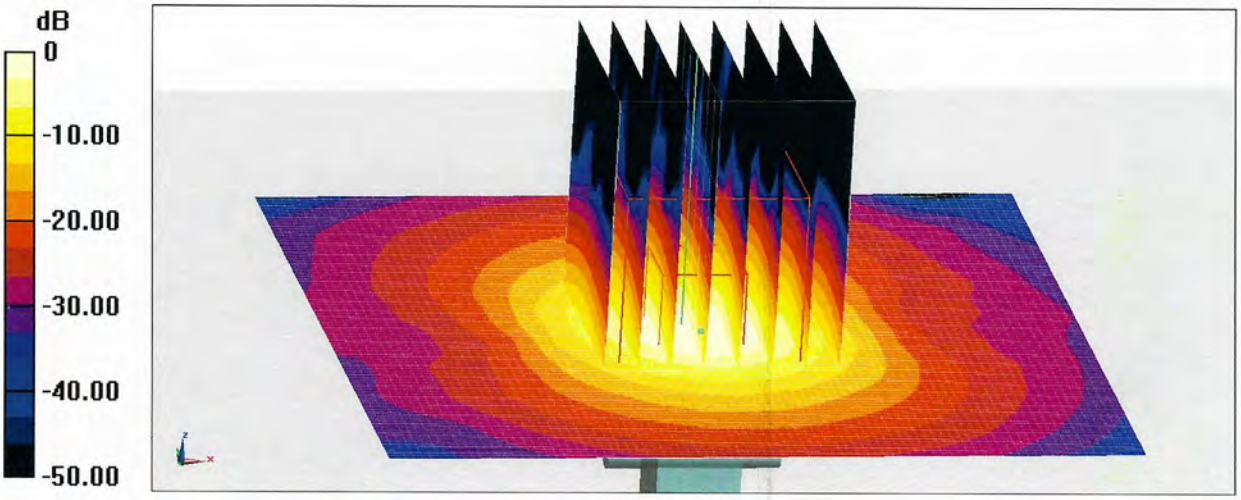
Dipole Calibration /Pin=100mW, d=10mm, f=5750 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 67.72 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 33.5 W/kg
SAR(1 g) = 7.59 W/kg; SAR(10 g) = 2.16 W/kg
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 62.4%
Maximum value of SAR (measured) = 18.6 W/kg



0 dB = 18.6 W/kg = 12.70 dBW/kg

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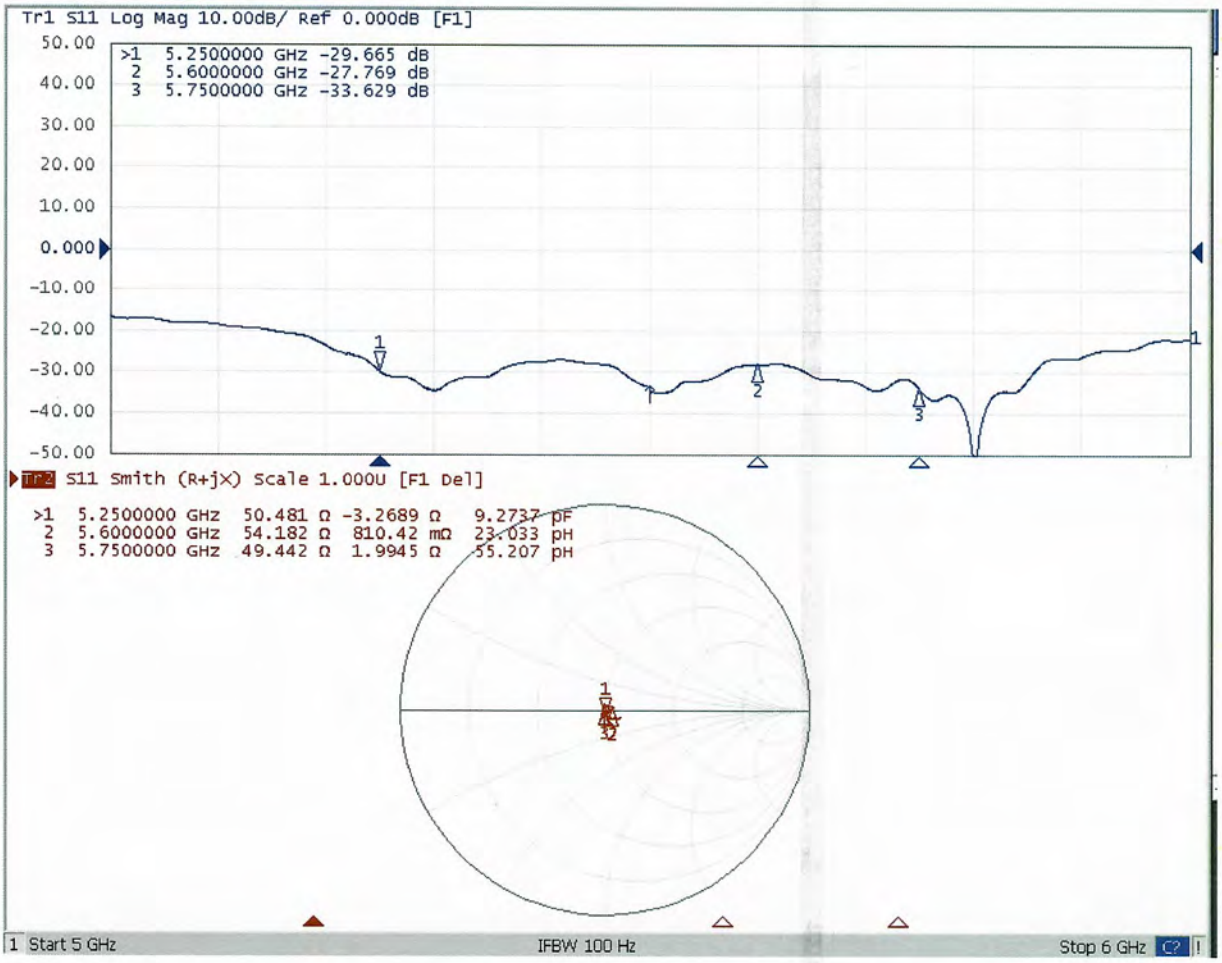
Impedance Measurement Plot for Head TSL



D5GHzV2 - SN: 1315 Extended Dipole Calibrations

Referring to KDB 865664 D01, if dipoles are verified in return loss (<-20dB, within 20% of prior calibration), and in impedance (within 5 ohm of prior calibration), the annual calibration is not necessary and the calibration interval can be extended.

D5GHzV2 - SN: 1315						
5250MHz Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
10.22.2021	-29.7		50.5		-3.27	
10.21.2022	-34.53	16.26	51.16	0.66	1.56	4.83
10.20.2023	-25.84	-12.98	54.50	4.00	-2.96	0.31

D5GHzV2 - SN: 1315						
5600MHz Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
10.22.2021	-27.8		54.2		0.81	
10.21.2022	-31.03	11.63	49.59	-4.61	-2.79	-3.60
10.20.2023	-26.15	-5.95	54.92	0.71	-1.82	-2.63

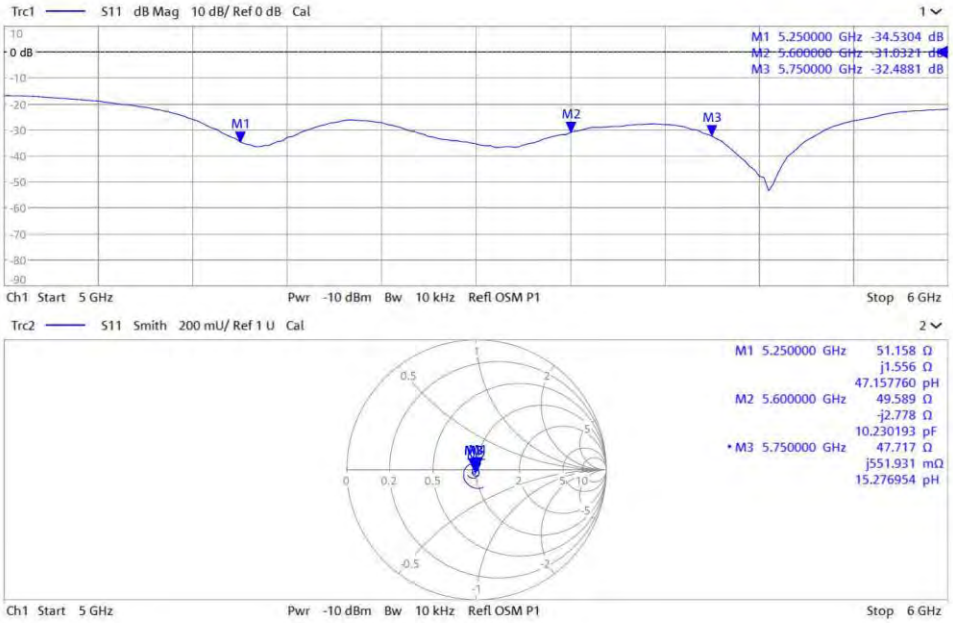
D5GHzV2 - SN: 1315						
5750MHz Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
10.22.2021	-33.6		49.4		1.99	
10.21.2022	-32.49	-3.31	47.72	-1.68	0.55	-1.44
10.20.2023	-36.43	8.41	50.87	1.47	1.34	-0.65

<Justification of the extended calibration>

The return loss is < -20dB, within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the verification result should support extended calibration.

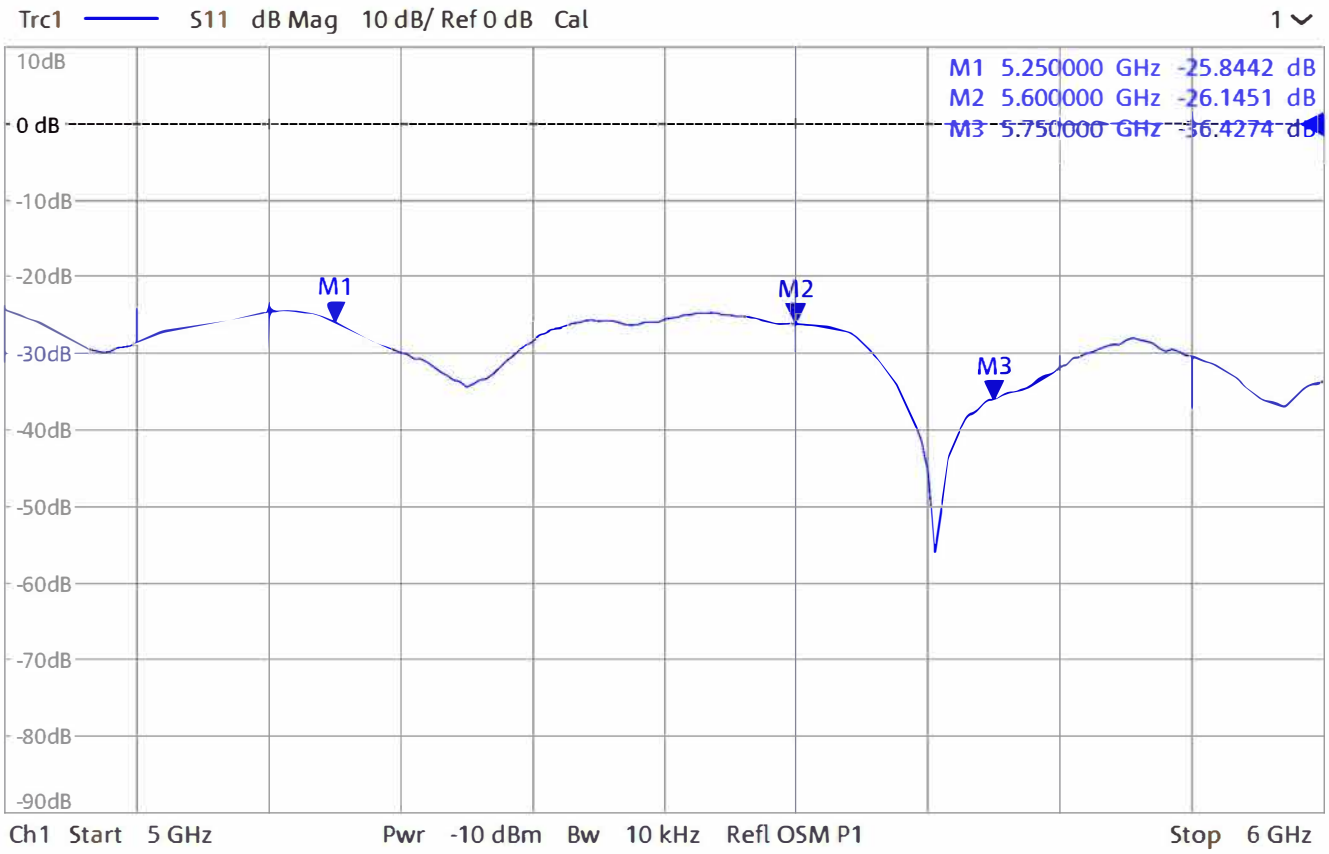
<Dipole Verification Data>

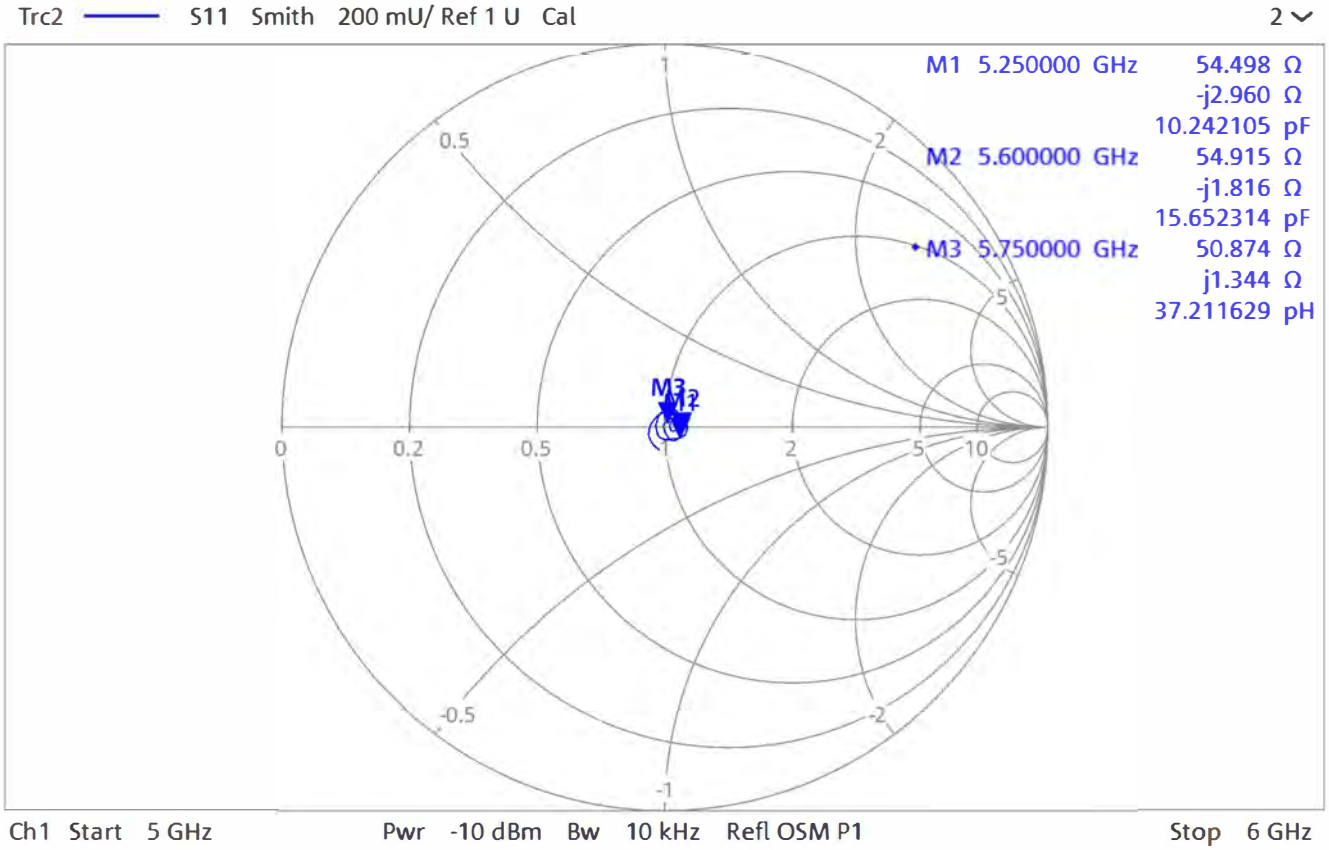
Head 5250-5750MHz _2022.10.21



<Dipole Verification Data>

Head 5250-5750MHz _2023.10.20





Appendix D. Conducted RF Output Power Table

The detailed power table are shown as follows.

<WWAN Full Power>

Band	GSM850				GSM1900			
Channel	128	189	251	Max. Tune-up Power (dBm)	512	661	810	Max. Tune-up Power (dBm)
Frequency (MHz)	824.2	836.4	848.8		1850.2	1880	1909.8	
GSM	33.42	33.48	33.37	34.50	30.02	30.26	**30.43**	31.50
GPRS 1Tx Slot	**33.56**	33.49	33.35	34.50	30.03	30.21	30.39	31.50
GPRS 2Tx Slot	32.14	32.10	32.02	33.00	29.05	29.26	29.45	30.50
GPRS 3Tx Slot	30.89	30.94	30.87	32.00	27.62	27.84	28.04	29.00
GPRS 4Tx Slot	26.78	26.91	26.84	28.00	25.84	25.98	26.04	27.00
EDGE 1Tx Slot	27.37	27.54	27.59	29.00	26.16	26.42	26.58	28.00
EDGE 2Tx Slot	25.89	25.99	25.96	27.00	25.58	25.73	25.87	27.00
EDGE 3Tx Slot	24.32	24.43	24.39	26.00	23.54	23.58	23.76	25.00
EDGE 4Tx Slot	22.25	22.29	22.27	23.00	21.62	21.69	21.83	23.00

Source-Based Time-Averaged Power								
Band	GSM850			Max. Tune-up Power (dBm)	GSM1900			Max. Tune-up Power (dBm)
Channel	128	189	251		512	661	810	
GSM	24.42	24.48	24.37	25.50	21.02	21.26	21.43	22.50
GPRS 1Tx Slot	24.56	24.49	24.35	25.50	21.03	21.21	21.39	22.50
GPRS 2Tx Slot	26.14	26.10	26.02	27.00	23.05	23.26	23.45	24.50
GPRS 3Tx Slot	26.63	26.68	26.61	27.74	23.36	23.58	23.78	24.74
GPRS 4Tx Slot	23.78	23.91	23.84	25.00	22.84	22.98	23.04	24.00
EDGE 1Tx Slot	18.37	18.54	18.59	20.00	17.16	17.42	17.58	19.00
EDGE 2Tx Slot	19.89	19.99	19.96	21.00	19.58	19.73	19.87	21.00
EDGE 3Tx Slot	20.06	20.17	20.13	21.74	19.28	19.32	19.50	20.74
EDGE 4Tx Slot	19.25	19.29	19.27	20.00	18.62	18.69	18.83	20.00

Band	WCDMA II			WCDMA II	WCDMA IV			WCDMA IV	WCDMA V			WCDMA V
TX Channel	9262	9400	9538	Max. Tune-up Power (dBm)	1312	1413	1513	Max. Tune-up Power (dBm)	4132	4182	4233	Max. Tune-up Power (dBm)
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
RMC 12.2K	24.52	24.69	**24.73**	**25.50**	24.80	**24.83**	24.75	**25.50**	24.01	24.47	**24.59**	**25.50**
HSDPA Subtest-1	23.71	23.89	23.88	**24.50**	23.91	24.05	23.89	**24.50**	23.23	23.62	23.79	**24.50**
HSDPA Subtest-2	23.65	23.83	23.91	**24.50**	23.90	23.99	23.88	**24.50**	23.18	23.56	23.84	**24.50**
HSDPA Subtest-3	23.17	23.39	23.45	**24.00**	23.53	23.55	23.39	**24.00**	22.69	23.11	23.29	**24.00**
HSDPA Subtest-4	23.13	23.33	23.32	**24.00**	23.45	23.50	23.39	**24.00**	22.72	23.13	23.29	**24.00**
DC-HSDPA Subtest-1	23.63	23.83	23.78	**24.50**	23.89	23.98	23.79	**24.50**	23.07	23.63	23.64	**24.50**
DC-HSDPA Subtest-2	23.65	23.72	23.83	**24.50**	23.92	23.98	23.81	**24.50**	23.16	23.60	23.62	**24.50**
DC-HSDPA Subtest-3	23.24	23.22	23.40	**24.00**	23.51	23.39	23.33	**24.00**	22.63	23.01	23.25	**24.00**
DC-HSDPA Subtest-4	23.17	23.25	23.34	**24.00**	23.46	23.43	23.36	**24.00**	22.66	23.03	23.17	**24.00**
HSUPA Subtest-1	23.69	23.86	23.94	**24.50**	23.97	24.01	23.92	**24.50**	23.09	23.67	23.68	**24.50**
HSUPA Subtest-2	22.68	22.88	22.94	**23.50**	22.90	22.88	22.88	**23.50**	22.10	22.59	22.70	**23.50**
HSUPA Subtest-3	23.19	23.23	23.31	**24.00**	23.36	23.47	23.37	**24.00**	22.66	23.15	23.28	**24.00**
HSUPA Subtest-4	22.64	22.79	22.88	**23.50**	22.95	22.91	22.80	**23.50**	22.14	22.60	22.74	**23.50**
HSUPA Subtest-5	23.67	23.82	23.87	**24.50**	23.87	23.98	23.79	**24.50**	23.03	23.60	23.63	**24.50**

Band	CDMA BC0			Tune-up Limit (dBm)	CDMA BC1			Tune-up Limit (dBm)
TX Channel	1013	384	777		25	600	1175	
Frequency (MHz)	824.7	836.52	848.31		1851.25	1880	1908.75	
RC1 SO55	23.74	23.95	23.09	25.00	24.73	24.68	24.79	25.50
RC3 SO55	23.89	24.17	23.32	25.00	24.86	24.98	24.83	25.50
RC3 SO32 (F+SCH)	23.77	23.86	22.98	25.00	24.92	24.88	24.85	25.50
RC3 SO32 (+SCH)	23.57	23.87	22.95	25.00	24.95	24.96	24.95	25.50
RTAP 153.6Kbps	23.81	24.16	23.31	25.00	24.93	24.92	24.90	25.50
RETAP 4096Bits	23.80	24.15	23.29	25.00	24.90	24.95	24.88	25.50

LTE Band 2

BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		18700	18900	19100		
		Frequency (MHz)		1860	1880	1900		
20M	QPSK	1	0	22.32	22.45	22.62	0	23.5
		1	50	22.42	22.62	**22.69**	0	23.5
		1	99	22.02	22.17	22.22	0	23.5
		50	0	21.51	21.72	21.79	1	22.5
		50	25	21.56	21.76	**21.81**	1	22.5
		50	50	21.36	21.62	21.66	1	22.5
		100	0	21.46	21.68	21.69	1	22.5
	16QAM	1	0	21.58	21.78	21.82	1	22.5
		1	50	21.74	21.86	21.93	1	22.5
		1	99	21.31	21.42	21.47	1	22.5
		50	0	20.50	20.73	20.77	2	21.5
		50	25	20.60	20.77	20.82	2	21.5
		50	50	20.41	20.55	20.63	2	21.5
		100	0	20.49	20.63	20.70	2	21.5
	64QAM	1	0	20.48	20.73	20.76	2	21.5
		1	50	20.65	20.62	20.79	2	21.5
		1	99	20.15	20.29	20.31	2	21.5
		50	0	19.48	19.68	19.75	3	20.5
		50	25	19.56	19.79	19.80	3	20.5
		50	50	19.38	19.56	19.63	3	20.5
		100	0	19.41	19.65	19.70	3	20.5
BW	Modulation	Channel		18675	18900	19125	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1857.5	1880	1902.5		
15M	QPSK	1	0	22.30	22.43	**22.58**	0	23.5
		1	37	22.28	**22.58**	22.57	0	23.5
		1	74	21.90	22.13	22.10	0	23.5
		36	0	21.40	21.60	**21.71**	1	22.5
		36	19	21.41	21.63	21.64	1	22.5
		36	39	21.30	21.50	21.57	1	22.5
		75	0	21.34	21.61	21.60	1	22.5
	16QAM	1	0	21.43	21.64	21.69	1	22.5
		1	37	21.62	21.76	21.84	1	22.5
		1	74	21.20	21.37	21.41	1	22.5
		36	0	20.39	20.59	20.62	2	21.5
		36	19	20.46	20.62	20.80	2	21.5
		36	39	20.39	20.41	20.59	2	21.5
		75	0	20.36	20.53	20.64	2	21.5
	64QAM	1	0	20.45	20.63	20.73	2	21.5
		1	37	20.61	20.60	20.73	2	21.5
		1	74	20.12	20.16	20.25	2	21.5
		36	0	19.33	19.67	19.61	3	20.5
		36	19	19.54	19.67	19.74	3	20.5
		36	39	19.30	19.46	19.59	3	20.5
		75	0	19.32	19.52	19.62	3	20.5
BW	Modulation	Channel		18650	18900	19150	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1855	1880	1905		
10M	QPSK	1	0	22.20	22.37	22.55	0	23.5
		1	24	22.29	22.55	**22.61**	0	23.5
		1	49	21.91	22.07	22.11	0	23.5
		25	0	21.39	**21.73**	21.65	1	22.5
		25	12	21.51	21.64	21.68	1	22.5
		25	25	21.21	21.56	21.65	1	22.5
		50	0	21.32	21.65	21.64	1	22.5
	16QAM	1	0	21.45	21.77	21.74	1	22.5
		1	24	21.72	21.82	21.91	1	22.5
		1	49	21.28	21.38	21.45	1	22.5
		25	0	20.47	20.68	20.66	2	21.5
		25	12	20.49	20.67	20.69	2	21.5
		25	25	20.27	20.47	20.48	2	21.5
		50	0	20.37	20.62	20.63	2	21.5
	64QAM	1	0	20.37	20.63	20.68	2	21.5
		1	24	20.56	20.54	20.65	2	21.5
		1	49	20.12	20.15	20.25	2	21.5
		25	0	19.39	19.63	19.70	3	20.5
		25	12	19.46	19.77	19.68	3	20.5
		25	25	19.26	19.55	19.61	3	20.5
		50	0	19.33	19.62	19.66	3	20.5
BW	Modulation	Channel		18625	18900	19175	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1852.5	1880	1907.5		
5M	QPSK	1	0	22.17	22.36	22.50	0	23.5
		1	12	22.35	**22.61**	22.58	0	23.5
		1	24	21.89	22.10	22.12	0	23.5
		12	0	21.39	21.70	21.64	1	22.5
		12	6	21.43	21.66	**21.78**	1	22.5
		12	13	21.34	21.52	21.64	1	22.5
		25	0	21.34	21.67	21.65	1	22.5
	16QAM	1	0	21.50	21.65	21.70	1	22.5
		1	12	21.71	21.82	21.90	1	22.5
		1	24	21.28	21.35	21.45	1	22.5
		12	0	20.41	20.67	20.70	2	21.5
		12	6	20.48	20.69	20.81	2	21.5
		12	13	20.27	20.42	20.49	2	21.5
		25	0	20.47	20.51	20.63	2	21.5
	64QAM	1	0	20.38	20.68	20.70	2	21.5
		1	12	20.58	20.55	20.65	2	21.5
		1	24	20.01	20.16	20.22	2	21.5
		12	0	19.37	19.63	19.64	3	20.5
		12	6	19.44	19.76	19.72	3	20.5
		12	13	19.27	19.54	19.61	3	20.5
		25	0	19.37	19.60	19.65	3	20.5
BW	Modulation	Channel		18615	18900	19185	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1851.5	1880	1908.5		
3M	QPSK	1	0	22.22	22.38	22.48	0	23.5
		1	7	22.29	22.54	**22.64**	0	23.5
		1	14	21.91	22.08	22.13	0	23.5
		8	0	21.42	21.60	21.72	1	22.5
		8	3	21.47	**21.74**	21.71	1	22.5
		8	7	21.22	21.54	21.54	1	22.5
		15	0	21.38	21.55	21.67	1	22.5
	16QAM	1	0	21.45	21.64	21.76	1	22.5
		1	7	21.67	21.81	21.89	1	22.5
		1	14	21.26	21.36	21.32	1	22.5
		8	0	20.49	20.63	20.70	2	21.5
		8	3	20.51	20.69	20.70	2	21.5
		8	7	20.33	20.40	20.55	2	21.5
		15	0	20.35	20.60	20.61	2	21.5
	64QAM	1	0	20.37	20.71	20.74	2	21.5
		1	7	20.51	20.60	20.69	2	21.5
		1	14	20.02	20.16	20.29	2	21.5
		8	0	19.45	19.67	19.63	3	20.5
		8	3	19.45	19.65	19.66	3	20.5
		8	7	19.36	19.48	19.49	3	20.5
		15	0	19.39	19.64	19.58	3	20.5
BW	Modulation	Channel		18607	18900	19193	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1850.7	1880	1909.3		
1.4M	QPSK	1	0	22.23	22.43	22.58	0	23.5
		1	2	22.36	22.48	**22.61**	0	23.5
		1	5	21.98	22.12	22.10	0	23.5
		3	0	22.29	22.48	22.54	0	23.5
		3	1	22.25	**22.57**	22.51	0	23.5
		3	3	22.17	22.41	22.34	0	23.5
		6	0	21.36	21.65	21.57	1	22.5
	16QAM	1	0	21.55	21.70	21.75	1	22.5
		1	2	21.65	21.77	21.81	1	22.5
		1	5	21.17	21.37	21.43	1	22.5
		3	0	21.22	21.50	21.49	1	22.5
		3	1	21.40	21.56	21.56	1	22.5
		3	3	21.13	21.22	21.32	1	22.5
		6	0	20.43	20.57	20.67	2	21.5
	64QAM	1	0	20.44	20.71	20.75	2	21.5
		1	2	20.64	20.60	20.73	2	21.5
		1	5	20.04	20.17	20.28	2	21.5
		3	0	20.16	20.47	20.43	2	21.5
		3	1	20.29	20.60	20.57	2	21.5
		3	3	20.12	20.28	20.43	2	21.5
		6	0	19.36	19.53	19.63	3	20.5

LTE Band 4

BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		20050	20175	20300		
		Frequency (MHz)		1720	1732.5	1745		
20M	QPSK	1	0	23.20	23.24	23.21	0	24.5
		1	50	23.57	**23.59**	23.43	0	24.5
		1	99	23.49	23.52	23.35	0	24.5
		50	0	22.64	22.66	22.56	1	23.5
		50	25	22.51	22.64	22.58	1	23.5
		50	50	22.68	**22.71**	22.69	1	23.5
		100	0	22.58	22.61	22.55	1	23.5
	16QAM	1	0	22.21	22.34	22.18	1	23.5
		1	50	22.39	22.53	22.52	1	23.5
		1	99	22.58	22.61	22.51	1	23.5
		50	0	21.53	21.57	21.51	2	22.5
		50	25	21.51	21.56	21.52	2	22.5
		50	50	21.61	21.66	21.65	2	22.5
		100	0	21.55	21.59	21.48	2	22.5
	64QAM	1	0	21.49	21.43	21.41	2	22.5
		1	50	21.67	21.63	21.32	2	22.5
		1	99	21.61	21.31	21.45	2	22.5
		50	0	20.67	20.46	20.55	3	21.5
		50	25	20.60	20.55	20.54	3	21.5
		50	50	20.66	20.42	20.65	3	21.5
		100	0	20.58	20.44	20.49	3	21.5
BW	Modulation	Channel		20025	20175	20325	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1717.5	1732.5	1747.5		
15M	QPSK	1	0	23.12	23.11	23.10	0	24.5
		1	37	**23.56**	23.50	23.32	0	24.5
		1	74	23.41	23.37	23.30	0	24.5
		36	0	22.61	22.57	22.55	1	23.5
		36	19	22.42	22.56	22.48	1	23.5
		36	39	22.55	22.57	**22.63**	1	23.5
		75	0	22.48	22.46	22.44	1	23.5
	16QAM	1	0	22.06	22.27	22.08	1	23.5
		1	37	22.24	22.51	22.37	1	23.5
		1	74	22.51	22.56	22.40	1	23.5
		36	0	21.41	21.52	21.50	2	22.5
		36	19	21.40	21.43	21.41	2	22.5
		36	39	21.53	21.51	21.63	2	22.5
		75	0	21.49	21.44	21.33	2	22.5
	64QAM	1	0	21.35	21.28	21.26	2	22.5
		1	37	21.56	21.50	21.26	2	22.5
		1	74	21.46	21.17	21.43	2	22.5
		36	0	20.66	20.41	20.43	3	21.5
		36	19	20.55	20.49	20.42	3	21.5
		36	39	20.53	20.41	20.56	3	21.5
		75	0	20.46	20.33	20.48	3	21.5
BW	Modulation	Channel		20000	20175	20350	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1715	1732.5	1750		
10M	QPSK	1	0	23.12	23.19	23.19	0	24.5
		1	24	23.56	**23.57**	23.30	0	24.5
		1	49	23.38	23.42	23.26	0	24.5
		25	0	22.55	22.60	22.48	1	23.5
		25	12	22.46	22.51	22.53	1	23.5
		25	25	22.61	**22.67**	22.63	1	23.5
		50	0	22.52	22.47	22.47	1	23.5
	16QAM	1	0	22.06	22.21	22.17	1	23.5
		1	24	22.29	22.41	22.39	1	23.5
		1	49	22.48	22.59	22.43	1	23.5
		25	0	21.51	21.46	21.39	2	22.5
		25	12	21.48	21.55	21.42	2	22.5
		25	25	21.58	21.52	21.64	2	22.5
		50	0	21.42	21.57	21.47	2	22.5
	64QAM	1	0	21.48	21.28	21.35	2	22.5
		1	24	21.64	21.59	21.28	2	22.5
		1	49	21.57	21.25	21.34	2	22.5
		25	0	20.55	20.32	20.43	3	21.5
		25	12	20.50	20.54	20.41	3	21.5
		25	25	20.58	20.33	20.59	3	21.5
		50	0	20.43	20.40	20.40	3	21.5
BW	Modulation	Channel		19975	20175	20375	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1712.5	1732.5	1752.5		
5M	QPSK	1	0	23.06	23.14	23.19	0	24.5
		1	12	**23.55**	23.47	23.30	0	24.5
		1	24	23.48	23.39	23.32	0	24.5
		12	0	22.57	22.59	22.43	1	23.5
		12	6	22.47	22.52	22.44	1	23.5
		12	13	22.56	22.58	**22.60**	1	23.5
		25	0	22.46	22.48	22.41	1	23.5
	16QAM	1	0	22.18	22.30	22.16	1	23.5
		1	12	22.36	22.43	22.39	1	23.5
		1	24	22.54	22.52	22.40	1	23.5
		12	0	21.46	21.53	21.41	2	22.5
		12	6	21.44	21.50	21.42	2	22.5
		12	13	21.48	21.56	21.59	2	22.5
		25	0	21.47	21.53	21.45	2	22.5
	64QAM	1	0	21.46	21.39	21.28	2	22.5
		1	12	21.62	21.62	21.20	2	22.5
		1	24	21.48	21.30	21.30	2	22.5
		12	0	20.60	20.35	20.46	3	21.5
		12	6	20.56	20.45	20.50	3	21.5
		12	13	20.54	20.27	20.63	3	21.5
		25	0	20.47	20.34	20.42	3	21.5
BW	Modulation	Channel		19965	20175	20385	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1711.5	1732.5	1753.5		
3M	QPSK	1	0	23.11	23.12	23.15	0	24.5
		1	7	**23.56**	23.46	23.28	0	24.5
		1	14	23.42	23.45	23.30	0	24.5
		8	0	22.52	22.52	22.45	1	23.5
		8	3	22.49	22.55	22.51	1	23.5
		8	7	22.56	**22.62**	22.56	1	23.5
		15	0	22.53	22.54	22.45	1	23.5
	16QAM	1	0	22.06	22.23	22.07	1	23.5
		1	7	22.35	22.39	22.45	1	23.5
		1	14	22.43	22.56	22.43	1	23.5
		8	0	21.43	21.51	21.46	2	22.5
		8	3	21.42	21.47	21.37	2	22.5
		8	7	21.46	21.61	21.58	2	22.5
		15	0	21.43	21.49	21.34	2	22.5
	64QAM	1	0	21.47	21.40	21.28	2	22.5
		1	7	21.63	21.56	21.31	2	22.5
		1	14	21.56	21.20	21.32	2	22.5
		8	0	20.58	20.45	20.53	3	21.5
		8	3	20.52	20.50	20.44	3	21.5
		8	7	20.53	20.36	20.57	3	21.5
		15	0	20.44	20.39	20.36	3	21.5
BW	Modulation	Channel		19957	20175	20393	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1710.7	1732.5	1754.3		
1.4M	QPSK	1	0	23.10	23.18	23.10	0	24.5
		1	2	23.42	**23.47**	23.34	0	24.5
		1	5	23.43	23.42	23.30	0	24.5
		3	0	23.42	23.36	23.31	0	24.5
		3	1	23.26	23.45	23.28	0	24.5
		3	3	23.43	23.43	**23.47**	0	24.5
		6	0	22.47	22.49	22.47	1	23.5
	16QAM	1	0	22.07	22.33	22.11	1	23.5
		1	2	22.31	22.52	22.44	1	23.5
		1	5	22.53	22.60	22.43	1	23.5
		3	0	22.25	22.38	22.28	1	23.5
		3	1	22.27	22.36	22.31	1	23.5
		3	3	22.37	22.47	22.45	1	23.5
		6	0	21.51	21.54	21.33	2	22.5
	64QAM	1	0	21.38	21.31	21.39	2	22.5
		1	2	21.53	21.52	21.30	2	22.5
		1	5	21.54	21.27	21.30	2	22.5
		3	0	21.35	21.19	21.23	2	22.5
		3	1	21.41	21.36	21.25	2	22.5
		3	3	21.46	21.15	21.41	2	22.5
		6	0	20.54	20.39	20.45	3	21.5

LTE Band 5

BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		20450	20525	20600		
		Frequency (MHz)		829	836.5	844		
10M	QPSK	1	0	23.48	**23.73**	23.52	0	24.5
		1	24	23.44	23.42	23.45	0	24.5
		1	49	23.20	23.23	23.18	0	24.5
		25	0	22.71	**22.73**	22.63	1	23.5
		25	12	22.70	22.56	22.61	1	23.5
		25	25	22.69	22.52	22.62	1	23.5
		50	0	22.83	22.87	22.71	1	23.5
	16QAM	1	0	22.97	22.98	22.69	1	23.5
		1	24	22.95	22.74	22.72	1	23.5
		1	49	22.96	22.45	22.37	1	23.5
		25	0	21.81	21.54	21.59	2	22.5
		25	12	21.85	21.51	21.73	2	22.5
		25	25	21.84	21.66	21.67	2	22.5
		50	0	21.90	21.63	21.65	2	22.5
	64QAM	1	0	21.97	21.83	21.74	2	22.5
		1	24	21.89	21.67	21.65	2	22.5
		1	49	21.99	21.52	21.62	2	22.5
		25	0	20.72	20.59	20.56	3	21.5
		25	12	20.82	20.68	20.67	3	21.5
		25	25	20.81	20.66	20.59	3	21.5
		50	0	20.85	20.69	20.73	3	21.5
BW	Modulation	Channel		20425	20525	20625	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		826.5	836.5	846.5		
5M	QPSK	1	0	23.40	**23.64**	23.38	0	24.5
		1	12	23.31	23.40	23.41	0	24.5
		1	24	23.16	23.22	23.07	0	24.5
		12	0	22.62	22.65	22.55	1	23.5
		12	6	**22.68**	22.42	22.54	1	23.5
		12	13	22.65	22.51	22.54	1	23.5
		25	0	22.74	22.85	22.56	1	23.5
	16QAM	1	0	22.84	22.88	22.67	1	23.5
		1	12	22.92	22.71	22.70	1	23.5
		1	24	22.94	22.41	22.33	1	23.5
		12	0	21.69	21.48	21.47	2	22.5
		12	6	21.79	21.41	21.58	2	22.5
		12	13	21.83	21.51	21.56	2	22.5
		25	0	21.86	21.58	21.64	2	22.5
	64QAM	1	0	21.82	21.74	21.67	2	22.5
		1	12	21.88	21.66	21.62	2	22.5
		1	24	21.89	21.50	21.54	2	22.5
		12	0	20.66	20.48	20.54	3	21.5
		12	6	20.76	20.66	20.60	3	21.5
		12	13	20.71	20.56	20.47	3	21.5
		25	0	20.80	20.56	20.59	3	21.5
BW	Modulation	Channel		20415	20525	20635	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		825.5	836.5	847.5		
3M	QPSK	1	0	23.33	**23.65**	23.40	0	24.5
		1	7	23.30	23.33	23.42	0	24.5
		1	14	23.14	23.09	23.09	0	24.5
		8	0	**22.72**	22.68	22.57	1	23.5
		8	3	22.65	22.48	22.52	1	23.5
		8	7	22.56	22.38	22.57	1	23.5
		15	0	22.81	22.84	22.57	1	23.5
	16QAM	1	0	22.88	22.95	22.56	1	23.5
		1	7	22.86	22.62	22.58	1	23.5
		1	14	22.92	22.39	22.35	1	23.5
		8	0	21.68	21.45	21.50	2	22.5
		8	3	21.71	21.48	21.68	2	22.5
		8	7	21.79	21.64	21.65	2	22.5
		15	0	21.83	21.56	21.57	2	22.5
	64QAM	1	0	21.91	21.72	21.70	2	22.5
		1	7	21.75	21.58	21.64	2	22.5
		1	14	21.84	21.39	21.51	2	22.5
		8	0	20.70	20.45	20.47	3	21.5
		8	3	20.78	20.53	20.57	3	21.5
		8	7	20.66	20.53	20.56	3	21.5
		15	0	20.80	20.55	20.59	3	21.5
BW	Modulation	Channel		20407	20525	20643	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		824.7	836.5	848.3		
1.4M	QPSK	1	0	23.38	23.49	**23.66**	0	24.5
		1	2	23.34	23.29	23.44	0	24.5
		1	5	23.14	23.10	23.04	0	24.5
		3	0	23.59	**23.69**	23.49	0	24.5
		3	1	23.63	23.47	23.54	0	24.5
		3	3	23.61	23.41	23.48	0	24.5
		6	0	22.71	22.78	22.65	1	23.5
	16QAM	1	0	22.83	22.93	22.55	1	23.5
		1	2	22.86	22.65	22.70	1	23.5
		1	5	22.89	22.44	22.25	1	23.5
		3	0	22.70	22.50	22.48	1	23.5
		3	1	22.84	22.48	22.64	1	23.5
		3	3	22.69	22.63	22.55	1	23.5
		6	0	21.75	21.49	21.57	2	22.5
	64QAM	1	0	21.91	21.71	21.67	2	22.5
		1	2	21.81	21.58	21.52	2	22.5
		1	5	21.90	21.49	21.61	2	22.5
		3	0	21.58	21.47	21.45	2	22.5
		3	1	21.76	21.63	21.53	2	22.5
		3	3	21.66	21.61	21.48	2	22.5
		6	0	20.78	20.55	20.65	3	21.5

LTE Band 7

BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		20850	21100	21350		
		Frequency (MHz)		2510	2535	2560		
20M	QPSK	1	0	24.05	24.05	24.09	0	25
		1	50	24.15	24.11	**24.18**	0	25
		1	99	23.75	23.87	23.88	0	25
		50	0	23.19	23.16	23.18	1	24
		50	25	23.22	23.18	**23.25**	1	24
		50	50	23.05	23.01	23.09	1	24
		100	0	23.07	22.93	23.14	1	24
	16QAM	1	0	23.14	23.13	23.08	1	24
		1	50	23.10	23.51	23.30	1	24
		1	99	22.77	22.97	22.24	1	24
		50	0	22.39	21.91	22.21	2	23
		50	25	22.27	22.23	22.28	2	23
		50	50	22.09	22.02	22.16	2	23
		100	0	22.16	22.11	22.23	2	23
	64QAM	1	0	22.01	22.05	21.89	2	23
		1	50	22.28	22.12	21.99	2	23
		1	99	22.02	22.17	21.77	2	23
		50	0	20.98	20.75	20.67	3	22
		50	25	20.89	20.97	20.64	3	22
		50	50	20.64	20.79	20.61	3	22
		100	0	20.75	20.75	20.54	3	22
BW	Modulation	Channel		20625	21100	21575	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2507.5	2535	2562.5		
15M	QPSK	1	0	23.94	23.90	24.00	0	25
		1	37	**24.12**	23.96	24.05	0	25
		1	74	23.73	23.82	23.80	0	25
		36	0	23.04	**23.22**	23.09	1	24
		36	19	23.14	23.07	23.17	1	24
		36	39	22.96	22.89	23.02	1	24
		75	0	23.02	22.89	23.00	1	24
	16QAM	1	0	23.10	22.99	22.93	1	24
		1	37	23.08	23.39	23.22	1	24
		1	74	22.68	22.83	22.22	1	24
		36	0	22.30	21.83	22.16	2	23
		36	19	22.13	22.14	22.25	2	23
		36	39	21.99	22.01	22.15	2	23
		75	0	22.15	21.96	22.15	2	23
	64QAM	1	0	21.92	22.01	21.74	2	23
		1	37	22.18	22.03	21.94	2	23
		1	74	21.98	22.07	21.65	2	23
		36	0	20.91	20.70	20.59	3	22
		36	19	20.87	20.88	20.60	3	22
		36	39	20.55	20.66	20.55	3	22
		75	0	20.73	20.68	20.53	3	22
BW	Modulation	Channel		20800	21100	21400	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2505	2535	2565		
10M	QPSK	1	0	24.02	24.02	23.94	0	25
		1	24	24.04	24.06	**24.13**	0	25
		1	49	23.60	23.73	23.73	0	25
		25	0	23.07	23.03	23.10	1	24
		25	12	**23.17**	23.15	23.16	1	24
		25	25	22.94	22.92	22.94	1	24
		50	0	22.96	22.82	23.06	1	24
	16QAM	1	0	23.02	22.98	23.01	1	24
		1	24	22.95	23.46	23.20	1	24
		1	49	22.68	22.84	22.16	1	24
		25	0	22.27	21.88	22.17	2	23
		25	12	22.16	22.20	22.15	2	23
		25	25	21.95	21.97	22.11	2	23
		50	0	22.13	22.01	22.11	2	23
	64QAM	1	0	21.94	21.94	21.87	2	23
		1	24	22.22	22.05	21.92	2	23
		1	49	22.01	22.08	21.69	2	23
		25	0	20.88	20.64	20.53	3	22
		25	12	20.77	20.90	20.51	3	22
		25	25	20.63	20.65	20.59	3	22
		50	0	20.63	20.63	20.50	3	22
BW	Modulation	Channel		20775	21100	21425	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2502.5	2535	2567.5		
5M	QPSK	1	0	24.04	23.97	24.06	0	25
		1	12	24.02	**24.16**	24.08	0	25
		1	24	23.70	23.74	23.82	0	25
		12	0	23.06	23.03	23.07	1	24
		12	6	23.09	23.14	**23.22**	1	24
		12	13	23.01	22.95	23.06	1	24
		25	0	22.97	22.90	23.01	1	24
	16QAM	1	0	23.06	23.11	22.98	1	24
		1	12	23.02	23.46	23.17	1	24
		1	24	22.68	22.89	22.20	1	24
		12	0	22.34	21.85	22.11	2	23
		12	6	22.14	22.17	22.13	2	23
		12	13	22.08	21.91	22.07	2	23
		25	0	22.07	21.97	22.15	2	23
	64QAM	1	0	21.91	22.04	21.79	2	23
		1	12	22.19	22.03	21.90	2	23
		1	24	21.96	22.05	21.76	2	23
		12	0	20.91	20.62	20.52	3	22
		12	6	20.74	20.93	20.53	3	22
		12	13	20.52	20.72	20.47	3	22
		25	0	20.70	20.67	20.46	3	22

LTE Band 12

BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		23060	23095	23130		
		Frequence (MHz)		704	707.5	711		
10M	QPSK	1	0	23.52	**23.63**	23.56	0	24.5
		1	24	23.16	23.45	23.14	0	24.5
		1	49	23.27	23.53	23.30	0	24.5
		25	0	22.45	**22.58**	22.43	1	23.5
		25	12	22.42	22.55	22.41	1	23.5
		25	25	22.35	22.47	22.10	1	23.5
		50	0	22.47	22.56	22.54	1	23.5
	16QAM	1	0	22.56	22.69	22.71	1	23.5
		1	24	22.51	22.68	22.48	1	23.5
		1	49	22.57	22.70	22.44	1	23.5
		25	0	21.50	21.62	21.47	2	22.5
		25	12	21.47	21.64	21.51	2	22.5
		25	25	21.45	21.50	21.44	2	22.5
		50	0	21.51	21.64	21.48	2	22.5
	64QAM	1	0	21.62	21.78	21.68	2	22.5
		1	24	21.60	21.79	21.52	2	22.5
		1	49	21.56	21.62	21.14	2	22.5
		25	0	20.51	20.65	20.23	3	21.5
		25	12	20.44	20.57	20.47	3	21.5
		25	25	20.41	20.62	20.48	3	21.5
		50	0	20.51	20.63	20.41	3	21.5
BW	MCS Index	Channel		23035	23095	23155	3GPP MPR	Max. Tune-up
		Frequence (MHz)		701.5	707.5	713.5		
5M	QPSK	1	0	23.42	23.44	**23.47**	0	24.5
		1	12	23.09	23.31	23.03	0	24.5
		1	24	23.24	23.44	23.29	0	24.5
		12	0	22.43	22.42	22.34	1	23.5
		12	6	**22.51**	22.45	22.27	1	23.5
		12	13	22.31	22.36	22.07	1	23.5
		25	0	22.36	22.49	22.51	1	23.5
	16QAM	1	0	22.45	22.59	22.64	1	23.5
		1	12	22.36	22.55	22.41	1	23.5
		1	24	22.52	22.61	22.42	1	23.5
		12	0	21.47	21.47	21.36	2	22.5
		12	6	21.41	21.51	21.48	2	22.5
		12	13	21.34	21.37	21.31	2	22.5
		25	0	21.41	21.43	21.40	2	22.5
	64QAM	1	0	21.56	21.75	21.64	2	22.5
		1	12	21.57	21.65	21.43	2	22.5
		1	24	21.53	21.50	21.12	2	22.5
		12	0	20.44	20.51	20.17	3	21.5
		12	6	20.34	20.47	20.38	3	21.5
		12	13	20.34	20.50	20.41	3	21.5
		25	0	20.47	20.56	20.33	3	21.5
BW	MCS Index	Channel		23025	23095	23165	3GPP MPR	Max. Tune-up
		Frequence (MHz)		700.5	707.5	714.5		
3M	QPSK	1	0	23.41	**23.62**	23.46	0	24.5
		1	7	23.15	23.32	23.03	0	24.5
		1	14	23.18	23.45	23.25	0	24.5
		8	0	**22.54**	22.52	22.31	1	23.5
		8	3	22.37	22.40	22.36	1	23.5
		8	7	22.26	22.36	22.04	1	23.5
		15	0	22.42	22.54	22.43	1	23.5
	16QAM	1	0	22.45	22.68	22.68	1	23.5
		1	7	22.41	22.59	22.46	1	23.5
		1	14	22.52	22.63	22.35	1	23.5
		8	0	21.49	21.48	21.43	2	22.5
		8	3	21.33	21.53	21.49	2	22.5
		8	7	21.34	21.42	21.33	2	22.5
		15	0	21.36	21.42	21.40	2	22.5
	64QAM	1	0	21.59	21.65	21.67	2	22.5
		1	7	21.56	21.70	21.37	2	22.5
		1	14	21.41	21.48	21.09	2	22.5
		8	0	20.40	20.56	20.15	3	21.5
		8	3	20.42	20.46	20.40	3	21.5
		8	7	20.29	20.54	20.40	3	21.5
		15	0	20.39	20.55	20.40	3	21.5
BW	MCS Index	Channel		23017	23095	23173	3GPP MPR	Max. Tune-up
		Frequence (MHz)		699.7	707.5	715.3		
1.4M	QPSK	1	0	**23.50**	**23.50**	23.43	0	24.5
		1	2	23.01	23.32	22.99	0	24.5
		1	5	23.18	23.41	23.22	0	24.5
		3	0	23.16	**23.29**	23.11	0	24.5
		3	1	23.10	23.25	23.13	0	24.5
		3	3	23.16	23.24	22.91	0	24.5
		6	0	22.46	22.52	22.52	1	23.5
	16QAM	1	0	22.51	22.68	22.61	1	23.5
		1	2	22.48	22.61	22.35	1	23.5
		1	5	22.47	22.63	22.34	1	23.5
		3	0	22.21	22.33	22.23	1	23.5
		3	1	22.15	22.33	22.24	1	23.5
		3	3	22.18	22.27	22.21	1	23.5
		6	0	21.40	21.43	21.44	2	22.5
	64QAM	1	0	21.52	21.67	21.62	2	22.5
		1	2	21.48	21.74	21.44	2	22.5
		1	5	21.54	21.51	21.12	2	22.5
		3	0	21.23	21.45	21.04	2	22.5
		3	1	21.14	21.30	21.25	2	22.5
		3	3	21.09	21.37	21.22	2	22.5
		6	0	20.42	20.49	20.36	3	21.5

LTE Band 13

BW	Modulation	RB Size	RB Offset	Mid	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		23230		
		Frequency (MHz)		782		
10M	QPSK	1	0	23.49	0	24.5
		1	24	**23.73**	0	24.5
		1	49	23.46	0	24.5
		25	0	22.54	1	23.5
		25	12	22.48	1	23.5
		25	25	22.44	1	23.5
		50	0	22.51	1	23.5
	16QAM	1	0	22.88	1	23.5
		1	24	22.62	1	23.5
		1	49	22.67	1	23.5
		25	0	21.74	2	22.5
		25	12	21.56	2	22.5
		25	25	21.39	2	22.5
		50	0	21.42	2	22.5
	64QAM	1	0	21.92	2	22.5
		1	24	21.63	2	22.5
		1	49	21.82	2	22.5
		25	0	20.61	3	21.5
		25	12	20.43	3	21.5
		25	25	20.38	3	21.5
		50	0	20.47	3	21.5
BW	Modulation	Channel		23205	23230	23255	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		779.5	782	784.5		
5M	QPSK	1	0	23.50	23.28	23.36	0	24.5
		1	12	23.32	23.23	23.33	0	24.5
		1	24	23.23	**23.57**	23.36	0	24.5
		12	0	22.50	22.46	22.45	1	23.5
		12	6	**22.51**	22.49	22.41	1	23.5
		12	13	22.39	22.41	22.34	1	23.5
		25	0	22.33	22.50	22.47	1	23.5
	16QAM	1	0	22.49	22.64	22.49	1	23.5
		1	12	22.47	22.50	22.66	1	23.5
		1	24	22.52	22.68	22.79	1	23.5
		12	0	21.46	21.37	21.40	2	22.5
		12	6	21.45	21.49	21.47	2	22.5
		12	13	21.39	21.53	21.43	2	22.5
		25	0	21.44	21.51	21.42	2	22.5
	64QAM	1	0	21.72	21.48	21.64	2	22.5
		1	12	21.54	21.56	21.74	2	22.5
		1	24	21.40	21.84	21.69	2	22.5
		12	0	20.48	20.44	20.39	3	21.5
		12	6	20.52	20.36	20.47	3	21.5
		12	13	20.38	20.40	20.51	3	21.5
		25	0	20.27	20.47	20.46	3	21.5

LTE Band 14

BW	MCS Index	RB Size	RB Offset	Mid			3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		23330				
		Frequence (MHz)		793				
10M	QPSK	1	0	**23.96**			0	24.5
		1	24	23.65			0	24.5
		1	49	23.68			0	24.5
		25	0	22.79			1	23.5
		25	12	22.64			1	23.5
		25	25	22.66			1	23.5
		50	0	22.75			1	23.5
	16QAM	1	0	23.16			1	23.5
		1	24	22.84			1	23.5
		1	49	22.89			1	23.5
		25	0	21.73			2	22.5
		25	12	21.56			2	22.5
		25	25	21.64			2	22.5
		50	0	21.57			2	22.5
	64QAM	1	0	21.13			2	22.5
		1	24	21.50			2	22.5
		1	49	21.72			2	22.5
		25	0	20.74			3	21.5
		25	12	20.63			3	21.5
		25	25	20.61			3	21.5
		50	0	20.56			3	21.5

BW	MCS Index	Channel		23305	23330	23355	3GPP MPR	Max. Tune-up
		Frequence (MHz)		790.5	793	795.5		
5M	QPSK	1	0	23.64	**23.76**	23.63	0	24.5
		1	12	23.59	23.60	23.52	0	24.5
		1	24	23.60	23.61	23.55	0	24.5
		12	0	22.64	**22.90**	22.62	1	23.5
		12	6	22.73	22.58	22.84	1	23.5
		12	13	22.47	22.62	22.56	1	23.5
		25	0	22.72	22.61	22.73	1	23.5
	16QAM	1	0	22.89	22.88	22.78	1	23.5
		1	12	22.92	22.87	22.79	1	23.5
		1	24	22.73	22.72	22.77	1	23.5
		12	0	21.67	21.93	21.66	2	22.5
		12	6	21.77	21.63	21.65	2	22.5
		12	13	21.69	21.70	21.68	2	22.5
		25	0	21.76	21.65	21.72	2	22.5
	64QAM	1	0	21.85	21.83	21.78	2	22.5
		1	12	21.87	21.88	21.76	2	22.5
		1	24	21.78	21.71	21.65	2	22.5
		12	0	20.69	20.68	20.67	3	21.5
		12	6	20.83	20.65	20.81	3	21.5
		12	13	20.77	20.66	20.56	3	21.5
		25	0	20.69	20.57	20.63	3	21.5

LTE Band 17

BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		23780	23790	23800		
		Frequence (MHz)		709	710	711		
10M	QPSK	1	0	**23.73**	23.61	23.66	0	24.5
		1	24	23.56	23.41	23.52	0	24.5
		1	49	23.62	23.43	23.53	0	24.5
		25	0	**22.69**	22.65	22.63	1	23.5
		25	12	22.65	22.64	22.61	1	23.5
		25	25	22.66	22.56	22.59	1	23.5
		50	0	22.70	22.62	22.69	1	23.5
	16QAM	1	0	22.64	22.64	22.80	1	23.5
		1	24	22.68	22.53	22.55	1	23.5
		1	49	22.66	22.49	22.76	1	23.5
		25	0	21.46	21.45	21.50	2	22.5
		25	12	21.58	21.40	21.69	2	22.5
		25	25	21.67	21.58	21.63	2	22.5
		50	0	21.72	21.63	21.76	2	22.5
	64QAM	1	0	21.51	21.47	21.59	2	22.5
		1	24	21.69	21.64	21.54	2	22.5
		1	49	21.63	21.54	21.61	2	22.5
		25	0	20.62	20.59	20.49	3	21.5
		25	12	20.41	20.35	20.55	3	21.5
		25	25	20.65	20.61	20.58	3	21.5
		50	0	20.68	20.60	20.69	3	21.5

BW	MCS Index	Channel		23755	23790	23825	3GPP MPR	Max. Tune-up
		Frequence (MHz)		706.5	710	713.5		
5M	QPSK	1	0	23.53	23.52	**23.59**	0	24.5
		1	12	23.46	23.32	23.41	0	24.5
		1	24	23.48	23.31	23.51	0	24.5
		12	0	**22.59**	22.52	22.55	1	23.5
		12	6	22.57	22.58	22.51	1	23.5
		12	13	22.55	22.46	22.51	1	23.5
		25	0	22.62	22.59	22.54	1	23.5
	16QAM	1	0	22.72	22.53	22.75	1	23.5
		1	12	22.55	22.39	22.50	1	23.5
		1	24	22.62	22.36	22.69	1	23.5
		12	0	21.34	21.38	21.41	2	22.5
		12	6	21.45	21.25	21.67	2	22.5
		12	13	21.65	21.51	21.53	2	22.5
		25	0	21.68	21.59	21.68	2	22.5
	64QAM	1	0	21.46	21.42	21.50	2	22.5
		1	12	21.58	21.59	21.40	2	22.5
		1	24	21.59	21.39	21.56	2	22.5
		12	0	20.58	20.50	20.46	3	21.5
		12	6	20.35	20.24	20.47	3	21.5
		12	13	20.56	20.55	20.56	3	21.5
		25	0	20.67	20.55	20.62	3	21.5

LTE Band 38

BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		37850	38000	38150		
		Frequency (MHz)		2580	2595	2610		
20M	QPSK	1	0	23.56	23.55	23.61	0	24.5
		1	50	23.67	**23.72**	23.69	0	24.5
		1	99	23.61	23.56	23.65	0	24.5
		50	0	22.75	**22.81**	22.77	1	23.5
		50	25	22.65	22.46	22.64	1	23.5
		50	50	22.73	22.67	22.72	1	23.5
		100	0	22.80	22.82	22.79	1	23.5
	16QAM	1	0	22.71	22.81	22.95	1	23.5
		1	50	22.85	22.87	22.96	1	23.5
		1	99	22.89	22.69	22.91	1	23.5
		50	0	21.75	21.83	21.71	2	22.5
		50	25	21.59	21.55	21.76	2	22.5
		50	50	21.62	21.77	21.71	2	22.5
		100	0	21.80	21.50	21.79	2	22.5
	64QAM	1	0	21.08	21.01	21.37	2	22.5
		1	50	21.02	21.16	21.45	2	22.5
		1	99	21.13	21.14	21.21	2	22.5
		50	0	20.67	20.45	20.66	3	21.5
		50	25	20.52	20.55	20.73	3	21.5
		50	50	20.78	20.47	20.68	3	21.5
		100	0	20.71	20.79	20.76	3	21.5

BW	Modulation	Channel		37825	38000	38175	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2577.5	2595	2612.5		
15M	QPSK	1	0	23.42	23.50	23.46	0	24.5
		1	37	23.58	23.64	23.56	0	24.5
		1	74	**23.66**	23.48	23.55	0	24.5
		36	0	**22.74**	22.68	22.58	1	23.5
		36	19	22.64	22.34	22.61	1	23.5
		36	39	22.58	22.57	22.72	1	23.5
		75	0	22.77	22.79	22.70	1	23.5
	16QAM	1	0	22.64	22.80	22.81	1	23.5
		1	37	22.79	22.85	22.84	1	23.5
		1	74	22.86	22.65	22.79	1	23.5
		36	0	21.65	21.71	21.69	2	22.5
		36	19	21.45	21.46	21.64	2	22.5
		36	39	21.55	21.63	21.56	2	22.5
		75	0	21.70	21.35	21.75	2	22.5
	64QAM	1	0	21.07	20.86	21.32	2	22.5
		1	37	20.94	21.12	21.37	2	22.5
		1	74	21.01	21.04	21.17	2	22.5
		36	0	20.59	20.37	20.52	3	21.5
		36	19	20.48	20.46	20.68	3	21.5
		36	39	20.68	20.33	20.55	3	21.5
		75	0	20.58	20.73	20.65	3	21.5

BW	Modulation	Channel		37900	38000	38200	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2575	2595	2615		
10M	QPSK	1	0	23.41	23.40	23.52	0	24.5
		1	24	23.53	23.65	**23.68**	0	24.5
		1	49	23.55	23.53	**23.68**	0	24.5
		25	0	22.71	22.75	22.59	1	23.5
		25	12	22.54	22.41	22.55	1	23.5
		25	25	22.64	22.63	**22.79**	1	23.5
		50	0	22.71	22.70	22.71	1	23.5
	16QAM	1	0	22.62	22.77	22.83	1	23.5
		1	24	22.72	22.79	22.85	1	23.5
		1	49	22.80	22.61	22.78	1	23.5
		25	0	21.74	21.71	21.68	2	22.5
		25	12	21.46	21.48	21.68	2	22.5
		25	25	21.56	21.70	21.63	2	22.5
		50	0	21.70	21.44	21.71	2	22.5
	64QAM	1	0	21.04	20.94	21.34	2	22.5
		1	24	20.87	21.14	21.36	2	22.5
		1	49	21.08	20.99	21.09	2	22.5
		25	0	20.54	20.35	20.51	3	21.5
		25	12	20.49	20.46	20.63	3	21.5
		25	25	20.76	20.46	20.60	3	21.5
		50	0	20.62	20.67	20.69	3	21.5

BW	Modulation	Channel		37775	38000	38225	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2572.5	2595	2617.5		
5M	QPSK	1	0	23.55	23.46	23.55	0	24.5
		1	12	23.58	23.59	23.56	0	24.5
		1	24	23.59	23.53	**23.67**	0	24.5
		12	0	22.65	22.66	22.66	1	23.5
		12	6	22.63	22.42	22.55	1	23.5
		12	13	22.59	22.55	**22.70**	1	23.5
		25	0	22.68	22.78	22.71	1	23.5
	16QAM	1	0	22.69	22.76	22.80	1	23.5
		1	12	22.83	22.73	22.86	1	23.5
		1	24	22.84	22.59	22.88	1	23.5
		12	0	21.61	21.70	21.57	2	22.5
		12	6	21.48	21.52	21.72	2	22.5
		12	13	21.59	21.67	21.57	2	22.5
		25	0	21.65	21.49	21.75	2	22.5
	64QAM	1	0	20.99	21.00	21.31	2	22.5
		1	12	20.93	21.07	21.33	2	22.5
		1	24	21.11	21.03	21.07	2	22.5
		12	0	20.55	20.39	20.59	3	21.5
		12	6	20.50	20.44	20.60	3	21.5
		12	13	20.69	20.35	20.53	3	21.5
		25	0	20.67	20.65	20.75	3	21.5

LTE Band 41 (2496 ~ 2690MHz) For FCC SAR

BW	Modulation	RB Size	RB Offset	Low	Low Mid	Mid	High Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		39750	40185	40620	41055	41490		
		Frequency (MHz)		2506	2549.5	2593	2636.5	2680		
20M	QPSK	1	0	23.75	23.64	24.00	23.86	24.01	0	25
		1	50	23.83	23.86	**24.04**	23.91	24.03	0	25
		1	99	23.51	23.65	23.88	23.58	23.98	0	25
		50	0	22.83	22.87	22.95	22.85	22.91	1	24
		50	25	22.88	22.93	**23.00**	22.86	22.98	1	24
		50	50	22.85	22.77	22.78	22.77	22.95	1	24
		100	0	22.87	22.74	23.95	22.94	22.90	1	24
	16QAM	1	0	22.96	22.85	23.08	22.91	23.04	1	24
		1	50	22.98	22.90	23.06	23.11	23.14	1	24
		1	99	22.81	22.73	22.75	22.95	23.11	1	24
		50	0	21.95	21.87	21.97	21.78	21.85	2	23
		50	25	21.96	21.82	22.01	21.92	21.94	2	23
		50	50	21.99	21.78	21.86	21.87	21.83	2	23
		100	0	21.89	21.88	21.94	21.84	21.87	2	23
	64QAM	1	0	21.66	21.44	21.55	21.56	21.48	2	23
		1	50	21.71	21.51	21.53	21.43	21.35	2	23
		1	99	21.53	21.35	21.46	21.20	21.21	2	23
		50	0	20.95	20.89	20.93	20.85	20.84	3	22
		50	25	20.92	20.81	21.01	20.80	20.74	3	22
		50	50	20.96	20.77	20.77	20.65	21.01	3	22
		100	0	20.89	20.83	20.91	20.82	20.70	3	22
BW	Modulation	Channel		39725	40173	40620	41068	41515	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2503.5	2548.3	2593	2637.8	2682.5		
15M	QPSK	1	0	23.67	23.53	23.96	23.81	24.00	0	25
		1	37	23.71	23.78	**24.03**	23.76	23.96	0	25
		1	74	23.37	23.57	23.73	23.56	23.96	0	25
		36	0	22.72	22.80	**22.89**	22.73	22.84	1	24
		36	19	22.87	22.87	22.86	22.81	22.84	1	24
		36	39	22.77	22.74	22.68	22.76	**22.89**	1	24
		75	0	22.74	22.64	23.93	22.92	22.82	1	24
	16QAM	1	0	22.85	22.73	22.98	22.76	23.02	1	24
		1	37	22.90	22.88	22.93	23.00	23.11	1	24
		1	74	22.76	22.69	22.71	22.84	23.00	1	24
		36	0	21.81	21.84	21.89	21.69	21.80	2	23
		36	19	21.84	21.71	21.98	21.79	21.85	2	23
		36	39	21.92	21.68	21.73	21.82	21.71	2	23
		75	0	21.79	21.78	21.93	21.70	21.76	2	23
	64QAM	1	0	21.65	21.36	21.49	21.43	21.44	2	23
		1	37	21.68	21.39	21.51	21.29	21.23	2	23
		1	74	21.50	21.20	21.40	21.14	21.14	2	23
		36	0	20.86	20.85	20.87	20.72	20.75	3	22
		36	19	20.90	20.76	20.88	20.68	20.62	3	22
		36	39	20.89	20.69	20.69	20.53	20.92	3	22
		75	0	20.83	20.68	20.79	20.70	20.67	3	22
BW	Modulation	Channel		39700	40160	40620	41080	41540	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2501	2547	2593	2639	2685		
10M	QPSK	1	0	23.60	23.59	23.87	23.75	23.92	0	25
		1	24	23.74	23.72	**24.02**	23.87	23.94	0	25
		1	49	23.39	23.60	23.73	23.53	23.85	0	25
		25	0	22.69	22.80	22.89	22.82	22.78	1	24
		25	12	22.79	22.85	**22.90**	22.80	22.84	1	24
		25	25	22.72	22.63	22.63	22.73	22.83	1	24
		50	0	22.74	22.67	23.90	22.90	22.80	1	24
	16QAM	1	0	22.85	22.79	23.04	22.82	22.90	1	24
		1	24	22.92	22.89	22.93	23.09	23.05	1	24
		1	49	22.74	22.69	22.60	22.89	23.10	1	24
		25	0	21.89	21.74	21.96	21.74	21.70	2	23
		25	12	21.83	21.80	21.93	21.83	21.82	2	23
		25	25	21.87	21.64	21.75	21.72	21.74	2	23
		50	0	21.84	21.76	21.83	21.69	21.82	2	23
	64QAM	1	0	21.60	21.38	21.50	21.52	21.43	2	23
		1	24	21.60	21.50	21.51	21.38	21.25	2	23
		1	49	21.48	21.29	21.37	21.18	21.10	2	23
		25	0	20.90	20.74	20.84	20.80	20.82	3	22
		25	12	20.83	20.73	20.97	20.70	20.71	3	22
		25	25	20.88	20.66	20.64	20.61	20.99	3	22
		50	0	20.75	20.71	20.86	20.70	20.62	3	22
BW	Modulation	Channel		39675	40148	40620	41093	41565	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		2498.5	2545.8	2593	2640.3	2687.5		
5M	QPSK	1	0	23.62	23.51	23.85	23.81	23.89	0	25
		1	12	23.73	23.79	23.89	23.89	**23.98**	0	25
		1	24	23.46	23.59	23.79	23.54	23.90	0	25
		12	0	22.81	22.77	22.85	22.78	22.81	1	24
		12	6	22.82	22.80	**22.92**	22.85	22.89	1	24
		12	13	22.72	22.73	22.77	22.66	22.86	1	24
		25	0	22.85	22.71	23.93	22.88	22.84	1	24
	16QAM	1	0	22.94	22.84	23.00	22.83	22.92	1	24
		1	12	22.96	22.85	22.96	22.98	23.06	1	24
		1	24	22.75	22.65	22.70	22.81	23.07	1	24
		12	0	21.87	21.73	21.82	21.64	21.71	2	23
		12	6	21.94	21.70	21.97	21.82	21.82	2	23
		12	13	21.89	21.67	21.72	21.72	21.73	2	23
		25	0	21.78	21.81	21.81	21.83	21.84	2	23
	64QAM	1	0	21.63	21.43	21.45	21.46	21.44	2	23
		1	12	21.65	21.42	21.48	21.29	21.22	2	23
		1	24	21.48	21.30	21.35	21.09	21.10	2	23
		12	0	20.87	20.83	20.79	20.71	20.82	3	22
		12	6	20.79	20.70	20.94	20.75	20.82	3	22
		12	13	20.92	20.76	20.69	20.52	20.90	3	22
		25	0	20.80	20.69	20.89	20.69	20.62	3	22

LTE Band 66

BW	Modulation	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		132072	132322	132572		
		Frequency (MHz)		1720	1745	1770		
20M	QPSK	1	0	23.27	23.60	23.50	0	25
		1	50	23.74	23.76	23.62	0	25
		1	99	23.88	**23.99**	23.67	0	25
		50	0	22.74	22.87	22.85	1	24
		50	25	22.80	**23.07**	22.94	1	24
		50	50	22.76	22.91	22.71	1	24
		100	0	22.66	22.94	22.91	1	24
	16QAM	1	0	22.43	22.58	22.53	1	24
		1	50	22.83	22.87	22.82	1	24
		1	99	23.14	23.22	23.07	1	24
		50	0	21.57	21.85	21.73	2	23
		50	25	21.83	21.97	21.93	2	23
		50	50	21.72	21.98	21.75	2	23
		100	0	21.66	21.83	21.59	2	23
	64QAM	1	0	21.35	21.89	21.64	2	23
		1	50	21.45	22.14	21.63	2	23
		1	99	22.05	22.20	22.09	2	23
		50	0	20.47	20.84	20.76	3	22
		50	25	20.53	20.74	20.73	3	22
		50	50	20.84	20.91	20.90	3	22
		100	0	20.78	20.88	20.68	3	22
BW	Modulation	Channel		132047	132322	132597	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1717.5	1745	1772.5		
15M	QPSK	1	0	23.21	23.51	23.44	0	25
		1	37	23.68	23.65	23.61	0	25
		1	74	**23.89**	23.83	23.59	0	25
		36	0	22.73	22.81	22.80	1	24
		36	19	22.79	**23.02**	22.87	1	24
		36	39	22.75	22.83	22.57	1	24
		75	0	22.58	22.79	22.81	1	24
	16QAM	1	0	22.31	22.51	22.49	1	24
		1	37	22.78	22.76	22.67	1	24
		1	74	23.00	23.15	22.93	1	24
		36	0	21.49	21.71	21.62	2	23
		36	19	21.75	21.85	21.86	2	23
		36	39	21.64	21.90	21.70	2	23
		75	0	21.65	21.73	21.44	2	23
	64QAM	1	0	21.26	21.64	21.52	2	23
		1	37	21.31	22.01	21.62	2	23
		1	74	21.98	22.10	21.94	2	23
		36	0	20.40	20.72	20.63	3	22
		36	19	20.44	20.69	20.60	3	22
		36	39	20.74	20.76	20.77	3	22
		75	0	20.76	20.83	20.62	3	22
BW	Modulation	Channel		132022	132322	132622	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1715	1745	1775		
10M	QPSK	1	0	23.14	23.48	23.41	0	25
		1	24	23.61	23.70	23.49	0	25
		1	49	**23.86**	23.82	23.53	0	25
		25	0	22.64	22.84	22.75	1	24
		25	12	22.73	**23.05**	22.90	1	24
		25	25	22.75	22.81	22.65	1	24
		50	0	22.57	22.91	22.84	1	24
	16QAM	1	0	22.29	22.43	22.51	1	24
		1	24	22.70	22.76	22.75	1	24
		1	49	23.05	23.10	22.98	1	24
		25	0	21.56	21.79	21.66	2	23
		25	12	21.81	21.87	21.81	2	23
		25	25	21.70	21.92	21.61	2	23
		50	0	21.64	21.79	21.55	2	23
	64QAM	1	0	21.29	21.60	21.54	2	23
		1	24	21.37	22.12	21.56	2	23
		1	49	21.95	22.16	22.02	2	23
		25	0	20.38	20.81	20.65	3	22
		25	12	20.42	20.73	20.63	3	22
		25	25	20.80	20.88	20.83	3	22
		50	0	20.75	20.82	20.58	3	22
BW	Modulation	Channel		131997	132322	132647	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1712.5	1745	1777.5		
5M	QPSK	1	0	23.24	23.59	23.41	0	25
		1	12	23.65	23.61	23.56	0	25
		1	24	23.76	**23.95**	23.59	0	25
		12	0	22.69	22.85	22.75	1	24
		12	6	22.79	**23.04**	22.83	1	24
		12	13	22.63	22.76	22.68	1	24
		25	0	22.61	22.87	22.90	1	24
	16QAM	1	0	22.42	22.47	22.44	1	24
		1	12	22.74	22.80	22.68	1	24
		1	24	23.12	23.07	23.03	1	24
		12	0	21.51	21.78	21.66	2	23
		12	6	21.75	21.85	21.78	2	23
		12	13	21.68	21.86	21.62	2	23
		25	0	21.55	21.81	21.55	2	23
	64QAM	1	0	21.24	21.65	21.51	2	23
		1	12	21.35	22.06	21.58	2	23
		1	24	22.03	22.12	22.04	2	23
		12	0	20.43	20.71	20.75	3	22
		12	6	20.39	20.62	20.63	3	22
		12	13	20.76	20.78	20.86	3	22
		25	0	20.63	20.79	20.57	3	22
BW	Modulation	Channel		131987	132322	132657	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1711.5	1745	1778.5		
3M	QPSK	1	0	23.22	23.59	23.44	0	25
		1	7	23.59	23.70	23.49	0	25
		1	14	23.77	**23.91**	23.66	0	25
		8	0	22.66	22.83	22.71	1	24
		8	3	22.69	22.91	**22.93**	1	24
		8	7	22.70	22.88	22.57	1	24
		15	0	22.56	22.83	22.80	1	24
	16QAM	1	0	22.34	22.51	22.38	1	24
		1	7	22.78	22.74	22.69	1	24
		1	14	23.06	23.21	23.01	1	24
		8	0	21.51	21.74	21.71	2	23
		8	3	21.77	21.86	21.89	2	23
		8	7	21.59	21.85	21.72	2	23
		15	0	21.63	21.89	21.47	2	23
	64QAM	1	0	21.32	21.65	21.55	2	23
		1	7	21.35	21.99	21.51	2	23
		1	14	21.97	22.13	21.97	2	23
		8	0	20.46	20.79	20.61	3	22
		8	3	20.49	20.65	20.62	3	22
		8	7	20.72	20.80	20.77	3	22
		15	0	20.63	20.84	20.67	3	22
BW	Modulation	Channel		131979	132322	132665	3GPP MPR (dB)	Max. Tune-up (dBm)
		Frequency (MHz)		1710.7	1745	1779.3		
1.4M	QPSK	1	0	23.16	23.53	23.39	0	25
		1	2	23.71	23.73	23.54	0	25
		1	5	23.75	**23.88**	23.57	0	25
		3	0	23.43	23.63	23.54	0	25
		3	1	23.51	23.67	**23.73**	0	25
		3	3	23.50	23.70	23.38	0	25
		6	0	22.64	22.83	22.78	1	24
	16QAM	1	0	22.37	22.57	22.51	1	24
		1	2	22.71	22.78	22.77	1	24
		1	5	23.01	23.08	23.05	1	24
		3	0	22.23	22.62	22.41	1	24
		3	1	22.49	22.63	22.59	1	24
		3	3	22.49	22.70	22.47	1	24
		6	0	21.64	21.72	21.54	2	23
	64QAM	1	0	21.24	21.63	21.62	2	23
		1	2	21.40	22.00	21.50	2	23
		1	5	21.98	22.11	22.08	2	23
		3	0	21.23	21.54	21.51	2	23
		3	1	21.23	21.47	21.52	2	23
		3	3	21.55	21.70	21.67	2	23
		6	0	20.69	20.75	20.80	3	22

<LTE Sensor Power>

LTE Band 7							
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		20850	21100	21350	
		Frequency (MHz)		2510	2535	2560	
20M	QPSK	1	0	19.33	19.22	19.26	20
		1	50	19.45	19.53	**19.55**	20
		1	99	19.21	19.05	19.05	20
		50	0	19.45	19.38	19.43	20
		50	25	19.46	19.42	**19.48**	20
		50	50	19.37	19.40	19.42	20
		100	0	19.39	19.43	19.52	20
	16QAM	1	0	19.42	19.39	19.36	20
		1	50	19.47	19.44	19.42	20
		1	99	19.47	19.39	19.30	20
		50	0	19.44	19.40	19.37	20
		50	25	19.42	19.47	19.48	20
		50	50	19.35	19.48	19.40	20
		100	0	19.45	**19.50**	19.35	20
	64QAM	1	0	19.39	19.38	19.46	20
		1	50	19.45	19.49	19.26	20
		1	99	19.38	19.46	19.22	20
		50	0	19.44	19.43	19.47	20
		50	25	19.45	19.49	19.43	20
		50	50	19.37	19.49	19.25	20
		100	0	19.43	19.47	19.40	20
BW	Modulation	Channel		20825	21100	21375	Max. Tune-up (dBm)
		Frequency (MHz)		2507.5	2535	2562.5	
15M	QPSK	1	0	19.24	19.14	19.11	20
		1	37	19.43	19.44	19.44	20
		1	74	19.14	18.96	19.04	20
		36	0	19.33	19.30	19.33	20
		36	19	19.38	19.40	19.39	20
		36	39	19.23	19.36	19.40	20
		75	0	19.25	19.42	19.40	20
	16QAM	1	0	19.40	19.33	19.31	20
		1	37	19.32	19.43	19.40	20
		1	74	19.36	19.27	19.17	20
		36	0	19.40	19.31	19.25	20
		36	19	19.34	19.38	19.44	20
		36	39	19.24	19.37	19.35	20
		75	0	19.40	19.41	19.31	20
	64QAM	1	0	19.38	19.32	19.32	20
		1	37	19.32	**19.48**	19.13	20
		1	74	19.23	19.37	19.21	20
		36	0	19.34	19.39	19.44	20
		36	19	19.42	**19.48**	19.35	20
		36	39	19.24	19.39	19.16	20
		75	0	19.41	19.40	19.31	20
BW	Modulation	Channel		20800	21100	21400	Max. Tune-up (dBm)
		Frequency (MHz)		2505	2535	2565	
10M	QPSK	1	0	19.32	19.10	19.22	20
		1	24	19.38	**19.50**	19.42	20
		1	49	19.19	19.04	18.97	20
		25	0	19.37	19.23	19.37	20
		25	12	19.40	19.37	19.44	20
		25	25	19.35	19.39	19.30	20
		50	0	19.25	19.38	19.37	20
	16QAM	1	0	19.40	19.25	19.23	20
		1	24	19.45	19.30	19.36	20
		1	49	19.35	19.30	19.26	20
		25	0	19.41	19.38	19.30	20
		25	12	19.38	19.33	19.36	20
		25	25	19.24	19.38	19.32	20
		50	0	19.38	19.39	19.28	20
	64QAM	1	0	19.24	19.32	19.44	20
		1	24	19.35	19.38	19.20	20
		1	49	19.27	19.33	19.07	20
		25	0	19.35	19.38	19.36	20
		25	12	19.37	19.42	19.39	20
		25	25	19.26	19.42	19.16	20
		50	0	19.35	19.33	19.27	20
BW	Modulation	Channel		20775	21100	21425	Max. Tune-up (dBm)
		Frequency (MHz)		2502.5	2535	2567.5	
5M	QPSK	1	0	19.30	19.10	19.14	20
		1	12	19.30	19.44	**19.51**	20
		1	24	19.09	18.96	19.00	20
		12	0	19.32	19.36	19.31	20
		12	6	19.31	19.39	19.34	20
		12	13	19.26	19.32	19.27	20
		25	0	19.26	19.42	19.45	20
	16QAM	1	0	19.34	19.29	19.26	20
		1	12	19.33	19.33	19.31	20
		1	24	19.44	19.29	19.29	20
		12	0	19.32	19.30	19.28	20
		12	6	19.33	19.35	19.40	20
		12	13	19.32	19.36	19.25	20
		25	0	19.31	19.36	19.22	20
	64QAM	1	0	19.33	19.34	19.37	20
		1	12	19.34	19.39	19.25	20
		1	24	19.33	19.41	19.19	20
		12	0	19.43	19.32	19.38	20
		12	6	19.33	19.42	19.33	20
		12	13	19.28	19.44	19.10	20
		25	0	19.34	19.41	19.33	20

LTE Band 38							
BW	Modulation	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		37850	38000	38150	
		Frequency (MHz)		2580	2590	2610	
20M	QPSK	1	0	20.08	20.21	20.56	21
		1	50	20.31	**20.67**	20.62	21
		1	99	20.22	20.28	20.59	21
		50	0	19.40	**19.64**	19.62	21
		50	25	19.27	19.20	19.54	21
		50	50	19.34	19.29	19.61	21
		100	0	19.22	19.31	19.83	21
	16QAM	1	0	19.27	19.28	19.74	21
		1	50	19.42	19.43	19.93	21
		1	99	19.59	19.54	20.01	21
		50	0	18.23	18.34	18.44	19
		50	25	18.37	18.30	18.50	19
		50	50	18.35	18.33	18.52	19
		100	0	18.30	18.31	18.48	19
	64QAM	1	0	17.82	18.01	18.49	19
		1	50	18.07	18.14	18.69	19
		1	99	18.28	18.19	18.51	19
		50	0	17.26	17.28	17.74	19
		50	25	17.27	17.33	17.81	19
		50	50	17.34	17.40	17.82	19
		100	0	17.32	17.33	17.75	19
BW	Modulation	Channel		37825	38000	38175	Max. Tune-up (dBm)
		Frequency (MHz)		2577.5	2595	2612.5	
15M	QPSK	1	0	19.98	20.11	20.41	21
		1	37	20.23	20.54	**20.60**	21
		1	74	20.21	20.27	20.54	21
		36	0	19.38	19.54	19.57	21
		36	19	19.24	19.09	19.53	21
		36	39	19.20	19.21	19.46	21
		75	0	19.18	19.29	19.70	21
	16QAM	1	0	19.15	19.26	19.64	21
		1	37	19.35	19.40	19.78	21
		1	74	19.46	19.44	19.94	21
		36	0	18.14	18.21	18.29	19
		36	19	18.24	18.21	18.36	19
		36	39	18.32	18.32	18.45	19
		75	0	18.24	18.30	18.46	19
	64QAM	1	0	17.81	17.94	18.47	19
		1	37	17.95	18.01	18.58	19
		1	74	18.27	18.18	18.39	19
		36	0	17.15	17.19	17.73	19
		36	19	17.14	17.22	17.72	19
		36	39	17.32	17.32	17.72	19
		75	0	17.24	17.18	17.62	19
BW	Modulation	Channel		37800	38000	38200	Max. Tune-up (dBm)
		Frequency (MHz)		2575	2595	2615	
10M	QPSK	1	0	19.95	20.19	20.49	21
		1	24	20.29	**20.63**	20.51	21
		1	49	20.20	20.17	20.49	21
		25	0	19.35	19.60	19.55	21
		25	12	19.19	19.12	19.52	21
		25	25	19.30	19.15	19.56	21
		50	0	19.07	19.24	19.75	21
	16QAM	1	0	19.12	19.18	19.70	21
		1	24	19.38	19.35	19.84	21
		1	49	19.51	19.44	19.92	21
		25	0	18.09	18.21	18.42	19
		25	12	18.26	18.28	18.38	19
		25	25	18.25	18.30	18.39	19
		50	0	18.17	18.22	18.42	19
	64QAM	1	0	17.73	17.89	18.48	19
		1	24	17.93	18.01	18.58	19
		1	49	18.25	18.07	18.46	19
		25	0	17.25	17.13	17.68	19
		25	12	17.14	17.22	17.70	19
		25	25	17.21	17.35	17.75	19
		50	0	17.19	17.28	17.74	19
BW	Modulation	Channel		37775	38000	38225	Max. Tune-up (dBm)
		Frequency (MHz)		2572.5	2595	2617.5	
5M	QPSK	1	0	19.98	20.17	20.53	21
		1	12	20.17	**20.63**	20.59	21
		1	24	20.18	20.25	20.51	21
		12	0	19.26	19.63	19.61	21
		12	6	19.21	19.12	19.45	21
		12	13	19.31	19.14	19.56	21
		25	0	19.17	19.26	19.77	21
	16QAM	1	0	19.18	19.21	19.61	21
		1	12	19.39	19.39	19.85	21
		1	24	19.44	19.48	19.94	21
		12	0	18.10	18.24	18.39	19
		12	6	18.26	18.27	18.46	19
		12	13	18.21	18.26	18.44	19
		25	0	18.18	18.22	18.36	19
	64QAM	1	0	17.71	17.91	18.38	19
		1	12	17.98	18.00	18.68	19
		1	24	18.25	18.04	18.43	19
		12	0	17.15	17.25	17.72	19
		12	6	17.16	17.19	17.73	19
		12	13	17.22	17.35	17.78	19
		25	0	17.26	17.21	17.63	19

LTE Band 41 (2496 ~ 2690MHz) For FCC SAR									
BW	Modulation	RB Size	RB Offset	Low	Low Mid	Mid	High Mid	High	Max. Tune-up (dBm)
		Channel		39750	40185	40620	41055	41490	
		Frequency (MHz)		2506	2549.5	2593	2636.5	2680	
20M	QPSK	1	0	19.91	20.02	20.12	19.83	20.07	21
		1	50	20.05	20.21	**20.28**	19.98	20.16	21
		1	99	19.65	19.90	19.72	19.66	19.98	21
		50	0	19.32	19.42	19.41	19.24	19.41	21
		50	25	19.41	19.45	**19.46**	19.26	19.43	21
		50	50	19.27	19.37	19.25	19.04	19.35	21
		100	0	19.30	19.35	19.39	19.23	19.37	21
	16QAM	1	0	19.84	20.18	20.20	20.06	20.04	21
		1	50	19.87	20.13	20.18	20.17	20.23	21
		1	99	19.59	19.94	19.89	19.87	19.99	21
		50	0	19.90	20.14	20.16	20.08	20.09	21
		50	25	19.83	20.17	20.13	20.05	20.12	21
		50	50	19.83	20.03	20.05	19.89	20.03	21
		100	0	19.88	20.15	20.08	20.03	20.01	21
	64QAM	1	0	19.64	19.87	19.84	19.76	19.61	21
		1	50	19.66	19.92	19.88	19.77	19.78	21
		1	99	19.43	19.63	19.48	19.50	19.48	21
		50	0	19.94	20.16	20.12	20.03	20.06	21
		50	25	19.84	20.15	20.07	20.09	20.05	21
		50	50	19.83	20.00	19.96	19.86	19.91	21
		100	0	19.81	20.06	20.02	20.01	20.08	21
BW	Modulation	Channel		39725	40173	40620	41068	41515	Max. Tune-up (dBm)
		Frequency (MHz)		2503.5	2548.3	2593	2637.8	2682.5	
15M	QPSK	1	0	19.87	19.90	20.08	19.69	19.94	21
		1	37	19.98	20.16	**20.18**	19.93	20.11	21
		1	74	19.58	19.79	19.70	19.55	19.87	21
		36	0	19.22	19.32	19.32	19.23	19.30	21
		36	19	19.31	19.43	19.36	19.25	19.28	21
		36	39	19.17	19.29	19.12	18.92	19.22	21
		75	0	19.16	19.25	19.25	19.17	19.25	21
	16QAM	1	0	19.74	20.15	20.08	19.91	19.93	21
		1	37	19.79	20.07	20.15	20.02	**20.18**	21
		1	74	19.48	19.87	19.80	19.84	19.88	21
		36	0	19.85	20.13	20.09	20.02	20.08	21
		36	19	19.70	20.09	20.00	20.00	19.98	21
		36	39	19.80	19.94	19.95	19.74	19.94	21
		75	0	19.80	20.09	19.95	19.98	19.97	21
	64QAM	1	0	19.59	19.82	19.69	19.61	19.59	21
		1	37	19.65	19.87	19.78	19.75	19.65	21
		1	74	19.39	19.56	19.37	19.35	19.43	21
		36	0	19.79	20.14	20.05	19.94	19.91	21
		36	19	19.82	20.08	19.99	20.01	19.92	21
		36	39	19.70	19.85	19.82	19.72	19.80	21
		75	0	19.70	19.99	19.87	19.93	20.01	21
BW	Modulation	Channel		39700	40160	40620	41080	41540	Max. Tune-up (dBm)
		Frequency (MHz)		2501	2547	2593	2639	2685	
10M	QPSK	1	0	19.83	19.95	20.09	19.82	19.98	21
		1	24	19.96	20.08	**20.24**	19.90	20.13	21
		1	49	19.63	19.84	19.71	19.51	19.90	21
		25	0	19.24	19.37	19.40	19.14	19.38	21
		25	12	19.34	19.31	19.36	19.18	19.42	21
		25	25	19.21	19.29	19.13	19.00	19.23	21
		50	0	19.27	19.25	19.28	19.21	19.32	21
	16QAM	1	0	19.80	20.11	20.06	19.97	19.97	21
		1	24	19.82	20.08	20.10	20.04	20.13	21
		1	49	19.52	19.83	19.80	19.75	19.91	21
		25	0	19.75	20.11	20.10	20.01	20.00	21
		25	12	19.69	20.12	20.03	19.91	20.09	21
		25	25	19.73	19.98	20.02	19.78	20.02	21
		50	0	19.83	20.04	19.97	19.98	19.91	21
	64QAM	1	0	19.49	19.78	19.75	19.64	19.48	21
		1	24	19.55	19.79	19.86	19.69	19.71	21
		1	49	19.35	19.57	19.41	19.42	19.35	21
		25	0	19.81	20.03	20.01	20.00	19.98	21
		25	12	19.79	20.04	19.97	20.00	20.03	21
		25	25	19.81	19.85	19.89	19.80	19.84	21
		50	0	19.71	20.04	19.91	19.97	20.07	21
BW	Modulation	Channel		39675	40148	40620	41093	41565	Max. Tune-up (dBm)
		Frequency (MHz)		2498.5	2545.8	2593	2640.3	2687.5	
5M	QPSK	1	0	19.78	19.87	20.02	19.76	20.06	21
		1	12	19.97	20.09	**20.23**	19.97	20.03	21
		1	24	19.54	19.80	19.64	19.61	19.86	21
		12	0	19.23	19.30	19.28	19.19	19.37	21
		12	6	19.39	19.33	19.32	19.22	19.30	21
		12	13	19.15	19.35	19.14	18.93	19.20	21
		25	0	19.29	19.33	19.29	19.11	19.29	21
	16QAM	1	0	19.76	20.16	20.07	19.92	19.96	21
		1	12	19.76	20.06	20.09	20.09	20.22	21
		1	24	19.55	19.91	19.85	19.73	19.93	21
		12	0	19.76	20.07	20.15	20.01	19.97	21
		12	6	19.73	20.03	20.02	20.01	20.00	21
		12	13	19.76	19.96	20.03	19.74	19.99	21
		25	0	19.78	20.06	20.03	19.91	19.93	21
	64QAM	1	0	19.52	19.83	19.71	19.61	19.50	21
		1	12	19.51	19.84	19.74	19.72	19.65	21
		1	24	19.32	19.62	19.35	19.35	19.42	21
		12	0	19.81	20.08	20.04	19.88	19.94	21
		12	6	19.80	20.12	19.92	20.05	19.99	21
		12	13	19.82	19.94	19.94	19.81	19.87	21
		25	0	19.69	20.00	19.91	19.98	20.04	21

Full Power								
CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	0	0	0	1	23.86
		16QAM	1	0	0	0	1	23.24
		64QAM	1	0	0	0	1	22.26
21100	21298	QPSK	1	0	0	0	1	23.78
		16QAM	1	0	0	0	1	23.15
		64QAM	1	0	0	0	1	22.30
21350	21152	QPSK	1	0	0	0	1	23.89
		16QAM	1	0	0	0	1	23.18
		64QAM	1	0	0	0	1	22.12

Sensor Power								
CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	0	0	0	1	19.07
		16QAM	1	0	0	0	1	18.91
		64QAM	1	0	0	0	1	17.73
21100	21298	QPSK	1	0	0	0	1	19.01
		16QAM	1	0	0	0	1	18.92
		64QAM	1	0	0	0	1	17.75
21350	21152	QPSK	1	0	0	0	1	19.23
		16QAM	1	0	0	0	1	19.15
		64QAM	1	0	0	0	1	17.93

CA_41C For FCC								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	0	0	0	1	23.53
		16QAM	1	0	0	0	1	22.98
		64QAM	1	0	0	0	1	21.35
40185	40383	QPSK	1	0	0	0	1	23.37
		16QAM	1	0	0	0	1	22.55
		64QAM	1	0	0	0	1	21.16
40620	40422	QPSK	1	0	0	0	1	23.93
		16QAM	1	0	0	0	1	22.73
		64QAM	1	0	0	0	1	21.10
41055	40857	QPSK	1	0	0	0	1	23.46
		16QAM	1	0	0	0	1	22.68
		64QAM	1	0	0	0	1	20.97
41490	41292	QPSK	1	0	0	0	1	23.85
		16QAM	1	0	0	0	1	22.88
		64QAM	1	0	0	0	1	21.16

CA_41C For FCC								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	0	0	0	1	20.24
		16QAM	1	0	0	0	1	19.73
		64QAM	1	0	0	0	1	18.09
40185	40383	QPSK	1	0	0	0	1	20.45
		16QAM	1	0	0	0	1	19.79
		64QAM	1	0	0	0	1	18.22
40620	40422	QPSK	1	0	0	0	1	20.76
		16QAM	1	0	0	0	1	19.72
		64QAM	1	0	0	0	1	18.21
41055	40857	QPSK	1	0	0	0	1	20.56
		16QAM	1	0	0	0	1	19.33
		64QAM	1	0	0	0	1	18.11
41490	41292	QPSK	1	0	0	0	1	20.71
		16QAM	1	0	0	0	1	19.66
		64QAM	1	0	0	0	1	18.27

Full Power

2.4GHz WLAN

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit (dBm)
2.4GHz WLAN	802.11b 1Mbps	1	2412	14.10	15.50
		6	2437	**14.36**	15.50
		11	2462	14.26	15.50
	802.11g 6Mbps	1	2412	12.15	13.50
		6	2437	12.49	13.50
		11	2462	12.24	13.50
	802.11n-HT20 MCS0	1	2412	11.11	12.50
		6	2437	11.60	12.50
		11	2462	11.39	12.50
	802.11n-HT40 MCS0	3	2422	10.34	12.00
		6	2437	10.48	12.00
		9	2452	10.78	12.00
	802.11ac-VHT20 MCS0	1	2412	8.93	10.50
		6	2437	9.03	10.50
		11	2462	9.55	10.50
	802.11ac-VHT40 MCS0	3	2422	9.51	11.00
		6	2437	9.82	11.00
		9	2452	10.25	11.00

5GHz WLAN

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit (dBm)
5.2GHz WLAN	802.11a 6Mbps	36	5180	10.70	12.00
		40	5200	10.60	12.00
		44	5220	10.58	12.00
		48	5240	10.71	12.00
	802.11n-HT20 MCS0	36	5180	10.68	12.00
		40	5200	10.64	12.00
		44	5220	10.62	12.00
		48	5240	10.68	12.00
	802.11n-HT40 MCS0	38	5190	**11.48**	13.00
		46	5230	11.16	13.00
	802.11ac-VHT20 MCS0	36	5180	7.63	9.00
		40	5200	7.50	9.00
		44	5220	7.44	9.00
		48	5240	7.81	9.00
	802.11ac-VHT40 MCS0	38	5190	8.56	9.50
		46	5230	7.95	9.50
	802.11ac-VHT80 MCS0	42	5210	8.24	9.50

5GHz WLAN

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit (dBm)
5.3GHz WLAN	802.11a 6Mbps	52	5260	10.74	12.00
		56	5280	10.72	12.00
		60	5300	10.78	12.00
		64	5320	10.86	12.00
	802.11n-HT20 MCS0	52	5260	10.58	12.00
		56	5280	10.55	12.00
		60	5300	10.74	12.00
		64	5320	10.89	12.00
	802.11n-HT40 MCS0	54	5270	11.26	13.00
		62	5310	**11.57**	13.00
	802.11ac-VHT20 MCS0	52	5260	7.93	9.00
		56	5280	7.43	9.00
		60	5300	7.41	9.00
		64	5320	7.94	9.00
	802.11ac-VHT40 MCS0	54	5270	8.59	9.50
		62	5310	8.06	9.50
	802.11ac-VHT80 MCS0	58	5290	8.22	9.50

5GHz WLAN

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit (dBm)
5.8GHz WLAN	802.11a 6Mbps	149	5745	**10.11**	10.50
		157	5785	8.67	10.50
		165	5825	8.66	10.50
	802.11n-HT20 MCS0	149	5745	6.82	7.50
		157	5785	5.67	7.50
		165	5825	5.84	7.50
	802.11n-HT40 MCS0	151	5755	7.14	8.00
		159	5795	6.49	8.00
	802.11ac-VHT20 MCS0	149	5745	6.76	7.50
		157	5785	5.57	7.50
		165	5825	5.72	7.50
	802.11ac-VHT40 MCS0	151	5755	6.99	8.00
		159	5795	6.33	8.00
	802.11ac-VHT80 MCS0	155	5775	6.51	8.00

BR/EDR

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit (dBm)
GFSK	CH 0	2402	4.67	6.00
	CH 39	2441	2.24	4.00
	CH 78	2480	6.24	8.00
DQPSK	CH 0	2402	1.46	3.00
	CH 39	2441	-0.45	1.00
	CH 78	2480	3.60	5.00
8DPSK	CH 0	2402	1.56	3.00
	CH 39	2441	-0.59	1.00
	CH 78	2480	3.70	5.00

BLE

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit (dBm)
1Mbps	CH 0	2402	5.28	7.00
	CH 19	2440	3.05	4.00
	CH 39	2480	7.23	8.00
2Mbps	CH 0	2404	6.86	8.00
	CH 19	2440	4.19	5.00
	CH 39	2478	8.82	10.00
S2	CH 0	2402	5.53	7.00
	CH 19	2440	3.36	4.00
	CH 39	2480	7.63	9.00
S8	CH 0	2402	4.82	6.00
	CH 19	2440	2.70	4.00
	CH 39	2480	6.83	8.00