TEST REPORT

Reference No.	:	WTD25D08233044W006
FCC ID	:	2BSNE-M55
Applicant	:	Shenzhen Telemiles Co., Ltd
Address	:	24F, Block B of Block A.B, Haiwang Building, Nanhai Blvd No.2221, Nanshan Street, Nanshan District, Shenzhen, China
Manufacturer	:	Shenzhen Telemiles Co., Ltd
Address	:	24F, Block B of Block A.B, Haiwang Building, Nanhai Blvd No.2221, Nanshan Street, Nanshan District, Shenzhen, China
Product	:	ONE
Model(s)	:	M55
Standards	:	FCC CFR47 Part 22 Subpart H FCC CFR47 Part 24 Subpart E FCC CFR47 Part 27 FCC CFR47 Part 90
Date of Receipt Sample	:	2025-09-22
Date of Test	:	2025-10-10 to 2025-11-06
Date of Issue	:	2025-12-19
Test Result	:	**Pass**

Remarks:
The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:
Waltek Testing Group Co., Ltd.
Address: No. 77, Houjie Section, Guantai Road, Houjie Town, Dongguan City, Guangdong, China
Tel: +86-769-2267 6998
Fax: +86-769-2267 6828

Compiled by:

James Cheng

James Cheng / Project Engineer

Approved by:

Deval Qin

Deval Qin / Designated Reviewer

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3 Revision History

Test Report No.	Date of Receipt Sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTD25D08233044W006	2025-09-22	2025-10-10 to 2025-11-06	2025-12-19	Original	-	Valid

4 General Information

4.1 General Description of E.U.T.

Product:	ONE
Model(s):	M55
Model Description:	N/A
Test Sample No.:	1-1/1
LTE Band(s):	FDD/TDD Band 2/4/5/7/12/13/14/17/25/26/41/66/71
Hardware Version:	Mobile.Router.H01
Software Version:	Mobile.Router.B03

4.2 Details of E.U.T.

Operation Frequency:	LTE Band 2: 1850~1910MHz LTE Band 4: 1710~1755MHz LTE Band 5: 824~849MHz LTE Band 7: 2500~2570MHz LTE Band 12: 699~716MHz LTE Band 13: 777~787MHz LTE Band 14: 788~798MHz LTE Band 17: 704~716MHz LTE Band 25 1850~1915MHz LTE Band 26(Part 90): 814~824MHz LTE Band 26(Part 22): 824~849MHz LTE Band 41: 2496~2690MHz LTE Band 66: 1710~1780MHz LTE Band 71: 663~698MHz
Max. RF output power:	LTE Band 2: 23.60dBm LTE Band 4: 23.18dBm LTE Band 5: 23.78dBm LTE Band 7: 22.53dBm LTE Band 12: 23.27dBm LTE Band 13: 23.27dBm LTE Band 14: 23.11dBm LTE Band 17: 23.13dBm LTE Band 25: 23.36dBm LTE Band 26(Part 90): 23.50dBm LTE Band 26(Part 22): 23.63dBm LTE Band 41: 23.11dBm LTE Band 66: 23.17dBm LTE Band 71: 23.95dBm
Max. ERP/EIRP:	LTE Band 2: 25.98dBm(QPSK), 25.86dBm(16QAM) LTE Band 4: 25.38dBm(QPSK), 24.97dBm(16QAM) LTE Band 5: 25.34dBm(QPSK), 25.13dBm(16QAM) LTE Band 7: 25.29dBm(QPSK), 25.07dBm(16QAM) LTE Band 12: 24.10dBm(QPSK), 23.74dBm(16QAM) LTE Band 13: 24.03dBm(QPSK), 23.74dBm(16QAM)

	LTE Band 14: 23.87dBm(QPSK), 23.52dBm(16QAM) LTE Band 17: 23.88dBm(QPSK), 23.41dBm(16QAM) LTE Band 25: 25.73dBm(QPSK), 25.52dBm(16QAM) LTE Band 26(Part 90): 24.98dBm(QPSK), 24.50dBm(16QAM) LTE Band 26(Part 22): 25.11dBm(QPSK), 24.99dBm(16QAM) LTE Band 41: 25.86dBm(QPSK), 25.82dBm(16QAM) LTE Band 66: 25.32dBm(QPSK), 25.21dBm(16QAM) LTE Band 71: 23.43dBm(QPSK), 23.04dBm(16QAM)
Type of Modulation:	LTE: QPSK, 16QAM, 64QAM
Antenna installation:	LTE: FPC Antenna
Antenna Gain:	LTE Band 2: 2.4dBi LTE Band 4: 2.2dBi LTE Band 5: 1.6dBi LTE Band 7: 2.8dBi LTE Band 12: 0.9dBi LTE Band 13: 0.9dBi LTE Band 14: 0.9dBi LTE Band 17: 0.9dBi LTE Band 25: 2.4dBi LTE Band 26(Part 90):1.6dBi LTE Band 26(Part 22): 1.6dBi LTE Band 41 2.8dBi LTE Band 66: 2.2dBi LTE Band 71: -0.5dBi

Note:
#: The antenna gain is provided by the applicant, and the applicant should be responsible for its authenticity, WALTEK lab has not verified the authenticity of its information.

Ratings:	TYPE-C Input: DC 5V/3A, DC 9V/2A, DC 12V/1.5A TYPE-C output: DC 5V/3A, DC 9V/2.22A, DC 12V/1.67A CC line Input: DC 5V/3A, DC 9V/2A, DC 12V/1.5A CC line output: DC 5V/3A, DC 9V/2.22A, DC 12V/1.67A USB-A output: DC 5V/3A, DC 9V/2A, DC 12V/1.5A, DC 10V/2.25A Lighting Output: DC 5V/2.4A
Battery:	DC 3.85V, 10000mAh
Type of Emission:	LTE Band 2 1.4MHz: 1M09G7D(QPSK), 1M09W7D(16QAM) LTE Band 2 3MHz: 2M68G7D(QPSK), 2M68W7D(16QAM) LTE Band 2 5MHz: 4M49G7D(QPSK), 4M49W7D(16QAM) LTE Band 2 10 MHz: 8M92G7D(QPSK), 8M92W7D(16QAM) LTE Band 2 15MHz: 13M5G7D(QPSK), 13M5W7D(16QAM) LTE Band 2 20MHz: 17M9G7D(QPSK), 17M9W7D(16QAM) LTE Band 4 1.4MHz: 1M09G7D(QPSK), 1M09W7D(16QAM) LTE Band 4 3MHz: 2M68G7D(QPSK), 2M68W7D(16QAM) LTE Band 4 5MHz: 4M49G7D(QPSK), 4M49W7D(16QAM) LTE Band 4 10 MHz: 8M92G7D(QPSK), 8M91W7D(16QAM) LTE Band 4 15MHz: 13M5G7D(QPSK), 13M5W7D(16QAM) LTE Band 4 20MHz: 17M9G7D(QPSK), 17M9W7D(16QAM) LTE Band 5 1.4MHz: 1M09G7D(QPSK), 1M09W7D(16QAM) LTE Band 5 3MHz: 2M68G7D(QPSK), 2M68W7D(16QAM) LTE Band 5 5MHz: 4M49G7D(QPSK), 4M49W7D(16QAM)

LTE Band 5 10 MHz: 8M93G7D(QPSK), 8M92W7D(16QAM)
LTE Band 7 5MHz: 4M49G7D(QPSK), 4M49W7D(16QAM)
LTE Band 7 10 MHz: 8M92G7D(QPSK), 8M92W7D(16QAM)
LTE Band 7 15MHz: 13M5G7D(QPSK), 13M5W7D(16QAM)
LTE Band 7 20MHz: 17M9G7D(QPSK), 17M9W7D(16QAM)
LTE Band 12 1.4MHz: 1M09G7D(QPSK), 1M09W7D(16QAM)
LTE Band 12 3MHz: 2M69G7D(QPSK), 2M68W7D(16QAM)
LTE Band 12 5MHz: 4M49G7D(QPSK), 4M49W7D(16QAM)
LTE Band 12 10MHz: 8M92G7D(QPSK), 8M92W7D(16QAM)
LTE Band 13 5MHz: 4M49G7D(QPSK), 4M49W7D(16QAM)
LTE Band 13 10 MHz: 8M93G7D(QPSK), 8M92W7D(16QAM)
LTE Band 14 5MHz: 4M49G7D(QPSK), 4M49W7D(16QAM)
LTE Band 14 10 MHz: 8M92G7D(QPSK), 8M91W7D(16QAM)
LTE Band 17 5MHz: 4M49G7D(QPSK), 4M49W7D(16QAM)
LTE Band 17 10 MHz: 8M92G7D(QPSK), 8M92W7D(16QAM)
LTE Band 25 1.4MHz: 1M09G7D(QPSK), 1M09W7D(16QAM)
LTE Band 25 3MHz: 2M68G7D(QPSK), 2M68W7D(16QAM)
LTE Band 25 5MHz: 4M49G7D(QPSK), 4M49W7D(16QAM)
LTE Band 25 10 MHz: 8M93G7D(QPSK), 8M93W7D(16QAM)
LTE Band 25 15MHz: 13M5G7D(QPSK), 13M5W7D(16QAM)
LTE Band 25 20MHz: 17M9G7D(QPSK), 17M9W7D(16QAM)
LTE Band 26(Part 90) 1.4MHz: 1M09G7D(QPSK), 1M09W7D(16QAM)
LTE Band 26(Part 90) 3MHz: 2M68G7D(QPSK), 2M68W7D(16QAM)
LTE Band 26(Part 90) 5MHz: 4M49G7D(QPSK), 4M49W7D(16QAM)
LTE Band 26(Part 90) 10 MHz: 8M91G7D(QPSK), 8M90W7D(16QAM)
LTE Band 26(Part 22) 1.4MHz: 1M09G7D(QPSK), 1M09W7D(16QAM)
LTE Band 26(Part 22) 3MHz: 2M68G7D(QPSK), 2M68W7D(16QAM)
LTE Band 26(Part 22) 5MHz: 4M49G7D(QPSK), 4M48W7D(16QAM)
LTE Band 26(Part 22) 10 MHz: 8M92G7D(QPSK), 8M92W7D(16QAM)
LTE Band 26(Part 22) 15MHz: 13M5G7D(QPSK), 13M5W7D(16QAM)
LTE Band 41 5MHz: 4M49G7D(QPSK), 4M48W7D(16QAM)
LTE Band 41 10 MHz: 8M92G7D(QPSK), 8M92W7D(16QAM)
LTE Band 41 15 MHz: 13M5G7D(QPSK), 13M5W7D(16QAM)
LTE Band 41 20 MHz: 17M9G7D(QPSK), 17M9W7D(16QAM)
LTE Band 66 1.4MHz: 1M09G7D(QPSK), 1M09W7D(16QAM)
LTE Band 66 3MHz: 2M68G7D(QPSK), 2M68W7D(16QAM)
LTE Band 66 5MHz: 4M49G7D(QPSK), 4M49W7D(16QAM)
LTE Band 66 10 MHz: 8M92G7D(QPSK), 8M92W7D(16QAM)
LTE Band 66 15MHz: 13M5G7D(QPSK), 13M5W7D(16QAM)
LTE Band 66 20MHz: 17M9G7D(QPSK), 17M9W7D(16QAM)
LTE Band 71 5MHz: 4M49G7D(QPSK), 4M49W7D(16QAM)
LTE Band 71 10 MHz: 8M92G7D(QPSK), 8M91W7D(16QAM)
LTE Band 71 15 MHz: 13M4G7D(QPSK), 13M4W7D(16QAM)
LTE Band 71 20 MHz: 17M8G7D(QPSK), 17M8W7D(16QAM)

4.3 Test Mode

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, the worst data were recorded and reported.

Support Band	Test Mode BW(MHz)	Channel Frequency	Channel Number
LTE Band 2	1.4	1850.7 MHz	18607
		1880.0 MHz	18900
		1909.3 MHz	19193
	3	1851.5 MHz	18615
		1880.0 MHz	18900
		1908.5 MHz	19185
	5	1852.5 MHz	18625
		1880.0 MHz	18900
		1907.5 MHz	19175
	10	1855.0 MHz	18650
		1880.0 MHz	18900
		1905.0 MHz	19150
	15	1857.5 MHz	18675
		1880.0 MHz	18900
		1902.5 MHz	19125
	20	1860.0 MHz	18700
		1880.0 MHz	18900
		1900.0 MHz	19100
LTE Band 4	1.4	1710.7 MHz	19957
		1732.5 MHz	20175
		1754.3 MHz	20393
	3	1711.5 MHz	19965
		1732.5 MHz	20175
		1753.5 MHz	20385
	5	1712.5 MHz	19975
		1732.5 MHz	20175
		1752.5 MHz	20375
	10	1715.0 MHz	20000
		1732.5 MHz	20175
		1750.0 MHz	20350
	15	1717.5 MHz	20025
		1732.5 MHz	20175
		1747.5 MHz	20325
	20	1720.0 MHz	20050
		1732.5 MHz	20175
		1745.0 MHz	20300
LTE Band 5	1.4	824.7 MHz	20407
		836.5 MHz	20525

		848.3 MHz	20643
	3	825.5 MHz	20415
		836.5 MHz	20525
		847.5 MHz	20635
	5	826.5 MHz	20425
		836.5 MHz	20525
		846.5 MHz	20625
	10	829.0 MHz	20450
		836.5 MHz	20525
		844.0 MHz	20600
LTE Band 7	5	2502.5 MHz	20775
		2535.0 MHz	21100
		2567.5 MHz	21425
	10	2505.0 MHz	20800
		2535.0 MHz	21100
		2565.0 MHz	21400
	15	2507.5 MHz	20825
		2535.0 MHz	21100
		2562.5 MHz	21375
	20	2510.0 MHz	20850
		2535.0 MHz	21100
		2560.0 MHz	21350
LTE Band 12	1.4	699.7 MHz	23017
		707.5 MHz	23095
		715.3 MHz	23173
	3	700.5 MHz	23025
		707.5 MHz	23095
		714.5 MHz	23165
	5	701.5 MHz	23035
		707.5 MHz	23095
		713.5 MHz	23155
	10	704.0 MHz	23060
		707.5 MHz	23095
		711.0 MHz	23130
LTE Band 13	5	779.5 MHz	23205
		782.0 MHz	23230
		784.5 MHz	23255
	10	782.0 MHz	23230
LTE Band 14	5	790.5 MHz	23305
		793.0 MHz	23330
		795.5 MHz	23355
	10	793.0 MHz	23330

LTE Band 17	5	706.5 MHz	23755
		710.0 MHz	23790
		713.5 MHz	23825
	10	709.0 MHz	23780
		710.0 MHz	23790
		711.0 MHz	23800
LTE Band 25	1.4	1850.7 MHz	26047
		1882.5 MHz	26365
		1914.3 MHz	26683
	3	1851.5 MHz	26055
		1882.5 MHz	26365
		1913.5 MHz	26675
	5	1852.5 MHz	26065
		1882.5 MHz	26365
		1912.5 MHz	26665
	10	1855.0 MHz	26090
		1882.5 MHz	26365
		1910.0 MHz	26640
	15	1857.5 MHz	26155
		1882.5 MHz	26365
		1907.5 MHz	26615
	20	1860.0 MHz	26140
		1882.5 MHz	26365
		1905.0 MHz	26590
LTE Band 26 (Part 90)	1.4	814.7 MHz	26697
		819.0 MHz	26740
		823.3 MHz	26783
	3	815.5 MHz	26705
		819.0 MHz	26740
		822.5 MHz	26775
	5	816.5 MHz	26715
		819.0 MHz	26740
		821.5 MHz	26765
	10	819.0 MHz	26740
LTE Band 26 (Part 22)	1.4	824.7 MHz	26797
		836.5 MHz	26915
		848.3 MHz	27033
	3	825.5 MHz	26805
		836.5 MHz	26915
		847.5 MHz	27025
	5	826.5 MHz	26815
		836.5 MHz	26915
		846.5 MHz	27015

	10	829.0 MHz	26840
		836.5 MHz	26915
		844.0 MHz	26990
	15	831.5 MHz	26865
		836.5 MHz	26915
		841.5 MHz	26965
LTE Band 41	5	2498.5 MHz	39675
		2593.0 MHz	40620
		2687.5MHz	41565
	10	2501.0 MHz	39700
		2593.0 MHz	40620
		2685.0 MHz	41540
	15	2503.5 MHz	39725
		2593.0 MHz	40620
		2682.5 MHz	41515
	20	2506.0MHz	39750
		2593.0 MHz	40620
		2680.0 MHz	41490
LTE Band 66	1.4	1710.7MHz	131979
		1744.9 MHz	132321
		1779.2 MHz	132664
	3	1711.5 MHz	131987
		1744.9 MHz	132321
		1778.4MHz	132656
	5	1712.5 MHz	131997
		1744.9 MHz	132321
		1777.4 MHz	132646
	10	1715.0 MHz	132022
		1744.9 MHz	132321
		1774.9 MHz	132621
	15	1722.5 MHz	132097
		1744.9 MHz	132321
		1767.4 MHz	132546
	20	1720.0 MHz	132072
		1744.9 MHz	132321
		1759.9 MHz	132471

LTE Band 71	5	665.5 MHz	133147
		680.5 MHz	133297
		695.5 MHz	133447
	10	668 MHz	133172
		680.5MHz	133297
		693 MHz	133422
	15	670.5 MHz	133197
		680.5 MHz	133297
		690.5 MHz	133397
	20	673 MHz	133222
		683 MHz	133322
		688 MHz	133372
Remark: All mode(s) were tested and the worst data was recorded.			

4.4 Test Facility

The test facility has a test site registered with the following organizations:

ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.

Waltek Testing Group Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration number 7760A, October 15, 2016.

FCC Designation No.: CN1201. Test Firm Registration No.: 523476.

Waltek Testing Group Co., Ltd. EMC Laboratory `has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration number 523476, September 10, 2019.

5 Test Summary

Test Items	Test Requirement	Result
RF Output Power	2.1046 22.913 (a) 24.232 (c) 27.50(h.2) 27.50(d.4) 90.635	PASS
Peak-to-Average Ratio	24.232 (d) 27.50(d)	PASS
Bandwidth	2.1049 22.905 22.917 24.238 27.53(a) 90.691	PASS
Spurious Emissions at Antenna Terminal	2.1051 22.917 (a) 24.238 (a) 27.53(h) 27.53(m)(4) 90.691	PASS
Field Strength of Spurious Radiation	2.1053 22.917 (a) 24.238 (a) 27.53(h) 27.53(m)(4) 90.691	PASS
Out of band emission	22.917 (a) 24.238 (a) 27.53(h) 27.53(m)(4) 90.691	PASS
Frequency Stability	2.1055 22.355 24.235 27.5(h) 27.54 90.231	PASS
Maximum Permissible Exposure (SAR)	1.1307 2.1093	PASS

6 Equipment Used during Test

6.1 Equipments List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date	Calibration Due Date
3m Semi-anechoic Chamber for Radiation Emissions 1#						
1	Spectrum Analyzer	R&S	FSP30	100091	2025-04-19	2026-04-18
2	Amplifier	Agilent	8447D	2944A10178	2025-07-04	2026-07-03
3	Tri-log Broadband Antenna	SCHWARZBECK	VULB9163	336	2025-07-20	2026-07-19
4	Coaxial Cable	Top	TYPE16(13M)	-	2025-04-19	2026-04-18
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1314	2025-08-09	2026-08-08
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	2025-07-04	2026-07-03
7	Broadband Preamplifier	COMPLIANCE	PAP-1G18	2004	2025-07-04	2026-07-03
8	Coaxial Cable	Top	ZT26-NJ-NJ-8M/FA	-	2025-04-19	2026-04-18
9	Microwave Amplifier	SCHWARZBECK	BBV 9721	100472	2025-04-19	2026-04-18
10	Coaxial Cable	Top	ZT40-2.92J-2.92J-2.0M	17100919	2025-04-19	2026-04-18
3m Semi-anechoic Chamber for Radiation Emissions 2#						
1	Test Receiver	R&S	ESCI	101296	2025-04-19	2026-04-18
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2025-07-05	2026-07-04
3	Active Loop Antenna	Com-Power	AL-130R	10160007	2025-04-21	2026-04-20
4	Amplifier	ANRITSU	MH648A	M43381	2025-04-19	2026-04-18
5	Cable	HUBER+SUHNER	CBL2	525178	2025-04-19	2026-04-18
RF Conducted Testing						
1	Spectrum Analyzer	Agilent	N9020A	MY49100060	2025-07-04	2026-07-03
2	Universal Radio Communication Tester	R&S	CMW 500	127818	2025-04-19	2026-04-18

Test Software:

Test Item	Software name	Software version
Conduction disturbance Radiated Emission(3m)	EZ-EMC	EZ-EMC(RA-03A1-1)

6.2 Measurement Uncertainty

Parameter	Uncertainty
Conducted Emission	± 3.64 dB(AC mains 150KHz~30MHz)
Radiated Spurious Emissions	± 5.08 dB (Bilog antenna 30M~1000MHz)
	± 5.47 dB (Horn antenna 1000M~25000MHz)
Radio Frequency	± 1 x 10^{-7}Hz
RF Power	± 0.42 dB
RF Power Density	± 0.7dB
Conducted Spurious Emissions	± 2.76 dB (9kHz~26500MHz)
Confidence interval：95%. Confidence factor:k=2	

7 RF Output Power

Test Requirement:	FCC Part 2.1046, 22.913 (a), 24.232 (c), 27.50(h.2); 27.50(d.4); 90.635
Test Method:	ANSI C63.26:2015 ANSI/TIA-603-E:2016
Test Mode:	TX transmitting

7.1 EUT Operation

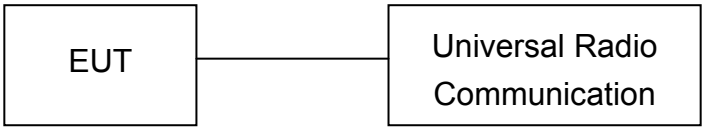
Operating Environment **:**

Temperature:	22.5 °C
Humidity:	52.1 % RH
Atmospheric Pressure:	101.2kPa

7.2 Test Procedure

Conducted method:

The RF output of the transmitter was connected to the wireless test set and the spectrum analyzer through sufficient attenuation.



Radiated method:

1. The setup of EUT is according with Standard ANSI/TIA-603-E.
2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

7.3 Test Result

Conducted Power

LTE Band 2:

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
1.4MHz	18607	1850.7	QPSK	1	0	**23.6**	23.0±1	/
				1	2	23.37	23.0±1	/
				1	5	23.46	23.0±1	/
				3	0	23.27	23.0±1	/
				3	1	23.24	23.0±1	/
				3	2	23.2	23.0±1	/
				6	0	22.14	23.0±1	1.0
			16QAM	1	0	22.41	22.0±1	1.0
				1	2	22.28	22.0±1	1.0
				1	5	22.35	22.0±1	1.0
				3	0	22.18	22.0±1	1.0
				3	1	22.17	22.0±1	1.0
				3	2	22.13	22.0±1	1.0
				6	0	21.32	22.0±1	1.0
	18900	1880	QPSK	1	0	23.19	23.0±1	/
				1	2	23.08	23.0±1	/
				1	5	23.16	23.0±1	/
				3	0	22.99	23.0±1	/
				3	1	22.99	23.0±1	/
				3	2	22.97	23.0±1	/
				6	0	22.03	23.0±1	1.0
			16QAM	1	0	22.52	22.0±1	1.0
				1	2	22.45	22.0±1	1.0
				1	5	22.55	22.0±1	1.0
				3	0	22.24	22.0±1	1.0
				3	1	22.25	22.0±1	1.0
				3	2	22.23	22.0±1	1.0
				6	0	21	22.0±1	1.0
	19193	1909.3	QPSK	1	0	23.36	23.0±1	/
				1	2	23.25	23.0±1	/
				1	5	23.35	23.0±1	/
				3	0	23.16	23.0±1	/
				3	1	23.24	23.0±1	/
				3	2	23.24	23.0±1	/
				6	0	22.16	23.0±1	1.0
			16QAM	1	0	22.29	22.0±1	1.0
				1	2	22.27	22.0±1	1.0
				1	5	22.29	22.0±1	1.0
				3	0	22.33	22.0±1	1.0
				3	1	22.41	22.0±1	1.0
				3	2	22.38	22.0±1	1.0
				6	0	21.48	22.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
3MHz	18615	1851.5	QPSK	1	0	23.23	22.5±1	/
				1	8	23.18	22.5±1	/
				1	14	23.03	22.5±1	/
				6	0	22.03	22.5±1	1.0
				6	4	22.02	22.5±1	1.0
				6	9	21.9	22.5±1	1.0
				15	0	21.96	22.5±1	1.0
			16QAM	1	0	21.99	21.0±1	1.0
				1	8	21.93	21.0±1	1.0
				1	14	21.79	21.0±1	1.0
				6	0	21.17	21.0±1	1.0
				6	4	21.17	21.0±1	1.0
				6	9	21.06	21.0±1	1.0
				15	0	21.05	21.0±1	1.0
	18900	1880	QPSK	1	0	22.92	22.5±1	/
				1	8	23.05	22.5±1	/
				1	14	22.9	22.5±1	/
				6	0	22.03	22.5±1	1.0
				6	4	22.04	22.5±1	1.0
				6	9	22	22.5±1	1.0
				15	0	21.98	22.5±1	1.0
			16QAM	1	0	22.37	22.0±1	1.0
				1	8	22.44	22.0±1	1.0
				1	14	22.31	22.0±1	1.0
				6	0	21.13	22.0±1	1.0
				6	4	21.16	22.0±1	1.0
				6	9	21.12	22.0±1	1.0
				15	0	21.04	22.0±1	1.0
	19185	1908.5	QPSK	1	0	23.02	22.5±1	/
				1	8	23.15	22.5±1	/
				1	14	23.22	22.5±1	/
				6	0	22.08	22.5±1	1.0
				6	4	22.11	22.5±1	1.0
				6	9	22.18	22.5±1	1.0
				15	0	22.07	22.5±1	1.0
			16QAM	1	0	22.02	22.0±1	1.0
				1	8	22.13	22.0±1	1.0
				1	14	22.13	22.0±1	1.0
				6	0	21.21	22.0±1	1.0
				6	4	21.24	22.0±1	1.0
				6	9	21.31	22.0±1	1.0
				15	0	21.13	22.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
5MHz	18625	1852.5	QPSK	1	0	23.22	22.5±1	/
				1	12	23.12	22.5±1	/
				1	24	23.04	22.5±1	/
				12	0	21.9	22.5±1	1.0
				12	6	21.89	22.5±1	1.0
				12	11	21.83	22.5±1	1.0
				25	0	21.82	22.5±1	1.0
			16QAM	1	0	22.13	21.5±1	1.0
				1	12	22.07	21.5±1	1.0
				1	24	22.07	21.5±1	1.0
				12	0	21.01	21.5±1	1.0
				12	6	21.01	21.5±1	1.0
				12	11	20.96	21.5±1	1.0
				25	0	20.9	21.5±1	1.0
	18900	1880	QPSK	1	0	22.85	22.0±1	/
				1	12	22.98	22.0±1	/
				1	24	22.75	22.0±1	/
				12	0	21.86	22.0±1	1.0
				12	6	22	22.0±1	1.0
				12	11	21.9	22.0±1	1.0
				25	0	21.92	22.0±1	1.0
			16QAM	1	0	22.36	22.0±1	1.0
				1	12	22.53	22.0±1	1.0
				1	24	22.26	22.0±1	1.0
				12	0	21.06	22.0±1	1.0
				12	6	21.16	22.0±1	1.0
				12	11	21.07	22.0±1	1.0
				25	0	21.01	22.0±1	1.0
	19175	1907.5	QPSK	1	0	23.09	22.5±1	/
				1	12	23.09	22.5±1	/
				1	24	23.26	22.5±1	/
				12	0	22.05	22.5±1	1.0
				12	6	22.1	22.5±1	1.0
				12	11	22.06	22.5±1	1.0
				25	0	22.05	22.5±1	1.0
			16QAM	1	0	22.16	22.0±1	1.0
				1	12	22.16	22.0±1	1.0
				1	24	22.24	22.0±1	1.0
				12	0	21.18	22.0±1	1.0
				12	6	21.23	22.0±1	1.0
				12	11	21.2	22.0±1	1.0
				25	0	21.09	22.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
10MHz	18650	1855	QPSK	1	0	23.04	22.5±1	/
				1	24	23.08	22.5±1	/
				1	49	22.85	22.5±1	/
				25	0	21.69	22.5±1	1.0
				25	12	21.92	22.5±1	1.0
				25	24	21.79	22.5±1	1.0
				50	0	21.9	22.5±1	1.0
			16QAM	1	0	21.73	21.0±1	1.0
				1	24	21.91	21.0±1	1.0
				1	49	21.77	21.0±1	1.0
				25	0	20.77	21.0±1	1.0
				25	12	21.03	21.0±1	1.0
				25	24	20.92	21.0±1	1.0
				50	0	20.95	21.0±1	1.0
	18900	1880	QPSK	1	0	22.55	22.0±1	/
				1	24	22.93	22.0±1	/
				1	49	22.67	22.0±1	/
				25	0	21.68	22.0±1	1.0
				25	12	21.93	22.0±1	1.0
				25	24	21.73	22.0±1	1.0
				50	0	21.83	22.0±1	1.0
			16QAM	1	0	21.95	21.5±1	1.0
				1	24	22.38	21.5±1	1.0
				1	49	22.04	21.5±1	1.0
				25	0	20.72	21.5±1	1.0
				25	12	21.02	21.5±1	1.0
				25	24	20.8	21.5±1	1.0
				50	0	20.93	21.5±1	1.0
	19150	1905	QPSK	1	0	22.58	22.5±1	/
				1	24	23.01	22.5±1	/
				1	49	23.06	22.5±1	/
				25	0	21.91	22.5±1	1.0
				25	12	22.06	22.5±1	1.0
				25	24	21.88	22.5±1	1.0
				50	0	21.99	22.5±1	1.0
			16QAM	1	0	21.77	22.0±1	1.0
				1	24	22.12	22.0±1	1.0
				1	49	22.03	22.0±1	1.0
				25	0	21.03	22.0±1	1.0
				25	12	21.23	22.0±1	1.0
				25	24	21.05	22.0±1	1.0
				50	0	21.11	22.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
15MHz	18675	1857.5	QPSK	1	0	23.1	22.5±1	/
				1	37	23.08	22.5±1	/
				1	74	23.05	22.5±1	/
				36	0	21.96	22.5±1	1.0
				36	16	22.03	22.5±1	1.0
				36	35	22.09	22.5±1	1.0
				75	0	22.03	22.5±1	1.0
			16QAM	1	0	21.83	21.5±1	1.0
				1	37	21.96	21.5±1	1.0
				1	74	22.09	21.5±1	1.0
				36	0	20.98	21.5±1	1.0
				36	16	21.07	21.5±1	1.0
				36	35	21.15	21.5±1	1.0
				75	0	21.1	21.5±1	1.0
	18900	1880	QPSK	1	0	22.69	22.0±1	/
				1	37	22.99	22.0±1	/
				1	74	22.78	22.0±1	/
				36	0	21.78	22.0±1	1.0
				36	16	21.94	22.0±1	1.0
				36	35	21.82	22.0±1	1.0
				75	0	21.93	22.0±1	1.0
			16QAM	1	0	22.1	21.5±1	1.0
				1	37	22.37	21.5±1	1.0
				1	74	22.21	21.5±1	1.0
				36	0	20.85	21.5±1	1.0
				36	16	21.08	21.5±1	1.0
				36	35	20.91	21.5±1	1.0
				75	0	21.06	21.5±1	1.0
	19125	1902.5	QPSK	1	0	23.03	22.5±1	/
				1	37	22.91	22.5±1	/
				1	74	23.18	22.5±1	/
				36	0	22.01	22.5±1	1.0
				36	16	22.12	22.5±1	1.0
				36	35	21.98	22.5±1	1.0
				75	0	21.97	22.5±1	1.0
			16QAM	1	0	22.54	22.0±1	1.0
				1	37	22.43	22.0±1	1.0
				1	74	22.44	22.0±1	1.0
				36	0	21.03	22.0±1	1.0
				36	16	21.14	22.0±1	1.0
				36	35	21.08	22.0±1	1.0
				75	0	21.07	22.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
20MHz	18700	1860	QPSK	1	0	23	22.5±1	/
				1	49	23.01	22.5±1	/
				1	99	22.59	22.5±1	/
				50	0	21.95	22.5±1	1.0
				50	24	22.13	22.5±1	1.0
				50	49	22.08	22.5±1	1.0
				100	0	21.98	22.5±1	1.0
			16QAM	1	0	22.31	22.0±1	1.0
				1	49	22.59	22.0±1	1.0
				1	99	22.26	22.0±1	1.0
				50	0	21.01	22.0±1	1.0
				50	24	21.21	22.0±1	1.0
				50	49	21.12	22.0±1	1.0
				100	0	21.09	22.0±1	1.0
	18900	1880	QPSK	1	0	22.47	22.0±1	/
				1	49	22.91	22.0±1	/
				1	99	22.66	22.0±1	/
				50	0	21.65	22.0±1	1.0
				50	24	21.95	22.0±1	1.0
				50	49	21.81	22.0±1	1.0
				100	0	21.93	22.0±1	1.0
			16QAM	1	0	22.1	21.5±1	1.0
				1	49	22.44	21.5±1	1.0
				1	99	22.2	21.5±1	1.0
				50	0	20.74	21.5±1	1.0
				50	24	21.06	21.5±1	1.0
				50	49	20.87	21.5±1	1.0
				100	0	21.05	21.5±1	1.0
	19100	1900	QPSK	1	0	22.99	22.5±1	/
				1	49	22.86	22.5±1	/
				1	99	23.02	22.5±1	/
				50	0	22.23	22.5±1	1.0
				50	24	21.85	22.5±1	1.0
				50	49	22.07	22.5±1	1.0
				100	0	21.57	22.5±1	1.0
			16QAM	1	0	22.46	21.5±1	1.0
				1	49	22.32	21.5±1	1.0
				1	99	22.35	21.5±1	1.0
				50	0	21.26	21.5±1	1.0
				50	24	20.92	21.5±1	1.0
				50	49	21.11	21.5±1	1.0
				100	0	20.68	21.5±1	1.0

LTE Band 4:

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
1.4MHz	19957	1710.7	QPSK	1	0	23.17	22.5±1	/
				1	2	23.02	22.5±1	/
				1	5	**23.18**	22.5±1	/
				3	0	22.97	22.5±1	/
				3	1	22.97	22.5±1	/
				3	2	22.93	22.5±1	/
				6	0	21.83	22.5±1	1.0
			16QAM	1	0	22.06	22.0±1	1.0
				1	2	21.92	22.0±1	1.0
				1	5	22.08	22.0±1	1.0
				3	0	21.82	22.0±1	1.0
				3	1	21.84	22.0±1	1.0
				3	2	21.81	22.0±1	1.0
				6	0	21	22.0±1	1.0
	20175	1732.5	QPSK	1	0	23.16	22.5±1	/
				1	2	22.96	22.5±1	/
				1	5	23.08	22.5±1	/
				3	0	22.89	22.5±1	/
				3	1	22.88	22.5±1	/
				3	2	22.86	22.5±1	/
				6	0	21.76	22.5±1	1.0
			16QAM	1	0	22.31	21.5±1	1.0
				1	2	22.17	21.5±1	1.0
				1	5	22.28	21.5±1	1.0
				3	0	21.97	21.5±1	1.0
				3	1	21.97	21.5±1	1.0
				3	2	21.96	21.5±1	1.0
				6	0	20.75	21.5±1	1.0
	20393	1754.3	QPSK	1	0	23.03	22.5±1	/
				1	2	22.86	22.5±1	/
				1	5	22.99	22.5±1	/
				3	0	22.85	22.5±1	/
				3	1	22.86	22.5±1	/
				3	2	22.86	22.5±1	/
				6	0	21.68	22.5±1	1.0
			16QAM	1	0	21.85	21.0±1	1.0
				1	2	21.72	21.0±1	1.0
				1	5	21.9	21.0±1	1.0
				3	0	21.86	21.0±1	1.0
				3	1	21.87	21.0±1	1.0
				3	2	21.88	21.0±1	1.0
				6	0	21.03	21.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
3MHz	19965	1711.5	QPSK	1	0	22.95	22.5±1	/
				1	8	23.01	22.5±1	/
				1	14	22.92	22.5±1	/
				6	0	21.77	22.5±1	1.0
				6	4	21.82	22.5±1	1.0
				6	9	21.78	22.5±1	1.0
				15	0	21.77	22.5±1	1.0
			16QAM	1	0	21.62	21.0±1	1.0
				1	8	21.7	21.0±1	1.0
				1	14	21.65	21.0±1	1.0
				8	0	20.92	21.0±1	1.0
				8	4	20.98	21.0±1	1.0
				8	9	20.95	21.0±1	1.0
				15	0	20.87	21.0±1	1.0
	20175	1732.5	QPSK	1	0	22.99	22.0±1	/
				1	8	22.94	22.0±1	/
				1	14	22.88	22.0±1	/
				6	0	21.76	22.0±1	1.0
				6	4	21.78	22.0±1	1.0
				6	9	21.73	22.0±1	1.0
				15	0	21.72	22.0±1	1.0
			16QAM	1	0	22.12	21.5±1	1.0
				1	8	22.15	21.5±1	1.0
				1	14	22.06	21.5±1	1.0
				6	0	20.92	21.5±1	1.0
				6	4	20.94	21.5±1	1.0
				6	9	20.9	21.5±1	1.0
				15	0	20.83	21.5±1	1.0
	20385	1753.5	QPSK	1	0	22.93	22.0±1	/
				1	8	22.86	22.0±1	/
				1	14	22.88	22.0±1	/
				6	0	21.76	22.0±1	1.0
				6	4	21.79	22.0±1	1.0
				6	9	21.67	22.0±1	1.0
				15	0	21.75	22.0±1	1.0
			16QAM	1	0	21.77	21.0±1	1.0
				1	8	21.82	21.0±1	1.0
				1	14	21.75	21.0±1	1.0
				8	0	20.94	21.0±1	1.0
				8	4	20.98	21.0±1	1.0
				8	9	20.9	21.0±1	1.0
				15	0	20.86	21.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
5MHz	19975	1712.5	QPSK	1	0	22.88	22.0±1	/
				1	49	22.91	22.0±1	/
				1	99	22.72	22.0±1	/
				12	0	21.75	22.0±1	1.0
				12	24	21.82	22.0±1	1.0
				12	49	21.75	22.0±1	1.0
				25	0	21.72	22.0±1	1.0
			16QAM	1	0	21.92	21.0±1	1.0
				1	49	21.96	21.0±1	1.0
				1	99	21.75	21.0±1	1.0
				12	0	20.87	21.0±1	1.0
				12	24	20.96	21.0±1	1.0
				12	49	20.9	21.0±1	1.0
				25	0	20.81	21.0±1	1.0
	20175	1732.5	QPSK	1	0	22.91	22.0±1	/
				1	49	22.92	22.0±1	/
				1	99	22.82	22.0±1	/
				12	0	21.73	22.0±1	1.0
				12	24	21.78	22.0±1	1.0
				12	49	21.68	22.0±1	1.0
				25	0	21.69	22.0±1	1.0
			16QAM	1	0	22.19	21.5±1	1.0
				1	49	22.29	21.5±1	1.0
				1	99	22.18	21.5±1	1.0
				12	0	20.94	21.5±1	1.0
				12	24	20.99	21.5±1	1.0
				12	49	20.89	21.5±1	1.0
				25	0	20.83	21.5±1	1.0
	20375	1752.5	QPSK	1	0	22.94	22.5±1	/
				1	49	23.03	22.5±1	/
				1	99	22.88	22.5±1	/
				12	0	21.77	22.5±1	1.0
				12	24	21.82	22.5±1	1.0
				12	49	21.72	22.5±1	1.0
				25	0	21.73	22.5±1	1.0
			16QAM	1	0	21.85	21.0±1	1.0
				1	49	21.95	21.0±1	1.0
				1	99	21.89	21.0±1	1.0
				12	0	20.98	21.0±1	1.0
				12	24	21	21.0±1	1.0
				12	49	20.94	21.0±1	1.0
				25	0	20.77	21.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
10MHz	20000	1715	QPSK	1	0	22.76	22.0±1	/
				1	49	22.79	22.0±1	/
				1	99	22.75	22.0±1	/
				25	0	21.55	22.0±1	1.0
				25	24	21.58	22.0±1	1.0
				25	49	21.5	22.0±1	1.0
				50	0	21.5	22.0±1	1.0
			16QAM	1	0	21.47	21.0±1	1.0
				1	49	21.5	21.0±1	1.0
				1	99	21.52	21.0±1	1.0
				25	0	20.63	21.0±1	1.0
				25	24	20.67	21.0±1	1.0
				25	49	20.58	21.0±1	1.0
				50	0	20.55	21.0±1	1.0
	20175	1732.5	QPSK	1	0	22.79	22.0±1	/
				1	49	22.88	22.0±1	/
				1	99	22.73	22.0±1	/
				25	0	21.63	22.0±1	1.0
				25	24	21.71	22.0±1	1.0
				25	49	21.52	22.0±1	1.0
				50	0	21.59	22.0±1	1.0
			16QAM	1	0	22.02	21.5±1	1.0
				1	49	22.14	21.5±1	1.0
				1	99	21.96	21.5±1	1.0
				25	0	20.72	21.5±1	1.0
				25	24	20.81	21.5±1	1.0
				25	49	20.63	21.5±1	1.0
				50	0	20.68	21.5±1	1.0
	20350	1750	QPSK	1	0	22.58	22.0±1	/
				1	49	22.85	22.0±1	/
				1	99	22.66	22.0±1	/
				25	0	21.53	22.0±1	1.0
				25	24	21.62	22.0±1	1.0
				25	49	21.53	22.0±1	1.0
				50	0	21.49	22.0±1	1.0
			16QAM	1	0	21.49	21.0±1	1.0
				1	49	21.71	21.0±1	1.0
				1	99	21.55	21.0±1	1.0
				25	0	20.68	21.0±1	1.0
				25	24	20.87	21.0±1	1.0
				25	49	20.74	21.0±1	1.0
				50	0	20.7	21.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
15MHz	20025	1717.5	QPSK	1	0	22.75	22.0±1	/
				1	49	22.83	22.0±1	/
				1	99	22.81	22.0±1	/
				36	0	21.63	22.0±1	1.0
				36	24	21.75	22.0±1	1.0
				36	49	21.79	22.0±1	1.0
				75	0	21.68	22.0±1	1.0
			16QAM	1	0	21.53	21.0±1	1.0
				1	49	21.66	21.0±1	1.0
				1	99	21.61	21.0±1	1.0
				36	0	20.67	21.0±1	1.0
				36	24	20.82	21.0±1	1.0
				36	49	20.87	21.0±1	1.0
				75	0	20.77	21.0±1	1.0
	20175	1732.5	QPSK	1	0	22.82	22.0±1	/
				1	49	22.98	22.0±1	/
				1	99	22.74	22.0±1	/
				36	0	21.71	22.0±1	1.0
				36	24	21.73	22.0±1	1.0
				36	49	21.57	22.0±1	1.0
				75	0	21.63	22.0±1	1.0
			16QAM	1	0	21.98	21.5±1	1.0
				1	49	22.16	21.5±1	1.0
				1	99	21.95	21.5±1	1.0
				36	0	20.8	21.5±1	1.0
				36	24	20.83	21.5±1	1.0
				36	49	20.77	21.5±1	1.0
				75	0	20.82	21.5±1	1.0
	20325	1747.5	QPSK	1	0	22.77	22.0±1	/
				1	49	22.9	22.0±1	/
				1	99	22.77	22.0±1	/
				36	0	21.6	22.0±1	1.0
				36	24	21.65	22.0±1	1.0
				36	49	21.63	22.0±1	1.0
				75	0	21.59	22.0±1	1.0
			16QAM	1	0	22.06	21.5±1	1.0
				1	49	22.19	21.5±1	1.0
				1	99	22.02	21.5±1	1.0
				36	0	20.67	21.5±1	1.0
				36	24	20.76	21.5±1	1.0
				36	49	20.79	21.5±1	1.0
				75	0	20.71	21.5±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
20MHz	20050	1720	QPSK	1	0	22.63	22.0±1	/
				1	49	22.97	22.0±1	/
				1	99	22.78	22.0±1	/
				50	0	21.55	22.0±1	1.0
				50	24	21.8	22.0±1	1.0
				50	49	21.78	22.0±1	1.0
				100	0	21.64	22.0±1	1.0
			16QAM	1	0	22.1	21.5±1	1.0
				1	49	22.37	21.5±1	1.0
				1	99	22.29	21.5±1	1.0
				50	0	20.62	21.5±1	1.0
				50	24	20.89	21.5±1	1.0
				50	49	20.91	21.5±1	1.0
				100	0	20.74	21.5±1	1.0
	20175	1732.5	QPSK	1	0	22.7	22.0±1	/
				1	49	22.91	22.0±1	/
				1	99	22.65	22.0±1	/
				50	0	21.68	22.0±1	1.0
				50	24	21.76	22.0±1	1.0
				50	49	21.55	22.0±1	1.0
				100	0	21.61	22.0±1	1.0
			16QAM	1	0	22.06	21.5±1	1.0
				1	49	22.2	21.5±1	1.0
				1	99	22.1	21.5±1	1.0
				50	0	20.78	21.5±1	1.0
				50	24	20.86	21.5±1	1.0
				50	49	20.65	21.5±1	1.0
				100	0	20.73	21.5±1	1.0
	20300	1745	QPSK	1	0	22.7	22.0±1	/
				1	49	22.86	22.0±1	/
				1	99	22.63	22.0±1	/
				50	0	21.55	22.0±1	1.0
				50	24	21.72	22.0±1	1.0
				50	49	21.56	22.0±1	1.0
				100	0	21.62	22.0±1	1.0
			16QAM	1	0	21.99	21.5±1	1.0
				1	49	22.09	21.5±1	1.0
				1	99	21.91	21.5±1	1.0
				50	0	20.61	21.5±1	1.0
				50	24	20.76	21.5±1	1.0
				50	49	20.62	21.5±1	1.0
				100	0	20.7	21.5±1	1.0

LTE Band 5:

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
1.4MHz	20407	824.7	QPSK	1	0	23.57	23.0±1	/
				1	2	23.4	23.0±1	/
				1	5	23.6	23.0±1	/
				3	0	23.31	23.0±1	/
				3	1	23.39	23.0±1	/
				3	2	23.35	23.0±1	/
				6	0	22.36	23.0±1	1.0
			16QAM	1	0	22.57	22.0±1	1.0
				1	2	22.5	22.0±1	1.0
				1	5	22.52	22.0±1	1.0
				3	0	22.4	22.0±1	1.0
				3	1	22.4	22.0±1	1.0
				3	2	22.36	22.0±1	1.0
				6	0	21.39	22.0±1	1.0
	20525	836.5	QPSK	1	0	23.39	23.0±1	/
				1	2	23.25	23.0±1	/
				1	5	23.26	23.0±1	/
				3	0	23.23	23.0±1	/
				3	1	23.19	23.0±1	/
				3	2	23.1	23.0±1	/
				6	0	22.24	23.0±1	1.0
			16QAM	1	0	22.71	22.0±1	1.0
				1	2	22.62	22.0±1	1.0
				1	5	22.6	22.0±1	1.0
				3	0	22.46	22.0±1	1.0
				3	1	22.43	22.0±1	1.0
				3	2	22.35	22.0±1	1.0
				6	0	21.12	22.0±1	1.0
	20634	848.3	QPSK	1	0	23.3	22.5±1	/
				1	2	23.02	22.5±1	/
				1	5	22.79	22.5±1	/
				3	0	23.16	22.5±1	/
				3	1	23.02	22.5±1	/
				3	2	22.79	22.5±1	/
				6	0	21.85	22.5±1	1.0
			16QAM	1	0	22.19	22.0±1	1.0
				1	2	21.84	22.0±1	1.0
				1	5	21.64	22.0±1	1.0
				3	0	22.13	22.0±1	1.0
				3	1	22	22.0±1	1.0
				3	2	21.78	22.0±1	1.0
				6	0	21.06	22.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
3MHz	20415	825.5	QPSK	1	0	23.28	23.0±1	/
				1	8	23.31	23.0±1	/
				1	14	23.28	23.0±1	/
				6	0	22.26	23.0±1	1.0
				6	4	22.26	23.0±1	1.0
				6	9	22.24	23.0±1	1.0
				15	0	22.22	23.0±1	1.0
			16QAM	1	0	22.12	22.0±1	1.0
				1	8	22.17	22.0±1	1.0
				1	14	22.07	22.0±1	1.0
				8	0	21.31	22.0±1	1.0
				8	4	21.31	22.0±1	1.0
				8	9	21.3	22.0±1	1.0
				15	0	21.21	22.0±1	1.0
	20525	836.5	QPSK	1	0	23.24	23.0±1	/
				1	8	23.18	23.0±1	/
				1	14	23.01	23.0±1	/
				6	0	22.31	23.0±1	1.0
				6	4	22.24	23.0±1	1.0
				6	9	22.15	23.0±1	1.0
				15	0	22.16	23.0±1	1.0
			16QAM	1	0	22.6	22.0±1	1.0
				1	8	22.57	22.0±1	1.0
				1	14	22.36	22.0±1	1.0
				6	0	21.35	22.0±1	1.0
				6	4	21.29	22.0±1	1.0
				6	9	21.16	22.0±1	1.0
				15	0	21.17	22.0±1	1.0
	20635	847.5	QPSK	1	0	23.66	22.7±1	/
				1	8	23.33	22.7±1	/
				1	14	22.55	22.7±1	/
				6	0	22.38	22.7±1	1.0
				6	4	22.26	22.7±1	1.0
				6	9	21.87	22.7±1	1.0
				15	0	22.14	22.7±1	1.0
			16QAM	1	0	22.4	22.0±1	1.0
				1	8	22.19	22.0±1	1.0
				1	14	21.4	22.0±1	1.0
				8	0	21.51	22.0±1	1.0
				8	4	21.41	22.0±1	1.0
				8	9	21	22.0±1	1.0
				15	0	21.19	22.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
5MHz	20425	826.5	QPSK	1	0	23.24	23.0±1	/
				1	49	23.28	23.0±1	/
				1	99	23.27	23.0±1	/
				12	0	22.14	23.0±1	1.0
				12	24	22.23	23.0±1	1.0
				12	49	22.12	23.0±1	1.0
				25	0	22.14	23.0±1	1.0
			16QAM	1	0	22.33	22.0±1	1.0
				1	49	22.41	22.0±1	1.0
				1	99	22.32	22.0±1	1.0
				12	0	21.16	22.0±1	1.0
				12	24	21.25	22.0±1	1.0
				12	49	21.2	22.0±1	1.0
				25	0	21.12	22.0±1	1.0
	20525	836.5	QPSK	1	0	23.1	23.0±1	/
				1	49	23.13	23.0±1	/
				1	99	22.92	23.0±1	/
				12	0	22.24	23.0±1	1.0
				12	24	22.21	23.0±1	1.0
				12	49	22.01	23.0±1	1.0
				25	0	22.08	23.0±1	1.0
			16QAM	1	0	22.67	22.0±1	1.0
				1	49	22.69	22.0±1	1.0
				1	99	22.4	22.0±1	1.0
				12	0	21.34	22.0±1	1.0
				12	24	21.32	22.0±1	1.0
				12	49	21.13	22.0±1	1.0
				25	0	21.11	22.0±1	1.0
	20625	846.5	QPSK	1	0	23.36	23.0±1	/
				1	49	**23.78**	23.0±1	/
				1	99	22.71	23.0±1	/
				12	0	22.31	23.0±1	1.0
				12	24	22.44	23.0±1	1.0
				12	49	22.1	23.0±1	1.0
				25	0	22.17	23.0±1	1.0
			16QAM	1	0	22.21	22.0±1	1.0
				1	49	22.57	22.0±1	1.0
				1	99	21.59	22.0±1	1.0
				12	0	21.39	22.0±1	1.0
				12	24	21.59	22.0±1	1.0
				12	49	21.28	22.0±1	1.0
				25	0	21.24	22.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
10MHz	20450	829	QPSK	1	0	23.1	22.5±1	/
				1	49	23.25	22.5±1	/
				1	99	22.92	22.5±1	/
				25	0	21.97	22.5±1	1.0
				25	24	22.2	22.5±1	1.0
				25	49	22.03	22.5±1	1.0
				50	0	22.13	22.5±1	1.0
			16QAM	1	0	21.81	21.5±1	1.0
				1	49	22.13	21.5±1	1.0
				1	99	21.82	21.5±1	1.0
				25	0	20.9	21.5±1	1.0
				25	24	21.18	21.5±1	1.0
				25	49	21.02	21.5±1	1.0
				50	0	21.09	21.5±1	1.0
	20525	836.5	QPSK	1	0	23.11	22.5±1	/
				1	49	23.04	22.5±1	/
				1	99	22.54	22.5±1	/
				25	0	21.92	22.5±1	1.0
				25	24	22.04	22.5±1	1.0
				25	49	21.63	22.5±1	1.0
				50	0	21.78	22.5±1	1.0
			16QAM	1	0	22.32	21.5±1	1.0
				1	49	22.48	21.5±1	1.0
				1	99	21.58	21.5±1	1.0
				25	0	20.88	21.5±1	1.0
				25	24	21.01	21.5±1	1.0
				25	49	20.71	21.5±1	1.0
				50	0	20.73	21.5±1	1.0
	20600	844	QPSK	1	0	22.64	22.5±1	/
				1	49	23.08	22.5±1	/
				1	99	22.56	22.5±1	/
				25	0	21.34	22.5±1	1.0
				25	24	21.87	22.5±1	1.0
				25	49	21.97	22.5±1	1.0
				50	0	21.88	22.5±1	1.0
			16QAM	1	0	21.37	21.0±1	1.0
				1	49	21.89	21.0±1	1.0
				1	99	21.42	21.0±1	1.0
				25	0	20.47	21.0±1	1.0
				25	24	21.01	21.0±1	1.0
				25	49	21.08	21.0±1	1.0
				50	0	20.93	21.0±1	1.0

LTE Band 7:

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
5MHz	20775	2502.5	QPSK	1	0	22.04	22.0±1	/
				1	49	22.13	22.0±1	/
				1	99	21.99	22.0±1	/
				12	0	21.08	22.0±1	1.0
				12	24	21.13	22.0±1	1.0
				12	49	21.05	22.0±1	1.0
				25	0	21.05	22.0±1	1.0
			16QAM	1	0	21.54	21.0±1	1.0
				1	49	21.61	21.0±1	1.0
				1	99	21.48	21.0±1	1.0
				12	0	20.17	21.0±1	1.0
				12	24	20.27	21.0±1	1.0
				12	49	20.14	21.0±1	1.0
				25	0	20.11	21.0±1	1.0
	21100	2535	QPSK	1	0	22.33	22.0±1	/
				1	49	22.33	22.0±1	/
				1	99	22.11	22.0±1	/
				12	0	21.25	22.0±1	1.0
				12	24	21.32	22.0±1	1.0
				12	49	21.24	22.0±1	1.0
				25	0	21.22	22.0±1	1.0
			16QAM	1	0	21.37	21.0±1	1.0
				1	49	21.41	21.0±1	1.0
				1	99	21.21	21.0±1	1.0
				12	0	20.26	21.0±1	1.0
				12	24	20.33	21.0±1	1.0
				12	49	20.27	21.0±1	1.0
				25	0	20.15	21.0±1	1.0
	21425	2567.5	QPSK	1	0	**22.53**	21.6±1	/
				1	49	22.52	21.6±1	/
				1	99	22.29	21.6±1	/
				12	0	21.45	21.6±1	1.0
				12	24	21.57	21.6±1	1.0
				12	49	21.37	21.6±1	1.0
				25	0	21.47	21.6±1	1.0
			16QAM	1	0	21.66	21.0±1	1.0
				1	49	21.7	21.0±1	1.0
				1	99	21.39	21.0±1	1.0
				12	0	20.55	21.0±1	1.0
				12	24	20.63	21.0±1	1.0
				12	49	20.43	21.0±1	1.0
				25	0	20.48	21.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
10MHz	20800	2505	QPSK	1	0	21.95	21.5±1	/
				1	49	22.09	21.5±1	/
				1	99	21.78	21.5±1	/
				25	0	20.97	21.5±1	1.0
				25	24	21.04	21.5±1	1.0
				25	49	20.96	21.5±1	1.0
				50	0	20.91	21.5±1	1.0
			16QAM	1	0	20.81	20.0±1	1.0
				1	49	20.98	20.0±1	1.0
				1	99	20.69	20.0±1	1.0
				25	0	19.94	20.0±1	1.0
				25	24	20.02	20.0±1	1.0
				25	49	19.95	20.0±1	1.0
				50	0	19.86	20.0±1	1.0
	21100	2535	QPSK	1	0	22.12	22.0±1	/
				1	49	22.2	22.0±1	/
				1	99	21.83	22.0±1	/
				25	0	21.13	22.0±1	1.0
				25	24	21.18	22.0±1	1.0
				25	49	21.03	22.0±1	1.0
				50	0	21.06	22.0±1	1.0
			16QAM	1	0	21.47	21.0±1	1.0
				1	49	21.58	21.0±1	1.0
				1	99	21.2	21.0±1	1.0
				25	0	20.14	21.0±1	1.0
				25	24	20.24	21.0±1	1.0
				25	49	20.05	21.0±1	1.0
				50	0	20.12	21.0±1	1.0
	21400	2565	QPSK	1	0	22.07	22.0±1	/
				1	49	22.38	22.0±1	/
				1	99	22	22.0±1	/
				25	0	21.25	22.0±1	1.0
				25	24	21.42	22.0±1	1.0
				25	49	21.23	22.0±1	1.0
				50	0	21.28	22.0±1	1.0
			16QAM	1	0	21.12	21.0±1	1.0
				1	49	21.47	21.0±1	1.0
				1	99	21.01	21.0±1	1.0
				25	0	20.37	21.0±1	1.0
				25	24	20.55	21.0±1	1.0
				25	49	20.32	21.0±1	1.0
				50	0	20.36	21.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
15MHz	20825	2507.5	QPSK	1	0	21.95	21.5±1	/
				1	49	22.01	21.5±1	/
				1	99	21.94	21.5±1	/
				36	0	20.95	21.5±1	1.0
				36	24	21.05	21.5±1	1.0
				36	49	20.93	21.5±1	1.0
				75	0	20.89	21.5±1	1.0
			16QAM	1	0	20.8	20.0±1	1.0
				1	49	20.94	20.0±1	1.0
				1	99	20.9	20.0±1	1.0
				36	0	19.91	20.0±1	1.0
				36	24	20.04	20.0±1	1.0
				36	49	20.01	20.0±1	1.0
				75	0	19.93	20.0±1	1.0
	21100	2535	QPSK	1	0	22.15	22.0±1	/
				1	49	22.22	22.0±1	/
				1	99	21.83	22.0±1	/
				36	0	21.15	22.0±1	1.0
				36	24	21.21	22.0±1	1.0
				36	49	21.03	22.0±1	1.0
				75	0	21.13	22.0±1	1.0
			16QAM	1	0	21.49	21.0±1	1.0
				1	49	21.6	21.0±1	1.0
				1	99	21.22	21.0±1	1.0
				36	0	20.2	21.0±1	1.0
				36	24	20.26	21.0±1	1.0
				36	49	20.08	21.0±1	1.0
				75	0	20.17	21.0±1	1.0
	21375	2562.5	QPSK	1	0	22.09	22.0±1	/
				1	49	22.43	22.0±1	/
				1	99	22.09	22.0±1	/
				36	0	21.23	22.0±1	1.0
				36	24	21.43	22.0±1	1.0
				36	49	21.31	22.0±1	1.0
				75	0	21.29	22.0±1	1.0
			16QAM	1	0	21.6	21.0±1	1.0
				1	49	21.85	21.0±1	1.0
				1	99	21.46	21.0±1	1.0
				36	0	20.24	21.0±1	1.0
				36	24	20.41	21.0±1	1.0
				36	49	20.3	21.0±1	1.0
				75	0	20.31	21.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
20MHz	20850	2510	QPSK	1	0	21.81	21.0±1	/
				1	49	21.88	21.0±1	/
				1	99	21.83	21.0±1	/
				50	0	20.91	21.0±1	1.0
				50	24	21.03	21.0±1	1.0
				50	49	20.99	21.0±1	1.0
				100	0	20.83	21.0±1	1.0
			16QAM	1	0	21.3	20.7±1	1.0
				1	49	21.54	20.7±1	1.0
				1	99	21.4	20.7±1	1.0
				50	0	19.91	20.7±1	1.0
				50	24	20.03	20.7±1	1.0
				50	49	20.01	20.7±1	1.0
				100	0	19.86	20.7±1	1.0
	21100	2535	QPSK	1	0	21.91	21.5±1	/
				1	49	22.11	21.5±1	/
				1	99	21.6	21.5±1	/
				50	0	21.1	21.5±1	1.0
				50	24	21.18	21.5±1	1.0
				50	49	20.9	21.5±1	1.0
				100	0	21.04	21.5±1	1.0
			16QAM	1	0	21.41	20.7±1	1.0
				1	49	21.64	20.7±1	1.0
				1	99	21.16	20.7±1	1.0
				50	0	20.16	20.7±1	1.0
				50	24	20.21	20.7±1	1.0
				50	49	19.92	20.7±1	1.0
				100	0	20.07	20.7±1	1.0
	21350	2560	QPSK	1	0	21.72	21.5±1	/
				1	49	22.2	21.5±1	/
				1	99	21.98	21.5±1	/
				50	0	20.97	21.5±1	1.0
				50	24	21.21	21.5±1	1.0
				50	49	21.19	21.5±1	1.0
				100	0	20.96	21.5±1	1.0
			16QAM	1	0	21.14	20.7±1	1.0
				1	49	21.64	20.7±1	1.0
				1	99	21.38	20.7±1	1.0
				50	0	19.98	20.7±1	1.0
				50	24	20.24	20.7±1	1.0
				50	49	20.23	20.7±1	1.0
				100	0	20.03	20.7±1	1.0

LTE Band 12:

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
1.4MHz	23017	699.7	QPSK	1	0	23.19	22.5±1	/
				1	2	23.09	22.5±1	/
				1	5	**23.27**	22.5±1	/
				3	0	22.96	22.5±1	/
				3	1	22.99	22.5±1	/
				3	2	22.99	22.5±1	/
				6	0	21.81	22.5±1	1.0
			16QAM	1	0	21.92	21.5±1	1.0
				1	2	21.86	21.5±1	1.0
				1	5	22.1	21.5±1	1.0
				3	0	21.73	21.5±1	1.0
				3	1	21.77	21.5±1	1.0
				3	2	21.9	21.5±1	1.0
				6	0	20.95	21.5±1	1.0
	23095	707.5	QPSK	1	0	23.24	22.5±1	/
				1	2	23.05	22.5±1	/
				1	5	23.27	22.5±1	/
				3	0	23.02	22.5±1	/
				3	1	22.98	22.5±1	/
				3	2	23.03	22.5±1	/
				6	0	21.99	22.5±1	1.0
			16QAM	1	0	22.47	21.5±1	1.0
				1	2	22.34	21.5±1	1.0
				1	5	22.48	21.5±1	1.0
				3	0	22.13	21.5±1	1.0
				3	1	22.15	21.5±1	1.0
				3	2	22.2	21.5±1	1.0
				6	0	20.92	21.5±1	1.0
	23173	715.3	QPSK	1	0	22.85	22.0±1	/
				1	2	22.77	22.0±1	/
				1	5	22.93	22.0±1	/
				3	0	22.71	22.0±1	/
				3	1	22.71	22.0±1	/
				3	2	22.8	22.0±1	/
				6	0	21.83	22.0±1	1.0
			16QAM	1	0	21.84	22.0±1	1.0
				1	2	21.73	22.0±1	1.0
				1	5	21.91	22.0±1	1.0
				3	0	21.99	22.0±1	1.0
				3	1	21.98	22.0±1	1.0
				3	2	22	22.0±1	1.0
				6	0	21.11	22.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
3MHz	23025	700.5	QPSK	1	0	22.95	22.5±1	/
				1	8	23.16	22.5±1	/
				1	14	23.09	22.5±1	/
				8	0	21.86	22.5±1	1.0
				8	4	21.91	22.5±1	1.0
				8	9	21.94	22.5±1	1.0
				15	0	21.86	22.5±1	1.0
			16QAM	1	0	21.52	21.0±1	1.0
				1	8	21.81	21.0±1	1.0
				1	14	21.76	21.0±1	1.0
				8	0	20.93	21.0±1	1.0
				8	4	20.98	21.0±1	1.0
				8	9	21.02	21.0±1	1.0
				15	0	20.86	21.0±1	1.0
	23095	707.5	QPSK	1	0	23	22.5±1	/
				1	8	23.01	22.5±1	/
				1	14	22.96	22.5±1	/
				8	0	21.93	22.5±1	1.0
				8	4	21.97	22.5±1	1.0
				8	9	21.99	22.5±1	1.0
				15	0	21.91	22.5±1	1.0
			16QAM	1	0	22.26	21.5±1	1.0
				1	8	22.33	21.5±1	1.0
				1	14	22.25	21.5±1	1.0
				8	0	21.03	21.5±1	1.0
				8	4	21.07	21.5±1	1.0
				8	9	21.09	21.5±1	1.0
				15	0	20.97	21.5±1	1.0
	23165	714.5	QPSK	1	0	22.83	22.0±1	/
				1	8	22.76	22.0±1	/
				1	14	22.74	22.0±1	/
				8	0	21.85	22.0±1	1.0
				8	4	21.83	22.0±1	1.0
				8	9	21.85	22.0±1	1.0
				15	0	21.81	22.0±1	1.0
			16QAM	1	0	21.78	21.0±1	1.0
				1	8	21.74	21.0±1	1.0
				1	14	21.76	21.0±1	1.0
				8	0	20.95	21.0±1	1.0
				8	4	20.93	21.0±1	1.0
				8	9	20.95	21.0±1	1.0
				15	0	20.83	21.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
5MHz	23035	701.5	QPSK	1	0	22.87	22.5±1	/
				1	49	23.07	22.5±1	/
				1	99	22.72	22.5±1	/
				12	0	21.81	22.5±1	1.0
				12	24	21.95	22.5±1	1.0
				12	49	21.82	22.5±1	1.0
				25	0	21.81	22.5±1	1.0
			16QAM	1	0	21.72	21.5±1	1.0
				1	49	22.1	21.5±1	1.0
				1	99	21.78	21.5±1	1.0
				12	0	20.85	21.5±1	1.0
				12	24	21	21.5±1	1.0
				12	49	20.88	21.5±1	1.0
				25	0	20.82	21.5±1	1.0
	23095	707.5	QPSK	1	0	22.93	22.0±1	/
				1	49	22.96	22.0±1	/
				1	99	22.89	22.0±1	/
				12	0	21.9	22.0±1	1.0
				12	24	21.95	22.0±1	1.0
				12	49	21.92	22.0±1	1.0
				25	0	21.84	22.0±1	1.0
			16QAM	1	0	22.33	21.5±1	1.0
				1	49	22.45	21.5±1	1.0
				1	99	22.39	21.5±1	1.0
				12	0	21.06	21.5±1	1.0
				12	24	21.1	21.5±1	1.0
				12	49	21.08	21.5±1	1.0
				25	0	20.93	21.5±1	1.0
	23155	713.5	QPSK	1	0	22.95	22.0±1	/
				1	49	22.86	22.0±1	/
				1	99	22.8	22.0±1	/
				12	0	21.83	22.0±1	1.0
				12	24	21.89	22.0±1	1.0
				12	49	21.76	22.0±1	1.0
				25	0	21.81	22.0±1	1.0
			16QAM	1	0	21.89	21.0±1	1.0
				1	49	21.94	21.0±1	1.0
				1	99	21.78	21.0±1	1.0
				12	0	20.9	21.0±1	1.0
				12	24	20.97	21.0±1	1.0
				12	49	20.86	21.0±1	1.0
				25	0	20.81	21.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
10MHz	23060	704	QPSK	1	0	22.77	22.0±1	/
				1	49	22.79	22.0±1	/
				1	99	22.76	22.0±1	/
				25	0	21.59	22.0±1	1.0
				25	24	21.78	22.0±1	1.0
				25	49	21.62	22.0±1	1.0
				50	0	21.67	22.0±1	1.0
			16QAM	1	0	21.33	21.0±1	1.0
				1	49	21.45	21.0±1	1.0
				1	99	21.53	21.0±1	1.0
				25	0	20.58	21.0±1	1.0
				25	24	20.79	21.0±1	1.0
				25	49	20.67	21.0±1	1.0
				50	0	20.63	21.0±1	1.0
	23095	707.5	QPSK	1	0	22.69	22.0±1	/
				1	49	22.81	22.0±1	/
				1	99	22.61	22.0±1	/
				25	0	21.61	22.0±1	1.0
				25	24	21.71	22.0±1	1.0
				25	49	21.66	22.0±1	1.0
				50	0	21.47	22.0±1	1.0
			16QAM	1	0	21.79	21.5±1	1.0
				1	49	22.12	21.5±1	1.0
				1	99	21.88	21.5±1	1.0
				25	0	20.66	21.5±1	1.0
				25	24	20.76	21.5±1	1.0
				25	49	20.72	21.5±1	1.0
				50	0	20.54	21.5±1	1.0
	23130	711	QPSK	1	0	22.74	22.0±1	/
				1	49	22.83	22.0±1	/
				1	99	22.5	22.0±1	/
				25	0	21.64	22.0±1	1.0
				25	24	21.76	22.0±1	1.0
				25	49	21.53	22.0±1	1.0
				50	0	21.59	22.0±1	1.0
			16QAM	1	0	21.64	21.0±1	1.0
				1	49	21.87	21.0±1	1.0
				1	99	21.44	21.0±1	1.0
				25	0	20.75	21.0±1	1.0
				25	24	20.88	21.0±1	1.0
				25	49	20.66	21.0±1	1.0
				50	0	20.67	21.0±1	1.0

LTE Band 13:

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
5MHz	23205	779.5	QPSK	1	0	22.84	22.5±1	/
				1	49	23.16	22.5±1	/
				1	99	23.21	22.5±1	/
				12	0	21.85	22.5±1	1.0
				12	24	22.06	22.5±1	1.0
				12	49	22.16	22.5±1	1.0
				25	0	21.99	22.5±1	1.0
			16QAM	1	0	22.18	22.0±1	1.0
				1	49	22.54	22.0±1	1.0
				1	99	22.63	22.0±1	1.0
				12	0	21.07	22.0±1	1.0
				12	24	21.2	22.0±1	1.0
				12	49	21.3	22.0±1	1.0
				25	0	21.06	22.0±1	1.0
	23230	782.0	QPSK	1	0	23.06	23.0±1	/
				1	49	23.19	23.0±1	/
				1	99	23.16	23.0±1	/
				12	0	22.17	23.0±1	1.0
				12	24	22.22	23.0±1	1.0
				12	49	22.14	23.0±1	1.0
				25	0	22.05	23.0±1	1.0
			16QAM	1	0	22.08	22.0±1	1.0
				1	49	22.26	22.0±1	1.0
				1	99	22.11	22.0±1	1.0
				12	0	21.23	22.0±1	1.0
				12	24	21.29	22.0±1	1.0
				12	49	21.21	22.0±1	1.0
				25	0	21.04	22.0±1	1.0
	23255	784.5	QPSK	1	0	23.19	23.0±1	/
				1	49	**23.27**	23.0±1	/
				1	99	23.12	23.0±1	/
				12	0	22.05	23.0±1	1.0
				12	24	22.22	23.0±1	1.0
				12	49	22	23.0±1	1.0
				25	0	22.19	23.0±1	1.0
			16QAM	1	0	22.17	22.0±1	1.0
				1	49	22.22	22.0±1	1.0
				1	99	22.05	22.0±1	1.0
				12	0	21.18	22.0±1	1.0
				12	24	21.33	22.0±1	1.0
				12	49	21.1	22.0±1	1.0
				25	0	21.24	22.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
10MHz	23230	782.0	QPSK	1	0	22.59	22.5±1	/
				1	49	23.03	22.5±1	/
				1	99	22.85	22.5±1	/
				25	0	21.68	22.5±1	1.0
				25	24	21.82	22.5±1	1.0
				25	49	21.87	22.5±1	1.0
				50	0	21.53	22.5±1	1.0
			16QAM	1	0	21.23	21.0±1	1.0
				1	49	21.83	21.0±1	1.0
				1	99	21.49	21.0±1	1.0
				25	0	20.77	21.0±1	1.0
				25	24	20.94	21.0±1	1.0
				25	49	20.93	21.0±1	1.0
				50	0	20.61	21.0±1	1.0

LTE Band 14:

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
5MHz	23305	790.5	QPSK	1	0	22.82	22.5±1	/
				1	49	23.01	22.5±1	/
				1	99	23.04	22.5±1	/
				12	0	21.82	22.5±1	1.0
				12	24	21.94	22.5±1	1.0
				12	49	21.9	22.5±1	1.0
				25	0	21.87	22.5±1	1.0
			16QAM	1	0	21.89	21.5±1	1.0
				1	49	22.02	21.5±1	1.0
				1	99	22	21.5±1	1.0
				12	0	20.85	21.5±1	1.0
				12	24	20.97	21.5±1	1.0
				12	49	20.97	21.5±1	1.0
				25	0	20.82	21.5±1	1.0
	23330	793.0	QPSK	1	0	22.94	22.5±1	/
				1	49	23.08	22.5±1	/
				1	99	22.96	22.5±1	/
				12	0	21.87	22.5±1	1.0
				12	24	21.88	22.5±1	1.0
				12	49	21.88	22.5±1	1.0
				25	0	21.8	22.5±1	1.0
			16QAM	1	0	22.22	21.5±1	1.0
				1	49	22.35	21.5±1	1.0
				1	99	22.31	21.5±1	1.0
				12	0	20.92	21.5±1	1.0
				12	24	21.03	21.5±1	1.0
				12	49	21.04	21.5±1	1.0
				25	0	20.88	21.5±1	1.0
	23355	795.5	QPSK	1	0	23.01	22.5±1	/
				1	49	23.10	22.5±1	/
				1	99	22.63	22.5±1	/
				12	0	21.96	22.5±1	1.0
				12	24	22.01	22.5±1	1.0
				12	49	21.79	22.5±1	1.0
				25	0	21.87	22.5±1	1.0
			16QAM	1	0	21.85	21.5±1	1.0
				1	49	22.03	21.5±1	1.0
				1	99	21.62	21.5±1	1.0
				12	0	20.99	21.5±1	1.0
				12	24	21.05	21.5±1	1.0
				12	49	20.84	21.5±1	1.0
				25	0	20.83	21.5±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
10MHz	23330	793.0	QPSK	1	0	22.76	22.5±1	/
				1	49	**23.11**	22.5±1	/
				1	99	22.63	22.5±1	/
				25	0	21.74	22.5±1	1.0
				25	24	21.84	22.5±1	1.0
				25	49	21.73	22.5±1	1.0
				50	0	21.64	22.5±1	1.0
			16QAM	1	0	21.52	21.0±1	1.0
				1	49	21.77	21.0±1	1.0
				1	99	21.32	21.0±1	1.0
				25	0	20.68	21.0±1	1.0
				25	24	20.84	21.0±1	1.0
				25	49	20.74	21.0±1	1.0
				50	0	20.6	21.0±1	1.0

LTE Band 17:

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
5MHz	23755	706.5	QPSK	1	0	22.7	22.5±1	/
				1	49	23.08	22.5±1	/
				1	99	22.99	22.5±1	/
				12	0	21.81	22.5±1	1.0
				12	24	22.02	22.5±1	1.0
				12	49	22.03	22.5±1	1.0
				25	0	21.9	22.5±1	1.0
			16QAM	1	0	21.62	21.5±1	1.0
				1	49	22.11	21.5±1	1.0
				1	99	21.99	21.5±1	1.0
				12	0	20.86	21.5±1	1.0
				12	24	21.07	21.5±1	1.0
				12	49	21.09	21.5±1	1.0
				25	0	20.86	21.5±1	1.0
	23790	723.3610	QPSK	1	0	**23.13**	22.5±1	/
				1	49	23.08	22.5±1	/
				1	99	22.83	22.5±1	/
				12	0	21.94	22.5±1	1.0
				12	24	22.01	22.5±1	1.0
				12	49	21.92	22.5±1	1.0
				25	0	21.94	22.5±1	1.0
			16QAM	1	0	22.11	21.5±1	1.0
				1	49	22.13	21.5±1	1.0
				1	99	21.83	21.5±1	1.0
				12	0	21.02	21.5±1	1.0
				12	24	21.1	21.5±1	1.0
				12	49	21.02	21.5±1	1.0
				25	0	20.97	21.5±1	1.0
	23825	713.5	QPSK	1	0	22.93	22.0±1	/
				1	49	22.87	22.0±1	/
				1	99	22.74	22.0±1	/
				12	0	21.86	22.0±1	1.0
				12	24	21.91	22.0±1	1.0
				12	49	21.81	22.0±1	1.0
				25	0	21.83	22.0±1	1.0
			16QAM	1	0	22.32	21.5±1	1.0
				1	49	22.38	21.5±1	1.0
				1	99	22.25	21.5±1	1.0
				12	0	21.01	21.5±1	1.0
				12	24	21.07	21.5±1	1.0
				12	49	20.97	21.5±1	1.0
				25	0	20.93	21.5±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
10MHz	23780	709	QPSK	1	0	22.46	22.0±1	/
				1	49	22.86	22.0±1	/
				1	99	22.68	22.0±1	/
				25	0	21.59	22.0±1	1.0
				25	24	21.78	22.0±1	1.0
				25	49	21.61	22.0±1	1.0
				50	0	21.59	22.0±1	1.0
			16QAM	1	0	21.19	21.0±1	1.0
				1	49	21.74	21.0±1	1.0
				1	99	21.43	21.0±1	1.0
				25	0	20.67	21.0±1	1.0
				25	24	20.87	21.0±1	1.0
				25	49	20.71	21.0±1	1.0
				50	0	20.65	21.0±1	1.0
	23790	710	QPSK	1	0	22.73	22.0±1	/
				1	49	22.86	22.0±1	/
				1	99	22.58	22.0±1	/
				25	0	21.63	22.0±1	1.0
				25	24	21.81	22.0±1	1.0
				25	49	21.62	22.0±1	1.0
				50	0	21.63	22.0±1	1.0
			16QAM	1	0	21.89	21.5±1	1.0
				1	49	22.18	21.5±1	1.0
				1	99	21.79	21.5±1	1.0
				25	0	20.68	21.5±1	1.0
				25	24	20.87	21.5±1	1.0
				25	49	20.69	21.5±1	1.0
				50	0	20.69	21.5±1	1.0
	23800	711	QPSK	1	0	22.7	22.0±1	/
				1	49	22.81	22.0±1	/
				1	99	22.49	22.0±1	/
				25	0	21.66	22.0±1	1.0
				25	24	21.77	22.0±1	1.0
				25	49	21.58	22.0±1	1.0
				50	0	21.63	22.0±1	1.0
			16QAM	1	0	21.65	21.0±1	1.0
				1	49	21.85	21.0±1	1.0
				1	99	21.41	21.0±1	1.0
				25	0	20.77	21.0±1	1.0
				25	24	20.9	21.0±1	1.0
				25	49	20.71	21.0±1	1.0
				50	0	20.7	21.0±1	1.0

LTE Band 25:

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
1.4MHz	26047	1850.7	QPSK	1	0	23.34	23.0±1	/
				1	2	23.15	23.0±1	/
				1	5	23.2	23.0±1	/
				3	0	23.05	23.0±1	/
				3	1	23.12	23.0±1	/
				3	2	23.07	23.0±1	/
				6	0	22.05	23.0±1	1.0
			16QAM	1	0	22.28	22.0±1	1.0
				1	2	22.19	22.0±1	1.0
				1	5	22.21	22.0±1	1.0
				3	0	22.1	22.0±1	1.0
				3	1	22.09	22.0±1	1.0
				3	2	22.05	22.0±1	1.0
				6	0	21.13	22.0±1	1.0
	26365	1882.5	QPSK	1	0	**23.36**	23.0±1	/
				1	2	23.21	23.0±1	/
				1	5	23.3	23.0±1	/
				3	0	23.13	23.0±1	/
				3	1	23.12	23.0±1	/
				3	2	23.11	23.0±1	/
				6	0	22.03	23.0±1	1.0
			16QAM	1	0	22.6	22.0±1	1.0
				1	2	22.44	22.0±1	1.0
				1	5	22.6	22.0±1	1.0
				3	0	22.24	22.0±1	1.0
				3	1	22.33	22.0±1	1.0
				3	2	22.33	22.0±1	1.0
				6	0	21.04	22.0±1	1.0
	26683	1914.3	QPSK	1	0	22.61	22.0±1	/
				1	2	22.53	22.0±1	/
				1	5	22.62	22.0±1	/
				3	0	22.51	22.0±1	/
				3	1	22.52	22.0±1	/
				3	2	22.44	22.0±1	/
				6	0	21.49	22.0±1	1.0
			16QAM	1	0	21.64	21.0±1	1.0
				1	2	21.51	21.0±1	1.0
				1	5	21.66	21.0±1	1.0
				3	0	21.65	21.0±1	1.0
				3	1	21.66	21.0±1	1.0
				3	2	21.64	21.0±1	1.0
				6	0	20.68	21.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
3MHz	26055	1851.5	QPSK	1	0	23.05	22.5±1	/
				1	8	23.03	22.5±1	/
				1	14	22.85	22.5±1	/
				6	0	21.95	22.5±1	1.0
				6	4	21.94	22.5±1	1.0
				6	9	21.86	22.5±1	1.0
				15	0	21.88	22.5±1	1.0
			16QAM	1	0	21.87	21.0±1	1.0
				1	8	21.87	21.0±1	1.0
				1	14	21.71	21.0±1	1.0
				8	0	21.05	21.0±1	1.0
				8	4	21.05	21.0±1	1.0
				8	9	20.98	21.0±1	1.0
				15	0	20.93	21.0±1	1.0
	26365	1882.5	QPSK	1	0	23.2	23.0±1	/
				1	8	23.14	23.0±1	/
				1	14	23.1	23.0±1	/
				6	0	22.04	23.0±1	1.0
				6	4	22.06	23.0±1	1.0
				6	9	22.05	23.0±1	1.0
				15	0	22.02	23.0±1	1.0
			16QAM	1	0	22.42	22.0±1	1.0
				1	8	22.48	22.0±1	1.0
				1	14	22.47	22.0±1	1.0
				6	0	21.19	22.0±1	1.0
				6	4	21.22	22.0±1	1.0
				6	9	21.22	22.0±1	1.0
				15	0	21.12	22.0±1	1.0
	26675	1913.5	QPSK	1	0	22.63	22.0±1	/
				1	8	22.55	22.0±1	/
				1	14	22.46	22.0±1	/
				6	0	21.58	22.0±1	1.0
				6	4	21.58	22.0±1	1.0
				6	9	21.46	22.0±1	1.0
				15	0	21.5	22.0±1	1.0
			16QAM	1	0	21.66	21.0±1	1.0
				1	8	21.58	21.0±1	1.0
				1	14	21.46	21.0±1	1.0
				8	0	20.59	21.0±1	1.0
				8	4	20.61	21.0±1	1.0
				8	9	20.59	21.0±1	1.0
				15	0	20.5	21.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
5MHz	26065	1852.5	QPSK	1	0	23.02	22.5±1	/
				1	49	22.95	22.5±1	/
				1	99	22.92	22.5±1	/
				12	0	21.88	22.5±1	1.0
				12	24	21.91	22.5±1	1.0
				12	49	21.8	22.5±1	1.0
				25	0	21.84	22.5±1	1.0
			16QAM	1	0	22.12	21.5±1	1.0
				1	49	22.09	21.5±1	1.0
				1	99	22.08	21.5±1	1.0
				12	0	20.95	21.5±1	1.0
				12	24	20.94	21.5±1	1.0
				12	49	20.88	21.5±1	1.0
				25	0	20.83	21.5±1	1.0
	26365	1882.5	QPSK	1	0	23.13	23.0±1	/
				1	49	23.19	23.0±1	/
				1	99	23.08	23.0±1	/
				12	0	22.03	23.0±1	1.0
				12	24	22.09	23.0±1	1.0
				12	49	22.07	23.0±1	1.0
				25	0	22.04	23.0±1	1.0
			16QAM	1	0	22.55	22.0±1	1.0
				1	49	22.6	22.0±1	1.0
				1	99	22.51	22.0±1	1.0
				12	0	21.18	22.0±1	1.0
				12	24	21.25	22.0±1	1.0
				12	49	21.23	22.0±1	1.0
				25	0	21.12	22.0±1	1.0
	26665	1912.5	QPSK	1	0	23.02	22.5±1	/
				1	49	22.71	22.5±1	/
				1	99	22.53	22.5±1	/
				12	0	21.79	22.5±1	1.0
				12	24	21.67	22.5±1	1.0
				12	49	21.47	22.5±1	1.0
				25	0	21.62	22.5±1	1.0
			16QAM	1	0	22.08	21.5±1	1.0
				1	49	21.81	21.5±1	1.0
				1	99	21.55	21.5±1	1.0
				12	0	20.81	21.5±1	1.0
				12	24	20.7	21.5±1	1.0
				12	49	20.56	21.5±1	1.0
				25	0	20.56	21.5±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
10MHz	26090	1855	QPSK	1	0	22.82	22.0±1	/
				1	49	22.97	22.0±1	/
				1	99	22.77	22.0±1	/
				25	0	21.67	22.0±1	1.0
				25	24	21.85	22.0±1	1.0
				25	49	21.74	22.0±1	1.0
				50	0	21.81	22.0±1	1.0
			16QAM	1	0	21.71	21.0±1	1.0
				1	49	21.81	21.0±1	1.0
				1	99	21.63	21.0±1	1.0
				25	0	20.63	21.0±1	1.0
				25	24	20.88	21.0±1	1.0
				25	49	20.72	21.0±1	1.0
				50	0	20.81	21.0±1	1.0
	26365	1882.5	QPSK	1	0	22.87	22.5±1	/
				1	49	23.13	22.5±1	/
				1	99	22.83	22.5±1	/
				25	0	21.85	22.5±1	1.0
				25	24	21.99	22.5±1	1.0
				25	49	21.89	22.5±1	1.0
				50	0	21.91	22.5±1	1.0
			16QAM	1	0	22.08	21.5±1	1.0
				1	49	22.4	21.5±1	1.0
				1	99	22.11	21.5±1	1.0
				25	0	20.9	21.5±1	1.0
				25	24	21.04	21.5±1	1.0
				25	49	20.96	21.5±1	1.0
				50	0	20.97	21.5±1	1.0
	26640	1910	QPSK	1	0	22.66	22.0±1	/
				1	49	22.95	22.0±1	/
				1	99	22.18	22.0±1	/
				25	0	21.64	22.0±1	1.0
				25	24	21.9	22.0±1	1.0
				25	49	21.49	22.0±1	1.0
				50	0	21.96	22.0±1	1.0
			16QAM	1	0	21.61	21.5±1	1.0
				1	49	22.07	21.5±1	1.0
				1	99	21.22	21.5±1	1.0
				25	0	20.71	21.5±1	1.0
				25	24	21.03	21.5±1	1.0
				25	49	20.56	21.5±1	1.0
				50	0	20.95	21.5±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
15MHz	26115	1857.5	QPSK	1	0	22.94	22.0±1	/
				1	49	22.99	22.0±1	/
				1	99	23.16	22.0±1	/
				36	0	21.82	22.0±1	1.0
				36	24	21.89	22.0±1	1.0
				36	49	21.93	22.0±1	1.0
				75	0	21.91	22.0±1	1.0
			16QAM	1	0	21.73	21.0±1	1.0
				1	49	21.84	21.0±1	1.0
				1	99	21.93	21.0±1	1.0
				36	0	20.8	21.0±1	1.0
				36	24	20.93	21.0±1	1.0
				36	49	20.98	21.0±1	1.0
				75	0	20.88	21.0±1	1.0
	26365	1882.5	QPSK	1	0	22.96	22.5±1	/
				1	49	23.16	22.5±1	/
				1	99	22.98	22.5±1	/
				36	0	21.96	22.5±1	1.0
				36	24	22.05	22.5±1	1.0
				36	49	21.94	22.5±1	1.0
				75	0	22.06	22.5±1	1.0
			16QAM	1	0	22.18	22.0±1	1.0
				1	49	22.43	22.0±1	1.0
				1	99	22.22	22.0±1	1.0
				36	0	21.03	22.0±1	1.0
				36	24	21.13	22.0±1	1.0
				36	49	21.02	22.0±1	1.0
				75	0	21.12	22.0±1	1.0
	26615	1907.5	QPSK	1	0	22.98	22.0±1	/
				1	49	22.88	22.0±1	/
				1	99	22.38	22.0±1	/
				36	0	21.82	22.0±1	1.0
				36	24	21.88	22.0±1	1.0
				36	49	21.82	22.0±1	1.0
				75	0	21.97	22.0±1	1.0
			16QAM	1	0	22.1	21.5±1	1.0
				1	49	22.23	21.5±1	1.0
				1	99	21.71	21.5±1	1.0
				36	0	20.91	21.5±1	1.0
				36	24	20.89	21.5±1	1.0
				36	49	20.83	21.5±1	1.0
				75	0	20.97	21.5±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
20MHz	26140	1860	QPSK	1	0	22.73	22.5±1	/
				1	49	23	22.5±1	/
				1	99	22.72	22.5±1	/
				50	0	21.84	22.5±1	1.0
				50	24	21.99	22.5±1	1.0
				50	49	21.91	22.5±1	1.0
				100	0	21.87	22.5±1	1.0
			16QAM	1	0	22.27	21.5±1	1.0
				1	49	22.46	21.5±1	1.0
				1	99	22.14	21.5±1	1.0
				50	0	20.82	21.5±1	1.0
				50	24	21.02	21.5±1	1.0
				50	49	20.99	21.5±1	1.0
				100	0	20.92	21.5±1	1.0
	26365	1882.5	QPSK	1	0	22.74	22.5±1	/
				1	49	23.09	22.5±1	/
				1	99	22.98	22.5±1	/
				50	0	21.8	22.5±1	1.0
				50	24	22.07	22.5±1	1.0
				50	49	21.8	22.5±1	1.0
				100	0	22.06	22.5±1	1.0
			16QAM	1	0	22.1	21.5±1	1.0
				1	49	22.5	21.5±1	1.0
				1	99	22.39	21.5±1	1.0
				50	0	20.93	21.5±1	1.0
				50	24	21.11	21.5±1	1.0
				50	49	20.96	21.5±1	1.0
				100	0	21.11	21.5±1	1.0
	26590	1905.0	QPSK	1	0	23.07	22.5±1	/
				1	49	22.95	22.5±1	/
				1	99	22.28	22.5±1	/
				50	0	21.66	22.5±1	1.0
				50	24	21.93	22.5±1	1.0
				50	49	21.91	22.5±1	1.0
				100	0	21.86	22.5±1	1.0
			16QAM	1	0	22.32	21.5±1	1.0
				1	49	22.27	21.5±1	1.0
				1	99	21.73	21.5±1	1.0
				50	0	20.77	21.5±1	1.0
				50	24	20.94	21.5±1	1.0
				50	49	20.93	21.5±1	1.0
				100	0	20.92	21.5±1	1.0

LTE Band 26(Part 90):

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
1.4MHz	26697	814.7	QPSK	1	0	**23.5**	23.0±1	/
				1	2	23.36	23.0±1	/
				1	5	23.49	23.0±1	/
				3	0	23.26	23.0±1	/
				3	1	23.27	23.0±1	/
				3	2	23.28	23.0±1	/
				6	0	22.22	23.0±1	1.0
			16QAM	1	0	22.46	22.0±1	1.0
				1	2	22.33	22.0±1	1.0
				1	5	22.45	22.0±1	1.0
				3	0	22.23	22.0±1	1.0
				3	1	22.25	22.0±1	1.0
				3	2	22.17	22.0±1	1.0
				6	0	21.27	22.0±1	1.0
	26740	819.0	QPSK	1	0	23.35	23.0±1	/
				1	2	23.23	23.0±1	/
				1	5	23.35	23.0±1	/
				3	0	23.16	23.0±1	/
				3	1	23.16	23.0±1	/
				3	2	23.17	23.0±1	/
				6	0	22	23.0±1	1.0
			16QAM	1	0	22.54	21.6±1	1.0
				1	2	22.4	21.6±1	1.0
				1	5	22.53	21.6±1	1.0
				3	0	22.19	21.6±1	1.0
				3	1	22.21	21.6±1	1.0
				3	2	22.22	21.6±1	1.0
				6	0	20.96	21.6±1	1.0
	26783	823.3	QPSK	1	0	23.37	23.0±1	/
				1	2	23.26	23.0±1	/
				1	5	23.36	23.0±1	/
				3	0	23.24	23.0±1	/
				3	1	23.23	23.0±1	/
				3	2	23.25	23.0±1	/
				6	0	22.14	23.0±1	1.0
			16QAM	1	0	22.29	22.0±1	1.0
				1	2	22.17	22.0±1	1.0
				1	5	22.32	22.0±1	1.0
				3	0	22.33	22.0±1	1.0
				3	1	22.34	22.0±1	1.0
				3	2	22.31	22.0±1	1.0
				6	0	21.31	22.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
3MHz	26705	815.5	QPSK	1	0	23.22	23.0±1	/
				1	8	23.33	23.0±1	/
				1	14	23.18	23.0±1	/
				6	0	22.1	23.0±1	1.0
				6	4	22.12	23.0±1	1.0
				6	9	22.04	23.0±1	1.0
				15	0	22.07	23.0±1	1.0
			16QAM	1	0	21.99	22.0±1	1.0
				1	8	22.02	22.0±1	1.0
				1	14	21.9	22.0±1	1.0
				8	0	21.18	22.0±1	1.0
				8	4	21.15	22.0±1	1.0
				8	9	21.13	22.0±1	1.0
				15	0	21.05	22.0±1	1.0
	26740	819.0	QPSK	1	0	23.18	22.5±1	/
				1	8	23.19	22.5±1	/
				1	14	23.19	22.5±1	/
				6	0	21.98	22.5±1	1.0
				6	4	22.02	22.5±1	1.0
				6	9	22.02	22.5±1	1.0
				15	0	21.97	22.5±1	1.0
			16QAM	1	0	22.38	22.0±1	1.0
				1	8	22.41	22.0±1	1.0
				1	14	22.42	22.0±1	1.0
				6	0	21.1	22.0±1	1.0
				6	4	21.15	22.0±1	1.0
				6	9	21.15	22.0±1	1.0
				15	0	21.04	22.0±1	1.0
	26775	822.5	QPSK	1	0	23.19	23.0±1	/
				1	8	23.27	23.0±1	/
				1	14	23.25	23.0±1	/
				6	0	22.15	23.0±1	1.0
				6	4	22.16	23.0±1	1.0
				6	9	22.14	23.0±1	1.0
				15	0	22.1	23.0±1	1.0
			16QAM	1	0	22.12	22.0±1	1.0
				1	8	22.19	22.0±1	1.0
				1	14	22.16	22.0±1	1.0
				8	0	21.2	22.0±1	1.0
				8	4	21.25	22.0±1	1.0
				8	9	21.19	22.0±1	1.0
				15	0	21.13	22.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
5MHz	26715	816.5	QPSK	1	0	23.21	22.5±1	/
				1	49	23.26	22.5±1	/
				1	99	23.1	22.5±1	/
				12	0	22.04	22.5±1	1.0
				12	24	22.09	22.5±1	1.0
				12	49	21.99	22.5±1	1.0
				25	0	21.96	22.5±1	1.0
			16QAM	1	0	22.24	22.0±1	1.0
				1	49	22.28	22.0±1	1.0
				1	99	22.14	22.0±1	1.0
				12	0	21.14	22.0±1	1.0
				12	24	21.19	22.0±1	1.0
				12	49	21.1	22.0±1	1.0
				25	0	21.06	22.0±1	1.0
	26740	819.0	QPSK	1	0	23.15	22.5±1	/
				1	49	23.23	22.5±1	/
				1	99	23.25	22.5±1	/
				12	0	21.99	22.5±1	1.0
				12	24	22.03	22.5±1	1.0
				12	49	21.98	22.5±1	1.0
				25	0	21.94	22.5±1	1.0
			16QAM	1	0	22.5	22.0±1	1.0
				1	49	22.56	22.0±1	1.0
				1	99	22.6	22.0±1	1.0
				12	0	21.17	22.0±1	1.0
				12	24	21.2	22.0±1	1.0
				12	49	21.16	22.0±1	1.0
				25	0	21.04	22.0±1	1.0
	26765	821.5	QPSK	1	0	23.15	23.0±1	/
				1	49	23.38	23.0±1	/
				1	99	23.25	23.0±1	/
				12	0	22.1	23.0±1	1.0
				12	24	22.16	23.0±1	1.0
				12	49	22.07	23.0±1	1.0
				25	0	22.06	23.0±1	1.0
			16QAM	1	0	22.13	22.0±1	1.0
				1	49	22.27	22.0±1	1.0
				1	99	22.21	22.0±1	1.0
				12	0	21.09	22.0±1	1.0
				12	24	21.25	22.0±1	1.0
				12	49	21.17	22.0±1	1.0
				25	0	21.06	22.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
10MHz	26740	819.0	QPSK	1	0	22.96	22.5±1	/
				1	49	23.06	22.5±1	/
				1	99	22.92	22.5±1	/
				25	0	21.74	22.5±1	1.0
				25	24	21.79	22.5±1	1.0
				25	49	21.76	22.5±1	1.0
				50	0	21.62	22.5±1	1.0
			16QAM	1	0	21.78	21.0±1	1.0
				1	49	21.79	21.0±1	1.0
				1	99	21.75	21.0±1	1.0
				25	0	20.78	21.0±1	1.0
				25	24	20.85	21.0±1	1.0
				25	49	20.82	21.0±1	1.0
				50	0	20.64	21.0±1	1.0

LTE Band 26(Part 22):

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
1.4MHz	26797	824.7	QPSK	1	0	23.49	23.0±1	/
				1	2	23.29	23.0±1	/
				1	5	23.38	23.0±1	/
				3	0	23.22	23.0±1	/
				3	1	23.21	23.0±1	/
				3	2	23.16	23.0±1	/
				6	0	22.12	23.0±1	1.0
			16QAM	1	0	22.43	22.0±1	1.0
				1	2	22.26	22.0±1	1.0
				1	5	22.38	22.0±1	1.0
				3	0	22.18	22.0±1	1.0
				3	1	22.17	22.0±1	1.0
				3	2	22.14	22.0±1	1.0
				6	0	21.3	22.0±1	1.0
	26915	836.5	QPSK	1	0	23.42	23.0±1	/
				1	2	23.33	23.0±1	/
				1	5	23.36	23.0±1	/
				3	0	23.27	23.0±1	/
				3	1	23.24	23.0±1	/
				3	2	23.2	23.0±1	/
				6	0	22.22	23.0±1	1.0
			16QAM	1	0	22.72	22.0±1	1.0
				1	2	22.59	22.0±1	1.0
				1	5	22.68	22.0±1	1.0
				3	0	22.34	22.0±1	1.0
				3	1	22.41	22.0±1	1.0
				3	2	22.39	22.0±1	1.0
				6	0	21.11	22.0±1	1.0
	27033	848.3	QPSK	1	0	23.37	23.0±1	/
				1	2	23.07	23.0±1	/
				1	5	22.82	23.0±1	/
				3	0	23.16	23.0±1	/
				3	1	23.08	23.0±1	/
				3	2	22.85	23.0±1	/
				6	0	22.11	23.0±1	1.0
			16QAM	1	0	22.35	22.0±1	1.0
				1	2	22.08	22.0±1	1.0
				1	5	21.81	22.0±1	1.0
				3	0	22.33	22.0±1	1.0
				3	1	22.26	22.0±1	1.0
				3	2	22.05	22.0±1	1.0
				6	0	21.15	22.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
3MHz	26805	825.5	QPSK	1	0	23.27	22.5±1	/
				1	8	23.23	22.5±1	/
				1	14	23.08	22.5±1	/
				6	0	22.04	22.5±1	1.0
				6	4	22.04	22.5±1	1.0
				6	9	21.99	22.5±1	1.0
				15	0	22	22.5±1	1.0
			16QAM	1	0	21.95	21.0±1	1.0
				1	8	21.95	21.0±1	1.0
				1	14	21.87	21.0±1	1.0
				8	0	21.19	21.0±1	1.0
				8	4	21.18	21.0±1	1.0
				8	9	21.03	21.0±1	1.0
				15	0	21.08	21.0±1	1.0
	26915	836.5	QPSK	1	0	23.31	23.0±1	/
				1	8	23.28	23.0±1	/
				1	14	23.16	23.0±1	/
				6	0	22.2	23.0±1	1.0
				6	4	22.23	23.0±1	1.0
				6	9	22.16	23.0±1	1.0
				15	0	22.21	23.0±1	1.0
			16QAM	1	0	22.49	22.0±1	1.0
				1	8	22.6	22.0±1	1.0
				1	14	22.45	22.0±1	1.0
				6	0	21.29	22.0±1	1.0
				6	4	21.28	22.0±1	1.0
				6	9	21.26	22.0±1	1.0
				15	0	21.17	22.0±1	1.0
	27025	847.5	QPSK	1	0	23.5	23.0±1	/
				1	8	23.32	23.0±1	/
				1	14	22.61	23.0±1	/
				6	0	22.45	23.0±1	1.0
				6	4	22.42	23.0±1	1.0
				6	9	22.14	23.0±1	1.0
				15	0	22.29	23.0±1	1.0
			16QAM	1	0	22.45	22.0±1	1.0
				1	8	22.36	22.0±1	1.0
				1	14	21.68	22.0±1	1.0
				8	0	21.46	22.0±1	1.0
				8	4	21.36	22.0±1	1.0
				8	9	21.09	22.0±1	1.0
				15	0	21.17	22.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
5MHz	26815	826.5	QPSK	1	0	23.19	22.5±1	/
				1	49	23.22	22.5±1	/
				1	99	22.99	22.5±1	/
				12	0	21.97	22.5±1	1.0
				12	24	22.01	22.5±1	1.0
				12	49	21.91	22.5±1	1.0
				25	0	21.93	22.5±1	1.0
			16QAM	1	0	22.21	21.5±1	1.0
				1	49	22.19	21.5±1	1.0
				1	99	22	21.5±1	1.0
				12	0	21.07	21.5±1	1.0
				12	24	21.02	21.5±1	1.0
				12	49	20.93	21.5±1	1.0
				25	0	20.89	21.5±1	1.0
	26915	836.5	QPSK	1	0	23.17	23.0±1	/
				1	49	23.26	23.0±1	/
				1	99	23.03	23.0±1	/
				12	0	22.11	23.0±1	1.0
				12	24	22.22	23.0±1	1.0
				12	49	22.1	23.0±1	1.0
				25	0	22.15	23.0±1	1.0
			16QAM	1	0	22.5	22.0±1	1.0
				1	49	22.74	22.0±1	1.0
				1	99	22.52	22.0±1	1.0
				12	0	21.29	22.0±1	1.0
				12	24	21.33	22.0±1	1.0
				12	49	21.19	22.0±1	1.0
				25	0	21.13	22.0±1	1.0
	27015	846.5	QPSK	1	0	23.22	23.0±1	/
				1	49	**23.63**	23.0±1	/
				1	99	22.74	23.0±1	/
				12	0	22.3	23.0±1	1.0
				12	24	22.46	23.0±1	1.0
				12	49	22.25	23.0±1	1.0
				25	0	22.25	23.0±1	1.0
			16QAM	1	0	22.2	22.0±1	1.0
				1	49	22.56	22.0±1	1.0
				1	99	21.76	22.0±1	1.0
				12	0	21.24	22.0±1	1.0
				12	24	21.48	22.0±1	1.0
				12	49	21.2	22.0±1	1.0
				25	0	21.14	22.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
10MHz	26840	829.0	QPSK	1	0	22.9	22.0±1	/
				1	49	22.92	22.0±1	/
				1	99	22.85	22.0±1	/
				25	0	21.65	22.0±1	1.0
				25	24	21.71	22.0±1	1.0
				25	49	21.69	22.0±1	1.0
				50	0	21.63	22.0±1	1.0
			16QAM	1	0	21.67	21.0±1	1.0
				1	49	21.75	21.0±1	1.0
				1	99	21.68	21.0±1	1.0
				25	0	20.69	21.0±1	1.0
				25	24	20.85	21.0±1	1.0
				25	49	20.74	21.0±1	1.0
				50	0	20.75	21.0±1	1.0
	26915	836..5	QPSK	1	0	22.18	21.5±1	/
				1	49	22.46	21.5±1	/
				1	99	21.88	21.5±1	/
				25	0	20.81	21.5±1	1.0
				25	24	21.07	21.5±1	1.0
				25	49	20.74	21.5±1	1.0
				50	0	20.8	21.5±1	1.0
			16QAM	1	0	22.92	22.5±1	1.0
				1	49	23.16	22.5±1	1.0
				1	99	22.54	22.5±1	1.0
				25	0	21.69	22.5±1	1.0
				25	24	21.99	22.5±1	1.0
				25	49	21.75	22.5±1	1.0
				50	0	21.75	22.5±1	1.0
	26990	844.0	QPSK	1	0	22.68	22.5±1	/
				1	49	23	22.5±1	/
				1	99	22.58	22.5±1	/
				25	0	21.55	22.5±1	1.0
				25	24	21.97	22.5±1	1.0
				25	49	22.01	22.5±1	1.0
				50	0	22.06	22.5±1	1.0
			16QAM	1	0	21.64	21.0±1	1.0
				1	49	21.99	21.0±1	1.0
				1	99	21.62	21.0±1	1.0
				25	0	20.52	21.0±1	1.0
				25	24	21.02	21.0±1	1.0
				25	49	21.03	21.0±1	1.0
				50	0	20.99	21.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
15MHz	26865	831.5	QPSK	1	0	23.21	22.5±1	/
				1	49	23.29	22.5±1	/
				1	99	23.1	22.5±1	/
				36	0	21.99	22.5±1	1.0
				36	24	22.14	22.5±1	1.0
				36	49	22.02	22.5±1	1.0
				75	0	21.88	22.5±1	1.0
			16QAM	1	0	21.95	21.5±1	1.0
				1	49	22.03	21.5±1	1.0
				1	99	21.99	21.5±1	1.0
				36	0	20.96	21.5±1	1.0
				36	24	21.08	21.5±1	1.0
				36	49	21.07	21.5±1	1.0
				75	0	20.93	21.5±1	1.0
	26915	836.5	QPSK	1	0	23.07	22.5±1	/
				1	49	23.36	22.5±1	/
				1	99	22.94	22.5±1	/
				36	0	21.95	22.5±1	1.0
				36	24	22.18	22.5±1	1.0
				36	49	21.98	22.5±1	1.0
				75	0	21.94	22.5±1	1.0
			16QAM	1	0	22.32	21.7±1	1.0
				1	49	22.63	21.7±1	1.0
				1	99	22.24	21.7±1	1.0
				36	0	21.04	21.7±1	1.0
				36	24	21.21	21.7±1	1.0
				36	49	20.87	21.7±1	1.0
				75	0	20.9	21.7±1	1.0
	26965	841.5	QPSK	1	0	23.16	23.0±1	/
				1	49	22.91	23.0±1	/
				1	99	23.05	23.0±1	/
				36	0	22.09	23.0±1	1.0
				36	24	22.05	23.0±1	1.0
				36	49	22.26	23.0±1	1.0
				75	0	22.25	23.0±1	1.0
			16QAM	1	0	22.44	21.5±1	1.0
				1	49	22.22	21.5±1	1.0
				1	99	22.33	21.5±1	1.0
				36	0	20.96	21.5±1	1.0
				36	24	20.88	21.5±1	1.0
				36	49	21.17	21.5±1	1.0
				75	0	21.13	21.5±1	1.0

LTE Band 41:

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
5MHz	40265	2557.5	QPSK	1	0	22.3	22.0±1	/
				1	12	22.34	22.0±1	/
				1	24	22.23	22.0±1	/
				12	0	21.24	22.0±1	1.0
				12	6	21.25	22.0±1	1.0
				12	11	21.17	22.0±1	1.0
				25	0	21.16	22.0±1	1.0
			16QAM	1	0	21.55	20.6±1	1.0
				1	12	21.53	20.6±1	1.0
				1	24	21.47	20.6±1	1.0
				12	0	19.97	20.6±1	1.0
				12	6	20.03	20.6±1	1.0
				12	11	19.96	20.6±1	1.0
				25	0	19.98	20.6±1	1.0
	40740	2605.0	QPSK	1	0	22.32	22.0±1	/
				1	12	22.38	22.0±1	/
				1	24	22.21	22.0±1	/
				12	0	21.18	22.0±1	1.0
				12	6	21.23	22.0±1	1.0
				12	11	21.14	22.0±1	1.0
				25	0	21.13	22.0±1	1.0
			16QAM	1	0	21.52	21.0±1	1.0
				1	12	21.58	21.0±1	1.0
				1	24	21.47	21.0±1	1.0
				12	0	20.23	21.0±1	1.0
				12	6	20.29	21.0±1	1.0
				12	11	20.21	21.0±1	1.0
				25	0	20.12	21.0±1	1.0
	41215	2652.5	QPSK	1	0	22.93	22.0±1	/
				1	12	22.83	22.0±1	/
				1	24	22.96	22.0±1	/
				12	0	21.91	22.0±1	1.0
				12	6	21.98	22.0±1	1.0
				12	11	21.98	22.0±1	1.0
				25	0	21.91	22.0±1	1.0
			16QAM	1	0	22.14	21.5±1	1.0
				1	12	22.19	21.5±1	1.0
				1	24	22.18	21.5±1	1.0
				12	0	21	21.5±1	1.0
				12	6	21.07	21.5±1	1.0
				12	11	21.07	21.5±1	1.0
				25	0	20.95	21.5±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
10MHz	40290	2560.0	QPSK	1	0	22.12	22.0±1	/
				1	24	22.18	22.0±1	/
				1	49	21.93	22.0±1	/
				25	0	21.12	22.0±1	1.0
				25	12	21.21	22.0±1	1.0
				25	24	21.03	22.0±1	1.0
				50	0	21.08	22.0±1	1.0
			16QAM	1	0	21.47	20.6±1	1.0
				1	24	21.51	20.6±1	1.0
				1	49	21.27	20.6±1	1.0
				25	0	19.97	20.6±1	1.0
				25	12	20.03	20.6±1	1.0
				25	24	19.9	20.6±1	1.0
				50	0	19.9	20.6±1	1.0
	40740	2605.0	QPSK	1	0	22.35	22.0±1	/
				1	24	22.5	22.0±1	/
				1	49	22.23	22.0±1	/
				25	0	21.13	22.0±1	1.0
				25	12	21.23	22.0±1	1.0
				25	24	21.07	22.0±1	1.0
				50	0	21.11	22.0±1	1.0
			16QAM	1	0	21.58	21.0±1	1.0
				1	24	21.7	21.0±1	1.0
				1	49	21.48	21.0±1	1.0
				25	0	20.06	21.0±1	1.0
				25	12	20.17	21.0±1	1.0
				25	24	20.01	21.0±1	1.0
				50	0	20.08	21.0±1	1.0
	41190	2650.0	QPSK	1	0	22.97	22.5±1	/
				1	24	22.99	22.5±1	/
				1	49	23.09	22.5±1	/
				25	0	21.89	22.5±1	1.0
				25	12	22.04	22.5±1	1.0
				25	24	21.89	22.5±1	1.0
				50	0	21.92	22.5±1	1.0
			16QAM	1	0	22.04	21.5±1	1.0
				1	24	22.46	21.5±1	1.0
				1	49	22.19	21.5±1	1.0
				25	0	20.95	21.5±1	1.0
				25	12	21.12	21.5±1	1.0
				25	24	20.96	21.5±1	1.0
				50	0	21.01	21.5±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
15MHz	40315	2562.5	QPSK	1	0	22.25	21.5±1	/
				1	37	22.15	21.5±1	/
				1	74	21.87	21.5±1	/
				36	0	21.18	21.5±1	1.0
				36	16	21.14	21.5±1	1.0
				36	35	20.97	21.5±1	1.0
				75	0	21.06	21.5±1	1.0
			16QAM	1	0	21.44	20.5±1	1.0
				1	37	21.42	20.5±1	1.0
				1	74	21.15	20.5±1	1.0
				36	0	19.92	20.5±1	1.0
				36	16	19.89	20.5±1	1.0
				36	35	19.79	20.5±1	1.0
				75	0	19.84	20.5±1	1.0
	40740	2605.0	QPSK	1	0	22.42	22.0±1	/
				1	37	22.48	22.0±1	/
				1	74	22.24	22.0±1	/
				36	0	21.24	22.0±1	1.0
				36	16	21.28	22.0±1	1.0
				36	35	21.12	22.0±1	1.0
				75	0	21.16	22.0±1	1.0
			16QAM	1	0	21.56	21.0±1	1.0
				1	37	21.74	21.0±1	1.0
				1	74	21.42	21.0±1	1.0
				36	0	20.21	21.0±1	1.0
				36	16	20.26	21.0±1	1.0
				36	35	20.1	21.0±1	1.0
				75	0	20.12	21.0±1	1.0
	41165	2647.5	QPSK	1	0	22.93	22.5±1	/
				1	37	23.05	22.5±1	/
				1	74	23.05	22.5±1	/
				36	0	21.72	22.5±1	1.0
				36	16	22.06	22.5±1	1.0
				36	35	21.96	22.5±1	1.0
				75	0	21.99	22.5±1	1.0
			16QAM	1	0	22	21.5±1	1.0
				1	37	22.4	21.5±1	1.0
				1	74	22.31	21.5±1	1.0
				36	0	20.89	21.5±1	1.0
				36	16	21.1	21.5±1	1.0
				36	35	21.02	21.5±1	1.0
				75	0	21.01	21.5±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
20MHz	40340	2565.0	QPSK	1	0	22.14	21.5±1	/
				1	49	22.16	21.5±1	/
				1	99	21.89	21.5±1	/
				50	0	21	21.5±1	1.0
				50	24	21.04	21.5±1	1.0
				50	49	20.86	21.5±1	1.0
				100	0	20.93	21.5±1	1.0
			16QAM	1	0	21.43	20.5±1	1.0
				1	49	21.34	20.5±1	1.0
				1	99	21.15	20.5±1	1.0
				50	0	19.84	20.5±1	1.0
				50	24	19.84	20.5±1	1.0
				50	49	19.65	20.5±1	1.0
				100	0	19.74	20.5±1	1.0
	40740	2605.0	QPSK	1	0	22.34	22.0±1	/
				1	49	22.46	22.0±1	/
				1	99	22.14	22.0±1	/
				50	0	21.17	22.0±1	1.0
				50	24	21.27	22.0±1	1.0
				50	49	21.08	22.0±1	1.0
				100	0	21.13	22.0±1	1.0
			16QAM	1	0	21.35	21.0±1	1.0
				1	49	21.46	21.0±1	1.0
				1	99	21.2	21.0±1	1.0
				50	0	20.17	21.0±1	1.0
				50	24	20.28	21.0±1	1.0
				50	49	20.09	21.0±1	1.0
				100	0	20.15	21.0±1	1.0
	41140	2645.0	QPSK	1	0	22.66	22.5±1	/
				1	49	22.97	22.5±1	/
				1	99	**23.11**	22.5±1	/
				50	0	21.59	22.5±1	1.0
				50	24	21.92	22.5±1	1.0
				50	49	21.86	22.5±1	1.0
				100	0	21.8	22.5±1	1.0
			16QAM	1	0	21.84	21.5±1	1.0
				1	49	22.39	21.5±1	1.0
				1	99	22.2	21.5±1	1.0
				50	0	20.78	21.5±1	1.0
				50	24	21.07	21.5±1	1.0
				50	49	20.96	21.5±1	1.0
				100	0	20.85	21.5±1	1.0

LTE Band 66:

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
1.4MHz	131979	1710.7	QPSK	1	0	23.09	22.5±1	/
				1	2	22.95	22.5±1	/
				1	5	23.03	22.5±1	/
				3	0	22.89	22.5±1	/
				3	1	22.89	22.5±1	/
				3	2	22.86	22.5±1	/
				6	0	21.85	22.5±1	1.0
			16QAM	1	0	22.03	22.0±1	1.0
				1	2	21.92	22.0±1	1.0
				1	5	22.1	22.0±1	1.0
				3	0	21.85	22.0±1	1.0
				3	1	21.88	22.0±1	1.0
				3	2	21.85	22.0±1	1.0
				6	0	21.08	22.0±1	1.0
	132321	1744.9	QPSK	1	0	23.03	22.5±1	/
				1	2	22.92	22.5±1	/
				1	5	23	22.5±1	/
				3	0	22.83	22.5±1	/
				3	1	22.82	22.5±1	/
				3	2	22.81	22.5±1	/
				6	0	21.79	22.5±1	1.0
			16QAM	1	0	22.31	21.5±1	1.0
				1	2	22.2	21.5±1	1.0
				1	5	22.29	21.5±1	1.0
				3	0	21.99	21.5±1	1.0
				3	1	21.99	21.5±1	1.0
				3	2	21.98	21.5±1	1.0
				6	0	20.77	21.5±1	1.0
	132664	1779.2	QPSK	1	0	23.11	23.0±1	/
				1	2	23	23.0±1	/
				1	5	23.12	23.0±1	/
				3	0	22.99	23.0±1	/
				3	1	23.04	23.0±1	/
				3	2	23.05	23.0±1	/
				6	0	22.06	23.0±1	1.0
			16QAM	1	0	22.18	22.0±1	1.0
				1	2	22.03	22.0±1	1.0
				1	5	22.24	22.0±1	1.0
				3	0	22.23	22.0±1	1.0
				3	1	22.23	22.0±1	1.0
				3	2	22.19	22.0±1	1.0
				6	0	21.23	22.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
3MHz	131987	1711.5	QPSK	1	0	22.74	22.0±1	/
				1	8	22.9	22.0±1	/
				1	14	22.83	22.0±1	/
				6	0	21.8	22.0±1	1.0
				6	4	21.85	22.0±1	1.0
				6	9	21.86	22.0±1	1.0
				15	0	21.8	22.0±1	1.0
			16QAM	1	0	21.61	21.0±1	1.0
				1	8	21.73	21.0±1	1.0
				1	14	21.69	21.0±1	1.0
				8	0	20.95	21.0±1	1.0
				8	4	21.01	21.0±1	1.0
				8	9	21.03	21.0±1	1.0
				15	0	20.9	21.0±1	1.0
	132321	1744.9	QPSK	1	0	22.85	22.0±1	/
				1	8	22.88	22.0±1	/
				1	14	22.8	22.0±1	/
				6	0	21.78	22.0±1	1.0
				6	4	21.8	22.0±1	1.0
				6	9	21.78	22.0±1	1.0
				15	0	21.74	22.0±1	1.0
			16QAM	1	0	22.11	21.5±1	1.0
				1	8	22.18	21.5±1	1.0
				1	14	22.11	21.5±1	1.0
				6	0	20.93	21.5±1	1.0
				6	4	20.97	21.5±1	1.0
				6	9	20.95	21.5±1	1.0
				15	0	20.85	21.5±1	1.0
	132656	1778.4	QPSK	1	0	22.95	22.5±1	/
				1	8	23.05	22.5±1	/
				1	14	23.01	22.5±1	/
				6	0	21.99	22.5±1	1.0
				6	4	22.02	22.5±1	1.0
				6	9	22.03	22.5±1	1.0
				15	0	21.98	22.5±1	1.0
			16QAM	1	0	22.03	22.0±1	1.0
				1	8	22.03	22.0±1	1.0
				1	14	22.01	22.0±1	1.0
				8	0	21.09	22.0±1	1.0
				8	4	21.12	22.0±1	1.0
				8	9	21.03	22.0±1	1.0
				15	0	21.01	22.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
5MHz	131997	1712.5	QPSK	1	0	22.66	22.0±1	/
				1	49	22.81	22.0±1	/
				1	99	22.54	22.0±1	/
				12	0	21.69	22.0±1	1.0
				12	24	21.81	22.0±1	1.0
				12	49	21.71	22.0±1	1.0
				25	0	21.71	22.0±1	1.0
			16QAM	1	0	21.79	21.0±1	1.0
				1	49	21.97	21.0±1	1.0
				1	99	21.73	21.0±1	1.0
				12	0	20.83	21.0±1	1.0
				12	24	20.97	21.0±1	1.0
				12	49	20.88	21.0±1	1.0
				25	0	20.83	21.0±1	1.0
	132321	1744.9	QPSK	1	0	22.67	22.0±1	/
				1	49	22.8	22.0±1	/
				1	99	22.7	22.0±1	/
				12	0	21.72	22.0±1	1.0
				12	24	21.75	22.0±1	1.0
				12	49	21.61	22.0±1	1.0
				25	0	21.67	22.0±1	1.0
			16QAM	1	0	22.09	21.5±1	1.0
				1	49	22.27	21.5±1	1.0
				1	99	22.17	21.5±1	1.0
				12	0	20.93	21.5±1	1.0
				12	24	20.97	21.5±1	1.0
				12	49	20.83	21.5±1	1.0
				25	0	20.82	21.5±1	1.0
	132646	1777.4	QPSK	1	0	23	22.5±1	/
				1	49	23.06	22.5±1	/
				1	99	22.98	22.5±1	/
				12	0	22.01	22.5±1	1.0
				12	24	22.05	22.5±1	1.0
				12	49	21.93	22.5±1	1.0
				25	0	21.97	22.5±1	1.0
			16QAM	1	0	22.09	21.5±1	1.0
				1	49	22.21	21.5±1	1.0
				1	99	22.13	21.5±1	1.0
				12	0	21.06	21.5±1	1.0
				12	24	21.11	21.5±1	1.0
				12	49	21.09	21.5±1	1.0
				25	0	20.94	21.5±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
10MHz	132022	1715	QPSK	1	0	22.56	22.0±1	/
				1	49	22.64	22.0±1	/
				1	99	22.52	22.0±1	/
				25	0	21.63	22.0±1	1.0
				25	24	21.61	22.0±1	1.0
				25	49	21.52	22.0±1	1.0
				50	0	21.53	22.0±1	1.0
			16QAM	1	0	21.45	21.0±1	1.0
				1	49	21.55	21.0±1	1.0
				1	99	21.54	21.0±1	1.0
				25	0	20.73	21.0±1	1.0
				25	24	20.73	21.0±1	1.0
				25	49	20.63	21.0±1	1.0
				50	0	20.6	21.0±1	1.0
	132321	1744.9	QPSK	1	0	22.52	22.0±1	/
				1	49	22.8	22.0±1	/
				1	99	22.59	22.0±1	/
				25	0	21.55	22.0±1	1.0
				25	24	21.68	22.0±1	1.0
				25	49	21.57	22.0±1	1.0
				50	0	21.57	22.0±1	1.0
			16QAM	1	0	21.9	21.5±1	1.0
				1	49	22.11	21.5±1	1.0
				1	99	21.91	21.5±1	1.0
				25	0	20.63	21.5±1	1.0
				25	24	20.74	21.5±1	1.0
				25	49	20.59	21.5±1	1.0
				50	0	20.63	21.5±1	1.0
	132621	1774.9	QPSK	1	0	22.79	22.0±1	/
				1	49	23.01	22.0±1	/
				1	99	22.81	22.0±1	/
				25	0	21.87	22.0±1	1.0
				25	24	21.98	22.0±1	1.0
				25	49	21.84	22.0±1	1.0
				50	0	21.89	22.0±1	1.0
			16QAM	1	0	21.88	21.5±1	1.0
				1	49	22.02	21.5±1	1.0
				1	99	21.85	21.5±1	1.0
				25	0	21.02	21.5±1	1.0
				25	24	21.13	21.5±1	1.0
				25	49	20.94	21.5±1	1.0
				50	0	20.99	21.5±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
15MHz	132097	1722.5	QPSK	1	0	22.59	22.0±1	/
				1	49	22.74	22.0±1	/
				1	99	22.71	22.0±1	/
				36	0	21.6	22.0±1	1.0
				36	24	21.71	22.0±1	1.0
				36	49	21.76	22.0±1	1.0
				75	0	21.66	22.0±1	1.0
			16QAM	1	0	21.5	21.0±1	1.0
				1	49	21.62	21.0±1	1.0
				1	99	21.63	21.0±1	1.0
				36	0	20.67	21.0±1	1.0
				36	24	20.79	21.0±1	1.0
				36	49	20.85	21.0±1	1.0
				75	0	20.76	21.0±1	1.0
	132321	1744.9	QPSK	1	0	22.67	22.0±1	/
				1	49	22.82	22.0±1	/
				1	99	22.81	22.0±1	/
				36	0	21.7	22.0±1	1.0
				36	24	21.72	22.0±1	1.0
				36	49	21.63	22.0±1	1.0
				75	0	21.66	22.0±1	1.0
			16QAM	1	0	21.94	21.5±1	1.0
				1	49	22.13	21.5±1	1.0
				1	99	22.13	21.5±1	1.0
				36	0	20.82	21.5±1	1.0
				36	24	20.85	21.5±1	1.0
				36	49	20.77	21.5±1	1.0
				75	0	20.78	21.5±1	1.0
	132546	1767.4	QPSK	1	0	22.96	22.5±1	/
				1	49	23.07	22.5±1	/
				1	99	22.99	22.5±1	/
				36	0	21.96	22.5±1	1.0
				36	24	22.05	22.5±1	1.0
				36	49	21.97	22.5±1	1.0
				75	0	22	22.5±1	1.0
			16QAM	1	0	22.24	21.5±1	1.0
				1	49	22.48	21.5±1	1.0
				1	99	22.26	21.5±1	1.0
				36	0	20.97	21.5±1	1.0
				36	24	21.1	21.5±1	1.0
				36	49	20.92	21.5±1	1.0
				75	0	21.09	21.5±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
20MHz	132072	1720	QPSK	1	0	22.4	22.0±1	/
				1	49	22.74	22.0±1	/
				1	99	22.56	22.0±1	/
				50	0	21.45	22.0±1	1.0
				50	24	21.7	22.0±1	1.0
				50	49	21.67	22.0±1	1.0
				100	0	21.54	22.0±1	1.0
			16QAM	1	0	22.02	21.5±1	1.0
				1	49	22.31	21.5±1	1.0
				1	99	22.26	21.5±1	1.0
				50	0	20.57	21.5±1	1.0
				50	24	20.82	21.5±1	1.0
				50	49	20.79	21.5±1	1.0
				100	0	20.68	21.5±1	1.0
	132321	1744.9	QPSK	1	0	22.5	22.0±1	/
				1	49	22.69	22.0±1	/
				1	99	22.58	22.0±1	/
				50	0	21.57	22.0±1	1.0
				50	24	21.66	22.0±1	1.0
				50	49	21.55	22.0±1	1.0
				100	0	21.56	22.0±1	1.0
			16QAM	1	0	21.91	21.5±1	1.0
				1	49	22.13	21.5±1	1.0
				1	99	22.05	21.5±1	1.0
				50	0	20.66	21.5±1	1.0
				50	24	20.76	21.5±1	1.0
				50	49	20.66	21.5±1	1.0
				100	0	20.66	21.5±1	1.0
	132471	1759.9	QPSK	1	0	22.96	22.5±1	/
				1	49	**23.17**	22.5±1	/
				1	99	22.98	22.5±1	/
				50	0	21.76	22.5±1	1.0
				50	24	22.07	22.5±1	1.0
				50	49	21.94	22.5±1	1.0
				100	0	21.95	22.5±1	1.0
			16QAM	1	0	21.96	21.5±1	1.0
				1	49	22.44	21.5±1	1.0
				1	99	22.21	21.5±1	1.0
				50	0	20.83	21.5±1	1.0
				50	24	21.13	21.5±1	1.0
				50	49	20.96	21.5±1	1.0
				100	0	21.06	21.5±1	1.0

LTE Band 71:

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
5MHz	133147	665.5	QPSK	1	0	23.51	23.0±1	/
				1	12	23.74	23.0±1	/
				1	24	23.56	23.0±1	/
				12	0	22.75	23.0±1	1.0
				12	6	22.8	23.0±1	1.0
				12	11	22.73	23.0±1	1.0
				25	0	22.69	23.0±1	1.0
			16QAM	1	0	22.58	22.0±1	1.0
				1	12	22.68	22.0±1	1.0
				1	24	22.51	22.0±1	1.0
				12	0	21.84	22.0±1	1.0
				12	6	21.85	22.0±1	1.0
				12	11	21.79	22.0±1	1.0
				25	0	21.68	22.0±1	1.0
	133297	680.5	QPSK	1	0	23.56	23.0±1	/
				1	12	23.64	23.0±1	/
				1	24	23.68	23.0±1	/
				12	0	22.84	23.0±1	1.0
				12	6	22.88	23.0±1	1.0
				12	11	22.88	23.0±1	1.0
				25	0	22.75	23.0±1	1.0
			16QAM	1	0	22.45	22.0±1	1.0
				1	12	22.45	22.0±1	1.0
				1	24	22.28	22.0±1	1.0
				12	0	21.95	22.0±1	1.0
				12	6	21.9	22.0±1	1.0
				12	11	21.88	22.0±1	1.0
				25	0	21.91	22.0±1	1.0
	133447	695.5	QPSK	1	0	23.67	23.0±1	/
				1	12	23.93	23.0±1	/
				1	24	23.75	23.0±1	/
				12	0	22.92	23.0±1	1.0
				12	6	22.97	23.0±1	1.0
				12	11	22.82	23.0±1	1.0
				25	0	22.82	23.0±1	1.0
			16QAM	1	0	22.79	22.0±1	1.0
				1	12	22.91	22.0±1	1.0
				1	24	22.35	22.0±1	1.0
				12	0	21.71	22.0±1	1.0
				12	6	21.75	22.0±1	1.0
				12	11	22.01	22.0±1	1.0
				25	0	21.94	22.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
10MHz	133172	668	QPSK	1	0	23.94	23.0±1	/
				1	24	23.82	23.0±1	/
				1	49	23.52	23.0±1	/
				25	0	22.74	23.0±1	1.0
				25	12	22.73	23.0±1	1.0
				25	24	22.64	23.0±1	1.0
				50	0	22.73	23.0±1	1.0
			16QAM	1	0	22.69	22.5±1	1.0
				1	24	23.13	22.5±1	1.0
				1	49	22.48	22.5±1	1.0
				25	0	21.71	22.5±1	1.0
				25	12	21.63	22.5±1	1.0
				25	24	21.61	22.5±1	1.0
				50	0	21.54	22.5±1	1.0
	133297	680.5	QPSK	1	0	23.47	23.0±1	/
				1	24	23.84	23.0±1	/
				1	49	23.51	23.0±1	/
				25	0	22.6	23.0±1	1.0
				25	12	22.75	23.0±1	1.0
				25	24	22.64	23.0±1	1.0
				50	0	22.61	23.0±1	1.0
			16QAM	1	0	22.41	22.0±1	1.0
				1	24	22.56	22.0±1	1.0
				1	49	22.12	22.0±1	1.0
				25	0	21.7	22.0±1	1.0
				25	12	21.75	22.0±1	1.0
				25	24	21.71	22.0±1	1.0
				50	0	21.68	22.0±1	1.0
	133422	693	QPSK	1	0	23.54	23.0±1	/
				1	24	23.86	23.0±1	/
				1	49	23.72	23.0±1	/
				25	0	22.62	23.0±1	1.0
				25	12	22.77	23.0±1	1.0
				25	24	22.69	23.0±1	1.0
				50	0	22.66	23.0±1	1.0
			16QAM	1	0	22.58	22.0±1	1.0
				1	24	22.65	22.0±1	1.0
				1	49	22.08	22.0±1	1.0
				25	0	21.79	22.0±1	1.0
				25	12	22	22.0±1	1.0
				25	24	21.91	22.0±1	1.0
				50	0	21.66	22.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
15MHz	133197	670.5	QPSK	1	0	23.62	23.0±1	/
				1	37	23.46	23.0±1	/
				1	74	23.6	23.0±1	/
				36	0	22.59	23.0±1	1.0
				36	16	22.59	23.0±1	1.0
				36	35	22.63	23.0±1	1.0
				75	0	22.59	23.0±1	1.0
			16QAM	1	0	22.67	22.0±1	1.0
				1	37	22.97	22.0±1	1.0
				1	74	22.38	22.0±1	1.0
				36	0	21.56	22.0±1	1.0
				36	16	21.56	22.0±1	1.0
				36	35	21.68	22.0±1	1.0
				75	0	21.57	22.0±1	1.0
	133297	680.5	QPSK	1	0	23.4	23.0±1	/
				1	37	23.49	23.0±1	/
				1	74	23.43	23.0±1	/
				36	0	22.51	23.0±1	1.0
				36	16	22.59	23.0±1	1.0
				36	35	22.41	23.0±1	1.0
				75	0	22.47	23.0±1	1.0
			16QAM	1	0	22.46	22.0±1	1.0
				1	37	22.55	22.0±1	1.0
				1	74	21.88	22.0±1	1.0
				36	0	21.55	22.0±1	1.0
				36	16	21.7	22.0±1	1.0
				36	35	21.51	22.0±1	1.0
				75	0	21.47	22.0±1	1.0
	133397	690.5	QPSK	1	0	23.44	23.0±1	/
				1	37	23.42	23.0±1	/
				1	74	23.48	23.0±1	/
				36	0	22.52	23.0±1	1.0
				36	16	22.64	23.0±1	1.0
				36	35	22.7	23.0±1	1.0
				75	0	22.66	23.0±1	1.0
			16QAM	1	0	23.14	22.5±1	1.0
				1	37	22.5	22.5±1	1.0
				1	74	22.63	22.5±1	1.0
				36	0	21.57	22.5±1	1.0
				36	16	21.68	22.5±1	1.0
				36	35	21.67	22.5±1	1.0
				75	0	21.65	22.5±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
20MHz	133222	673	QPSK	1	0	23.28	23.0±1	/
				1	49	23.58	23.0±1	/
				1	99	23.31	23.0±1	/
				50	0	22.5	23.0±1	1.0
				50	24	22.59	23.0±1	1.0
				50	49	22.7	23.0±1	1.0
				100	0	22.59	23.0±1	1.0
			16QAM	1	0	22.82	22.0±1	1.0
				1	49	22.68	22.0±1	1.0
				1	99	22.13	22.0±1	1.0
				50	0	21.47	22.0±1	1.0
				50	24	21.77	22.0±1	1.0
				50	49	21.54	22.0±1	1.0
				100	0	21.6	22.0±1	1.0
	133322	683	QPSK	1	0	23.43	23.0±1	/
				1	49	23.88	23.0±1	/
				1	99	23.52	23.0±1	/
				50	0	22.63	23.0±1	1.0
				50	24	22.63	23.0±1	1.0
				50	49	22.72	23.0±1	1.0
				100	0	22.47	23.0±1	1.0
			16QAM	1	0	22.25	22.0±1	1.0
				1	49	23.04	22.0±1	1.0
				1	99	21.99	22.0±1	1.0
				50	0	21.59	22.0±1	1.0
				50	24	21.71	22.0±1	1.0
				50	49	21.55	22.0±1	1.0
				100	0	21.56	22.0±1	1.0
	133372	688	QPSK	1	0	23.29	23.0±1	/
				1	49	**23.95**	23.0±1	/
				1	99	23.39	23.0±1	/
				50	0	22.42	23.0±1	1.0
				50	24	22.57	23.0±1	1.0
				50	49	22.64	23.0±1	1.0
				100	0	22.57	23.0±1	1.0
			16QAM	1	0	22.5	22.0±1	1.0
				1	49	22.42	22.0±1	1.0
				1	99	22.12	22.0±1	1.0
				50	0	21.48	22.0±1	1.0
				50	24	21.52	22.0±1	1.0
				50	49	21.61	22.0±1	1.0
				100	0	21.57	22.0±1	1.0

ERP and EIRP

LTE Band 2

Channel Bandwidth	Modulation	Channel	Antenna Polar	EIRP (dBm)	Limit (dBm)	Verdict
1.4MHz	QPSK	Low	H	22.77	33	Pass
			V	**25.98**	33	Pass
		Middle	H	22.73	33	Pass
			V	25.34	33	Pass
		High	H	22.02	33	Pass
			V	24.94	33	Pass
	16QAM	Low	H	22.45	33	Pass
			V	**25.86**	33	Pass
		Middle	H	22.71	33	Pass
			V	25.07	33	Pass
		High	H	21.69	33	Pass
			V	24.69	33	Pass
3MHz	QPSK	Low	H	22.08	33	Pass
			V	25.14	33	Pass
		Middle	H	22.12	33	Pass
			V	25.34	33	Pass
		High	H	21.83	33	Pass
			V	24.84	33	Pass
	16QAM	Low	H	21.91	33	Pass
			V	25.05	33	Pass
		Middle	H	21.98	33	Pass
			V	24.38	33	Pass
		High	H	21.29	33	Pass
			V	24.33	33	Pass
5MHz	QPSK	Low	H	22.77	33	Pass
			V	25.54	33	Pass
		Middle	H	22.38	33	Pass
			V	24.99	33	Pass
		High	H	21.89	33	Pass
			V	24.54	33	Pass
	16QAM	Low	H	22.45	33	Pass
			V	25.45	33	Pass
		Middle	H	22.25	33	Pass
			V	25.01	33	Pass
		High	H	21.61	33	Pass
			V	24.49	33	Pass

Channel Bandwidth	Modulation	Channel	Antenna Polar	EIRP (dBm)	Limit (dBm)	Verdict
10MHz	QPSK	Low	H	22.72	33	Pass
			V	25.30	33	Pass
		Middle	H	22.14	33	Pass
			V	24.68	33	Pass
		High	H	21.68	33	Pass
			V	24.80	33	Pass
	16QAM	Low	H	21.86	33	Pass
			V	25.19	33	Pass
		Middle	H	21.95	33	Pass
			V	24.76	33	Pass
		High	H	21.39	33	Pass
			V	24.61	33	Pass
15MHz	QPSK	Low	H	22.29	33	Pass
			V	24.90	33	Pass
		Middle	H	22.11	33	Pass
			V	24.62	33	Pass
		High	H	21.42	33	Pass
			V	24.69	33	Pass
	16QAM	Low	H	21.67	33	Pass
			V	24.91	33	Pass
		Middle	H	21.86	33	Pass
			V	24.66	33	Pass
		High	H	21.26	33	Pass
			V	24.41	33	Pass
20MHz	QPSK	Low	H	22.09	33	Pass
			V	24.74	33	Pass
		Middle	H	21.63	33	Pass
			V	24.04	33	Pass
		High	H	21.17	33	Pass
			V	24.33	33	Pass
	16QAM	Low	H	21.12	33	Pass
			V	24.37	33	Pass
		Middle	H	21.55	33	Pass
			V	24.73	33	Pass
		High	H	20.76	33	Pass
			V	24.43	33	Pass

LTE Band 4

Channel Bandwidth	Modulation	Channel	Antenna Polar	EIRP (dBm)	Limit (dBm)	Verdict
1.4MHz	QPSK	Low	H	22.25	30	Pass
			V	**25.38**	30	Pass
		Middle	H	21.41	30	Pass
			V	24.61	30	Pass
		High	H	20.89	30	Pass
			V	23.60	30	Pass
	16QAM	Low	H	21.96	30	Pass
			V	**24.97**	30	Pass
		Middle	H	21.12	30	Pass
			V	24.37	30	Pass
		High	H	20.37	30	Pass
			V	23.14	30	Pass
3MHz	QPSK	Low	H	21.93	30	Pass
			V	24.93	30	Pass
		Middle	H	21.35	30	Pass
			V	23.81	30	Pass
		High	H	20.06	30	Pass
			V	23.40	30	Pass
	16QAM	Low	H	21.60	30	Pass
			V	24.30	30	Pass
		Middle	H	21.03	30	Pass
			V	24.30	30	Pass
		High	H	19.64	30	Pass
			V	23.04	30	Pass
5MHz	QPSK	Low	H	22.08	30	Pass
			V	25.25	30	Pass
		Middle	H	21.31	30	Pass
			V	24.26	30	Pass
		High	H	20.85	30	Pass
			V	23.22	30	Pass
	16QAM	Low	H	21.93	30	Pass
			V	24.83	30	Pass
		Middle	H	21.06	30	Pass
			V	24.02	30	Pass
		High	H	20.33	30	Pass
			V	22.83	30	Pass

Channel Bandwidth	Modulation	Channel	Antenna Polar	EIRP (dBm)	Limit (dBm)	Verdict
10MHz	QPSK	Low	H	22.17	30	Pass
			V	25.22	30	Pass
		Middle	H	21.03	30	Pass
			V	23.79	30	Pass
		High	H	20.67	30	Pass
			V	22.96	30	Pass
	16QAM	Low	H	21.80	30	Pass
			V	24.87	30	Pass
		Middle	H	20.38	30	Pass
			V	23.79	30	Pass
		High	H	20.07	30	Pass
			V	22.72	30	Pass
15MHz	QPSK	Low	H	21.76	30	Pass
			V	24.98	30	Pass
		Middle	H	20.98	30	Pass
			V	23.47	30	Pass
		High	H	20.35	30	Pass
			V	22.53	30	Pass
	16QAM	Low	H	21.71	30	Pass
			V	24.64	30	Pass
		Middle	H	20.20	30	Pass
			V	23.70	30	Pass
		High	H	19.70	30	Pass
			V	22.69	30	Pass
20MHz	QPSK	Low	H	21.94	30	Pass
			V	25.09	30	Pass
		Middle	H	20.71	30	Pass
			V	23.57	30	Pass
		High	H	20.58	30	Pass
			V	22.39	30	Pass
	16QAM	Low	H	21.43	30	Pass
			V	24.27	30	Pass
		Middle	H	20.05	30	Pass
			V	23.77	30	Pass
		High	H	19.52	30	Pass
			V	22.27	30	Pass

LTE Band 5

Channel Bandwidth	Modulation	Channel	Antenna Polar	ERP (dBm)	Limit (dBm)	Verdict
1.4MHz	QPSK	Low	H	22.14	38.45	Pass
			V	24.94	38.45	Pass
		Middle	H	21.90	38.45	Pass
			V	24.44	38.45	Pass
		High	H	21.43	38.45	Pass
			V	23.78	38.45	Pass
	16QAM	Low	H	21.96	38.45	Pass
			V	25.10	38.45	Pass
		Middle	H	21.63	38.45	Pass
			V	24.04	38.45	Pass
		High	H	21.34	38.45	Pass
			V	23.71	38.45	Pass
3MHz	QPSK	Low	H	21.98	38.45	Pass
			V	25.30	38.45	Pass
		Middle	H	21.86	38.45	Pass
			V	23.71	38.45	Pass
		High	H	20.72	38.45	Pass
			V	23.75	38.45	Pass
	16QAM	Low	H	21.13	38.45	Pass
			V	25.07	38.45	Pass
		Middle	H	21.57	38.45	Pass
			V	23.38	38.45	Pass
		High	H	20.70	38.45	Pass
			V	23.65	38.45	Pass
5MHz	QPSK	Low	H	21.71	38.45	Pass
			V	**25.34**	38.45	Pass
		Middle	H	21.73	38.45	Pass
			V	24.00	38.45	Pass
		High	H	21.22	38.45	Pass
			V	23.59	38.45	Pass
	16QAM	Low	H	21.84	38.45	Pass
			V	**25.13**	38.45	Pass
		Middle	H	21.46	38.45	Pass
			V	23.90	38.45	Pass
		High	H	21.23	38.45	Pass
			V	23.45	38.45	Pass

Channel Bandwidth	Modulation	Channel	Antenna Polar	ERP (dBm)	Limit (dBm)	Verdict
10MHz	QPSK	Low	H	21.67	38.45	Pass
			V	24.67	38.45	Pass
		Middle	H	21.49	38.45	Pass
			V	24.01	38.45	Pass
		High	H	20.72	38.45	Pass
			V	23.39	38.45	Pass
	16QAM	Low	H	21.22	38.45	Pass
			V	24.74	38.45	Pass
		Middle	H	21.08	38.45	Pass
			V	23.45	38.45	Pass
		High	H	20.67	38.45	Pass
			V	22.94	38.45	Pass

LTE Band 7

Channel Bandwidth	Modulation	Channel	Antenna Polar	EIRP (dBm)	Limit (dBm)	Verdict
5MHz	QPSK	Low	H	21.74	33	Pass
			V	**25.29**	33	Pass
		Middle	H	21.27	33	Pass
			V	23.85	33	Pass
		High	H	20.79	33	Pass
			V	23.21	33	Pass
	16QAM	Low	H	21.92	33	Pass
			V	**25.07**	33	Pass
		Middle	H	21.24	33	Pass
			V	23.16	33	Pass
		High	H	20.24	33	Pass
			V	22.90	33	Pass
10MHz	QPSK	Low	H	22.04	33	Pass
			V	25.02	33	Pass
		Middle	H	21.75	33	Pass
			V	24.15	33	Pass
		High	H	20.32	33	Pass
			V	23.32	33	Pass
	16QAM	Low	H	21.33	33	Pass
			V	24.57	33	Pass
		Middle	H	21.07	33	Pass
			V	23.30	33	Pass
		High	H	20.64	33	Pass
			V	22.52	33	Pass
15MHz	QPSK	Low	H	21.80	33	Pass
			V	24.95	33	Pass
		Middle	H	21.54	33	Pass
			V	24.01	33	Pass
		High	H	20.71	33	Pass
			V	23.36	33	Pass
	16QAM	Low	H	21.88	33	Pass
			V	24.79	33	Pass
		Middle	H	21.37	33	Pass
			V	23.49	33	Pass
		High	H	20.65	33	Pass
			V	22.81	33	Pass

Channel Bandwidth	Modulation	Channel	Antenna Polar	EIRP (dBm)	Limit (dBm)	Verdict
20MHz	QPSK	Low	H	22.18	33	Pass
			V	25.09	33	Pass
		Middle	H	21.93	33	Pass
			V	24.25	33	Pass
		High	H	20.88	33	Pass
			V	23.48	33	Pass
	16QAM	Low	H	22.11	33	Pass
			V	24.94	33	Pass
		Middle	H	21.52	33	Pass
			V	23.91	33	Pass
		High	H	20.79	33	Pass
			V	23.13	33	Pass

LTE Band 12

Channel Bandwidth	Modulation	Channel	Antenna Polar	ERP (dBm)	Limit (dBm)	Verdict
1.4MHz	QPSK	Low	H	21.07	34.77	Pass
			V	**24.10**	34.77	Pass
		Middle	H	20.81	34.77	Pass
			V	23.14	34.77	Pass
		High	H	20.02	34.77	Pass
			V	22.74	34.77	Pass
	16QAM	Low	H	20.54	34.77	Pass
			V	**23.94**	34.77	Pass
		Middle	H	20.74	34.77	Pass
			V	22.75	34.77	Pass
		High	H	19.60	34.77	Pass
			V	22.40	34.77	Pass
3MHz	QPSK	Low	H	20.27	34.77	Pass
			V	23.79	34.77	Pass
		Middle	H	20.53	34.77	Pass
			V	23.00	34.77	Pass
		High	H	19.78	34.77	Pass
			V	22.55	34.77	Pass
	16QAM	Low	H	19.79	34.77	Pass
			V	23.74	34.77	Pass
		Middle	H	20.27	34.77	Pass
			V	22.41	34.77	Pass
		High	H	18.96	34.77	Pass
			V	22.08	34.77	Pass
5MHz	QPSK	Low	H	21.03	34.77	Pass
			V	24.05	34.77	Pass
		Middle	H	20.73	34.77	Pass
			V	22.88	34.77	Pass
		High	H	19.94	34.77	Pass
			V	22.60	34.77	Pass
	16QAM	Low	H	20.27	34.77	Pass
			V	23.82	34.77	Pass
		Middle	H	20.31	34.77	Pass
			V	22.65	34.77	Pass
		High	H	19.49	34.77	Pass
			V	22.29	34.77	Pass

Channel Bandwidth	Modulation	Channel	Antenna Polar	ERP (dBm)	Limit (dBm)	Verdict
10MHz	QPSK	Low	H	20.96	34.77	Pass
			V	23.65	34.77	Pass
		Middle	H	20.10	34.77	Pass
			V	22.57	34.77	Pass
		High	H	19.41	34.77	Pass
			V	22.50	34.77	Pass
	16QAM	Low	H	20.08	34.77	Pass
			V	23.88	34.77	Pass
		Middle	H	20.11	34.77	Pass
			V	22.07	34.77	Pass
		High	H	19.15	34.77	Pass
			V	21.92	34.77	Pass

LTE Band 13

Channel Bandwidth	Modulation	Channel	Antenna Polar	ERP (dBm)	Limit (dBm)	Verdict
5MHz	QPSK	Low	H	20.97	34.77	Pass
			V	**24.03**	34.77	Pass
		Middle	H	20.15	34.77	Pass
			V	23.75	34.77	Pass
		High	H	19.14	34.77	Pass
			V	22.87	34.77	Pass
	16QAM	Low	H	20.44	34.77	Pass
			V	**23.74**	34.77	Pass
		Middle	H	19.96	34.77	Pass
			V	23.48	34.77	Pass
		High	H	18.82	34.77	Pass
			V	22.67	34.77	Pass
10MHz	QPSK	Low	H	20.97	34.77	Pass
			V	24.01	34.77	Pass
	16QAM	Low	H	20.15	34.77	Pass
			V	23.65	34.77	Pass

LTE Band 14

Channel Bandwidth	Modulation	Channel	Antenna Polar	ERP (dBm)	Limit (dBm)	Verdict
5MHz	QPSK	Low	H	20.13	34.77	Pass
			V	23.60	34.77	Pass
		Middle	H	20.53	34.77	Pass
			V	22.39	34.77	Pass
		High	H	19.59	34.77	Pass
			V	21.90	34.77	Pass
	16QAM	Low	H	19.57	34.77	Pass
			V	22.75	34.77	Pass
		Middle	H	20.52	34.77	Pass
			V	22.37	34.77	Pass
		High	H	19.65	34.77	Pass
			V	21.07	34.77	Pass
10MHz	QPSK	Low	H	23.59	34.77	Pass
			V	**23.87**	34.77	Pass
	16QAM	Low	H	20.54	34.77	Pass
			V	**23.52**	34.77	Pass

LTE Band 17

Channel Bandwidth	Modulation	Channel	Antenna Polar	ERP (dBm)	Limit (dBm)	Verdict
5MHz	QPSK	Low	H	20.84	34.77	Pass
			V	**23.88**	34.77	Pass
		Middle	H	20.77	34.77	Pass
			V	23.43	34.77	Pass
		High	H	20.12	34.77	Pass
			V	23.02	34.77	Pass
	16QAM	Low	H	20.75	34.77	Pass
			V	**23.41**	34.77	Pass
		Middle	H	20.71	34.77	Pass
			V	23.04	34.77	Pass
		High	H	19.78	34.77	Pass
			V	22.78	34.77	Pass
10MHz	QPSK	Low	H	20.11	34.77	Pass
			V	23.61	34.77	Pass
		Middle	H	20.31	34.77	Pass
			V	22.77	34.77	Pass
		High	H	19.90	34.77	Pass
			V	22.77	34.77	Pass
	16QAM	Low	H	20.09	34.77	Pass
			V	23.18	34.77	Pass
		Middle	H	20.41	34.77	Pass
			V	23.85	34.77	Pass
		High	H	20.42	34.77	Pass
			V	23.00	34.77	Pass

LTE Band 25

Channel Bandwidth	Modulation	Channel	Antenna Polar	EIRP (dBm)	Limit (dBm)	Verdict
1.4MHz	QPSK	Low	H	22.61	33	Pass
			V	**25.73**	33	Pass
		Middle	H	22.22	33	Pass
			V	25.44	33	Pass
		High	H	21.26	33	Pass
			V	25.31	33	Pass
	16QAM	Low	H	22.57	33	Pass
			V	**25.52**	33	Pass
		Middle	H	21.74	33	Pass
			V	25.29	33	Pass
		High	H	21.12	33	Pass
			V	24.91	33	Pass
3MHz	QPSK	Low	H	21.94	33	Pass
			V	24.94	33	Pass
		Middle	H	22.18	33	Pass
			V	24.78	33	Pass
		High	H	21.22	33	Pass
			V	24.84	33	Pass
	16QAM	Low	H	21.94	33	Pass
			V	25.30	33	Pass
		Middle	H	21.40	33	Pass
			V	25.11	33	Pass
		High	H	20.44	33	Pass
			V	24.83	33	Pass
5MHz	QPSK	Low	H	22.42	33	Pass
			V	25.60	33	Pass
		Middle	H	22.17	33	Pass
			V	25.17	33	Pass
		High	H	20.87	33	Pass
			V	24.91	33	Pass
	16QAM	Low	H	22.56	33	Pass
			V	25.21	33	Pass
		Middle	H	21.60	33	Pass
			V	24.88	33	Pass
		High	H	20.95	33	Pass
			V	24.88	33	Pass

Channel Bandwidth	Modulation	Channel	Antenna Polar	EIRP (dBm)	Limit (dBm)	Verdict
10MHz	QPSK	Low	H	22.55	33	Pass
			V	25.24	33	Pass
		Middle	H	22.09	33	Pass
			V	25.07	33	Pass
		High	H	20.81	33	Pass
			V	25.11	33	Pass
	16QAM	Low	H	22.32	33	Pass
			V	24.97	33	Pass
		Middle	H	20.93	33	Pass
			V	24.86	33	Pass
		High	H	20.55	33	Pass
			V	24.12	33	Pass
15MHz	QPSK	Low	H	22.11	33	Pass
			V	24.93	33	Pass
		Middle	H	21.82	33	Pass
			V	24.86	33	Pass
		High	H	20.80	33	Pass
			V	24.86	33	Pass
	16QAM	Low	H	22.24	33	Pass
			V	24.61	33	Pass
		Middle	H	20.75	33	Pass
			V	24.81	33	Pass
		High	H	20.32	33	Pass
			V	23.71	33	Pass
20MHz	QPSK	Low	H	22.52	33	Pass
			V	24.46	33	Pass
		Middle	H	21.55	33	Pass
			V	24.75	33	Pass
		High	H	20.38	33	Pass
			V	24.31	33	Pass
	16QAM	Low	H	22.06	33	Pass
			V	24.32	33	Pass
		Middle	H	20.28	33	Pass
			V	24.34	33	Pass
		High	H	20.11	33	Pass
			V	24.04	33	Pass

LTE Band 26(Part 90)

Channel Bandwidth	Modulation	Channel	Antenna Polar	ERP (dBm)	Limit (dBm)	Verdict
1.4MHz	QPSK	Low	H	21.97	38.45	Pass
			V	**24.98**	38.45	Pass
		Middle	H	21.23	38.45	Pass
			V	24.23	38.45	Pass
		High	H	21.07	38.45	Pass
			V	23.64	38.45	Pass
	16QAM	Low	H	21.59	38.45	Pass
			V	**24.50**	38.45	Pass
		Middle	H	20.88	38.45	Pass
			V	23.99	38.45	Pass
		High	H	21.06	38.45	Pass
			V	23.51	38.45	Pass
3MHz	QPSK	Low	H	21.67	38.45	Pass
			V	24.42	38.45	Pass
		Middle	H	21.03	38.45	Pass
			V	23.42	38.45	Pass
		High	H	20.24	38.45	Pass
			V	23.16	38.45	Pass
	16QAM	Low	H	21.19	38.45	Pass
			V	23.82	38.45	Pass
		Middle	H	20.14	38.45	Pass
			V	23.84	38.45	Pass
		High	H	20.88	38.45	Pass
			V	23.23	38.45	Pass
5MHz	QPSK	Low	H	21.81	38.45	Pass
			V	24.88	38.45	Pass
		Middle	H	20.91	38.45	Pass
			V	24.18	38.45	Pass
		High	H	20.64	38.45	Pass
			V	23.31	38.45	Pass
	16QAM	Low	H	21.52	38.45	Pass
			V	24.14	38.45	Pass
		Middle	H	20.83	38.45	Pass
			V	23.95	38.45	Pass
		High	H	21.03	38.45	Pass
			V	23.10	38.45	Pass
10MHz	QPSK	Low	H	21.97	38.45	Pass
			V	24.98	38.45	Pass
	16QAM	Low	H	21.23	38.45	Pass
			V	24.23	38.45	Pass

LTE Band 26(Part 22)

Channel Bandwidth	Modulation	Channel	Antenna Polar	ERP (dBm)	Limit (dBm)	Verdict
1.4MHz	QPSK	Low	H	21.22	38.45	Pass
			V	24.51	38.45	Pass
		Middle	H	21.03	38.45	Pass
			V	24.47	38.45	Pass
		High	H	20.59	38.45	Pass
			V	23.87	38.45	Pass
	16QAM	Low	H	21.16	38.45	Pass
			V	24.26	38.45	Pass
		Middle	H	20.55	38.45	Pass
			V	24.24	38.45	Pass
		High	H	19.71	38.45	Pass
			V	23.28	38.45	Pass
3MHz	QPSK	Low	H	21.84	38.45	Pass
			V	24.74	38.45	Pass
		Middle	H	21.53	38.45	Pass
			V	24.31	38.45	Pass
		High	H	20.67	38.45	Pass
			V	24.03	38.45	Pass
	16QAM	Low	H	21.80	38.45	Pass
			V	24.59	38.45	Pass
		Middle	H	20.82	38.45	Pass
			V	24.32	38.45	Pass
		High	H	20.25	38.45	Pass
			V	23.72	38.45	Pass
5MHz	QPSK	Low	H	22.07	38.45	Pass
			V	**25.11**	38.45	Pass
		Middle	H	21.55	38.45	Pass
			V	24.66	38.45	Pass
		High	H	20.68	38.45	Pass
			V	24.21	38.45	Pass
	16QAM	Low	H	21.96	38.45	Pass
			V	**24.99**	38.45	Pass
		Middle	H	21.04	38.45	Pass
			V	24.40	38.45	Pass
		High	H	20.27	38.45	Pass
			V	23.76	38.45	Pass

Channel Bandwidth	Modulation	Channel	Antenna Polar	ERP (dBm)	Limit (dBm)	Verdict
10MHz	QPSK	Low	H	21.26	38.45	Pass
			V	24.75	38.45	Pass
		Middle	H	20.90	38.45	Pass
			V	23.83	38.45	Pass
		High	H	20.46	38.45	Pass
			V	23.99	38.45	Pass
	16QAM	Low	H	21.95	38.45	Pass
			V	24.67	38.45	Pass
		Middle	H	20.24	38.45	Pass
			V	24.01	38.45	Pass
		High	H	19.69	38.45	Pass
			V	22.97	38.45	Pass
15MHz	QPSK	Low	H	21.10	38.45	Pass
			V	24.52	38.45	Pass
		Middle	H	20.61	38.45	Pass
			V	23.40	38.45	Pass
		High	H	20.34	38.45	Pass
			V	23.67	38.45	Pass
	16QAM	Low	H	21.86	38.45	Pass
			V	24.59	38.45	Pass
		Middle	H	20.22	38.45	Pass
			V	23.72	38.45	Pass
		High	H	19.37	38.45	Pass
			V	22.58	38.45	Pass

LTE Band 41

Channel Bandwidth	Modulation	Channel	Antenna Polar	EIRP (dBm)	Limit (dBm)	Verdict
5MHz	QPSK	Low	H	22.58	33	Pass
			V	25.67	33	Pass
		Middle	H	22.24	33	Pass
			V	25.43	33	Pass
		High	H	22.07	33	Pass
			V	25.45	33	Pass
	16QAM	Low	H	22.28	33	Pass
			V	25.77	33	Pass
		Middle	H	21.51	33	Pass
			V	25.16	33	Pass
		High	H	21.51	33	Pass
			V	25.17	33	Pass
10MHz	QPSK	Low	H	22.24	33	Pass
			V	25.06	33	Pass
		Middle	H	22.42	33	Pass
			V	25.38	33	Pass
		High	H	21.89	33	Pass
			V	25.30	33	Pass
	16QAM	Low	H	22.03	33	Pass
			V	25.29	33	Pass
		Middle	H	21.67	33	Pass
			V	24.70	33	Pass
		High	H	21.34	33	Pass
			V	24.57	33	Pass
15MHz	QPSK	Low	H	22.17	33	Pass
			V	24.85	33	Pass
		Middle	H	22.42	33	Pass
			V	25.09	33	Pass
		High	H	21.74	33	Pass
			V	25.30	33	Pass
	16QAM	Low	H	21.91	33	Pass
			V	25.16	33	Pass
		Middle	H	21.67	33	Pass
			V	24.62	33	Pass
		High	H	21.10	33	Pass
			V	24.28	33	Pass

Channel Bandwidth	Modulation	Channel	Antenna Polar	EIRP (dBm)	Limit (dBm)	Verdict
20MHz	QPSK	Low	H	22.78	33	Pass
			V	**25.86**	33	Pass
		Middle	H	22.49	33	Pass
			V	25.77	33	Pass
		High	H	22.20	33	Pass
			V	25.55	33	Pass
	16QAM	Low	H	22.67	33	Pass
			V	**25.82**	33	Pass
		Middle	H	21.96	33	Pass
			V	25.28	33	Pass
		High	H	21.88	33	Pass
			V	25.40	33	Pass

LTE Band 66

Channel Bandwidth	Modulation	Channel	Antenna Polar	EIRP (dBm)	Limit (dBm)	Verdict
1.4MHz	QPSK	Low	H	22.13	30	Pass
			V	25.30	30	Pass
		Middle	H	21.62	30	Pass
			V	24.81	30	Pass
		High	H	21.28	30	Pass
			V	24.77	30	Pass
	16QAM	Low	H	21.99	30	Pass
			V	25.20	30	Pass
		Middle	H	21.13	30	Pass
			V	24.38	30	Pass
		High	H	20.90	30	Pass
			V	24.64	30	Pass
3MHz	QPSK	Low	H	21.30	30	Pass
			V	24.76	30	Pass
		Middle	H	21.06	30	Pass
			V	24.64	30	Pass
		High	H	21.06	30	Pass
			V	23.96	30	Pass
	16QAM	Low	H	21.54	30	Pass
			V	24.51	30	Pass
		Middle	H	20.60	30	Pass
			V	23.84	30	Pass
		High	H	20.15	30	Pass
			V	24.41	30	Pass
5MHz	QPSK	Low	H	21.88	30	Pass
			V	25.19	30	Pass
		Middle	H	21.42	30	Pass
			V	24.66	30	Pass
		High	H	21.17	30	Pass
			V	24.42	30	Pass
	16QAM	Low	H	21.84	30	Pass
			V	24.91	30	Pass
		Middle	H	21.04	30	Pass
			V	24.36	30	Pass
		High	H	20.62	30	Pass
			V	24.53	30	Pass

Channel Bandwidth	Modulation	Channel	Antenna Polar	EIRP (dBm)	Limit (dBm)	Verdict
10MHz	QPSK	Low	H	22.07	30	Pass
			V	24.75	30	Pass
		Middle	H	21.59	30	Pass
			V	24.09	30	Pass
		High	H	20.93	30	Pass
			V	24.14	30	Pass
	16QAM	Low	H	21.27	30	Pass
			V	25.09	30	Pass
		Middle	H	20.37	30	Pass
			V	23.75	30	Pass
		High	H	20.56	30	Pass
			V	23.80	30	Pass
15MHz	QPSK	Low	H	21.85	30	Pass
			V	24.48	30	Pass
		Middle	H	21.43	30	Pass
			V	23.82	30	Pass
		High	H	20.80	30	Pass
			V	23.81	30	Pass
	16QAM	Low	H	20.97	30	Pass
			V	24.92	30	Pass
		Middle	H	20.27	30	Pass
			V	23.35	30	Pass
		High	H	20.40	30	Pass
			V	23.62	30	Pass
20MHz	QPSK	Low	H	22.07	30	Pass
			V	**25.32**	30	Pass
		Middle	H	21.06	30	Pass
			V	24.05	30	Pass
		High	H	20.56	30	Pass
			V	24.01	30	Pass
	16QAM	Low	H	21.22	30	Pass
			V	**25.21**	30	Pass
		Middle	H	19.68	30	Pass
			V	23.13	30	Pass
		High	H	20.07	30	Pass
			V	23.21	30	Pass

LTE Band 71

Channel Bandwidth	Modulation	Channel	Antenna Polar	EIRP (dBm)	Limit (dBm)	Verdict
5MHz	QPSK	Low	H	19.49	33	Pass
			V	23.31	33	Pass
		Middle	H	19.89	33	Pass
			V	23.07	33	Pass
		High	H	19.20	33	Pass
			V	22.65	33	Pass
	16QAM	Low	H	19.43	33	Pass
			V	22.79	33	Pass
		Middle	H	19.56	33	Pass
			V	22.91	33	Pass
		High	H	18.91	33	Pass
			V	22.33	33	Pass
10MHz	QPSK	Low	H	19.97	33	Pass
			V	23.31	33	Pass
		Middle	H	19.97	33	Pass
			V	22.78	33	Pass
		High	H	19.54	33	Pass
			V	22.56	33	Pass
	16QAM	Low	H	19.69	33	Pass
			V	22.73	33	Pass
		Middle	H	19.69	33	Pass
			V	22.94	33	Pass
		High	H	18.96	33	Pass
			V	22.50	33	Pass
15MHz	QPSK	Low	H	20.18	33	Pass
			V	23.40	33	Pass
		Middle	H	19.89	33	Pass
			V	22.73	33	Pass
		High	H	19.10	33	Pass
			V	22.50	33	Pass
	16QAM	Low	H	19.15	33	Pass
			V	22.20	33	Pass
		Middle	H	19.76	33	Pass
			V	22.29	33	Pass
		High	H	18.95	33	Pass
			V	21.98	33	Pass

Channel Bandwidth	Modulation	Channel	Antenna Polar	EIRP (dBm)	Limit (dBm)	Verdict
20MHz	QPSK	Low	H	20.33	33	Pass
			V	**23.43**	33	Pass
		Middle	H	20.15	33	Pass
			V	23.19	33	Pass
		High	H	19.81	33	Pass
			V	22.97	33	Pass
	16QAM	Low	H	19.88	33	Pass
			V	**23.04**	33	Pass
		Middle	H	20.13	33	Pass
			V	23.01	33	Pass
		High	H	19.28	33	Pass
			V	22.61	33	Pass

8 Peak-to-Average Ratio

Test Requirement: 24.232 (d), 27.50(d)

Test Method: N/A

Test Mode: TX transmitting

8.1 EUT Operation

Operating Environment **:**

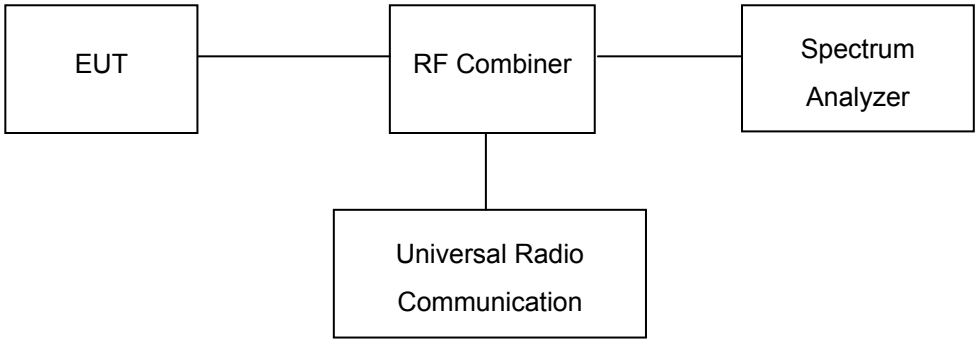
Temperature: 22.5 °C

Humidity: 52.3% RH

Atmospheric Pressure: 101.2kPa

8.2 Test Procedure

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. Set EUT to transmit at maximum output power.
3. When the duty cycle is less than 98%, then signal gating will be implemented on the spectrum analyzer by triggering from the system simulator.
4. Set the CCDF (Complementary Cumulative Distribution Function) option of the spectrum analyzer. Record the maximum PAPR level associated with a probability of 0.1%.



8.3 Test Result

PASS

LTE Band

Please refer to the Appendix Band 2/4/5/7/12/13/14/17/25/26/41/66/71 LTE Peak to Average Ratio.

9 Bandwidth

Test Requirement:	FCC Part 2.1049, 22.917, 22.905, 24.238, 27.53(a); 90.691
Test Method:	ANSI C63.26:2015
	ANSI/TIA-603-E:2016
Test Mode:	TX transmitting

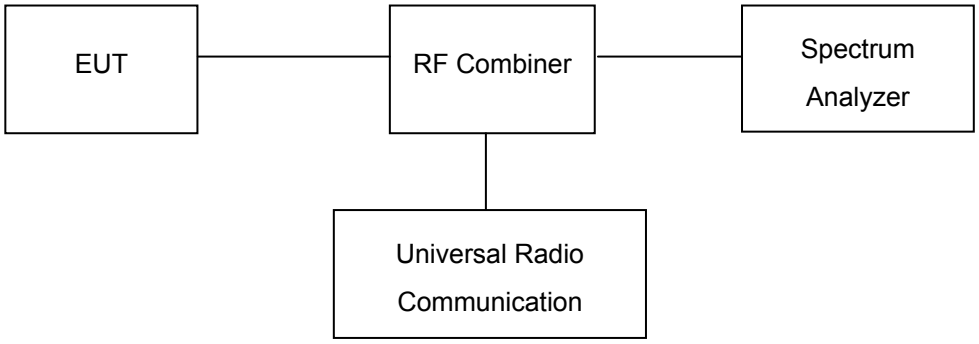
9.1 EUT Operation

Operating Environment **:**

Temperature:	22.5 °C
Humidity:	52.3% RH
Atmospheric Pressure:	101.2kPa

9.2 Test Procedure

The RF output of the transmitter was connected to the wireless test set and the spectrum analyzer through sufficient attenuation.
The resolution bandwidth of the spectrum analyzer was set in the range of 1 to 5 % of the anticipated OBW and the 26 dB & 99%bandwidth was recorded.



9.3 Test Result

PASS

LTE Band

Please refer to the Appendix Band 2/4/5/7/12/13/14/17/25/26/41/66/71 LTE Transmitter Occupied Bandwidth(SA).

10 Spurious Emissions at Antenna Terminals

Test Requirement:	FCC Part 2.1051, 22.917(a), 24.238(a), 27.53(h), 27.53(m)(4); 90.691
Test Method:	ANSI C63.26:2015 ANSI/TIA-603-E:2016
Test Mode:	TX transmitting

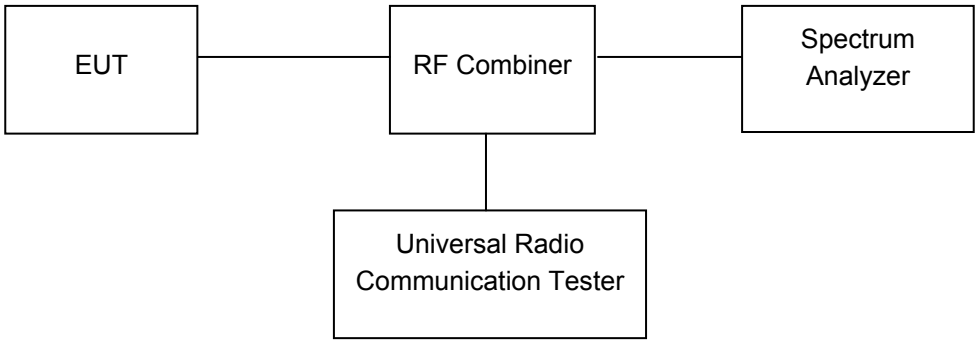
10.1 EUT Operation

Operating Environment **:**

Temperature:	23.5 °C
Humidity:	52.1 % RH
Atmospheric Pressure:	101.3kPa

10.2 Test Procedure

The RF output of the transceiver was connected to a spectrum analyzer and simulator through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz. Sufficient scans were taken to show any out of band emissions up to 10th harmonics.



10.3 Test Result

PASS

LTE Band

Please refer to the Appendix Band 2/4/5/7/12/13/14/17/25/26/41/66/71 LTE Transmitter Spurious Emissions.

11 Spurious Radiated Emissions

Test Requirement:	FCC Part 2.1053, 22.917, 24.238, 27.53(h), 27.53(m)(4); 90.691
Test Method:	ANSI C63.26:2015 ANSI/TIA-603-E:2016
Test Mode:	TX transmitting

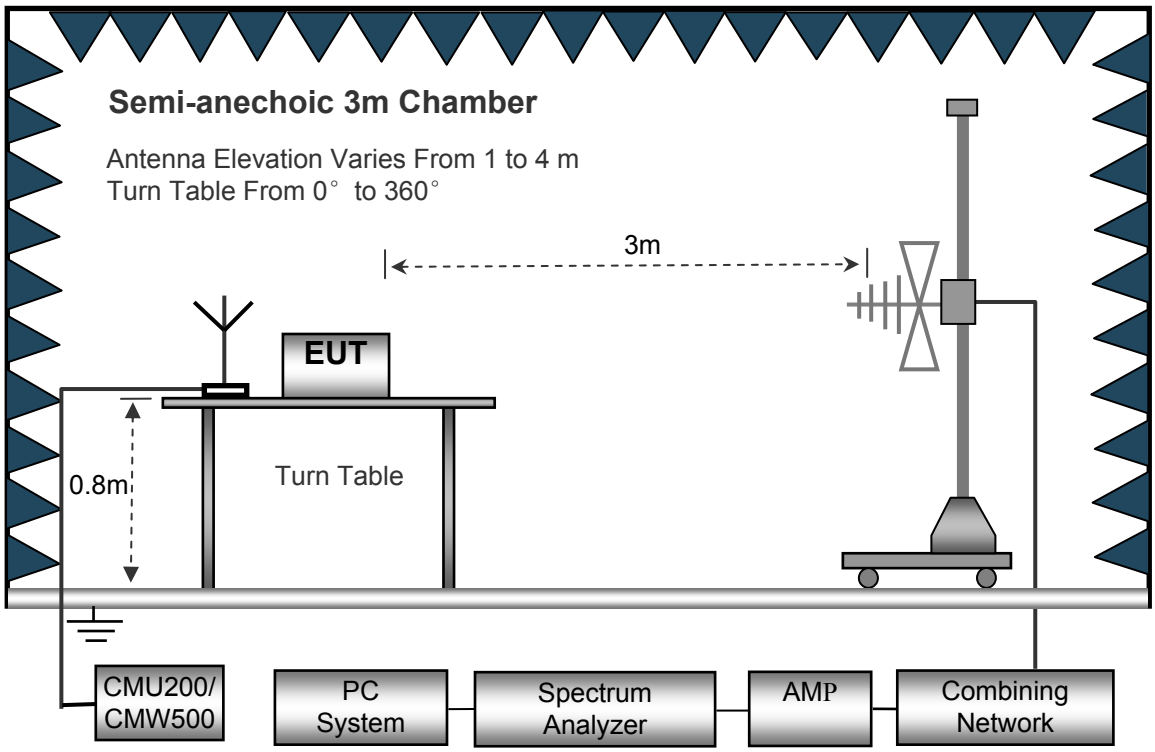
11.1 EUT Operation

Operating Environment **:**

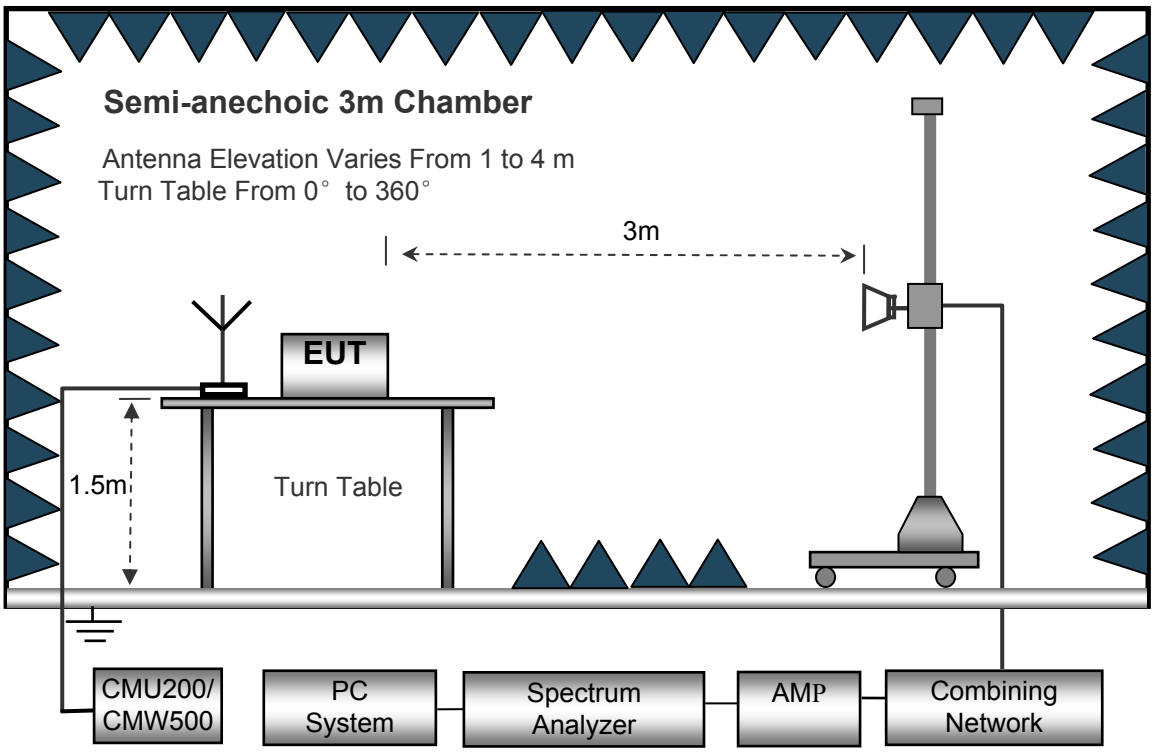
Temperature:	23.5 °C
Humidity:	52.1 % RH
Atmospheric Pressure:	101.2kPa

11.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site. The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.



11.3 Spectrum Analyzer Setup

30MHz ~ 1GHz

Sweep Speed ..... Auto
Detector ..... PK
Resolution Bandwidth..... 100kHz
Video Bandwidth..... 300kHz

Above 1GHz

Sweep Speed ..... Auto
Detector ..... PK
Resolution Bandwidth..... 1MHz
Video Bandwidth..... 3MHz
Detector ..... Ave.
Resolution Bandwidth..... 1MHz
Video Bandwidth..... 10Hz

11.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m for below 1GHz and 1.5m for above 1GHz above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. The spectrum was investigated from 30MHz up to the tenth harmonic of the highest fundamental frequency.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the Z position. So the data shown was the Z position only.
7. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.
   Spurious emissions in dB = 10 lg (TXpwr in Watts/0.001) – the absolute level
   Spurious attenuation limit in dB = 43 + 10 Log10 (power out in Watts)
8. Repeat above procedures until the measurements for all frequencies are completed.

11.5 Summary of Test Results

Remark: Test performed from 30MHz to 10th harmonics with low/middle/high channels, only the worst data QPSK mode were recorded.

LTE Band 2

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Result	
			Height	Polar	SG Level	Cable	Antenna Gain		Limit	Margin
(MHz)	(dBμV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
LTE BAND 2 Channel 18607										
496.48	48.06	215	2.0	H	-62.45	2.95	17.10	-48.30	-13.00	-35.30
496.48	51.15	270	1.1	V	-56.44	2.95	17.10	-42.29	-13.00	-29.29
3701.40	53.84	65	1.2	H	-57.70	5.34	29.40	-33.64	-13.00	-20.64
3701.40	56.61	16	2.1	V	-53.20	5.34	29.40	-29.14	-13.00	-16.14
5552.10	34.72	233	1.6	H	-74.89	6.46	32.60	-48.75	-13.00	-35.75
5552.10	40.13	310	1.6	V	-68.75	6.46	32.60	-42.61	-13.00	-29.61
LTE BAND 2 Channel 18900										
496.48	48.59	290	1.4	H	-61.92	2.95	17.10	-47.77	-13.00	-34.77
496.48	50.87	218	1.6	V	-56.72	2.95	17.10	-42.57	-13.00	-29.57
3760.00	48.46	322	1.2	H	-63.08	5.34	29.40	-39.02	-13.00	-26.02
3760.00	52.26	347	1.4	V	-57.55	5.34	29.40	-33.49	-13.00	-20.49
5640.00	30.58	255	1.4	H	-79.03	6.46	32.60	-52.89	-13.00	-39.89
5640.00	35.02	226	1.4	V	-73.86	6.46	32.60	-47.72	-13.00	-34.72
LTE BAND 2 Channel 19193										
496.48	48.52	128	2.0	H	-61.99	2.95	17.10	-47.84	-13.00	-34.84
496.48	52.10	153	1.4	V	-55.49	2.95	17.10	-41.34	-13.00	-28.34
3818.60	47.56	208	1.1	H	-63.29	5.34	29.40	-39.23	-13.00	-26.23
3818.60	51.53	83	1.2	V	-57.78	5.34	29.40	-33.72	-13.00	-20.72
5727.90	28.05	231	1.8	H	-81.30	6.46	32.60	-55.16	-13.00	-42.16
5727.90	33.48	129	1.2	V	-75.02	6.46	32.60	-48.88	-13.00	-35.88

LTE Band 4

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Result	
			Height	Polar	SG Level	Cable	Antenna Gain		Limit	Margin
(MHz)	(dBμV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
LTE BAND 4 Channel 19957										
305.15	47.47	122	1.2	H	-63.04	2.39	12.70	-52.73	-13.00	-39.73
305.15	50.43	42	1.7	V	-57.16	2.39	12.70	-46.85	-13.00	-33.85
3421.40	55.26	113	2.0	H	-57.79	5.49	28.80	-34.48	-13.00	-21.48
3421.40	49.52	264	2.1	V	-61.63	5.49	28.80	-38.32	-13.00	-25.32
5132.10	34.89	30	1.8	H	-74.52	6.45	30.90	-50.07	-13.00	-37.07
5132.10	39.64	92	1.3	V	-69.13	6.45	30.90	-44.68	-13.00	-31.68
LTE BAND 4 Channel 20175										
305.15	47.19	210	1.2	H	-63.32	2.39	12.70	-53.01	-13.00	-40.01
305.15	50.09	81	2.2	V	-57.50	2.39	12.70	-47.19	-13.00	-34.19
3465.00	57.86	160	2.1	H	-55.19	5.49	28.80	-31.88	-13.00	-18.88
3465.00	49.82	345	1.4	V	-61.33	5.49	28.80	-38.02	-13.00	-25.02
5197.50	34.58	277	1.9	H	-74.83	6.45	30.90	-50.38	-13.00	-37.38
5197.50	40.18	253	1.0	V	-68.59	6.45	30.90	-44.14	-13.00	-31.14
LTE BAND 4 Channel 20393										
305.15	43.90	165	1.5	H	-66.61	2.39	12.70	-56.30	-13.00	-43.30
305.15	50.66	91	1.4	V	-56.93	2.39	12.70	-46.62	-13.00	-33.62
3508.60	54.27	238	1.2	H	-58.37	5.49	28.80	-35.06	-13.00	-22.06
3508.60	48.68	288	1.4	V	-62.05	5.49	28.80	-38.74	-13.00	-25.74
5262.90	29.50	50	2.1	H	-80.08	6.45	30.90	-55.63	-13.00	-42.63
5262.90	38.33	294	1.0	V	-70.47	6.45	30.90	-46.02	-13.00	-33.02

LTE Band 5

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Result	
			Height	Polar	SG Level	Cable	Antenna Gain		Limit	Margin
(MHz)	(dBμV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
LTE BAND 5 Channel 20407										
182.64	50.62	352	1.3	H	-59.89	2.01	9.40	-52.50	-13.00	-39.50
182.64	54.20	192	1.2	V	-53.39	2.01	9.40	-46.00	-13.00	-33.00
1649.40	57.54	95	2.0	H	-55.51	5.22	24.80	-35.93	-13.00	-22.93
1649.40	61.16	318	2.1	V	-49.99	5.22	24.80	-30.41	-13.00	-17.41
2474.10	39.42	197	1.1	H	-69.99	5.61	27.80	-47.80	-13.00	-34.80
2474.10	41.46	113	2.1	V	-67.31	5.61	27.80	-45.12	-13.00	-32.12
LTE BAND 5 Channel 20525										
182.64	50.45	156	1.9	H	-60.06	2.01	9.40	-52.67	-13.00	-39.67
182.64	54.44	204	1.9	V	-53.15	2.01	9.40	-45.76	-13.00	-32.76
1673.00	59.32	164	1.8	H	-53.73	5.22	24.80	-34.15	-13.00	-21.15
1673.00	59.65	23	1.8	V	-51.50	5.22	24.80	-31.92	-13.00	-18.92
2509.50	39.05	40	1.3	H	-70.36	5.61	27.80	-48.17	-13.00	-35.17
2509.50	43.00	141	1.5	V	-65.77	5.61	27.80	-43.58	-13.00	-30.58
LTE BAND 5 Channel 20643										
182.64	49.27	116	1.8	H	-61.24	2.01	9.40	-53.85	-13.00	-40.85
182.64	55.62	212	1.9	V	-51.97	2.01	9.40	-44.58	-13.00	-31.58
1696.60	57.37	8	1.1	H	-55.27	5.22	24.80	-35.69	-13.00	-22.69
1696.60	56.52	238	1.4	V	-54.21	5.22	24.80	-34.63	-13.00	-21.63
2544.90	42.68	248	2.2	H	-66.90	5.61	27.80	-44.71	-13.00	-31.71
2544.90	48.44	249	2.0	V	-60.36	5.61	27.80	-38.17	-13.00	-25.17

LTE Band 7

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Result	
			Height	Polar	SG Level	Cable	Antenna Gain		Limit	Margin
(MHz)	(dBμV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
LTE BAND 7 Channel 20775										
312.65	38.21	201	2.2	H	-72.30	2.39	12.70	-61.99	-25.00	-36.99
312.65	31.59	271	1.5	V	-76.00	2.39	12.70	-65.69	-25.00	-40.69
5005.00	35.14	166	1.5	H	-74.10	6.51	31.50	-49.11	-25.00	-24.11
5005.00	40.50	213	1.7	V	-68.27	6.51	31.50	-43.28	-25.00	-18.28
7507.50	16.13	239	1.5	H	-90.41	8.08	37.00	-61.49	-25.00	-36.49
7507.50	21.71	249	1.7	V	-83.72	8.08	37.00	-54.80	-25.00	-29.80
LTE BAND 7 Channel 21100										
312.65	36.35	105	1.1	H	-74.16	2.39	12.70	-63.85	-25.00	-38.85
312.65	41.48	192	1.6	V	-66.11	2.39	12.70	-55.80	-25.00	-30.80
5070.00	36.84	359	1.9	H	-72.40	6.51	31.50	-47.41	-25.00	-22.41
5070.00	40.12	88	2.1	V	-68.65	6.51	31.50	-43.66	-25.00	-18.66
7605.00	19.02	60	1.3	H	-87.52	8.08	37.00	-58.60	-25.00	-33.60
7605.00	23.31	256	1.0	V	-82.12	8.08	37.00	-53.20	-25.00	-28.20
LTE BAND 7 Channel 21425										
312.65	39.90	227	1.4	H	-70.61	2.39	12.70	-60.30	-25.00	-35.30
312.65	42.34	272	1.3	V	-65.25	2.39	12.70	-54.94	-25.00	-29.94
5135.00	36.24	100	1.4	H	-73.17	6.51	31.50	-48.18	-25.00	-23.18
5135.00	41.80	167	1.1	V	-66.97	6.51	31.50	-41.98	-25.00	-16.98
7702.50	21.68	93	1.9	H	-83.55	8.08	37.00	-54.63	-25.00	-29.63
7702.50	26.06	226	1.2	V	-78.83	8.08	37.00	-49.91	-25.00	-24.91

LTE Band 12

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Result	
			Height	Polar	SG Level	Cable	Antenna Gain		Limit	Margin
(MHz)	(dBμV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
LTE BAND 12 Channel 23017										
326.60	44.69	163	1.6	H	-65.82	2.39	12.70	-55.51	-13.00	-42.51
326.60	52.49	104	1.2	V	-55.10	2.39	12.70	-44.79	-13.00	-31.79
1399.40	54.67	307	2.0	H	-58.38	4.50	25.20	-37.68	-13.00	-24.68
1399.40	59.16	343	1.4	V	-51.99	4.50	25.20	-31.29	-13.00	-18.29
2099.10	38.01	177	1.3	H	-71.40	5.96	26.20	-51.16	-13.00	-38.16
2099.10	38.93	357	1.2	V	-69.84	5.96	26.20	-49.60	-13.00	-36.60
LTE BAND 12 Channel 23095										
326.60	45.90	114	1.5	H	-64.61	2.39	12.70	-54.30	-13.00	-41.30
326.60	49.57	302	1.8	V	-58.02	2.39	12.70	-47.71	-13.00	-34.71
1415.00	52.52	137	1.6	H	-60.53	4.50	25.20	-39.83	-13.00	-26.83
1415.00	59.92	333	1.9	V	-51.23	4.50	25.20	-30.53	-13.00	-17.53
2122.50	38.49	291	1.1	H	-70.92	5.96	26.20	-50.68	-13.00	-37.68
2122.50	39.67	128	1.4	V	-69.10	5.96	26.20	-48.86	-13.00	-35.86
LTE BAND 12 Channel 23173										
326.60	46.53	288	1.6	H	-63.98	2.39	12.70	-53.67	-13.00	-40.67
326.60	52.53	271	1.3	V	-55.06	2.39	12.70	-44.75	-13.00	-31.75
1430.60	55.24	200	1.9	H	-57.40	4.50	25.20	-36.70	-13.00	-23.70
1430.60	51.99	51	1.1	V	-58.74	4.50	25.20	-38.04	-13.00	-25.04
2145.90	42.81	299	2.2	H	-66.77	5.96	26.20	-46.53	-13.00	-33.53
2145.90	45.79	219	1.5	V	-63.01	5.96	26.20	-42.77	-13.00	-29.77

LTE Band 13

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Result	
			Height	Polar	SG Level	Cable	Antenna Gain		Limit	Margin
(MHz)	(dBμV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
LTE BAND 13 Channel 23205										
275.64	44.92	39	1.2	H	-65.59	2.39	12.70	-55.28	-13.00	-42.28
275.64	51.04	228	1.5	V	-56.55	2.39	12.70	-46.24	-13.00	-33.24
1559.00	54.77	333	1.1	H	-62.28	5.22	24.80	-42.70	-13.00	-29.70
1559.00	59.02	345	1.2	V	-52.13	5.22	24.80	-32.55	-13.00	-19.55
2338.50	37.47	184	2.1	H	-71.94	5.61	27.80	-49.75	-13.00	-36.75
2338.50	38.31	318	1.0	V	-70.46	5.61	27.80	-48.27	-13.00	-35.27
LTE BAND 13 Channel 23230										
275.64	46.54	105	1.3	H	-63.97	2.39	12.70	-53.66	-13.00	-40.66
275.64	51.40	30	1.1	V	-56.19	2.39	12.70	-45.88	-13.00	-32.88
1564.00	54.95	231	1.6	H	-58.10	5.22	24.80	-38.52	-13.00	-25.52
1564.00	59.11	267	1.8	V	-52.04	5.22	24.80	-32.46	-13.00	-19.46
2346.00	41.10	49	2.2	H	-68.31	5.61	27.80	-46.12	-13.00	-33.12
2346.00	41.56	279	1.1	V	-67.21	5.61	27.80	-45.02	-13.00	-32.02
LTE BAND 13 Channel 23255										
275.64	44.51	239	1.2	H	-66.00	2.39	12.70	-55.69	-13.00	-42.69
275.64	50.63	30	2.1	V	-56.96	2.39	12.70	-46.65	-13.00	-33.65
1569.00	52.96	243	1.6	H	-59.68	5.22	24.80	-40.10	-13.00	-27.10
1569.00	51.12	262	1.3	V	-59.61	5.22	24.80	-40.03	-13.00	-27.03
2353.50	40.39	92	1.9	H	-69.19	5.61	27.80	-47.00	-13.00	-34.00
2353.50	44.31	27	1.5	V	-64.49	5.61	27.80	-42.30	-13.00	-29.30

LTE Band 14

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Result	
			Height	Polar	SG Level	Cable	Antenna Gain		Limit	Margin
(MHz)	(dBμV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
LTE BAND 14 Channel 23305										
271.36	45.41	12	2.0	H	-65.10	2.39	12.70	-54.79	-13.00	-41.79
271.36	51.22	82	1.5	V	-56.37	2.39	12.70	-46.06	-13.00	-33.06
1559.00	54.94	12	1.9	H	-62.11	5.22	24.80	-42.53	-13.00	-29.53
1559.00	57.38	240	1.5	V	-53.77	5.22	24.80	-34.19	-13.00	-21.19
2338.50	37.58	4	1.4	H	-71.83	5.61	27.80	-49.64	-13.00	-36.64
2338.50	36.86	263	1.9	V	-71.91	5.61	27.80	-49.72	-13.00	-36.72
LTE BAND 14 Channel 23330										
271.36	46.06	183	2.1	H	-64.45	2.39	12.70	-54.14	-13.00	-41.14
271.36	51.42	119	2.2	V	-56.17	2.39	12.70	-45.86	-13.00	-32.86
1564.00	55.40	185	1.3	H	-57.65	5.22	24.80	-38.07	-13.00	-25.07
1564.00	59.43	11	1.4	V	-51.72	5.22	24.80	-32.14	-13.00	-19.14
2346.00	41.18	183	1.4	H	-68.23	5.61	27.80	-46.04	-13.00	-33.04
2346.00	39.73	74	2.1	V	-69.04	5.61	27.80	-46.85	-13.00	-33.85
LTE BAND 14 Channel 23355										
271.36	44.84	82	1.3	H	-65.67	2.39	12.70	-55.36	-13.00	-42.36
271.36	50.94	60	1.5	V	-56.65	2.39	12.70	-46.34	-13.00	-33.34
1569.00	52.95	13	2.0	H	-59.69	5.22	24.80	-40.11	-13.00	-27.11
1569.00	50.83	168	1.0	V	-59.90	5.22	24.80	-40.32	-13.00	-27.32
2353.50	39.30	207	2.1	H	-70.28	5.61	27.80	-48.09	-13.00	-35.09
2353.50	43.43	51	2.0	V	-65.37	5.61	27.80	-43.18	-13.00	-30.18

LTE Band 17

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Result	
			Height	Polar	SG Level	Cable	Antenna Gain		Limit	Margin
(MHz)	(dBμV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
LTE BAND 17 Channel 23755										
293.56	47.80	214	1.3	H	-62.71	2.39	12.70	-52.40	-13.00	-39.40
293.56	55.44	57	1.2	V	-52.15	2.39	12.70	-41.84	-13.00	-28.84
1413.00	58.08	336	1.6	H	-52.16	4.50	25.20	-31.46	-13.00	-18.46
1413.00	65.61	56	1.9	V	-46.16	4.50	25.20	-25.46	-13.00	-12.46
2119.50	40.34	169	1.7	H	-72.20	5.83	28.20	-49.83	-13.00	-36.83
2119.50	42.01	78	1.4	V	-71.42	5.83	28.20	-49.05	-13.00	-36.05
LTE BAND 17 Channel 23790										
293.56	48.15	307	1.1	H	-62.36	2.39	12.70	-52.05	-13.00	-39.05
293.56	51.64	146	2.2	V	-55.95	2.39	12.70	-45.64	-13.00	-32.64
1420.00	56.98	232	1.3	H	-53.26	4.50	25.20	-32.56	-13.00	-19.56
1420.00	62.77	190	1.8	V	-49.00	4.50	25.20	-28.30	-13.00	-15.30
2130.00	40.75	46	2.1	H	-71.79	5.83	28.20	-49.42	-13.00	-36.42
2130.00	42.65	253	1.8	V	-70.78	5.83	28.20	-48.41	-13.00	-35.41
LTE BAND 17 Channel 23825										
293.56	48.30	42	1.8	H	-62.21	2.39	12.70	-51.90	-13.00	-38.90
293.56	55.78	341	2.0	V	-51.81	2.39	12.70	-41.50	-13.00	-28.50
1427.00	57.33	39	1.8	H	-52.91	4.50	25.20	-32.21	-13.00	-19.21
1427.00	54.61	243	1.3	V	-57.16	4.50	25.20	-36.46	-13.00	-23.46
2140.50	43.87	143	2.0	H	-68.67	5.83	28.20	-46.30	-13.00	-33.30
2140.50	48.43	1	1.5	V	-65.00	5.83	28.20	-42.63	-13.00	-29.63

LTE Band 25

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Result	
			Height	Polar	SG Level	Cable	Antenna Gain		Limit	Margin
(MHz)	(dBμV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
LTE BAND 25 Channel 26047										
312.96	50.09	1	2.0	H	-60.42	2.39	12.70	-50.11	-13.00	-37.11
312.96	54.03	299	2.1	V	-53.56	2.39	12.70	-43.25	-13.00	-30.25
3701.40	54.76	73	2.2	H	-62.29	5.34	29.40	-38.23	-13.00	-25.23
3701.40	50.49	181	1.8	V	-60.66	5.34	29.40	-36.60	-13.00	-23.60
5552.10	36.45	257	1.1	H	-72.96	6.46	32.60	-46.82	-13.00	-33.82
5552.10	41.30	68	1.7	V	-67.47	6.46	32.60	-41.33	-13.00	-28.33
LTE BAND 25 Channel 26365										
312.96	50.17	22	1.9	H	-60.34	2.39	12.70	-50.03	-13.00	-37.03
312.96	50.19	131	1.0	V	-57.40	2.39	12.70	-47.09	-13.00	-34.09
3765.00	51.48	284	1.7	H	-61.57	5.34	29.40	-37.51	-13.00	-24.51
3765.00	52.97	58	1.4	V	-58.18	5.34	29.40	-34.12	-13.00	-21.12
5647.50	30.98	200	1.1	H	-78.43	6.46	32.60	-52.29	-13.00	-39.29
5647.50	37.20	204	1.4	V	-71.57	6.46	32.60	-45.43	-13.00	-32.43
LTE BAND 25 Channel 26683										
312.96	55.19	286	1.7	H	-55.32	2.39	12.70	-45.01	-13.00	-32.01
312.96	58.65	257	1.7	V	-48.94	2.39	12.70	-38.63	-13.00	-25.63
3828.60	52.37	213	1.6	H	-60.27	5.34	29.40	-36.21	-13.00	-23.21
3828.60	56.84	78	1.1	V	-53.89	5.34	29.40	-29.83	-13.00	-16.83
5742.90	31.93	255	2.2	H	-77.65	6.46	32.60	-51.51	-13.00	-38.51
5742.90	40.00	135	2.0	V	-68.80	6.46	32.60	-42.66	-13.00	-29.66

LTE Band 26(Part 90)

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Result	
			Height	Polar	SG Level	Cable	Antenna Gain		Limit	Margin
(MHz)	(dBμV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
LTE BAND 26 Channel 26697										
195.56	46.59	177	1.9	H	-63.92	2.01	9.40	-56.53	-13.00	-43.53
195.56	52.85	225	1.2	V	-54.74	2.01	9.40	-47.35	-13.00	-34.35
1629.40	57.65	64	1.1	H	-55.40	5.22	24.80	-35.82	-13.00	-22.82
1629.40	61.81	162	1.5	V	-49.34	5.22	24.80	-29.76	-13.00	-16.76
2444.10	37.96	280	1.7	H	-71.45	5.61	27.80	-49.26	-13.00	-36.26
2444.10	40.01	17	2.1	V	-68.76	5.61	27.80	-46.57	-13.00	-33.57
LTE BAND 26 Channel 26740										
195.56	47.15	232	2.0	H	-63.36	2.01	9.40	-55.97	-13.00	-42.97
195.56	51.86	234	2.0	V	-55.73	2.01	9.40	-48.34	-13.00	-35.34
1638.00	56.06	4	1.1	H	-56.99	5.22	24.80	-37.41	-13.00	-24.41
1638.00	57.08	171	1.7	V	-54.07	5.22	24.80	-34.49	-13.00	-21.49
2457.00	40.53	9	1.5	H	-68.88	5.61	27.80	-46.69	-13.00	-33.69
2457.00	40.60	267	1.7	V	-68.17	5.61	27.80	-45.98	-13.00	-32.98
LTE BAND 26 Channel 26783										
195.56	48.79	38	2.0	H	-61.72	2.01	9.40	-54.33	-13.00	-41.33
195.56	53.88	165	2.0	V	-53.71	2.01	9.40	-46.32	-13.00	-33.32
1646.60	57.64	29	1.2	H	-55.00	5.22	24.80	-35.42	-13.00	-22.42
1646.60	54.90	230	1.3	V	-55.83	5.22	24.80	-36.25	-13.00	-23.25
2469.90	43.96	276	1.1	H	-65.62	5.61	27.80	-43.43	-13.00	-30.43
2469.90	46.99	78	1.9	V	-61.81	5.61	27.80	-39.62	-13.00	-26.62

LTE Band 26(Part 22)

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Result	
			Height	Polar	SG Level	Cable	Antenna Gain		Limit	Margin
(MHz)	(dBμV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
LTE BAND 26 Channel 26797										
203.46	46.03	130	2.0	H	-64.48	2.01	9.40	-57.09	-13.00	-44.09
203.46	52.28	359	1.7	V	-55.31	2.01	9.40	-47.92	-13.00	-34.92
1649.40	55.93	48	1.3	H	-57.12	5.22	24.80	-37.54	-13.00	-24.54
1649.40	64.12	54	1.4	V	-47.03	5.22	24.80	-27.45	-13.00	-14.45
2474.10	37.56	201	1.0	H	-71.85	5.61	27.80	-49.66	-13.00	-36.66
2474.10	40.33	217	1.7	V	-68.44	5.61	27.80	-46.25	-13.00	-33.25
LTE BAND 26 Channel 26915										
203.46	46.79	343	1.5	H	-63.72	2.01	9.40	-56.33	-13.00	-43.33
203.46	51.10	200	1.5	V	-56.49	2.01	9.40	-49.10	-13.00	-36.10
1673.00	55.02	34	1.7	H	-58.03	5.22	24.80	-38.45	-13.00	-25.45
1673.00	61.19	202	2.0	V	-49.96	5.22	24.80	-30.38	-13.00	-17.38
2509.50	39.87	8	2.1	H	-69.54	5.61	27.80	-47.35	-13.00	-34.35
2509.50	41.68	42	1.7	V	-67.09	5.61	27.80	-44.90	-13.00	-31.90
LTE BAND 26 Channel 27033										
203.46	48.67	200	1.1	H	-61.84	2.01	9.40	-54.45	-13.00	-41.45
203.46	55.13	199	1.5	V	-52.46	2.01	9.40	-45.07	-13.00	-32.07
1696.60	56.93	315	1.0	H	-55.71	5.22	24.80	-36.13	-13.00	-23.13
1696.60	54.06	250	1.0	V	-56.67	5.22	24.80	-37.09	-13.00	-24.09
2544.90	43.46	98	1.1	H	-66.12	5.61	27.80	-43.93	-13.00	-30.93
2544.90	47.12	198	2.1	V	-61.68	5.61	27.80	-39.49	-13.00	-26.49

LTE Band 41

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Result	
			Height	Polar	SG Level	Cable	Antenna Gain		Limit	Margin
(MHz)	(dBμV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
LTE BAND 41 Channel 39675										
316.49	41.29	158	2.0	H	-69.22	2.39	12.70	-58.91	-25.00	-33.91
316.49	34.73	145	1.2	V	-72.86	2.39	12.70	-62.55	-25.00	-37.55
5010.00	38.02	44	1.6	H	-71.22	6.51	31.50	-46.23	-25.00	-21.23
5010.00	42.74	210	1.6	V	-66.03	6.51	31.50	-41.04	-25.00	-16.04
7515.00	17.91	187	1.9	H	-88.63	8.08	37.00	-59.71	-25.00	-34.71
7515.00	23.26	266	2.1	V	-82.17	8.08	37.00	-53.25	-25.00	-28.25
LTE BAND 41 Channel 40620										
316.49	34.96	49	1.7	H	-75.55	2.39	12.70	-65.24	-25.00	-40.24
316.49	40.90	225	1.4	V	-66.69	2.39	12.70	-56.38	-25.00	-31.38
5070.00	36.54	186	1.7	H	-72.70	6.51	31.50	-47.71	-25.00	-22.71
5070.00	41.79	69	1.7	V	-66.98	6.51	31.50	-41.99	-25.00	-16.99
7605.00	19.20	113	1.9	H	-87.34	8.08	37.00	-58.42	-25.00	-33.42
7605.00	23.54	30	1.8	V	-81.89	8.08	37.00	-52.97	-25.00	-27.97
LTE BAND 41 Channel 41565										
316.49	37.82	313	1.9	H	-72.69	2.39	12.70	-62.38	-25.00	-37.38
316.49	41.75	148	1.6	V	-65.84	2.39	12.70	-55.53	-25.00	-30.53
5135.00	34.64	117	1.6	H	-74.77	6.51	31.50	-49.78	-25.00	-24.78
5135.00	39.20	201	1.1	V	-69.57	6.51	31.50	-44.58	-25.00	-19.58
7702.50	20.03	124	1.0	H	-85.20	8.08	37.00	-56.28	-25.00	-31.28
7702.50	24.64	199	1.2	V	-80.25	8.08	37.00	-51.33	-25.00	-26.33

LTE Band 66

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Result	
			Height	Polar	SG Level	Cable	Antenna Gain		Limit	Margin
(MHz)	(dBμV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
LTE BAND 66 Channel 131979										
204.67	45.32	278	2.0	H	-65.19	2.01	9.40	-57.80	-13.00	-44.80
204.67	45.82	86	2.0	V	-61.77	2.01	9.40	-54.38	-13.00	-41.38
3421.40	51.01	144	1.8	H	-66.04	5.49	28.80	-42.73	-13.00	-29.73
3421.40	46.87	10	1.8	V	-64.28	5.49	28.80	-40.97	-13.00	-27.97
5132.10	31.45	292	1.1	H	-77.96	6.45	30.90	-53.51	-13.00	-40.51
5132.10	37.07	79	2.1	V	-71.70	6.45	30.90	-47.25	-13.00	-34.25
LTE BAND 66 Channel 132321										
204.67	48.72	103	1.3	H	-61.79	2.01	9.40	-54.40	-13.00	-41.40
204.67	49.24	254	1.2	V	-58.35	2.01	9.40	-50.96	-13.00	-37.96
3489.80	57.70	156	1.1	H	-55.35	5.49	28.80	-32.04	-13.00	-19.04
3489.80	50.00	100	2.1	V	-61.15	5.49	28.80	-37.84	-13.00	-24.84
5234.70	36.35	252	1.5	H	-73.06	6.45	30.90	-48.61	-13.00	-35.61
5234.70	42.80	324	1.4	V	-65.97	6.45	30.90	-41.52	-13.00	-28.52
LTE BAND 66 Channel 132664										
204.67	48.37	225	1.4	H	-62.14	2.01	9.40	-54.75	-13.00	-41.75
204.67	53.20	167	1.4	V	-54.39	2.01	9.40	-47.00	-13.00	-34.00
3558.40	58.40	71	2.0	H	-54.24	5.49	28.80	-30.93	-13.00	-17.93
3558.40	52.42	337	2.2	V	-58.31	5.49	28.80	-35.00	-13.00	-22.00
5337.60	31.72	116	1.6	H	-77.86	6.45	30.90	-53.41	-13.00	-40.41
5337.60	40.13	32	2.1	V	-68.67	6.45	30.90	-44.22	-13.00	-31.22

LTE Band 71

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Result	
			Height	Polar	SG Level	Cable	Antenna Gain		Limit	Margin
(MHz)	(dBμV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
LTE BAND 71 Channel 133147										
253.79	43.97	21	1.9	H	-66.54	2.16	11.10	-57.60	-13.00	-44.60
253.79	49.69	44	1.6	V	-57.90	2.16	11.10	-48.96	-13.00	-35.96
1331.00	54.28	231	1.9	H	-62.77	4.50	25.20	-42.07	-13.00	-29.07
1331.00	61.52	51	1.8	V	-49.63	4.50	25.20	-28.93	-13.00	-15.93
1996.50	36.45	215	1.4	H	-72.96	5.96	26.20	-52.72	-13.00	-39.72
1996.50	37.72	15	1.9	V	-71.05	5.96	26.20	-50.81	-13.00	-37.81
LTE BAND 71 Channel 133297										
253.79	47.46	59	1.1	H	-63.05	2.16	11.10	-54.11	-13.00	-41.11
253.79	50.18	271	2.2	V	-57.41	2.16	11.10	-48.47	-13.00	-35.47
1361.00	55.55	72	1.3	H	-57.50	4.50	25.20	-36.80	-13.00	-23.80
1361.00	60.95	172	2.2	V	-50.20	4.50	25.20	-29.50	-13.00	-16.50
2041.50	39.40	240	1.7	H	-70.01	5.96	26.20	-49.77	-13.00	-36.77
2041.50	38.33	197	1.3	V	-70.44	5.96	26.20	-50.20	-13.00	-37.20
LTE BAND 71 Channel 133447										
253.79	46.35	186	1.3	H	-64.16	2.16	11.10	-55.22	-13.00	-42.22
253.79	51.89	256	1.6	V	-55.70	2.16	11.10	-46.76	-13.00	-33.76
1391.00	55.83	119	2.1	H	-56.81	4.50	25.20	-36.11	-13.00	-23.11
1391.00	52.13	312	1.9	V	-58.60	4.50	25.20	-37.90	-13.00	-24.90
2086.50	41.18	161	1.5	H	-68.40	5.96	26.20	-48.16	-13.00	-35.16
2086.50	46.81	212	1.3	V	-61.99	5.96	26.20	-41.75	-13.00	-28.75

Note: 1) Absolute Level = SG Level - Cable loss + Antenna Gain

2) Margin = Absolute Level - Limit

12 Band Edge Measurement

Test Requirement:	FCC Part 2.1051, 22.917(a), 24.238(a), 27.53(h), 27.53(m)(4); 90.691
Test Method:	ANSI C63.26:2015 ANSI/TIA-603-E:2016
Test Mode:	TX transmitting

12.1 EUT Operation

Operating Environment **:**

Temperature:	23.5 °C
Humidity:	52.3 % RH
Atmospheric Pressure:	101.3kPa

12.2 Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

According to FCC Part 22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the TX transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

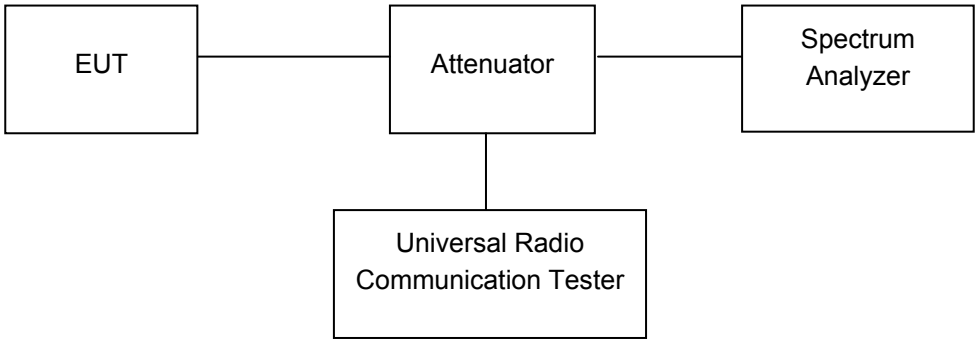
According to FCC Part 24.238(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the TX transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

According to FCC Part 27.53(h), Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 $\log_{10}$ (P) dB.

According to FCC Part 27.53(m)(4), For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a

documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

The center of the spectrum analyzer was set to block edge frequency



12.3 Test Result

PASS

LTE Band

Please refer to the Appendix Band 2/4/5/7/12/13/14/17/25/26/41/66/71 LTE Band Edge.

13 Frequency Stability

Test Requirement:	FCC Part 2.1055, 22.355, 24.235, 27.5(h),27.54; 90.691
Test Method:	ANSI C63.26:2015
	ANSI/TIA-603-E:2016
Test Mode:	TX transmitting

13.1 EUT Operation

Operating Environment **:**

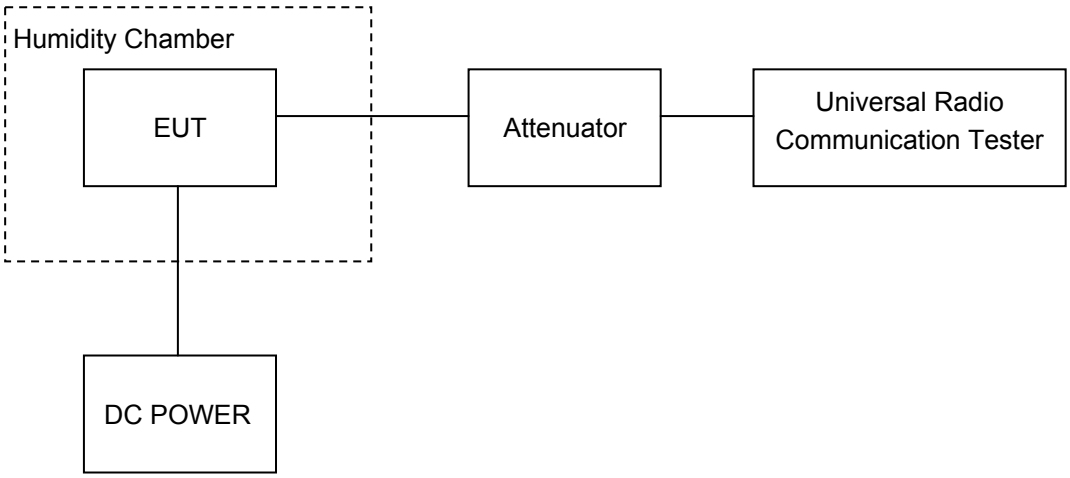
Temperature:	22.9 °C
Humidity:	52.0 % RH
Atmospheric Pressure:	101.3kPa

13.2 Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the communication test set.

Frequency Stability vs. Voltage: For hand carried, battery powered equipment; reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.



13.3 Test Result

LTE Band 2

Test Frequency:1880.0MHz QPSK 1.4MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-5	-0.0027	2.5
50		-7	-0.0037	2.5
40		2	0.0011	2.5
30		-7	-0.0037	2.5
20		-3	-0.0016	2.5
10		-10	-0.0053	2.5
0		-3	-0.0016	2.5
-10		4	0.0021	2.5
20	3.27	-10	-0.0053	2.5
20	4.43	0	0.0000	2.5

Test Frequency:1880.0MHz 16QAM 1.4MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-6	-0.0032	2.5
50		2	0.0011	2.5
40		-8	-0.0043	2.5
30		-1	-0.0005	2.5
20		-3	-0.0016	2.5
10		-2	-0.0011	2.5
0		-7	-0.0037	2.5
-10		-5	-0.0027	2.5
20	3.27	-7	-0.0037	2.5
20	4.43	0	0.0000	2.5

LTE Band 2

Test Frequency:1880.0MHz QPSK 3MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-1	-0.0005	2.5
50		-5	-0.0027	2.5
40		-5	-0.0027	2.5
30		3	0.0016	2.5
20		-3	-0.0016	2.5
10		-8	-0.0043	2.5
0		-5	-0.0027	2.5
-10		-8	-0.0043	2.5
20	3.27	-7	-0.0037	2.5
20	4.43	3	0.0016	2.5

Test Frequency:1880.0MHz 16QAM 3MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	0	0.0000	2.5
50		-3	-0.0016	2.5
40		5	0.0027	2.5
30		-5	-0.0027	2.5
20		-3	-0.0016	2.5
10		-6	-0.0032	2.5
0		-11	-0.0059	2.5
-10		0	0.0000	2.5
20	3.27	-2	-0.0011	2.5
20	4.43	-6	-0.0032	2.5

LTE Band 2

Test Frequency:1880.0MHz QPSK 5MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	1	0.0005	2.5
50		-10	-0.0053	2.5
40		-5	-0.0027	2.5
30		-5	-0.0027	2.5
20		-2	-0.0011	2.5
10		-6	-0.0032	2.5
0		-1	-0.0005	2.5
-10		-6	-0.0032	2.5
20	3.27	-5	-0.0027	2.5
20	4.43	-5	-0.0027	2.5

Test Frequency:1880.0MHz 16QAM 5MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-2	-0.0011	2.5
50		-3	-0.0016	2.5
40		-11	-0.0059	2.5
30		0	0.0000	2.5
20		-2	-0.0011	2.5
10		-6	-0.0032	2.5
0		-4	-0.0021	2.5
-10		5	0.0027	2.5
20	3.27	-7	-0.0037	2.5
20	4.43	-9	-0.0048	2.5

LTE Band 2

Test Frequency:1880.0MHz QPSK 10MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-7	-0.0037	2.5
50		1	0.0005	2.5
40		1	0.0005	2.5
30		3	0.0016	2.5
20		-1	-0.0005	2.5
10		-2	-0.0011	2.5
0		1	0.0005	2.5
-10		-2	-0.0011	2.5
20	3.27	-8	-0.0043	2.5
20	4.43	-5	-0.0027	2.5

Test Frequency:1880.0MHz 16QAM 10MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	7	0.0037	2.5
50		6	0.0032	2.5
40		-2	-0.0011	2.5
30		-4	-0.0021	2.5
20		-1	-0.0005	2.5
10		3	0.0016	2.5
0		1	0.0005	2.5
-10		-3	-0.0016	2.5
20	3.27	3	0.0016	2.5
20	4.43	-1	-0.0005	2.5

LTE Band 2

Test Frequency:1880.0MHz QPSK 15MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-10	-0.0053	2.5
50		1	0.0005	2.5
40		-11	-0.0059	2.5
30		-4	-0.0021	2.5
20		-4	-0.0021	2.5
10		-13	-0.0069	2.5
0		-4	-0.0021	2.5
-10		4	0.0021	2.5
20	3.27	-9	-0.0048	2.5
20	4.43	-9	-0.0048	2.5

Test Frequency:1880.0MHz 16QAM 15MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-10	-0.0053	2.5
50		1	0.0005	2.5
40		-5	-0.0027	2.5
30		3	0.0016	2.5
20		-4	-0.0021	2.5
10		-8	-0.0043	2.5
0		0	0.0000	2.5
-10		-8	-0.0043	2.5
20	3.27	0	0.0000	2.5
20	4.43	-8	-0.0043	2.5

LTE Band 2

Test Frequency:1880.0MHz QPSK 20MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	5	0.0027	2.5
50		-2	-0.0011	2.5
40		-5	-0.0027	2.5
30		-4	-0.0021	2.5
20		1	0.0005	2.5
10		-8	-0.0043	2.5
0		-7	-0.0037	2.5
-10		3	0.0016	2.5
20	3.27	3	0.0016	2.5
20	4.43	-8	-0.0043	2.5

Test Frequency:1880.0MHz 16QAM 20MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	3	0.0016	2.5
50		9	0.0048	2.5
40		-6	-0.0032	2.5
30		1	0.0005	2.5
20		1	0.0005	2.5
10		-5	-0.0027	2.5
0		-5	-0.0027	2.5
-10		-5	-0.0027	2.5
20	3.27	0	0.0000	2.5
20	4.43	-8	-0.0043	2.5

LTE Band 4

Test Frequency:1732.5MHz QPSK 1.4MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-5	-0.0029	2.5
50		10	0.0058	2.5
40		-5	-0.0029	2.5
30		-6	-0.0035	2.5
20		-4	-0.0023	2.5
10		4	0.0023	2.5
0		-6	-0.0035	2.5
-10		-11	-0.0063	2.5
20	3.27	-10	-0.0058	2.5
20	4.43	-2	-0.0012	2.5

Test Frequency:1732.5MHz 16QAM 1.4MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	1	0.0006	2.5
50		6	0.0035	2.5
40		-11	-0.0063	2.5
30		2	0.0012	2.5
20		-4	-0.0023	2.5
10		-5	-0.0029	2.5
0		-8	-0.0046	2.5
-10		0	0.0000	2.5
20	3.27	2	0.0012	2.5
20	4.43	-11	-0.0063	2.5

LTE Band 4

Test Frequency:1732.5MHz QPSK 3MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	10	0.0058	2.5
50		-2	-0.0012	2.5
40		-1	-0.0006	2.5
30		6	0.0035	2.5
20		2	0.0012	2.5
10		8	0.0046	2.5
0		3	0.0017	2.5
-10		2	0.0012	2.5
20	3.27	1	0.0006	2.5
20	4.43	6	0.0035	2.5

Test Frequency:1732.5MHz 16QAM 3MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-2	-0.0012	2.5
50		0	0.0000	2.5
40		7	0.0040	2.5
30		-1	-0.0006	2.5
20		2	0.0012	2.5
10		0	0.0000	2.5
0		1	0.0006	2.5
-10		2	0.0012	2.5
20	3.27	4	0.0023	2.5
20	4.43	0	0.0000	2.5

LTE Band 4

Test Frequency:1732.5MHz QPSK 5MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	8	0.0046	2.5
50		-1	-0.0006	2.5
40		-1	-0.0006	2.5
30		2	0.0012	2.5
20		3	0.0017	2.5
10		2	0.0012	2.5
0		2	0.0012	2.5
-10		6	0.0035	2.5
20	3.27	7	0.0040	2.5
20	4.43	-4	-0.0023	2.5

Test Frequency:1732.5MHz 16QAM 5MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	3	0.0017	2.5
50		6	0.0035	2.5
40		-3	-0.0017	2.5
30		8	0.0046	2.5
20		3	0.0017	2.5
10		4	0.0023	2.5
0		-2	-0.0012	2.5
-10		11	0.0063	2.5
20	3.27	4	0.0023	2.5
20	4.43	9	0.0052	2.5

LTE Band 4

Test Frequency:1732.5MHz QPSK 10MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-5	-0.0029	2.5
50		2	0.0012	2.5
40		-5	-0.0029	2.5
30		4	0.0023	2.5
20		-2	-0.0012	2.5
10		1	0.0006	2.5
0		7	0.0040	2.5
-10		5	0.0029	2.5
20	3.27	-3	-0.0017	2.5
20	4.43	-6	-0.0035	2.5

Test Frequency:1732.5MHz 16QAM 10MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-1	-0.0006	2.5
50		-6	-0.0035	2.5
40		-4	-0.0023	2.5
30		4	0.0023	2.5
20		-2	-0.0012	2.5
10		6	0.0035	2.5
0		-8	-0.0046	2.5
-10		-5	-0.0029	2.5
20	3.27	-9	-0.0052	2.5
20	4.43	-9	-0.0052	2.5

LTE Band 4

Test Frequency:1732.5MHz QPSK 15MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	1	0.0006	2.5
50		5	0.0029	2.5
40		6	0.0035	2.5
30		-10	-0.0058	2.5
20		-2	-0.0012	2.5
10		-5	-0.0029	2.5
0		1	0.0006	2.5
-10		7	0.0040	2.5
20	3.27	-5	-0.0029	2.5
20	4.43	-6	-0.0035	2.5

Test Frequency:1732.5MHz 16QAM 15MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-5	-0.0029	2.5
50		-1	-0.0006	2.5
40		-9	-0.0052	2.5
30		-1	-0.0006	2.5
20		-2	-0.0012	2.5
10		5	0.0029	2.5
0		-5	-0.0029	2.5
-10		3	0.0017	2.5
20	3.27	-5	-0.0029	2.5
20	4.43	-5	-0.0029	2.5

LTE Band 4

Test Frequency:1732.5MHz QPSK 20MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-9	-0.0052	2.5
50		-5	-0.0029	2.5
40		0	0.0000	2.5
30		-9	-0.0052	2.5
20		-3	-0.0017	2.5
10		-7	-0.0040	2.5
0		-10	-0.0058	2.5
-10		2	0.0012	2.5
20	3.27	-11	-0.0063	2.5
20	4.43	1	0.0006	2.5

Test Frequency:1732.5MHz 16QAM 20MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-10	-0.0058	2.5
50		-7	-0.0040	2.5
40		-10	-0.0058	2.5
30		0	0.0000	2.5
20		-3	-0.0017	2.5
10		3	0.0017	2.5
0		-3	-0.0017	2.5
-10		-10	-0.0058	2.5
20	3.27	1	0.0006	2.5
20	4.43	5	0.0029	2.5

LTE Band 5

Test Frequency:836.5MHz QPSK 1.4MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-7	-0.0084	2.5
50		-9	-0.0108	2.5
40		-5	-0.0060	2.5
30		-5	-0.0060	2.5
20		-1	-0.0012	2.5
10		7	0.0084	2.5
0		-2	-0.0024	2.5
-10		-5	-0.0060	2.5
20	3.27	1	0.0012	2.5
20	4.43	-1	-0.0012	2.5

Test Frequency:836.5MHz 16QAM 1.4MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	3	0.0036	2.5
50		-4	-0.0048	2.5
40		2	0.0024	2.5
30		1	0.0012	2.5
20		-1	-0.0012	2.5
10		6	0.0072	2.5
0		6	0.0072	2.5
-10		-4	-0.0048	2.5
20	3.27	-8	-0.0096	2.5
20	4.43	-6	-0.0072	2.5

LTE Band 5

Test Frequency:836.5MHz QPSK 3MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-2	-0.0024	2.5
50		-10	-0.0120	2.5
40		-6	-0.0072	2.5
30		-7	-0.0084	2.5
20		-1	-0.0012	2.5
10		-4	-0.0048	2.5
0		-4	-0.0048	2.5
-10		1	0.0012	2.5
20	3.27	-5	-0.0060	2.5
20	4.43	2	0.0024	2.5

Test Frequency:836.5MHz 16QAM 3MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-5	-0.0060	2.5
50		7	0.0084	2.5
40		4	0.0048	2.5
30		-7	-0.0084	2.5
20		-1	-0.0012	2.5
10		8	0.0096	2.5
0		0	0.0000	2.5
-10		-5	-0.0060	2.5
20	3.27	-4	-0.0048	2.5
20	4.43	2	0.0024	2.5

LTE Band 5

Test Frequency:836.5MHz QPSK 5MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	6	0.0072	2.5
50		2	0.0024	2.5
40		6	0.0072	2.5
30		8	0.0096	2.5
20		2	0.0024	2.5
10		-4	-0.0048	2.5
0		-7	-0.0084	2.5
-10		-4	-0.0048	2.5
20	3.27	2	0.0024	2.5
20	4.43	1	0.0012	2.5

Test Frequency:836.5MHz 16QAM 5MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	4	0.0048	2.5
50		11	0.0132	2.5
40		-7	-0.0084	2.5
30		-5	-0.0060	2.5
20		2	0.0024	2.5
10		9	0.0108	2.5
0		-3	-0.0036	2.5
-10		9	0.0108	2.5
20	3.27	-4	-0.0048	2.5
20	4.43	10	0.0120	2.5

LTE Band 5

Test Frequency:836.5MHz QPSK 10MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-1	-0.0012	2.5
50		-2	-0.0024	2.5
40		0	0.0000	2.5
30		-1	-0.0012	2.5
20		2	0.0024	2.5
10		-3	-0.0036	2.5
0		-1	-0.0012	2.5
-10		-5	-0.0060	2.5
20	3.27	-6	-0.0072	2.5
20	4.43	4	0.0048	2.5

Test Frequency:836.5MHz 16QAM 10MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	3	0.0036	2.5
50		2	0.0024	2.5
40		1	0.0012	2.5
30		-7	-0.0084	2.5
20		2	0.0024	2.5
10		5	0.0060	2.5
0		-5	-0.0060	2.5
-10		-4	-0.0048	2.5
20	3.27	-6	-0.0072	2.5
20	4.43	6	0.0072	2.5

LTE Band 7

Test Frequency:2535MHz QPSK 5MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-8	-0.0032	2.5
50		0	0.0000	2.5
40		-11	-0.0043	2.5
30		-3	-0.0012	2.5
20		-6	-0.0024	2.5
10		-8	-0.0032	2.5
0		-9	-0.0036	2.5
-10		-5	-0.0020	2.5
20	3.27	-13	-0.0051	2.5
20	4.43	-13	-0.0051	2.5

Test Frequency:2535MHz 16QAM 5MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-6	-0.0024	2.5
50		2	0.0008	2.5
40		-11	-0.0043	2.5
30		-4	-0.0016	2.5
20		-6	-0.0024	2.5
10		-10	-0.0039	2.5
0		-1	-0.0004	2.5
-10		2	0.0008	2.5
20	3.27	-13	-0.0051	2.5
20	4.43	-8	-0.0032	2.5

LTE Band 7

Test Frequency:2535MHz QPSK 10MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	0	0.0000	2.5
50		-12	-0.0047	2.5
40		-11	-0.0043	2.5
30		-11	-0.0043	2.5
20		-6	-0.0024	2.5
10		0	0.0000	2.5
0		-1	-0.0004	2.5
-10		1	0.0004	2.5
20	3.27	-1	-0.0004	2.5
20	4.43	-1	-0.0004	2.5

Test Frequency:2535MHz 16QAM 10MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	2	0.0008	2.5
50		-14	-0.0055	2.5
40		-4	-0.0016	2.5
30		2	0.0008	2.5
20		-6	-0.0024	2.5
10		-13	-0.0051	2.5
0		-1	-0.0004	2.5
-10		-12	-0.0047	2.5
20	3.27	2	0.0008	2.5
20	4.43	-14	-0.0055	2.5

LTE Band 7

Test Frequency:2535MHz QPSK 15MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-14	-0.0055	2.5
50		0	0.0000	2.5
40		-2	-0.0008	2.5
30		-2	-0.0008	2.5
20		-6	-0.0024	2.5
10		-5	-0.0020	2.5
0		-11	-0.0043	2.5
-10		-11	-0.0043	2.5
20	3.27	-6	-0.0024	2.5
20	4.43	-2	-0.0008	2.5

Test Frequency:2535MHz 16QAM 15MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-6	-0.0024	2.5
50		-1	-0.0004	2.5
40		-11	-0.0043	2.5
30		-3	-0.0012	2.5
20		-6	-0.0024	2.5
10		-10	-0.0039	2.5
0		-3	-0.0012	2.5
-10		-11	-0.0043	2.5
20	3.27	-13	-0.0051	2.5
20	4.43	-11	-0.0043	2.5

LTE Band 7

Test Frequency:2535MHz QPSK 20MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	0	0.0000	2.5
50		4	0.0016	2.5
40		-1	-0.0004	2.5
30		8	0.0032	2.5
20		3	0.0012	2.5
10		4	0.0016	2.5
0		1	0.0004	2.5
-10		-4	-0.0016	2.5
20	3.27	3	0.0012	2.5
20	4.43	-1	-0.0004	2.5

Test Frequency:2535MHz 16QAM 20MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-5	-0.0020	2.5
50		2	0.0008	2.5
40		-5	-0.0020	2.5
30		9	0.0036	2.5
20		1	0.0004	2.5
10		2	0.0008	2.5
0		-1	-0.0004	2.5
-10		1	0.0004	2.5
20	3.27	0	0.0000	2.5
20	4.43	5	0.0020	2.5

LTE Band 12

Test Frequency:707.5MHz QPSK 1.4MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-3	-0.0042	2.5
50		-10	-0.0141	2.5
40		-5	-0.0071	2.5
30		-9	-0.0127	2.5
20		-5	-0.0071	2.5
10		-8	-0.0113	2.5
0		-10	-0.0141	2.5
-10		-10	-0.0141	2.5
20	3.27	-9	-0.0127	2.5
20	4.43	3	0.0042	2.5

Test Frequency:707.5MHz 16QAM 1.4MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	4	0.0057	2.5
50		-14	-0.0198	2.5
40		-7	-0.0099	2.5
30		1	0.0014	2.5
20		-5	-0.0071	2.5
10		-8	-0.0113	2.5
0		-3	-0.0042	2.5
-10		-13	-0.0184	2.5
20	3.27	3	0.0042	2.5
20	4.43	-6	-0.0085	2.5

LTE Band 12

Test Frequency:707.5MHz QPSK 3MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	4	0.0057	2.5
50		-10	-0.0141	2.5
40		0	0.0000	2.5
30		-6	-0.0085	2.5
20		-5	-0.0071	2.5
10		-1	-0.0014	2.5
0		0	0.0000	2.5
-10		0	0.0000	2.5
20	3.27	-12	-0.0170	2.5
20	4.43	-3	-0.0042	2.5

Test Frequency:707.5MHz 16QAM 3MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	7	0.0099	2.5
50		-6	-0.0085	2.5
40		0	0.0000	2.5
30		-4	-0.0057	2.5
20		0	0.0000	2.5
10		-4	-0.0057	2.5
0		-3	-0.0042	2.5
-10		4	0.0057	2.5
20	3.27	-6	-0.0085	2.5
20	4.43	7	0.0099	2.5

LTE Band 12

Test Frequency:707.5MHz QPSK 5MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-2	-0.0028	2.5
50		-8	-0.0113	2.5
40		-4	-0.0057	2.5
30		-4	-0.0057	2.5
20		0	0.0000	2.5
10		-2	-0.0028	2.5
0		0	0.0000	2.5
-10		-1	-0.0014	2.5
20	3.27	1	0.0014	2.5
20	4.43	-4	-0.0057	2.5

Test Frequency:707.5MHz 16QAM 5MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	5	0.0071	2.5
50		-1	-0.0014	2.5
40		-10	-0.0141	2.5
30		4	0.0057	2.5
20		-2	-0.0028	2.5
10		2	0.0028	2.5
0		-6	-0.0085	2.5
-10		-1	-0.0014	2.5
20	3.27	3	0.0042	2.5
20	4.43	-6	-0.0085	2.5

LTE Band 12

Test Frequency:707.5MHz QPSK 10MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-6	-0.0085	2.5
50		-11	-0.0155	2.5
40		2	0.0028	2.5
30		4	0.0057	2.5
20		-2	-0.0028	2.5
10		-11	-0.0155	2.5
0		-7	-0.0099	2.5
-10		-8	-0.0113	2.5
20	3.27	-9	-0.0127	2.5
20	4.43	-2	-0.0028	2.5

Test Frequency:707.5MHz 16QAM 10MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-5	-0.0071	2.5
50		2	0.0028	2.5
40		-4	-0.0057	2.5
30		-1	-0.0014	2.5
20		-2	-0.0028	2.5
10		-9	-0.0127	2.5
0		3	0.0042	2.5
-10		-5	-0.0071	2.5
20	3.27	0	0.0000	2.5
20	4.43	3	0.0042	2.5

LTE Band 13

Test Frequency: 782.0MHz QPSK 5MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-3	-0.0038	2.5
50		-14	-0.0179	2.5
40		-10	-0.0128	2.5
30		-7	-0.0090	2.5
20		-5	-0.0064	2.5
10		-2	-0.0026	2.5
0		-10	-0.0128	2.5
-10		-10	-0.0128	2.5
20	3.27	-4	-0.0051	2.5
20	4.43	-12	-0.0153	2.5

Test Frequency: 782.0MHz 16QAM 5MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-8	-0.0102	2.5
50		-10	-0.0128	2.5
40		-2	-0.0026	2.5
30		-8	-0.0102	2.5
20		-5	-0.0064	2.5
10		-1	-0.0013	2.5
0		-4	-0.0051	2.5
-10		1	0.0013	2.5
20	3.27	-10	-0.0128	2.5
20	4.43	-2	-0.0026	2.5

LTE Band 13

Test Frequency: 782.0MHz QPSK 10MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-3	-0.0038	2.5
50		7	0.0090	2.5
40		-3	-0.0038	2.5
30		2	0.0026	2.5
20		2	0.0026	2.5
10		-4	-0.0051	2.5
0		10	0.0128	2.5
-10		-6	-0.0077	2.5
20	3.27	-1	-0.0013	2.5
20	4.43	-1	-0.0013	2.5

Test Frequency: 782.0MHz 16QAM 10MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	6	0.0077	2.5
50		5	0.0064	2.5
40		7	0.0090	2.5
30		3	0.0038	2.5
20		2	0.0026	2.5
10		-6	-0.0077	2.5
0		-1	-0.0013	2.5
-10		4	0.0051	2.5
20	3.27	-5	-0.0064	2.5
20	4.43	-4	-0.0051	2.5

LTE Band 14

Test Frequency: 793.0MHz QPSK 5MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	3	0.0038	2.5
50		3	0.0038	2.5
40		6	0.0076	2.5
30		-7	-0.0088	2.5
20		0	0.0000	2.5
10		1	0.0013	2.5
0		-6	-0.0076	2.5
-10		-9	-0.0113	2.5
20	3.27	0	0.0000	2.5
20	4.43	2	0.0025	2.5

Test Frequency: 793.0MHz 16QAM 5MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	1	0.0013	2.5
50		3	0.0038	2.5
40		-3	-0.0038	2.5
30		2	0.0025	2.5
20		0	0.0000	2.5
10		2	0.0025	2.5
0		0	0.0000	2.5
-10		2	0.0025	2.5
20	3.27	-7	-0.0088	2.5
20	4.43	5	0.0063	2.5

LTE Band 14

Test Frequency: 793.0MHz QPSK 10MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-4	-0.0050	2.5
50		-6	-0.0076	2.5
40		-7	-0.0088	2.5
30		6	0.0076	2.5
20		2	0.0025	2.5
10		10	0.0126	2.5
0		-3	-0.0038	2.5
-10		-6	-0.0076	2.5
20	3.27	-1	-0.0013	2.5
20	4.43	8	0.0101	2.5

Test Frequency: 793.0MHz 16QAM 10MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-1	-0.0013	2.5
50		-7	-0.0088	2.5
40		-3	-0.0038	2.5
30		2	0.0025	2.5
20		2	0.0025	2.5
10		-4	-0.0050	2.5
0		8	0.0101	2.5
-10		2	0.0025	2.5
20	3.27	-6	-0.0076	2.5
20	4.43	3	0.0038	2.5

LTE Band 17

Test Frequency: 710.0MHz QPSK 5MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	16	0.0225	2.5
50		14	0.0197	2.5
40		2	0.0028	2.5
30		2	0.0028	2.5
20		7	0.0099	2.5
10		16	0.0225	2.5
0		11	0.0155	2.5
-10		13	0.0183	2.5
20	3.27	9	0.0127	2.5
20	4.43	4	0.0056	2.5

Test Frequency: 710.0MHz 16QAM 5MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-2	-0.0028	2.5
50		0	0.0000	2.5
40		3	0.0042	2.5
30		0	0.0000	2.5
20		6	0.0085	2.5
10		2	0.0028	2.5
0		-2	-0.0028	2.5
-10		3	0.0042	2.5
20	3.27	-2	-0.0028	2.5
20	4.43	3	0.0042	2.5

LTE Band 17

Test Frequency: 710.0MHz QPSK 10MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	1	0.0014	2.5
50		3	0.0042	2.5
40		4	0.0056	2.5
30		1	0.0014	2.5
20		6	0.0085	2.5
10		4	0.0056	2.5
0		9	0.0127	2.5
-10		-3	-0.0042	2.5
20	3.27	8	0.0113	2.5
20	4.43	1	0.0014	2.5

Test Frequency: 710.0MHz 16QAM 10MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	3	0.0042	2.5
50		12	0.0169	2.5
40		10	0.0141	2.5
30		9	0.0127	2.5
20		3	0.0042	2.5
10		11	0.0155	2.5
0		0	0.0000	2.5
-10		2	0.0028	2.5
20	3.27	3	0.0042	2.5
20	4.43	-2	-0.0028	2.5

LTE Band 25

Test Frequency:1882.5MHz QPSK 1.4MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	4	0.0021	2.5
50		-6	-0.0032	2.5
40		-14	-0.0074	2.5
30		-6	-0.0032	2.5
20		-5	-0.0027	2.5
10		-6	-0.0032	2.5
0		2	0.0011	2.5
-10		-9	-0.0048	2.5
20	3.27	-13	-0.0069	2.5
20	4.43	-13	-0.0069	2.5

Test Frequency: 1882.5MHz 16QAM 1.4MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-7	-0.0037	2.5
50		-12	-0.0064	2.5
40		-9	-0.0048	2.5
30		1	0.0005	2.5
20		-5	-0.0027	2.5
10		-9	-0.0048	2.5
0		2	0.0011	2.5
-10		-14	-0.0074	2.5
20	3.27	-3	-0.0016	2.5
20	4.43	-10	-0.0053	2.5

LTE Band 25

Test Frequency: 1882.5MHz QPSK 3MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	4	0.0021	2.5
50		2	0.0011	2.5
40		-9	-0.0048	2.5
30		3	0.0016	2.5
20		-5	-0.0027	2.5
10		4	0.0021	2.5
0		-8	-0.0042	2.5
-10		0	0.0000	2.5
20	3.27	-11	-0.0058	2.5
20	4.43	1	0.0005	2.5

Test Frequency: 1882.5MHz 16QAM 3MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-13	-0.0069	2.5
50		3	0.0016	2.5
40		4	0.0021	2.5
30		1	0.0005	2.5
20		-5	-0.0027	2.5
10		2	0.0011	2.5
0		-13	-0.0069	2.5
-10		4	0.0021	2.5
20	3.27	-11	-0.0058	2.5
20	4.43	-2	-0.0011	2.5

LTE Band 25

Test Frequency: 1882.5MHz QPSK 5MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-1	-0.0005	2.5
50		11	0.0058	2.5
40		2	0.0011	2.5
30		3	0.0016	2.5
20		6	0.0032	2.5
10		9	0.0048	2.5
0		13	0.0069	2.5
-10		5	0.0027	2.5
20	3.27	13	0.0069	2.5
20	4.43	-1	-0.0005	2.5

Test Frequency: 1882.5MHz 16QAM 5MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	3	0.0016	2.5
50		4	0.0021	2.5
40		4	0.0021	2.5
30		-2	-0.0011	2.5
20		6	0.0032	2.5
10		7	0.0037	2.5
0		7	0.0037	2.5
-10		14	0.0074	2.5
20	3.27	-1	-0.0005	2.5
20	4.43	-3	-0.0016	2.5

LTE Band 25

Test Frequency: 1882.5MHz QPSK 10MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	4	0.0021	2.5
50		1	0.0005	2.5
40		14	0.0074	2.5
30		8	0.0042	2.5
20		6	0.0032	2.5
10		0	0.0000	2.5
0		1	0.0005	2.5
-10		3	0.0016	2.5
20	3.27	-2	-0.0011	2.5
20	4.43	1	0.0005	2.5

Test Frequency: 1882.5MHz 16QAM 10MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-6	-0.0032	2.5
50		3	0.0016	2.5
40		7	0.0037	2.5
30		-1	-0.0005	2.5
20		1	0.0005	2.5
10		5	0.0027	2.5
0		-8	-0.0042	2.5
-10		9	0.0048	2.5
20	3.27	-6	-0.0032	2.5
20	4.43	0	0.0000	2.5

LTE Band 25

Test Frequency: 1882.5MHz QPSK 15MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	7	0.0037	2.5
50		6	0.0032	2.5
40		10	0.0053	2.5
30		6	0.0032	2.5
20		1	0.0005	2.5
10		-5	-0.0027	2.5
0		0	0.0000	2.5
-10		-1	-0.0005	2.5
20	3.27	8	0.0042	2.5
20	4.43	0	0.0000	2.5

Test Frequency: 1882.5MHz 16QAM 15MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	2	0.0011	2.5
50		4	0.0021	2.5
40		-3	-0.0016	2.5
30		-8	-0.0042	2.5
20		1	0.0005	2.5
10		-2	-0.0011	2.5
0		2	0.0011	2.5
-10		6	0.0032	2.5
20	3.27	-5	-0.0027	2.5
20	4.43	6	0.0032	2.5

LTE Band 25

Test Frequency: 1882.5MHz QPSK 20MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	2	0.0011	2.5
50		-1	-0.0005	2.5
40		-2	-0.0011	2.5
30		6	0.0032	2.5
20		1	0.0005	2.5
10		5	0.0027	2.5
0		-6	-0.0032	2.5
-10		-4	-0.0021	2.5
20	3.27	-1	-0.0005	2.5
20	4.43	-7	-0.0037	2.5

Test Frequency: 1882.5MHz 16QAM 20MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	0	0.0000	2.5
50		-2	-0.0011	2.5
40		8	0.0042	2.5
30		9	0.0048	2.5
20		1	0.0005	2.5
10		-4	-0.0021	2.5
0		-2	-0.0011	2.5
-10		-6	-0.0032	2.5
20	3.27	-3	-0.0016	2.5
20	4.43	-7	-0.0037	2.5

LTE Band 26(Part 90)

Test Frequency:819MHz QPSK 1.4MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-1	-0.0012	2.5
50		2	0.0024	2.5
40		4	0.0049	2.5
30		-2	-0.0024	2.5
20		3	0.0037	2.5
10		2	0.0024	2.5
0		10	0.0122	2.5
-10		2	0.0024	2.5
20	3.27	-6	-0.0073	2.5
20	4.43	12	0.0147	2.5

Test Frequency: 819MHz 16QAM 1.4MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	1	0.0012	2.5
50		11	0.0134	2.5
40		1	0.0012	2.5
30		-2	-0.0024	2.5
20		3	0.0037	2.5
10		4	0.0049	2.5
0		-1	-0.0012	2.5
-10		7	0.0085	2.5
20	3.27	1	0.0012	2.5
20	4.43	-4	-0.0049	2.5

LTE Band 26(Part 90)

Test Frequency: 819MHz QPSK 3MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	9	0.0110	2.5
50		5	0.0061	2.5
40		4	0.0049	2.5
30		-1	-0.0012	2.5
20		3	0.0037	2.5
10		-3	-0.0037	2.5
0		-6	-0.0073	2.5
-10		2	0.0024	2.5
20	3.27	0	0.0000	2.5
20	4.43	-1	-0.0012	2.5

Test Frequency: 819MHz 16QAM 3MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	8	0.0098	2.5
50		-4	-0.0049	2.5
40		-3	-0.0037	2.5
30		5	0.0061	2.5
20		2	0.0024	2.5
10		2	0.0024	2.5
0		-7	-0.0085	2.5
-10		-2	-0.0024	2.5
20	3.27	-1	-0.0012	2.5
20	4.43	-5	-0.0061	2.5

LTE Band 26(Part 90)

Test Frequency: 819MHz QPSK 5MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	5	0.0061	2.5
50		-5	-0.0061	2.5
40		4	0.0049	2.5
30		5	0.0061	2.5
20		2	0.0024	2.5
10		-3	-0.0037	2.5
0		5	0.0061	2.5
-10		-5	-0.0061	2.5
20	3.27	-1	-0.0012	2.5
20	4.43	-6	-0.0073	2.5

Test Frequency: 819MHz 16QAM 5MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	5	0.0061	2.5
50		-4	-0.0049	2.5
40		-5	-0.0061	2.5
30		-3	-0.0037	2.5
20		1	0.0012	2.5
10		-2	-0.0024	2.5
0		8	0.0098	2.5
-10		8	0.0098	2.5
20	3.27	1	0.0012	2.5
20	4.43	-6	-0.0073	2.5

LTE Band 26(Part 90)

Test Frequency: 819MHz QPSK 10MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	5	0.0061	2.5
50		-3	-0.0037	2.5
40		4	0.0049	2.5
30		0	0.0000	2.5
20		1	0.0012	2.5
10		7	0.0085	2.5
0		-4	-0.0049	2.5
-10		4	0.0049	2.5
20	3.27	4	0.0049	2.5
20	4.43	-5	-0.0061	2.5

Test Frequency: 819MHz 16QAM 10MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-2	-0.0024	2.5
50		-4	-0.0049	2.5
40		10	0.0122	2.5
30		-7	-0.0085	2.5
20		2	0.0024	2.5
10		5	0.0061	2.5
0		7	0.0085	2.5
-10		-6	-0.0073	2.5
20	3.27	-4	-0.0049	2.5
20	4.43	2	0.0024	2.5

LTE Band 26(Part 22)

Test Frequency:836.5MHz QPSK 1.4MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-5	-0.0060	2.5
50		-6	-0.0072	2.5
40		0	0.0000	2.5
30		-5	-0.0060	2.5
20		1	0.0012	2.5
10		-5	-0.0060	2.5
0		-4	-0.0048	2.5
-10		6	0.0072	2.5
20	3.27	-6	-0.0072	2.5
20	4.43	7	0.0084	2.5

Test Frequency: 836.5MHz 16QAM 1.4MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	3	0.0036	2.5
50		0	0.0000	2.5
40		3	0.0036	2.5
30		-1	-0.0012	2.5
20		-4	-0.0048	2.5
10		4	0.0048	2.5
0		-11	-0.0132	2.5
-10		2	0.0024	2.5
20	3.27	-2	-0.0024	2.5
20	4.43	-11	-0.0132	2.5

LTE Band 26(Part 22)

Test Frequency: 836.5MHz QPSK 3MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	11	0.0132	2.5
50		1	0.0012	2.5
40		-3	-0.0036	2.5
30		1	0.0012	2.5
20		3	0.0036	2.5
10		1	0.0012	2.5
0		1	0.0012	2.5
-10		2	0.0024	2.5
20	3.27	-5	-0.0060	2.5
20	4.43	5	0.0060	2.5

Test Frequency: 836.5MHz 16QAM 3MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-4	-0.0048	2.5
50		7	0.0084	2.5
40		8	0.0096	2.5
30		6	0.0072	2.5
20		1	0.0012	2.5
10		-2	-0.0024	2.5
0		6	0.0072	2.5
-10		8	0.0096	2.5
20	3.27	7	0.0084	2.5
20	4.43	3	0.0036	2.5

LTE Band 26(Part 22)

Test Frequency: 836.5MHz QPSK 5MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	3	0.0036	2.5
50		11	0.0132	2.5
40		6	0.0072	2.5
30		-5	-0.0060	2.5
20		3	0.0036	2.5
10		9	0.0108	2.5
0		9	0.0108	2.5
-10		0	0.0000	2.5
20	3.27	-1	-0.0012	2.5
20	4.43	6	0.0072	2.5

Test Frequency: 836.5MHz 16QAM 5MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	4	0.0048	2.5
50		4	0.0048	2.5
40		5	0.0060	2.5
30		-3	-0.0036	2.5
20		1	0.0012	2.5
10		2	0.0024	2.5
0		-1	-0.0012	2.5
-10		5	0.0060	2.5
20	3.27	6	0.0072	2.5
20	4.43	-3	-0.0036	2.5

LTE Band 26(Part 22)

Test Frequency: 836.5MHz QPSK 10MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-5	-0.0060	2.5
50		-1	-0.0012	2.5
40		-6	-0.0072	2.5
30		5	0.0060	2.5
20		3	0.0036	2.5
10		-5	-0.0060	2.5
0		6	0.0072	2.5
-10		-2	-0.0024	2.5
20	3.27	1	0.0012	2.5
20	4.43	6	0.0072	2.5

Test Frequency: 836.5MHz 16QAM 10MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-2	-0.0024	2.5
50		-5	-0.0060	2.5
40		7	0.0084	2.5
30		8	0.0096	2.5
20		1	0.0012	2.5
10		7	0.0084	2.5
0		4	0.0048	2.5
-10		-6	-0.0072	2.5
20	3.27	4	0.0048	2.5
20	4.43	-7	-0.0084	2.5

LTE Band 26(Part 22)

Test Frequency: 836.5MHz QPSK 15MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	7	0.0084	2.5
50		9	0.0108	2.5
40		5	0.0060	2.5
30		-4	-0.0048	2.5
20		2	0.0024	2.5
10		6	0.0072	2.5
0		-7	-0.0084	2.5
-10		-4	-0.0048	2.5
20	3.27	7	0.0084	2.5
20	4.43	8	0.0096	2.5

Test Frequency: 836.5MHz 16QAM 15MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	10	0.0120	2.5
50		-3	-0.0036	2.5
40		9	0.0108	2.5
30		7	0.0084	2.5
20		6	0.0072	2.5
10		6	0.0072	2.5
0		6	0.0072	2.5
-10		-1	-0.0012	2.5
20	3.27	5	0.0060	2.5
20	4.43	3	0.0036	2.5

LTE Band 41

Test Frequency:2593MHz QPSK 5MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-9	-0.0035	2.5
50		-6	-0.0023	2.5
40		-2	-0.0008	2.5
30		5	0.0019	2.5
20		-3	-0.0012	2.5
10		3	0.0012	2.5
0		2	0.0008	2.5
-10		-12	-0.0046	2.5
20	3.27	3	0.0012	2.5
20	4.43	5	0.0019	2.5

Test Frequency:2593MHz 16QAM 5MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-7	-0.0027	2.5
50		-10	-0.0039	2.5
40		0	0.0000	2.5
30		-14	-0.0054	2.5
20		-7	-0.0027	2.5
10		-10	-0.0039	2.5
0		0	0.0000	2.5
-10		-11	-0.0042	2.5
20	3.27	-4	-0.0015	2.5
20	4.43	-14	-0.0054	2.5

LTE Band 41

Test Frequency:2593MHz QPSK 10MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-4	-0.0015	2.5
50		9	0.0035	2.5
40		4	0.0015	2.5
30		-1	-0.0004	2.5
20		3	0.0012	2.5
10		1	0.0004	2.5
0		-6	-0.0023	2.5
-10		4	0.0015	2.5
20	3.27	10	0.0039	2.5
20	4.43	-3	-0.0012	2.5

Test Frequency:2593MHz 16QAM 10MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-8	-0.0031	2.5
50		-11	-0.0042	2.5
40		-10	-0.0039	2.5
30		0	0.0000	2.5
20		-7	-0.0027	2.5
10		-7	-0.0027	2.5
0		-1	-0.0004	2.5
-10		-2	-0.0008	2.5
20	3.27	-6	-0.0023	2.5
20	4.43	2	0.0008	2.5

LTE Band 41

Test Frequency:2593MHz QPSK 15MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	5	0.0019	2.5
50		6	0.0023	2.5
40		-8	-0.0031	2.5
30		6	0.0023	2.5
20		1	0.0004	2.5
10		7	0.0027	2.5
0		2	0.0008	2.5
-10		2	0.0008	2.5
20	3.27	4	0.0015	2.5
20	4.43	7	0.0027	2.5

Test Frequency:2593MHz 16QAM 15MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	3	0.0012	2.5
50		3	0.0012	2.5
40		2	0.0008	2.5
30		-1	-0.0004	2.5
20		-2	-0.0008	2.5
10		-9	-0.0035	2.5
0		-3	-0.0012	2.5
-10		-10	-0.0039	2.5
20	3.27	-1	-0.0004	2.5
20	4.43	6	0.0023	2.5

LTE Band 41

Test Frequency:2593MHz QPSK 20MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	2	0.0008	2.5
50		-7	-0.0027	2.5
40		-7	-0.0027	2.5
30		5	0.0019	2.5
20		1	0.0004	2.5
10		6	0.0023	2.5
0		4	0.0015	2.5
-10		-6	-0.0023	2.5
20	3.27	2	0.0008	2.5
20	4.43	-7	-0.0027	2.5

Test Frequency:2593MHz 16QAM 20MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-4	-0.0015	2.5
50		-10	-0.0039	2.5
40		-5	-0.0019	2.5
30		4	0.0015	2.5
20		-2	-0.0008	2.5
10		-7	-0.0027	2.5
0		-10	-0.0039	2.5
-10		-6	-0.0023	2.5
20	3.27	-5	-0.0019	2.5
20	4.43	-3	-0.0012	2.5

LTE Band 66

Test Frequency:1744.9MHz QPSK 1.4MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-6	-0.0034	2.5
50		0	0.0000	2.5
40		-6	-0.0034	2.5
30		7	0.0040	2.5
20		1	0.0006	2.5
10		3	0.0017	2.5
0		2	0.0011	2.5
-10		-1	-0.0006	2.5
20	3.27	-3	-0.0017	2.5
20	4.43	3	0.0017	2.5

Test Frequency:1744.9MHz 16QAM 1.4MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	9	0.0052	2.5
50		5	0.0029	2.5
40		2	0.0011	2.5
30		3	0.0017	2.5
20		2	0.0011	2.5
10		-5	-0.0029	2.5
0		1	0.0006	2.5
-10		10	0.0057	2.5
20	3.27	6	0.0034	2.5
20	4.43	-4	-0.0023	2.5

LTE Band 66

Test Frequency:1744.9MHz QPSK 3MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	11	0.0063	2.5
50		4	0.0023	2.5
40		1	0.0006	2.5
30		1	0.0006	2.5
20		3	0.0017	2.5
10		-5	-0.0029	2.5
0		8	0.0046	2.5
-10		1	0.0006	2.5
20	3.27	-1	-0.0006	2.5
20	4.43	9	0.0052	2.5

Test Frequency:1744.9MHz 16QAM 3MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	4	0.0023	2.5
50		-1	-0.0006	2.5
40		-4	-0.0023	2.5
30		-3	-0.0017	2.5
20		5	0.0029	2.5
10		12	0.0069	2.5
0		5	0.0029	2.5
-10		3	0.0017	2.5
20	3.27	13	0.0075	2.5
20	4.43	6	0.0034	2.5

LTE Band 66

Test Frequency:1744.9MHz QPSK 5MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	12	0.0069	2.5
50		8	0.0046	2.5
40		3	0.0017	2.5
30		6	0.0034	2.5
20		5	0.0029	2.5
10		6	0.0034	2.5
0		12	0.0069	2.5
-10		13	0.0075	2.5
-20		12	0.0069	2.5
-30		-3	-0.0017	2.5
20	3.27	12	0.0069	2.5
20	4.43	12	0.0069	2.5

Test Frequency:1744.9MHz 16QAM 5MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-5	-0.0029	2.5
50		-2	-0.0011	2.5
40		-6	-0.0034	2.5
30		3	0.0017	2.5
20		3	0.0017	2.5
10		8	0.0046	2.5
0		6	0.0034	2.5
-10		8	0.0046	2.5
20	3.27	2	0.0011	2.5
20	4.43	2	0.0011	2.5

LTE Band 66

Test Frequency:1744.9MHz QPSK 10MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	5	0.0029	2.5
50		-3	-0.0017	2.5
40		5	0.0029	2.5
30		0	0.0000	2.5
20		3	0.0017	2.5
10		6	0.0034	2.5
0		3	0.0017	2.5
-10		7	0.0040	2.5
20	3.27	2	0.0011	2.5
20	4.43	-3	-0.0017	2.5

Test Frequency:1744.9MHz 16QAM 10MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-2	-0.0011	2.5
50		-4	-0.0023	2.5
40		-1	-0.0006	2.5
30		10	0.0057	2.5
20		3	0.0017	2.5
10		12	0.0069	2.5
0		5	0.0029	2.5
-10		6	0.0034	2.5
20	3.27	11	0.0063	2.5
20	4.43	1	0.0006	2.5

LTE Band 66

Test Frequency:1744.9MHz QPSK 15MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	8	0.0046	2.5
50		-6	-0.0034	2.5
40		2	0.0011	2.5
30		-8	-0.0046	2.5
20		1	0.0006	2.5
10		-4	-0.0023	2.5
0		5	0.0029	2.5
-10		4	0.0023	2.5
20	3.27	-4	-0.0023	2.5
20	4.43	8	0.0046	2.5

Test Frequency:1744.9MHz 16QAM 15MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	1	0.0006	2.5
50		-12	-0.0069	2.5
40		3	0.0017	2.5
30		-1	-0.0006	2.5
20		-3	-0.0017	2.5
10		0	0.0000	2.5
0		-2	-0.0011	2.5
-10		-9	-0.0052	2.5
20	3.27	-8	-0.0046	2.5
20	4.43	-8	-0.0046	2.5

LTE Band 66

Test Frequency:1744.9MHz QPSK 20MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	3	0.0017	2.5
50		-11	-0.0063	2.5
40		1	0.0006	2.5
30		-11	-0.0063	2.5
20		-3	-0.0017	2.5
10		-1	-0.0006	2.5
0		-4	-0.0023	2.5
-10		0	0.0000	2.5
20	3.27	-1	-0.0006	2.5
20	4.43	4	0.0023	2.5

Test Frequency:1744.9MHz 16QAM 20MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-5	-0.0029	2.5
50		4	0.0023	2.5
40		-2	-0.0011	2.5
30		-4	-0.0023	2.5
20		-3	-0.0017	2.5
10		-3	-0.0017	2.5
0		-2	-0.0011	2.5
-10		-5	-0.0029	2.5
20	3.27	2	0.0011	2.5
20	4.43	3	0.0017	2.5

LTE Band 71

Test Frequency:680.5MHz QPSK 5MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-5	-0.0073	2.5
50		7	0.0103	2.5
40		6	0.0088	2.5
30		0	0.0000	2.5
20		2	0.0029	2.5
10		-1	-0.0015	2.5
0		-7	-0.0103	2.5
-10		1	0.0015	2.5
20	3.27	-7	-0.0103	2.5
20	4.43	9	0.0132	2.5

Test Frequency:680.5MHz 16QAM 5MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	1	0.0015	2.5
50		-3	-0.0044	2.5
40		4	0.0059	2.5
30		-3	-0.0044	2.5
20		2	0.0029	2.5
10		7	0.0103	2.5
0		-2	-0.0029	2.5
-10		10	0.0147	2.5
20	3.27	9	0.0132	2.5
20	4.43	-6	-0.0088	2.5

LTE Band 71

Test Frequency:680.5MHz QPSK 10MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	10	0.0147	2.5
50		-1	-0.0015	2.5
40		0	0.0000	2.5
30		0	0.0000	2.5
20		4	0.0059	2.5
10		8	0.0118	2.5
0		4	0.0059	2.5
-10		6	0.0088	2.5
20	3.27	8	0.0118	2.5
20	4.43	7	0.0103	2.5

Test Frequency: 680.5MHz 16QAM 10MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-6	-0.0088	2.5
50		2	0.0029	2.5
40		2	0.0029	2.5
30		-4	-0.0059	2.5
20		-3	-0.0044	2.5
10		1	0.0015	2.5
0		0	0.0000	2.5
-10		-1	-0.0015	2.5
20	3.27	-10	-0.0147	2.5
20	4.43	-8	-0.0118	2.5

LTE Band 71

Test Frequency:680.5MHz QPSK 15MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-11	-0.0162	2.5
50		5	0.0073	2.5
40		-6	-0.0088	2.5
30		-11	-0.0162	2.5
20		-3	-0.0044	2.5
10		4	0.0059	2.5
0		1	0.0015	2.5
-10		1	0.0015	2.5
20	3.27	-9	-0.0132	2.5
20	4.43	5	0.0073	2.5

Test Frequency:680.5MHz 16QAM 15MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	8	0.0118	2.5
50		-3	-0.0044	2.5
40		5	0.0073	2.5
30		5	0.0073	2.5
20		-1	-0.0015	2.5
10		8	0.0118	2.5
0		-9	-0.0132	2.5
-10		4	0.0059	2.5
20	3.27	-9	-0.0132	2.5
20	4.43	-8	-0.0118	2.5

LTE Band 71

Test Frequency:680.5MHz QPSK 20MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	-3	-0.0044	2.5
50		-4	-0.0059	2.5
40		5	0.0073	2.5
30		0	0.0000	2.5
20		-1	-0.0015	2.5
10		-8	-0.0118	2.5
0		-4	-0.0059	2.5
-10		8	0.0118	2.5
20	3.27	4	0.0059	2.5
20	4.43	4	0.0059	2.5

Test Frequency:680.5MHz 16QAM 20MHz				
Temperature (℃)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
60	3.85	0	0.0000	2.5
50		3	0.0044	2.5
40		-4	-0.0059	2.5
30		-2	-0.0029	2.5
20		-1	-0.0015	2.5
10		1	0.0015	2.5
0		-7	-0.0103	2.5
-10		4	0.0059	2.5
20	3.27	-10	-0.0147	2.5
20	4.43	7	0.0103	2.5

14 RF Exposure

Remark: refer to SAR test report: WTD25D08233044W007.

15 Photographs of test setup and EUT.

Note: Please refer to Appendix-M55-Photos.

====== End of Report ======