

TEST REPORT

Reference No...... : WTD25D04083471W003
FCC ID : 2BADD-R4GLPLUS
Applicant..... : Black Gate Hunting Products, LLC
Address..... : 8200 Canthy Circle, Garner, NC 27529, United States
Manufacturer : HuaRui Technology(ShenZhen)CO.,Ltd
Address..... : 401, Building 3, No.32, Dafu Road, Zhangge Community, Fucheng Street, Longhua District, Shenzhen, China
Product..... : Wireless Trail Camera
Model(s) : R4GLPLUS
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 : 2025-04-08
Date of Test : 2025-04-09 to 2025-04-29
Date of Issue..... : 2025-05-29
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.

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3 Revision History

Test Report No.	Date of Receipt Sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTD25D04083471W003	2025-04-08	2025-04-09 to 2025-04-29	2025-05-29	Original	-	Valid

4 General Information

4.1 General Description of E.U.T.

Product:	Wireless Trail Camera
Model(s):	R4GLPLUS
Model Description:	N/A
Test Sample No.:	1-1/1
LTE Band(s):	FDD Band 2/4/5/12/13/25/26
Hardware Version:	R4GplusMV02
Software Version:	R4G_Plus_020

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 12: 699~716MHz LTE Band 13: 777~787MHz LTE Band 25: 1850~1915MHz LTE Band 26(Part 90): 814~824MHz LTE Band 26(Part 22): 824~849MHz
Max. RF output power:	LTE Band 2: 23.16dBm LTE Band 4: 22.36dBm LTE Band 5: 22.95dBm LTE Band 12: 23.11dBm LTE Band 13: 22.91dBm LTE Band 25: 24.30dBm LTE Band 26(Part 90): 23.42dBm LTE Band 26(Part 22): 24.21dBm
Max. ERP/EIRP:	LTE Band 2: 26.50dBm(QPSK), 26.66dBm(16QAM) LTE Band 4: 25.72dBm(QPSK), 25.76dBm(16QAM) LTE Band 5: 23.78dBm(QPSK), 23.62dBm(16QAM) LTE Band 12: 24.33dBm(QPSK), 24.36dBm(16QAM) LTE Band 13: 23.85dBm(QPSK), 24.02dBm(16QAM) LTE Band 25: 27.59dBm(QPSK), 27.95dBm(16QAM) LTE Band 26(Part 90): 25.31dBm(QPSK), 25.38dBm(16QAM) LTE Band 26(Part 22): 26.24dBm(QPSK), 25.58dBm(16QAM)
Type of Modulation:	QPSK, 16QAM
Antenna installation:	External antenna with RP-SMA connector
Antenna Gain:	LTE Band 2: 3dBi LTE Band 4: 3dBi LTE Band 5: 1dBi LTE Band 12: 1dBi LTE Band 13: 1dBi LTE Band 25: 3dBi LTE Band 26(Part 90): 1dBi

LTE Band 26(Part 22): 1dBi

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: DC 12V

Type of Emission: LTE Band 2 1.4MHz: 1M09G7D(QPSK), 1M09W7D(16QAM)
LTE Band 2 3MHz: 2M68G7D(QPSK), 2M67W7D(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: 8M93G7D(QPSK), 8M93W7D(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: 8M92G7D(QPSK), 8M92W7D(16QAM)
LTE Band 12 1.4MHz: 1M09G7D(QPSK), 1M09W7D(16QAM)
LTE Band 12 3MHz: 2M68G7D(QPSK), 2M68W7D(16QAM)
LTE Band 12 5MHz: 4M49G7D(QPSK), 4M49W7D(16QAM)
LTE Band 12 10MHz: 8M93G7D(QPSK), 8M92W7D(16QAM)
LTE Band 13 5MHz: 4M50G7D(QPSK), 4M49W7D(16QAM)
LTE Band 13 10 MHz: 8M93G7D(QPSK), 8M92W7D(16QAM)
LTE Band 25 1.4MHz: 1M09G7D(QPSK), 1M08W7D(16QAM)
LTE Band 25 3MHz: 2M67G7D(QPSK), 2M67W7D(16QAM)
LTE Band 25 5MHz: 4M46G7D(QPSK), 4M46W7D(16QAM)
LTE Band 25 10 MHz: 8M89G7D(QPSK), 8M42W7D(16QAM)
LTE Band 25 15MHz: 13M5G7D(QPSK), 12M9W7D(16QAM)
LTE Band 25 20MHz: 17M9G7D(QPSK), 17M0W7D(16QAM)
LTE Band 26(Part 90) 1.4MHz: 1M09G7D(QPSK), 1M09W7D(16QAM)
LTE Band 26(Part 90) 3MHz: 2M71G7D(QPSK), 2M70W7D(16QAM)
LTE Band 26(Part 90) 5MHz: 4M52G7D(QPSK), 4M52W7D(16QAM)
LTE Band 26(Part 90) 10 MHz: 8M99G7D(QPSK), 8M97W7D(16QAM)
LTE Band 26(Part 22) 1.4MHz: 1M09G7D(QPSK), 1M08W7D(16QAM)
LTE Band 26(Part 22) 3MHz: 2M67G7D(QPSK), 2M66W7D(16QAM)
LTE Band 26(Part 22) 5MHz: 4M47G7D(QPSK), 4M46W7D(16QAM)
LTE Band 26(Part 22) 10 MHz: 8M88G7D(QPSK), 8M42W7D(16QAM)
LTE Band 26(Part 22) 15MHz: 13M4G7D(QPSK), 12M9W7D(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
LTE Band 4	1.4	1860.0 MHz	18700
		1880.0 MHz	18900
		1900.0 MHz	19100
	3	1710.7 MHz	19957
		1732.5 MHz	20175
		1754.3 MHz	20393
	5	1711.5 MHz	19965
		1732.5 MHz	20175
		1753.5 MHz	20385
	10	1712.5 MHz	19975
		1732.5 MHz	20175
		1752.5 MHz	20375
	15	1715.0 MHz	20000
		1732.5 MHz	20175
		1750.0 MHz	20350
LTE Band 5	1.4	1717.5 MHz	20025
		1732.5 MHz	20175
		1747.5 MHz	20325
		1720.0 MHz	20050
		1732.5 MHz	20175
	1.4	1745.0 MHz	20300
		824.7 MHz	20407
		836.5 MHz	20525

	3	848.3 MHz	20643
		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 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 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	
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 (MPE)	1.1310 2.1091	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	2024-04-22 2025-04-19	2025-04-21 2026-04-18
2	Amplifier	Agilent	8447D	2944A10178	2024-07-18	2025-07-17
3	Tri-log Broadband Antenna	SCHWARZBECK	VULB9163	336	2024-07-21	2025-07-20
4	Coaxial Cable	Top	TYPE16(13M)	-	2024-04-22 2025-04-19	2025-04-21 2026-04-18
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120D	667	2025-01-17	2026-01-16
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	2024-07-18	2025-07-17
7	Broadband Preamplifier	COMPLIANCE	PAP-1G18	2004	2024-07-18	2025-07-17
8	Coaxial Cable	Top	ZT26-NJ-NJ-8M/FA	-	2024-04-22 2025-04-19	2025-04-21 2026-04-18
9	Microwave Amplifier	SCHWARZBECK	BBV 9721	100472	2024-07-18	2025-07-17
10	Coaxial Cable	Top	ZT40-2.92J-2.92J-2.0M	17100919	2024-04-22 2025-04-19	2025-04-21 2026-04-18
3m Semi-anechoic Chamber for Radiation Emissions 2#						
1	Test Receiver	R&S	ESCI	101296	2024-04-22 2025-04-19	2025-04-21 2026-04-18
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2024-11-04	2025-11-03
3	Active Loop Antenna	Com-Power	AL-130R	10160007	2024-04-27 2025-04-21	2025-04-26 2026-04-20
4	Amplifier	ANRITSU	MH648A	M43381	2024-04-22 2025-04-19	2025-04-21 2026-04-18
5	Cable	HUBER+SUHNER	CBL2	525178	2024-04-22 2025-04-19	2025-04-21 2026-04-18
RF Conducted Testing						
1	Spectrum Analyzer	Agilent	N9020A	MY49100060	2024-07-18	2025-07-17
2	Universal Radio Communication Tester	R&S	CMW 500	127818	2024-04-22 2025-04-19	2025-04-21 2026-04-18

Test Software:

Test Item	Software name	Software version
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

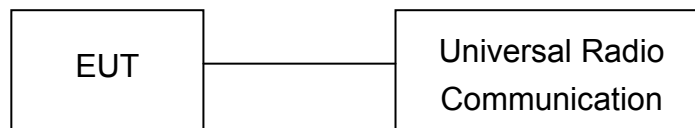
Operating Environment :

Temperature:	25.3 °C
Humidity:	53.8 % RH
Atmospheric Pressure:	101.3kPa

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	22.59	22.0±1	/
				1	2	22.63	22.0±1	/
				1	5	22.57	22.0±1	/
				3	0	22.65	22.0±1	/
				3	2	22.69	22.0±1	/
				3	3	22.65	22.0±1	/
			6	0	21.73	22.0±1	1.0	
			16QAM	1	0	21.6	21.0±1	1.0
				1	2	21.66	21.0±1	1.0
				1	5	21.57	21.0±1	1.0
				3	0	21.65	21.0±1	1.0
				3	2	21.67	21.0±1	1.0
	3	3		21.67	21.0±1	1.0		
	6	0	20.87	21.0±1	1.0			
	18900	1880	QPSK	1	0	22.86	22.0±1	/
				1	2	22.9	22.0±1	/
				1	5	22.82	22.0±1	/
				3	0	22.85	22.0±1	/
				3	2	22.9	22.0±1	/
				3	3	22.87	22.0±1	/
			6	0	22.01	22.0±1	1.0	
			16QAM	1	0	22.07	21.5±1	1.0
				1	2	22.09	21.5±1	1.0
				1	5	22.07	21.5±1	1.0
				3	0	22	21.5±1	1.0
				3	2	21.99	21.5±1	1.0
	3	3		21.96	21.5±1	1.0		
	6	0	20.88	21.5±1	1.0			
	19193	1909.3	QPSK	1	0	22.78	22.0±1	/
				1	2	22.83	22.0±1	/
				1	5	22.74	22.0±1	/
				3	0	22.8	22.0±1	/
				3	2	22.83	22.0±1	/
				3	3	22.8	22.0±1	/
			6	0	21.89	22.0±1	1.0	
			16QAM	1	0	21.66	21.0±1	1.0
				1	2	21.66	21.0±1	1.0
				1	5	21.62	21.0±1	1.0
				3	0	21.87	21.0±1	1.0
				3	2	21.89	21.0±1	1.0
	3	3		21.86	21.0±1	1.0		
	6	0	21.01	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	18615	1851.5	QPSK	1	0	22.5	22.0±1	/
				1	8	22.55	22.0±1	/
				1	14	22.51	22.0±1	/
				8	0	21.74	22.0±1	1.0
				8	4	21.77	22.0±1	1.0
				8	7	21.69	22.0±1	1.0
				15	0	21.66	22.0±1	1.0
			16QAM	1	0	21.35	21.0±1	1.0
				1	8	21.4	21.0±1	1.0
				1	14	21.34	21.0±1	1.0
				8	0	20.84	21.0±1	1.0
				8	4	20.86	21.0±1	1.0
				8	7	20.77	21.0±1	1.0
				15	0	20.67	21.0±1	1.0
	18900	1880	QPSK	1	0	22.75	22.0±1	/
				1	8	22.8	22.0±1	/
				1	14	22.73	22.0±1	/
				8	0	21.96	22.0±1	1.0
				8	4	22.01	22.0±1	1.0
				8	7	21.97	22.0±1	1.0
				15	0	21.88	22.0±1	1.0
			16QAM	1	0	21.99	21.5±1	1.0
				1	8	22.1	21.5±1	1.0
				1	14	21.98	21.5±1	1.0
				8	0	20.98	21.5±1	1.0
				8	4	21.01	21.5±1	1.0
				8	7	20.92	21.5±1	1.0
				15	0	20.89	21.5±1	1.0
	19185	1908.5	QPSK	1	0	22.6	22.0±1	/
				1	8	22.76	22.0±1	/
				1	14	22.62	22.0±1	/
				8	0	21.82	22.0±1	1.0
				8	4	21.86	22.0±1	1.0
				8	7	21.78	22.0±1	1.0
				15	0	21.77	22.0±1	1.0
			16QAM	1	0	21.55	21.0±1	1.0
				1	8	21.61	21.0±1	1.0
				1	14	21.46	21.0±1	1.0
				8	0	20.83	21.0±1	1.0
				8	4	20.85	21.0±1	1.0
				8	7	20.78	21.0±1	1.0
				15	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)
5MHz	18625	1852.5	QPSK	1	0	22.73	22.0±1	/
				1	12	22.88	22.0±1	/
				1	24	22.76	22.0±1	/
				12	0	21.74	22.0±1	1.0
				12	6	21.83	22.0±1	1.0
				12	13	21.75	22.0±1	1.0
				25	0	21.79	22.0±1	1.0
			16QAM	1	0	21.84	21.5±1	1.0
				1	12	22.03	21.5±1	1.0
				1	24	21.91	21.5±1	1.0
				12	0	20.85	21.5±1	1.0
				12	6	20.91	21.5±1	1.0
				12	13	20.84	21.5±1	1.0
				25	0	20.84	21.5±1	1.0
	18900	1880	QPSK	1	0	22.98	22.5±1	/
				1	12	23.05	22.5±1	/
				1	24	22.94	22.5±1	/
				12	0	21.94	22.5±1	1.0
				12	6	22	22.5±1	1.0
				12	13	21.92	22.5±1	1.0
				25	0	21.92	22.5±1	1.0
			16QAM	1	0	22.34	21.5±1	1.0
				1	12	22.47	21.5±1	1.0
				1	24	22.31	21.5±1	1.0
				12	0	21.05	21.5±1	1.0
				12	6	21.13	21.5±1	1.0
				12	13	21.02	21.5±1	1.0
				25	0	20.97	21.5±1	1.0
	19175	1907.5	QPSK	1	0	22.83	22.0±1	/
				1	12	22.94	22.0±1	/
				1	24	22.8	22.0±1	/
				12	0	21.82	22.0±1	1.0
				12	6	21.92	22.0±1	1.0
				12	13	21.82	22.0±1	1.0
				25	0	21.85	22.0±1	1.0
			16QAM	1	0	21.88	21.0±1	1.0
				1	12	21.96	21.0±1	1.0
				1	24	21.81	21.0±1	1.0
				12	0	20.87	21.0±1	1.0
				12	6	20.95	21.0±1	1.0
				12	13	20.85	21.0±1	1.0
				25	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)
10MHz	18650	1855	QPSK	1	0	22.88	22.0±1	/
				1	24	22.92	22.0±1	/
				1	49	22.88	22.0±1	/
				25	0	21.84	22.0±1	1.0
				25	13	21.92	22.0±1	1.0
				25	25	21.94	22.0±1	1.0
				50	0	21.92	22.0±1	1.0
			16QAM	1	0	21.73	21.0±1	1.0
				1	24	21.81	21.0±1	1.0
				1	49	21.82	21.0±1	1.0
				25	0	20.89	21.0±1	1.0
				25	13	20.97	21.0±1	1.0
				25	25	21.01	21.0±1	1.0
				50	0	20.91	21.0±1	1.0
	18900	1880	QPSK	1	0	23.02	22.5±1	/
				1	24	23.07	22.5±1	/
				1	49	23	22.5±1	/
				25	0	21.94	22.5±1	1.0
				25	13	22.04	22.5±1	1.0
				25	25	21.91	22.5±1	1.0
				50	0	21.92	22.5±1	1.0
			16QAM	1	0	22.31	21.5±1	1.0
				1	24	22.3	21.5±1	1.0
				1	49	22.22	21.5±1	1.0
				25	0	20.97	21.5±1	1.0
				25	13	21.05	21.5±1	1.0
				25	25	20.95	21.5±1	1.0
				50	0	20.91	21.5±1	1.0
	19150	1905	QPSK	1	0	22.91	22.0±1	/
				1	24	22.94	22.0±1	/
				1	49	22.92	22.0±1	/
				25	0	21.81	22.0±1	1.0
				25	13	21.85	22.0±1	1.0
				25	25	21.81	22.0±1	1.0
				50	0	21.82	22.0±1	1.0
			16QAM	1	0	21.86	21.0±1	1.0
				1	24	21.88	21.0±1	1.0
				1	49	21.72	21.0±1	1.0
				25	0	20.89	21.0±1	1.0
				25	13	21	21.0±1	1.0
				25	25	20.9	21.0±1	1.0
				50	0	20.79	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	18675	1857.5	QPSK	1	0	22.83	22.0±1	/
				1	37	22.95	22.0±1	/
				1	74	22.83	22.0±1	/
				36	0	21.95	22.0±1	1.0
				36	18	22	22.0±1	1.0
				36	39	21.99	22.0±1	1.0
				75	0	22.01	22.0±1	1.0
			16QAM	1	0	21.71	21.0±1	1.0
				1	37	21.97	21.0±1	1.0
				1	74	21.88	21.0±1	1.0
				36	0	20.96	21.0±1	1.0
				36	18	21	21.0±1	1.0
				36	39	21.04	21.0±1	1.0
				75	0	21.05	21.0±1	1.0
	18900	1880	QPSK	1	0	22.98	22.0±1	/
				1	37	23.1	22.0±1	/
				1	74	22.93	22.0±1	/
				36	0	22.06	22.0±1	1.0
				36	18	22.16	22.0±1	1.0
				36	39	22.02	22.0±1	1.0
				75	0	22.07	22.0±1	1.0
			16QAM	1	0	22.31	21.5±1	1.0
				1	37	22.3	21.5±1	1.0
				1	74	22.17	21.5±1	1.0
				36	0	21.07	21.5±1	1.0
				36	18	21.1	21.5±1	1.0
				36	39	20.99	21.5±1	1.0
				75	0	21.01	21.5±1	1.0
	19125	1902.5	QPSK	1	0	22.86	22.0±1	/
				1	37	22.9	22.0±1	/
				1	74	22.82	22.0±1	/
				36	0	21.89	22.0±1	1.0
				36	18	21.93	22.0±1	1.0
				36	39	21.94	22.0±1	1.0
				75	0	21.93	22.0±1	1.0
			16QAM	1	0	22.22	21.5±1	1.0
				1	37	22.27	21.5±1	1.0
				1	74	21.96	21.5±1	1.0
				36	0	20.82	21.5±1	1.0
				36	18	20.9	21.5±1	1.0
				36	39	20.88	21.5±1	1.0
				75	0	20.91	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	18700	1860	QPSK	1	0	22.88	23.0±1	/
				1	49	23.14	23.0±1	/
				1	99	22.93	23.0±1	/
				50	0	22.02	23.0±1	1.0
				50	25	22.17	23.0±1	1.0
				50	50	22.24	23.0±1	1.0
				100	0	22.11	23.0±1	1.0
			16QAM	1	0	22.37	22.0±1	1.0
				1	49	22.69	22.0±1	1.0
				1	99	22.5	22.0±1	1.0
				50	0	21.06	22.0±1	1.0
				50	25	21.21	22.0±1	1.0
				50	50	21.25	22.0±1	1.0
				100	0	21.15	22.0±1	1.0
	18900	1880	QPSK	1	0	22.96	22.5±1	/
				1	49	23.16	22.5±1	/
				1	99	22.93	22.5±1	/
				50	0	22.01	22.5±1	1.0
				50	25	22.1	22.5±1	1.0
				50	50	21.92	22.5±1	1.0
				100	0	21.97	22.5±1	1.0
			16QAM	1	0	22.35	21.5±1	1.0
				1	49	22.41	21.5±1	1.0
				1	99	22.22	21.5±1	1.0
				50	0	20.99	21.5±1	1.0
				50	25	21.05	21.5±1	1.0
				50	50	20.91	21.5±1	1.0
				100	0	20.95	21.5±1	1.0
	19100	1900	QPSK	1	0	22.75	22.0±1	/
				1	49	22.9	22.0±1	/
				1	99	22.71	22.0±1	/
				50	0	21.89	22.0±1	1.0
				50	25	21.94	22.0±1	1.0
				50	50	21.94	22.0±1	1.0
				100	0	21.9	22.0±1	1.0
			16QAM	1	0	22.11	21.5±1	1.0
				1	49	22.32	21.5±1	1.0
				1	99	21.96	21.5±1	1.0
				50	0	20.89	21.5±1	1.0
				50	25	20.96	21.5±1	1.0
				50	50	20.91	21.5±1	1.0
				100	0	20.89	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	22.19	22.0±1	/
				1	2	22.36	22.0±1	/
				1	5	22.21	22.0±1	/
				3	0	22.27	22.0±1	/
				3	2	22.26	22.0±1	/
				3	3	22.26	22.0±1	/
				6	0	21.17	22.0±1	1.0
			16QAM	1	0	21.3	21.0±1	1.0
				1	2	21.4	21.0±1	1.0
				1	5	21.33	21.0±1	1.0
				3	0	21.25	21.0±1	1.0
				3	2	21.24	21.0±1	1.0
				3	3	21.28	21.0±1	1.0
				6	0	20.38	21.0±1	1.0
	20175	1732.5	QPSK	1	0	22.14	22.0±1	/
				1	2	22.3	22.0±1	/
				1	5	22.14	22.0±1	/
				3	0	22.23	22.0±1	/
				3	2	22.27	22.0±1	/
				3	3	22.23	22.0±1	/
				6	0	21.15	22.0±1	1.0
			16QAM	1	0	21.55	21.0±1	1.0
				1	2	21.75	21.0±1	1.0
				1	5	21.6	21.0±1	1.0
				3	0	21.44	21.0±1	1.0
				3	2	21.46	21.0±1	1.0
				3	3	21.45	21.0±1	1.0
				6	0	20.11	21.0±1	1.0
	20393	1754.3	QPSK	1	0	21.98	22.0±1	/
				1	2	22.19	22.0±1	/
				1	5	21.96	22.0±1	/
				3	0	22.14	22.0±1	/
				3	2	22.16	22.0±1	/
				3	3	22.13	22.0±1	/
				6	0	21.04	22.0±1	1.0
			16QAM	1	0	21	21.0±1	1.0
				1	2	21.19	21.0±1	1.0
				1	5	20.99	21.0±1	1.0
				3	0	21.23	21.0±1	1.0
				3	2	21.27	21.0±1	1.0
				3	3	21.25	21.0±1	1.0
				6	0	20.19	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	22.27	22.0±1	/
				1	8	22.26	22.0±1	/
				1	14	22.2	22.0±1	/
				8	0	21.32	22.0±1	1.0
				8	4	21.35	22.0±1	1.0
				8	7	21.28	22.0±1	1.0
				15	0	21.29	22.0±1	1.0
			16QAM	1	0	21.17	21.0±1	1.0
				1	8	21.22	21.0±1	1.0
				1	14	21.17	21.0±1	1.0
				8	0	20.43	21.0±1	1.0
				8	4	20.47	21.0±1	1.0
				8	7	20.43	21.0±1	1.0
				15	0	20.36	21.0±1	1.0
	20175	1732.5	QPSK	1	0	22.2	22.0±1	/
				1	8	22.21	22.0±1	/
				1	14	22.24	22.0±1	/
				8	0	21.22	22.0±1	1.0
				8	4	21.29	22.0±1	1.0
				8	7	21.22	22.0±1	1.0
				15	0	21.2	22.0±1	1.0
			16QAM	1	0	21.59	21.0±1	1.0
				1	8	21.62	21.0±1	1.0
				1	14	21.57	21.0±1	1.0
				8	0	20.42	21.0±1	1.0
				8	4	20.42	21.0±1	1.0
				8	7	20.3	21.0±1	1.0
				15	0	20.27	21.0±1	1.0
	20385	1753.5	QPSK	1	0	22.09	22.0±1	/
				1	8	22.09	22.0±1	/
				1	14	21.99	22.0±1	/
				8	0	21.11	22.0±1	1.0
				8	4	21.13	22.0±1	1.0
				8	7	21.07	22.0±1	1.0
				15	0	21.11	22.0±1	1.0
			16QAM	1	0	21.11	21.0±1	1.0
				1	8	21.11	21.0±1	1.0
				1	14	21.01	21.0±1	1.0
				8	0	20.15	21.0±1	1.0
				8	4	20.19	21.0±1	1.0
				8	9	20.1	21.0±1	1.0
				15	0	20.07	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	22.1	22.0±1	/
				1	12	22.29	22.0±1	/
				1	24	22.17	22.0±1	/
				12	0	21.26	22.0±1	1.0
				12	6	21.32	22.0±1	1.0
				12	13	21.25	22.0±1	1.0
				25	0	21.26	22.0±1	1.0
			16QAM	1	0	21.33	21.0±1	1.0
				1	12	21.53	21.0±1	1.0
				1	24	21.37	21.0±1	1.0
				12	0	20.32	21.0±1	1.0
				12	6	20.4	21.0±1	1.0
				12	13	20.39	21.0±1	1.0
				25	0	20.3	21.0±1	1.0
	20175	1732.5	QPSK	1	0	22.09	22.0±1	/
				1	12	22.27	22.0±1	/
				1	24	22.06	22.0±1	/
				12	0	21.15	22.0±1	1.0
				12	6	21.24	22.0±1	1.0
				12	13	21.22	22.0±1	1.0
				25	0	21.17	22.0±1	1.0
			16QAM	1	0	21.62	21.0±1	1.0
				1	12	21.79	21.0±1	1.0
				1	24	21.61	21.0±1	1.0
				12	0	20.26	21.0±1	1.0
				12	6	20.43	21.0±1	1.0
				12	13	20.33	21.0±1	1.0
				25	0	20.3	21.0±1	1.0
	20375	1752.5	QPSK	1	0	21.92	21.5±1	/
				1	12	22.03	21.5±1	/
				1	24	21.9	21.5±1	/
				12	0	21.05	21.5±1	1.0
				12	6	21.08	21.5±1	1.0
				12	13	20.96	21.5±1	1.0
				25	0	20.98	21.5±1	1.0
			16QAM	1	0	21.03	21.0±1	1.0
				1	12	21.17	21.0±1	1.0
				1	24	21.02	21.0±1	1.0
				12	0	20.16	21.0±1	1.0
				12	6	20.16	21.0±1	1.0
				12	13	20.03	21.0±1	1.0
				25	0	20.05	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	22.11	22.0±1	/
				1	24	22.35	22.0±1	/
				1	49	22.18	22.0±1	/
				25	0	21.25	22.0±1	1.0
				25	13	21.26	22.0±1	1.0
				25	25	21.3	22.0±1	1.0
				50	0	21.21	22.0±1	1.0
			16QAM	1	0	21.05	21.0±1	1.0
				1	24	21.3	21.0±1	1.0
				1	49	21.17	21.0±1	1.0
				25	0	20.27	21.0±1	1.0
				25	13	20.27	21.0±1	1.0
				25	25	20.33	21.0±1	1.0
				50	0	20.27	21.0±1	1.0
	20175	1732.5	QPSK	1	0	22.1	22.0±1	/
				1	24	22.36	22.0±1	/
				1	49	22.07	22.0±1	/
				25	0	21.12	22.0±1	1.0
				25	13	21.18	22.0±1	1.0
				25	25	21.25	22.0±1	1.0
				50	0	21.19	22.0±1	1.0
			16QAM	1	0	21.51	21.0±1	1.0
				1	24	21.67	21.0±1	1.0
				1	49	21.47	21.0±1	1.0
				25	0	20.25	21.0±1	1.0
				25	13	20.27	21.0±1	1.0
				25	25	20.31	21.0±1	1.0
				50	0	20.24	21.0±1	1.0
	20350	1750	QPSK	1	0	22.06	22.0±1	/
				1	24	22.2	22.0±1	/
				1	49	21.95	22.0±1	/
				25	0	21.11	22.0±1	1.0
				25	13	21.08	22.0±1	1.0
				25	25	21.03	22.0±1	1.0
				50	0	21.05	22.0±1	1.0
			16QAM	1	0	21.11	21.0±1	1.0
				1	24	21.23	21.0±1	1.0
				1	49	20.99	21.0±1	1.0
				25	0	20.26	21.0±1	1.0
				25	13	20.19	21.0±1	1.0
				25	25	20.18	21.0±1	1.0
				50	0	20.15	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	22.06	22.0±1	/
				1	37	22.16	22.0±1	/
				1	74	22.1	22.0±1	/
				36	0	21.21	22.0±1	1.0
				36	18	21.26	22.0±1	1.0
				36	39	21.19	22.0±1	1.0
				75	0	21.21	22.0±1	1.0
			16QAM	1	0	20.95	21.0±1	1.0
				1	37	21.12	21.0±1	1.0
				1	74	21.1	21.0±1	1.0
				36	0	20.17	21.0±1	1.0
				36	18	20.2	21.0±1	1.0
				36	39	20.12	21.0±1	1.0
				75	0	20.12	21.0±1	1.0
	20175	1732.5	QPSK	1	0	21.97	22.0±1	/
				1	37	22.12	22.0±1	/
				1	74	22.04	22.0±1	/
				36	0	21.03	22.0±1	1.0
				36	18	21.14	22.0±1	1.0
				36	39	21.15	22.0±1	1.0
				75	0	21.11	22.0±1	1.0
			16QAM	1	0	21.39	21.0±1	1.0
				1	37	21.52	21.0±1	1.0
				1	74	21.4	21.0±1	1.0
				36	0	20.12	21.0±1	1.0
				36	18	20.21	21.0±1	1.0
				36	39	20.19	21.0±1	1.0
				75	0	20.11	21.0±1	1.0
	20325	1747.5	QPSK	1	0	21.99	21.0±1	/
				1	37	21.98	21.0±1	/
				1	74	21.8	21.0±1	/
				36	0	21.02	21.0±1	1.0
				36	18	21.04	21.0±1	1.0
				36	39	20.96	21.0±1	1.0
				75	0	21.02	21.0±1	1.0
			16QAM	1	0	21.47	20.5±1	1.0
				1	37	21.45	20.5±1	1.0
				1	74	21.29	20.5±1	1.0
				36	0	20.02	20.5±1	1.0
				36	18	20.06	20.5±1	1.0
				36	39	19.92	20.5±1	1.0
				75	0	20	20.5±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	21.97	22.0±1	/
				1	49	22.17	22.0±1	/
				1	99	22.05	22.0±1	/
				50	0	21.1	22.0±1	1.0
				50	25	21.06	22.0±1	1.0
				50	50	21.1	22.0±1	1.0
				100	0	21.09	22.0±1	1.0
			16QAM	1	0	21.41	21.0±1	1.0
				1	49	21.86	21.0±1	1.0
				1	99	21.55	21.0±1	1.0
				50	0	20.12	21.0±1	1.0
				50	25	20.13	21.0±1	1.0
				50	50	20.12	21.0±1	1.0
				100	0	20.18	21.0±1	1.0
	20175	1732.5	QPSK	1	0	21.99	21.5±1	/
				1	49	22.27	21.5±1	/
				1	99	21.84	21.5±1	/
				50	0	20.94	21.5±1	1.0
				50	25	21.05	21.5±1	1.0
				50	50	21.04	21.5±1	1.0
				100	0	20.98	21.5±1	1.0
			16QAM	1	0	21.4	21.0±1	1.0
				1	49	21.69	21.0±1	1.0
				1	99	21.37	21.0±1	1.0
				50	0	20.04	21.0±1	1.0
				50	25	20.07	21.0±1	1.0
				50	50	20.1	21.0±1	1.0
				100	0	20	21.0±1	1.0
	20300	1745	QPSK	1	0	21.8	21.0±1	/
				1	49	21.98	21.0±1	/
				1	99	21.65	21.0±1	/
				50	0	20.96	21.0±1	1.0
				50	25	20.92	21.0±1	1.0
				50	50	20.79	21.0±1	1.0
				100	0	20.84	21.0±1	1.0
			16QAM	1	0	21.28	20.5±1	1.0
				1	49	21.48	20.5±1	1.0
				1	99	21.08	20.5±1	1.0
				50	0	19.99	20.5±1	1.0
				50	25	19.92	20.5±1	1.0
				50	50	19.84	20.5±1	1.0
				100	0	19.92	20.5±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	22.74	22.0±1	/
				1	2	22.85	22.0±1	/
				1	5	22.73	22.0±1	/
				3	0	22.83	22.0±1	/
				3	2	22.87	22.0±1	/
				3	3	22.82	22.0±1	/
				6	0	21.8	22.0±1	1.0
			16QAM	1	0	21.83	21.5±1	1.0
				1	2	22	21.5±1	1.0
				1	5	21.85	21.5±1	1.0
				3	0	21.9	21.5±1	1.0
				3	1	21.87	21.5±1	1.0
				3	2	21.95	21.5±1	1.0
				6	0	20.93	21.5±1	1.0
	20525	836.5	QPSK	1	0	22.65	22.0±1	/
				1	2	22.75	22.0±1	/
				1	5	22.64	22.0±1	/
				3	0	22.74	22.0±1	/
				3	2	22.72	22.0±1	/
				3	3	22.75	22.0±1	/
				6	0	21.67	22.0±1	1.0
			16QAM	1	0	22.01	21.5±1	1.0
				1	2	22.18	21.5±1	1.0
				1	5	22	21.5±1	1.0
				3	0	21.91	21.5±1	1.0
				3	1	21.97	21.5±1	1.0
				3	2	21.94	21.5±1	1.0
				6	0	20.6	21.5±1	1.0
	20634	848.3	QPSK	1	0	22.61	22.0±1	/
				1	2	22.83	22.0±1	/
				1	5	22.64	22.0±1	/
				3	0	22.79	22.0±1	/
				3	2	22.83	22.0±1	/
				3	3	22.74	22.0±1	/
				6	0	21.71	22.0±1	1.0
			16QAM	1	0	21.67	21.0±1	1.0
				1	2	21.85	21.0±1	1.0
				1	5	21.74	21.0±1	1.0
				3	0	21.92	21.0±1	1.0
				3	2	21.95	21.0±1	1.0
				3	3	21.99	21.0±1	1.0
				6	0	20.92	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	20415	825.5	QPSK	1	0	22.76	22.0±1	/
				1	8	22.7	22.0±1	/
				1	14	22.76	22.0±1	/
				8	0	21.81	22.0±1	1.0
				8	4	21.84	22.0±1	1.0
				8	7	21.8	22.0±1	1.0
				15	0	21.78	22.0±1	1.0
			16QAM	1	0	21.75	21.0±1	1.0
				1	8	21.74	21.0±1	1.0
				1	14	21.71	21.0±1	1.0
				8	0	20.95	21.0±1	1.0
				8	4	20.93	21.0±1	1.0
				8	7	20.93	21.0±1	1.0
				15	0	20.84	21.0±1	1.0
	20525	836.5	QPSK	1	0	22.7	22.0±1	/
				1	8	22.67	22.0±1	/
				1	14	22.64	22.0±1	/
				8	0	21.72	22.0±1	1.0
				8	4	21.75	22.0±1	1.0
				8	7	21.7	22.0±1	1.0
				15	0	21.7	22.0±1	1.0
			16QAM	1	0	22.05	21.5±1	1.0
				1	8	22.08	21.5±1	1.0
				1	14	22.08	21.5±1	1.0
				8	0	20.84	21.5±1	1.0
				8	4	20.85	21.5±1	1.0
				8	7	20.83	21.5±1	1.0
				15	0	20.77	21.5±1	1.0
	20635	847.5	QPSK	1	0	22.69	22.0±1	/
				1	8	22.71	22.0±1	/
				1	14	22.73	22.0±1	/
				8	0	21.72	22.0±1	1.0
				8	4	21.8	22.0±1	1.0
				8	7	21.74	22.0±1	1.0
				15	0	21.77	22.0±1	1.0
			16QAM	1	0	21.78	21.0±1	1.0
				1	8	21.73	21.0±1	1.0
				1	14	21.74	21.0±1	1.0
				8	0	20.79	21.0±1	1.0
				8	4	20.86	21.0±1	1.0
				8	7	20.75	21.0±1	1.0
				15	0	20.75	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	20425	826.5	QPSK	1	0	22.69	22.0±1	/
				1	12	22.87	22.0±1	/
				1	24	22.67	22.0±1	/
				12	0	21.72	22.0±1	1.0
				12	6	21.85	22.0±1	1.0
				12	13	21.86	22.0±1	1.0
				25	0	21.77	22.0±1	1.0
			16QAM	1	0	21.9	21.0±1	1.0
				1	12	21.98	21.0±1	1.0
				1	24	21.84	21.0±1	1.0
				12	0	20.76	21.0±1	1.0
				12	6	20.93	21.0±1	1.0
				12	13	20.9	21.0±1	1.0
				25	0	20.82	21.0±1	1.0
	20525	836.5	QPSK	1	0	22.7	22.0±1	/
				1	12	22.72	22.0±1	/
				1	24	22.59	22.0±1	/
				12	0	21.79	22.0±1	1.0
				12	6	21.74	22.0±1	1.0
				12	13	21.69	22.0±1	1.0
				25	0	21.75	22.0±1	1.0
			16QAM	1	0	22.16	21.5±1	1.0
				1	12	22.26	21.5±1	1.0
				1	24	22.1	21.5±1	1.0
				12	0	20.89	21.5±1	1.0
				12	6	20.89	21.5±1	1.0
				12	13	20.85	21.5±1	1.0
				25	0	20.82	21.5±1	1.0
	20625	846.5	QPSK	1	0	22.59	22.0±1	/
				1	12	22.78	22.0±1	/
				1	24	22.65	22.0±1	/
				12	0	21.72	22.0±1	1.0
				12	6	21.75	22.0±1	1.0
				12	13	21.72	22.0±1	1.0
				25	0	21.71	22.0±1	1.0
			16QAM	1	0	21.67	21.0±1	1.0
				1	12	21.85	21.0±1	1.0
				1	24	21.77	21.0±1	1.0
				12	0	20.79	21.0±1	1.0
				12	6	20.8	21.0±1	1.0
				12	13	20.74	21.0±1	1.0
				25	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)
10MHz	20450	829	QPSK	1	0	22.76	22.0±1	/
				1	24	22.95	22.0±1	/
				1	49	22.71	22.0±1	/
				25	0	21.71	22.0±1	1.0
				25	13	21.86	22.0±1	1.0
				25	25	21.81	22.0±1	1.0
				50	0	21.78	22.0±1	1.0
			16QAM	1	0	21.76	21.0±1	1.0
				1	24	21.85	21.0±1	1.0
				1	49	21.65	21.0±1	1.0
				25	0	20.78	21.0±1	1.0
				25	13	20.89	21.0±1	1.0
				25	25	20.84	21.0±1	1.0
				50	0	20.81	21.0±1	1.0
	20525	836.5	QPSK	1	0	22.74	22.0±1	/
				1	24	22.86	22.0±1	/
				1	49	22.69	22.0±1	/
				25	0	21.91	22.0±1	1.0
				25	13	21.83	22.0±1	1.0
				25	25	21.74	22.0±1	1.0
				50	0	21.82	22.0±1	1.0
			16QAM	1	0	22.13	21.5±1	1.0
				1	24	22.24	21.5±1	1.0
				1	49	22.05	21.5±1	1.0
				25	0	20.91	21.5±1	1.0
				25	13	20.86	21.5±1	1.0
				25	25	20.8	21.5±1	1.0
				50	0	20.89	21.5±1	1.0
	20600	844	QPSK	1	0	22.64	22.0±1	/
				1	24	22.82	22.0±1	/
				1	49	22.72	22.0±1	/
				25	0	21.75	22.0±1	1.0
				25	13	21.75	22.0±1	1.0
				25	25	21.71	22.0±1	1.0
				50	0	21.73	22.0±1	1.0
			16QAM	1	0	21.65	21.0±1	1.0
				1	24	21.85	21.0±1	1.0
				1	49	21.75	21.0±1	1.0
				25	0	20.89	21.0±1	1.0
				25	13	20.89	21.0±1	1.0
				25	25	20.81	21.0±1	1.0
				50	0	20.8	21.0±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	22.59	22.0±1	/
				1	2	22.76	22.0±1	/
				1	5	22.63	22.0±1	/
				3	0	22.77	22.0±1	/
				3	2	22.82	22.0±1	/
				3	3	22.8	22.0±1	/
				6	0	21.74	22.0±1	1.0
			16QAM	1	0	21.69	21.0±1	1.0
				1	2	21.92	21.0±1	1.0
				1	5	21.79	21.0±1	1.0
				3	0	21.76	21.0±1	1.0
				3	2	21.81	21.0±1	1.0
				3	3	21.83	21.0±1	1.0
				6	0	20.91	21.0±1	1.0
	23095	707.5	QPSK	1	0	22.74	22.0±1	/
				1	2	22.91	22.0±1	/
				1	5	22.77	22.0±1	/
				3	0	22.82	22.0±1	/
				3	2	22.87	22.0±1	/
				3	3	22.91	22.0±1	/
				6	0	21.86	22.0±1	1.0
			16QAM	1	0	22.02	21.5±1	1.0
				1	2	22.19	21.5±1	1.0
				1	5	22.01	21.5±1	1.0
				3	0	21.96	21.5±1	1.0
				3	2	21.95	21.5±1	1.0
				3	3	22	21.5±1	1.0
				6	0	20.76	21.5±1	1.0
	23173	715.3	QPSK	1	0	22.77	22.5±1	/
				1	2	23.11	22.5±1	/
				1	5	22.88	22.5±1	/
				3	0	22.86	22.5±1	/
				3	2	22.91	22.5±1	/
				3	3	22.86	22.5±1	/
				6	0	21.81	22.5±1	1.0
			16QAM	1	0	21.68	21.0±1	1.0
				1	2	21.8	21.0±1	1.0
				1	5	21.62	21.0±1	1.0
				3	0	21.92	21.0±1	1.0
				3	2	21.95	21.0±1	1.0
				3	3	21.89	21.0±1	1.0
				6	0	21.02	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	23025	700.5	QPSK	1	0	22.62	22.0±1	/
				1	8	22.71	22.0±1	/
				1	14	22.71	22.0±1	/
				8	0	21.78	22.0±1	1.0
				8	4	21.79	22.0±1	1.0
				8	7	21.75	22.0±1	1.0
				15	0	21.72	22.0±1	1.0
			16QAM	1	0	21.53	21.0±1	1.0
				1	8	21.64	21.0±1	1.0
				1	14	21.61	21.0±1	1.0
				8	0	20.89	21.0±1	1.0
				8	4	20.98	21.0±1	1.0
				8	7	20.91	21.0±1	1.0
				15	0	20.86	21.0±1	1.0
	23095	707.5	QPSK	1	0	22.79	22.0±1	/
				1	8	22.79	22.0±1	/
				1	14	22.77	22.0±1	/
				8	0	21.81	22.0±1	1.0
				8	4	21.88	22.0±1	1.0
				8	7	21.81	22.0±1	1.0
				15	0	21.83	22.0±1	1.0
			16QAM	1	0	22.04	21.5±1	1.0
				1	8	22.04	21.5±1	1.0
				1	14	22.1	21.5±1	1.0
				8	0	20.89	21.5±1	1.0
				8	4	20.95	21.5±1	1.0
				8	7	20.88	21.5±1	1.0
				15	0	20.88	21.5±1	1.0
	23165	714.5	QPSK	1	0	22.79	22.0±1	/
				1	8	22.81	22.0±1	/
				1	14	22.92	22.0±1	/
				8	0	21.81	22.0±1	1.0
				8	4	21.82	22.0±1	1.0
				8	7	21.73	22.0±1	1.0
				15	0	21.77	22.0±1	1.0
			16QAM	1	0	21.8	21.0±1	1.0
				1	8	21.76	21.0±1	1.0
				1	14	21.6	21.0±1	1.0
				8	0	20.91	21.0±1	1.0
				8	4	20.89	21.0±1	1.0
				8	7	20.83	21.0±1	1.0
				15	0	20.79	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	22.56	22.0±1	/
				1	12	22.8	22.0±1	/
				1	24	22.7	22.0±1	/
				12	0	21.64	22.0±1	1.0
				12	6	21.85	22.0±1	1.0
				12	13	21.86	22.0±1	1.0
				25	0	21.72	22.0±1	1.0
			16QAM	1	0	21.72	21.0±1	1.0
				1	12	21.9	21.0±1	1.0
				1	24	21.81	21.0±1	1.0
				12	0	20.83	21.0±1	1.0
				12	6	20.96	21.0±1	1.0
				12	13	20.99	21.0±1	1.0
				25	0	20.84	21.0±1	1.0
	23095	707.5	QPSK	1	0	22.72	22.0±1	/
				1	12	22.79	22.0±1	/
				1	24	22.62	22.0±1	/
				12	0	21.79	22.0±1	1.0
				12	6	21.82	22.0±1	1.0
				12	13	21.74	22.0±1	1.0
				25	0	21.76	22.0±1	1.0
			16QAM	1	0	22.11	21.5±1	1.0
				1	12	22.2	21.5±1	1.0
				1	24	22.16	21.5±1	1.0
				12	0	20.95	21.5±1	1.0
				12	6	21	21.5±1	1.0
				12	13	20.89	21.5±1	1.0
				25	0	20.88	21.5±1	1.0
	23155	713.5	QPSK	1	0	22.72	22.0±1	/
				1	12	22.81	22.0±1	/
				1	24	22.74	22.0±1	/
				12	0	21.82	22.0±1	1.0
				12	6	21.84	22.0±1	1.0
				12	13	21.72	22.0±1	1.0
				25	0	21.79	22.0±1	1.0
			16QAM	1	0	21.79	21.0±1	1.0
				1	12	21.89	21.0±1	1.0
				1	24	21.65	21.0±1	1.0
				12	0	20.93	21.0±1	1.0
				12	6	20.95	21.0±1	1.0
				12	13	20.81	21.0±1	1.0
				25	0	20.8	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	22.63	22.0±1	/
				1	24	22.98	22.0±1	/
				1	49	22.77	22.0±1	/
				25	0	21.69	22.0±1	1.0
				25	13	21.8	22.0±1	1.0
				25	25	21.76	22.0±1	1.0
				50	0	21.77	22.0±1	1.0
			16QAM	1	0	21.52	21.0±1	1.0
				1	24	21.76	21.0±1	1.0
				1	49	21.57	21.0±1	1.0
				25	0	20.77	21.0±1	1.0
				25	13	20.89	21.0±1	1.0
				25	25	20.86	21.0±1	1.0
				50	0	20.8	21.0±1	1.0
	23095	707.5	QPSK	1	0	22.78	22.0±1	/
				1	24	22.91	22.0±1	/
				1	49	22.76	22.0±1	/
				25	0	21.75	22.0±1	1.0
				25	13	21.82	22.0±1	1.0
				25	25	21.71	22.0±1	1.0
				50	0	21.78	22.0±1	1.0
			16QAM	1	0	22.09	21.5±1	1.0
				1	24	22.2	21.5±1	1.0
				1	49	22.17	21.5±1	1.0
				25	0	20.85	21.5±1	1.0
				25	13	20.92	21.5±1	1.0
				25	25	20.83	21.5±1	1.0
				50	0	20.84	21.5±1	1.0
	23130	711	QPSK	1	0	22.84	22.5±1	/
				1	24	23.04	22.5±1	/
				1	49	22.94	22.5±1	/
				25	0	21.9	22.5±1	1.0
				25	13	21.83	22.5±1	1.0
				25	25	21.8	22.5±1	1.0
				50	0	21.91	22.5±1	1.0
			16QAM	1	0	21.71	21.0±1	1.0
				1	24	21.94	21.0±1	1.0
				1	49	21.63	21.0±1	1.0
				25	0	21.05	21.0±1	1.0
				25	13	20.98	21.0±1	1.0
				25	25	20.99	21.0±1	1.0
				50	0	21.03	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	22.67	22.0±1	/
				1	12	22.8	22.0±1	/
				1	24	22.63	22.0±1	/
				12	0	21.76	22.0±1	1.0
				12	6	21.82	22.0±1	1.0
				12	13	21.78	22.0±1	1.0
				25	0	21.79	22.0±1	1.0
			16QAM	1	0	21.77	21.0±1	1.0
				1	12	21.91	21.0±1	1.0
				1	24	21.8	21.0±1	1.0
				12	0	20.84	21.0±1	1.0
				12	6	20.94	21.0±1	1.0
				12	13	20.84	21.0±1	1.0
				25	0	20.81	21.0±1	1.0
	23230	782.0	QPSK	1	0	22.68	22.0±1	/
				1	12	22.74	22.0±1	/
				1	24	22.62	22.0±1	/
				12	0	21.75	22.0±1	1.0
				12	6	21.83	22.0±1	1.0
				12	13	21.79	22.0±1	1.0
				25	0	21.79	22.0±1	1.0
			16QAM	1	0	21.89	21.0±1	1.0
				1	12	21.95	21.0±1	1.0
				1	24	21.77	21.0±1	1.0
				12	0	20.85	21.0±1	1.0
				12	6	20.9	21.0±1	1.0
				12	13	20.87	21.0±1	1.0
				25	0	20.87	21.0±1	1.0
	23255	784.5	QPSK	1	0	22.65	22.0±1	/
				1	12	22.71	22.0±1	/
				1	24	22.63	22.0±1	/
				12	0	21.7	22.0±1	1.0
				12	6	21.75	22.0±1	1.0
				12	13	21.67	22.0±1	1.0
				25	0	21.65	22.0±1	1.0
			16QAM	1	0	22.15	21.5±1	1.0
				1	12	22.21	21.5±1	1.0
				1	24	22.13	21.5±1	1.0
				12	0	20.81	21.5±1	1.0
				12	6	20.91	21.5±1	1.0
				12	13	20.78	21.5±1	1.0
				25	0	20.75	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	23230	782.0	QPSK	1	0	22.75	22.0±1	/
				1	24	22.91	22.0±1	/
				1	49	22.72	22.0±1	/
				25	0	21.83	22.0±1	1.0
				25	13	21.81	22.0±1	1.0
				25	25	21.82	22.0±1	1.0
				50	0	21.86	22.0±1	1.0
			16QAM	1	0	21.66	21.0±1	1.0
				1	24	21.85	21.0±1	1.0
				1	49	21.57	21.0±1	1.0
				25	0	20.9	21.0±1	1.0
				25	13	20.89	21.0±1	1.0
				25	25	20.89	21.0±1	1.0
				50	0	20.84	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	22.57	22.5±1	/
				1	2	22.86	22.5±1	/
				1	5	22.33	22.5±1	/
				3	0	22.89	22.5±1	/
				3	2	23.07	22.5±1	/
				3	3	22.55	22.5±1	/
				6	0	21.61	22.5±1	1.0
			16QAM	1	0	21.76	21.5±1	1.0
				1	2	22.08	21.5±1	1.0
				1	5	21.62	21.5±1	1.0
				3	0	21.91	21.5±1	1.0
				3	2	22.14	21.5±1	1.0
				3	3	21.63	21.5±1	1.0
				6	0	20.71	21.5±1	1.0
	26365	1882.5	QPSK	1	0	22.6	23.0±1	/
				1	2	23.25	23.0±1	/
				1	5	22.46	23.0±1	/
				3	0	23.07	23.0±1	/
				3	2	23.25	23.0±1	/
				3	3	22.98	23.0±1	/
				6	0	22.08	23.0±1	1.0
			16QAM	1	0	21.97	22.0±1	1.0
				1	2	22.66	22.0±1	1.0
				1	5	21.94	22.0±1	1.0
				3	0	22.27	22.0±1	1.0
				3	2	22.5	22.0±1	1.0
				3	3	22.28	22.0±1	1.0
				6	0	21.14	22.0±1	1.0
	26683	1914.3	QPSK	1	0	22.3	21.5±1	/
				1	2	21.85	21.5±1	/
				1	5	21.36	21.5±1	/
				3	0	22.34	21.5±1	/
				3	2	22.25	21.5±1	/
				3	3	21.42	21.5±1	/
				6	0	20.77	21.5±1	1.0
			16QAM	1	0	21.37	21.0±1	1.0
				1	2	21	21.0±1	1.0
				1	5	20.53	21.0±1	1.0
				3	0	21.65	21.0±1	1.0
				3	2	21.58	21.0±1	1.0
				3	3	20.77	21.0±1	1.0
				6	0	20.1	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	22.6	22.5±1	/
				1	8	23.1	22.5±1	/
				1	14	22.34	22.5±1	/
				8	0	21.76	22.5±1	1.0
				8	4	22	22.5±1	1.0
				8	7	21.71	22.5±1	1.0
				15	0	21.71	22.5±1	1.0
			16QAM	1	0	21.61	21.5±1	1.0
				1	8	22.11	21.5±1	1.0
				1	14	21.33	21.5±1	1.0
				8	0	20.85	21.5±1	1.0
				8	4	21.13	21.5±1	1.0
				8	7	20.87	21.5±1	1.0
				15	0	20.81	21.5±1	1.0
	26365	1882.5	QPSK	1	0	22.81	23.0±1	/
				1	8	23.54	23.0±1	/
				1	14	22.49	23.0±1	/
				8	0	22.17	23.0±1	1.0
				8	4	22.39	23.0±1	1.0
				8	7	22.1	23.0±1	1.0
				15	0	22.1	23.0±1	1.0
			16QAM	1	0	22.05	22.0±1	1.0
				1	8	22.88	22.0±1	1.0
				1	14	21.82	22.0±1	1.0
				8	0	21.35	22.0±1	1.0
				8	4	21.57	22.0±1	1.0
				8	7	21.26	22.0±1	1.0
				15	0	21.21	22.0±1	1.0
	26675	1913.5	QPSK	1	0	23.01	23.0±1	/
				1	8	22.53	23.0±1	/
				1	14	21.07	21.0±1	/
				8	0	21.77	21.0±1	1.0
				8	4	21.6	21.0±1	1.0
				8	7	21.01	21.0±1	1.0
				15	0	21.42	21.0±1	1.0
			16QAM	1	0	22.11	22.0±1	1.0
				1	8	21.69	22.0±1	1.0
				1	14	20.26	20.0±1	1.0
				8	0	20.97	20.0±1	1.0
				8	4	20.84	20.0±1	1.0
				8	7	20.26	20.0±1	1.0
				15	0	20.56	20.0±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	22.7	22.0±1	/
				1	12	22.69	22.0±1	/
				1	24	22.44	22.0±1	/
				12	0	21.65	22.0±1	1.0
				12	6	21.68	22.0±1	1.0
				12	13	21.55	22.0±1	1.0
				25	0	21.78	22.0±1	1.0
			16QAM	1	0	22	21.5±1	1.0
				1	12	21.98	21.5±1	1.0
				1	24	21.74	21.5±1	1.0
				12	0	20.7	21.5±1	1.0
				12	6	20.78	21.5±1	1.0
				12	13	20.64	21.5±1	1.0
				25	0	20.85	21.5±1	1.0
	26365	1882.5	QPSK	1	0	22.88	22.5±1	/
				1	12	23.03	22.5±1	/
				1	24	22.73	22.5±1	/
				12	0	21.96	22.5±1	1.0
				12	6	21.9	22.5±1	1.0
				12	13	22.08	22.5±1	1.0
				25	0	22.13	22.5±1	1.0
			16QAM	1	0	22.17	22.0±1	1.0
				1	12	22.46	22.0±1	1.0
				1	24	22.21	22.0±1	1.0
				12	0	21.16	22.0±1	1.0
				12	6	21.12	22.0±1	1.0
				12	13	21.31	22.0±1	1.0
				25	0	21.27	22.0±1	1.0
	26665	1912.5	QPSK	1	0	23.37	22.5±1	/
				1	12	22.7	22.5±1	/
				1	24	21.66	22.5±1	/
				12	0	22.42	22.5±1	1.0
				12	6	22.04	22.5±1	1.0
				12	13	21.7	22.5±1	1.0
				25	0	21.81	22.5±1	1.0
			16QAM	1	0	22.55	21.6±1	1.0
				1	12	21.92	21.6±1	1.0
				1	24	20.85	21.6±1	1.0
				12	0	21.56	21.6±1	1.0
				12	6	21.22	21.6±1	1.0
				12	13	20.93	21.6±1	1.0
				25	0	20.97	21.6±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	22.68	23.0±1	/
				1	24	23.13	23.0±1	/
				1	49	23.51	23.0±1	/
				25	0	22	23.0±1	1.0
				25	13	22.07	23.0±1	1.0
				25	25	22.07	23.0±1	1.0
				50	0	22.17	23.0±1	1.0
			16QAM	1	0	21.75	22.0±1	1.0
				1	24	22.24	22.0±1	1.0
				1	49	22.53	22.0±1	1.0
				25	0	21.04	22.0±1	1.0
				25	13	21.14	22.0±1	1.0
				25	25	21.14	22.0±1	1.0
				50	0	21.27	22.0±1	1.0
	26365	1882.5	QPSK	1	0	23	23.0±1	/
				1	24	23.23	23.0±1	/
				1	49	22.98	23.0±1	/
				25	0	22.36	23.0±1	1.0
				25	13	22.27	23.0±1	1.0
				25	25	22.15	23.0±1	1.0
				50	0	22.24	23.0±1	1.0
			16QAM	1	0	22.21	22.0±1	1.0
				1	24	22.58	22.0±1	1.0
				1	49	22.32	22.0±1	1.0
				25	0	21.46	22.0±1	1.0
				25	13	21.39	22.0±1	1.0
				25	25	21.28	22.0±1	1.0
				50	0	21.35	22.0±1	1.0
	26640	1910	QPSK	1	0	23	22.5±1	/
				1	24	23.44	22.5±1	/
				1	49	21.76	22.5±1	/
				25	0	22.23	22.5±1	1.0
				25	13	22.58	22.5±1	1.0
				25	25	22.37	22.5±1	1.0
				50	0	22.04	22.5±1	1.0
			16QAM	1	0	22.08	21.6±1	1.0
				1	24	22.54	21.6±1	1.0
				1	49	20.95	21.6±1	1.0
				25	0	21.4	21.6±1	1.0
				25	13	21.75	21.6±1	1.0
				25	25	21.58	21.6±1	1.0
				50	0	21.19	21.6±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	23.17	23.0±1	/
				1	37	23.27	23.0±1	/
				1	74	23.9	23.0±1	/
				36	0	22.1	23.0±1	1.0
				36	18	22.35	23.0±1	1.0
				36	39	22.58	23.0±1	1.0
				75	0	22.48	23.0±1	1.0
			16QAM	1	0	22.18	22.0±1	1.0
				1	37	22.31	22.0±1	1.0
				1	74	22.91	22.0±1	1.0
				36	0	21.15	22.0±1	1.0
				36	18	21.39	22.0±1	1.0
				36	39	21.69	22.0±1	1.0
				75	0	23.37	23.0±1	1.0
	26365	1882.5	QPSK	1	0	23.44	23.0±1	/
				1	37	23.08	23.0±1	/
				1	74	23.27	23.0±1	/
				36	0	22.58	23.0±1	1.0
				36	18	22.46	23.0±1	1.0
				36	39	22.25	23.0±1	1.0
				75	0	22.29	23.0±1	1.0
			16QAM	1	0	22.73	22.0±1	1.0
				1	37	22.46	22.0±1	1.0
				1	74	22.62	22.0±1	1.0
				36	0	21.68	22.0±1	1.0
				36	18	21.58	22.0±1	1.0
				36	39	21.38	22.0±1	1.0
				75	0	23.37	23.0±1	1.0
	26615	1907.5	QPSK	1	0	23.57	22.6±1	/
				1	37	22.8	22.6±1	/
				1	74	21.85	22.6±1	/
				36	0	22.71	22.6±1	1.0
				36	18	22.62	22.6±1	1.0
				36	39	22.3	22.6±1	1.0
				75	0	22.16	22.6±1	1.0
			16QAM	1	0	23.07	22.3±1	1.0
				1	37	22.4	22.3±1	1.0
				1	74	21.47	22.3±1	1.0
				36	0	21.91	22.3±1	1.0
				36	18	21.82	22.3±1	1.0
				36	39	21.52	22.3±1	1.0
				75	0	23.12	22.3±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	23.1	23.0±1	/
				1	49	23.81	23.0±1	/
				1	99	23.85	23.0±1	/
				50	0	22.37	23.0±1	1.0
				50	25	22.7	23.0±1	1.0
				50	50	23.2	23.0±1	1.0
				100	0	22.43	23.0±1	1.0
			16QAM	1	0	22.61	22.4±1	1.0
				1	49	23.37	22.4±1	1.0
				1	99	23.39	22.4±1	1.0
				50	0	21.48	22.4±1	1.0
				50	25	21.84	22.4±1	1.0
				50	50	22.33	22.4±1	1.0
				100	0	22.88	22.4±1	1.0
	26365	1882.5	QPSK	1	0	24.01	23.2±1	/
				1	49	23.26	23.2±1	/
				1	99	23.39	23.2±1	/
				50	0	22.71	23.2±1	1.0
				50	25	22.53	23.2±1	1.0
				50	50	22.42	23.2±1	1.0
				100	0	22.25	23.2±1	1.0
			16QAM	1	0	23.3	22.5±1	1.0
				1	49	22.72	22.5±1	1.0
				1	99	22.78	22.5±1	1.0
				50	0	21.77	22.5±1	1.0
				50	25	21.62	22.5±1	1.0
				50	50	21.53	22.5±1	1.0
				100	0	23.3	22.5±1	1.0
	26590	1905.0	QPSK	1	0	24.3	24.0±1	/
				1	49	23.02	24.0±1	/
				1	99	22.61	22.0±1	/
				50	0	22.7	22.0±1	1.0
				50	25	21.94	22.0±1	1.0
				50	50	22.5	22.0±1	1.0
				100	0	22.52	22.0±1	1.0
			16QAM	1	0	23.7	23.0±1	1.0
				1	49	22.48	22.0±1	1.0
				1	99	22.17	22.0±1	1.0
				50	0	21.79	22.0±1	1.0
				50	25	21.04	22.0±1	1.0
				50	50	21.62	22.0±1	1.0
				100	0	23.68	23.0±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	23.16	23.0±1	/
				1	2	23.23	23.0±1	/
				1	5	23.15	23.0±1	/
				3	0	23.21	23.0±1	/
				3	2	23.28	23.0±1	/
				3	3	23.23	23.0±1	/
				6	0	22.15	23.0±1	1.0
			16QAM	1	0	22.36	22.0±1	1.0
				1	2	22.45	22.0±1	1.0
				1	5	22.27	22.0±1	1.0
				3	0	22.37	22.0±1	1.0
				3	2	22.47	22.0±1	1.0
				3	3	22.41	22.0±1	1.0
				6	0	21.41	22.0±1	1.0
	26740	819.0	QPSK	1	0	23.27	23.0±1	/
				1	2	23.35	23.0±1	/
				1	5	23.27	23.0±1	/
				3	0	23.32	23.0±1	/
				3	2	23.4	23.0±1	/
				3	3	23.33	23.0±1	/
				6	0	22.27	23.0±1	1.0
			16QAM	1	0	22.76	22.0±1	1.0
				1	2	22.8	22.0±1	1.0
				1	5	22.74	22.0±1	1.0
				3	0	22.66	22.0±1	1.0
				3	2	22.69	22.0±1	1.0
				3	3	22.62	22.0±1	1.0
				6	0	21.28	22.0±1	1.0
	26783	823.3	QPSK	1	0	23.12	23.0±1	/
				1	2	23.19	23.0±1	/
1				5	23.15	23.0±1	/	
3				0	23.33	23.0±1	/	
3				2	23.27	23.0±1	/	
3				3	23.29	23.0±1	/	
6				0	22.09	23.0±1	1.0	
16QAM			1	0	22.24	22.0±1	1.0	
			1	2	22.26	22.0±1	1.0	
			1	5	22.25	22.0±1	1.0	
			3	0	22.42	22.0±1	1.0	
			3	2	22.5	22.0±1	1.0	
			3	3	22.45	22.0±1	1.0	
			6	0	21.37	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	23.3	23.0±1	/
				1	8	23.22	23.0±1	/
				1	14	23.21	23.0±1	/
				8	0	22.28	23.0±1	1.0
				8	4	22.37	23.0±1	1.0
				8	7	22.28	23.0±1	1.0
				15	0	22.3	23.0±1	1.0
			16QAM	1	0	22.22	22.0±1	1.0
				1	8	22.22	22.0±1	1.0
				1	14	22.22	22.0±1	1.0
				8	0	21.49	22.0±1	1.0
				8	4	21.54	22.0±1	1.0
				8	7	21.47	22.0±1	1.0
				15	0	21.45	22.0±1	1.0
	26740	819.0	QPSK	1	0	23.34	23.0±1	/
				1	8	23.32	23.0±1	/
				1	14	23.34	23.0±1	/
				8	0	22.4	23.0±1	1.0
				8	4	22.39	23.0±1	1.0
				8	7	22.34	23.0±1	1.0
				15	0	22.42	23.0±1	1.0
			16QAM	1	0	22.83	22.0±1	1.0
				1	8	22.79	22.0±1	1.0
				1	14	22.83	22.0±1	1.0
				8	0	21.54	22.0±1	1.0
				8	4	21.58	22.0±1	1.0
				8	7	21.53	22.0±1	1.0
				15	0	21.5	22.0±1	1.0
	26775	822.5	QPSK	1	0	23.22	23.0±1	/
				1	8	23.22	23.0±1	/
				1	14	23.19	23.0±1	/
				8	0	22.24	23.0±1	1.0
				8	4	22.24	23.0±1	1.0
				8	7	22.21	23.0±1	1.0
				15	0	22.25	23.0±1	1.0
			16QAM	1	0	22.4	22.0±1	1.0
				1	8	22.3	22.0±1	1.0
				1	14	22.31	22.0±1	1.0
				8	0	21.39	22.0±1	1.0
				8	4	21.41	22.0±1	1.0
				8	7	21.38	22.0±1	1.0
				15	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)
5MHz	26715	816.5	QPSK	1	0	23.27	23.0±1	/
				1	12	23.32	23.0±1	/
				1	24	23.31	23.0±1	/
				12	0	22.31	23.0±1	1.0
				12	6	22.43	23.0±1	1.0
				12	13	22.39	23.0±1	1.0
				25	0	22.45	23.0±1	1.0
			16QAM	1	0	22.53	22.0±1	1.0
				1	12	22.57	22.0±1	1.0
				1	24	22.61	22.0±1	1.0
				12	0	21.52	22.0±1	1.0
				12	6	21.66	22.0±1	1.0
				12	13	21.56	22.0±1	1.0
				25	0	21.58	22.0±1	1.0
	26740	819.0	QPSK	1	0	23.28	23.0±1	/
				1	12	23.42	23.0±1	/
				1	24	23.34	23.0±1	/
				12	0	22.43	23.0±1	1.0
				12	6	22.41	23.0±1	1.0
				12	13	22.38	23.0±1	1.0
				25	0	22.37	23.0±1	1.0
			16QAM	1	0	22.86	22.5±1	1.0
				1	12	23.04	22.5±1	1.0
				1	24	22.94	22.5±1	1.0
				12	0	21.66	22.5±1	1.0
				12	6	21.67	22.5±1	1.0
				12	13	21.6	22.5±1	1.0
				25	0	21.61	22.5±1	1.0
	26765	821.5	QPSK	1	0	23.24	23.0±1	/
				1	12	23.27	23.0±1	/
				1	24	23.18	23.0±1	/
				12	0	22.29	23.0±1	1.0
				12	6	22.31	23.0±1	1.0
				12	13	22.25	23.0±1	1.0
				25	0	22.25	23.0±1	1.0
			16QAM	1	0	22.45	22.0±1	1.0
				1	12	22.46	22.0±1	1.0
				1	24	22.42	22.0±1	1.0
				12	0	21.43	22.0±1	1.0
				12	6	21.48	22.0±1	1.0
				12	13	21.38	22.0±1	1.0
				25	0	21.33	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	23.29	23.0±1	/
				1	24	23.37	23.0±1	/
				1	49	23.31	23.0±1	/
				25	0	22.47	23.0±1	1.0
				25	13	22.44	23.0±1	1.0
				25	25	22.39	23.0±1	1.0
				50	0	22.39	23.0±1	1.0
			16QAM	1	0	22.31	22.0±1	1.0
				1	24	22.39	22.0±1	1.0
				1	49	22.25	22.0±1	1.0
				25	0	21.59	22.0±1	1.0
				25	13	21.57	22.0±1	1.0
				25	25	21.53	22.0±1	1.0
				50	0	21.5	22.0±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	23.15	23.0±1	/
				1	2	22.65	23.0±1	/
				1	5	22.62	23.0±1	/
				3	0	23.25	23.0±1	/
				3	2	23.46	23.0±1	/
				3	3	22.22	23.0±1	/
				6	0	21.24	21.0±1	1.0
			16QAM	1	0	22.36	22.0±1	1.0
				1	2	21.89	22.0±1	1.0
				1	5	21.86	22.0±1	1.0
				3	0	22.38	22.0±1	1.0
				3	2	22.63	22.0±1	1.0
				3	3	21.39	22.0±1	1.0
				6	0	20.52	20.0±1	1.0
	26915	836.5	QPSK	1	0	23.1	22.3±1	/
				1	2	22.65	22.3±1	/
				1	5	22.35	22.3±1	/
				3	0	23.19	22.3±1	/
				3	2	23.27	22.3±1	/
				3	3	22.23	22.3±1	/
				6	0	21.38	22.3±1	1.0
			16QAM	1	0	22.36	22.0±1	1.0
				1	2	21.95	22.0±1	1.0
				1	5	21.71	22.0±1	1.0
				3	0	22.38	22.0±1	1.0
				3	2	22.5	22.0±1	1.0
				3	3	21.5	22.0±1	1.0
				6	0	20.41	20.0±1	1.0
	27033	848.3	QPSK	1	0	22.72	22.0±1	/
				1	2	21.85	22.0±1	/
				1	5	21.82	22.0±1	/
				3	0	22.84	22.0±1	/
				3	2	22.82	22.0±1	/
				3	3	21.44	22.0±1	/
				6	0	20.65	20.0±1	1.0
			16QAM	1	0	21.9	21.5±1	1.0
				1	2	21.09	21.5±1	1.0
				1	5	21.05	21.5±1	1.0
				3	0	22.19	21.5±1	1.0
				3	2	22.17	21.5±1	1.0
				3	3	20.81	21.5±1	1.0
				6	0	19.98	20.0±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	22.98	22.0±1	/
				1	8	22.87	22.0±1	/
				1	14	22.54	22.0±1	/
				8	0	21.43	22.0±1	1.0
				8	4	21.73	22.0±1	1.0
				8	7	21.48	22.0±1	1.0
				15	0	21.43	22.0±1	1.0
			16QAM	1	0	22.06	21.5±1	1.0
				1	8	21.98	21.5±1	1.0
				1	14	21.6	21.5±1	1.0
				8	0	20.6	21.5±1	1.0
				8	4	20.92	21.5±1	1.0
				8	7	20.67	21.5±1	1.0
				15	0	20.52	21.5±1	1.0
	26915	836.5	QPSK	1	0	23.3	22.3±1	/
				1	8	22.87	22.3±1	/
				1	14	22.07	22.3±1	/
				8	0	21.69	22.3±1	1.0
				8	4	21.74	22.3±1	1.0
				8	7	21.31	22.3±1	1.0
				15	0	21.49	22.3±1	1.0
			16QAM	1	0	22.62	22.0±1	1.0
				1	8	22.23	22.0±1	1.0
				1	14	21.46	22.0±1	1.0
				8	0	20.86	20.0±1	1.0
				8	4	20.91	20.0±1	1.0
				8	7	20.46	20.0±1	1.0
				15	0	20.57	20.0±1	1.0
	27025	847.5	QPSK	1	0	23.18	23.0±1	/
				1	8	22.7	23.0±1	/
				1	14	21.5	21.0±1	/
				8	0	21.7	21.0±1	1.0
				8	4	21.61	21.0±1	1.0
				8	7	21.01	21.0±1	1.0
				15	0	21.37	21.0±1	1.0
			16QAM	1	0	22.23	22.0±1	1.0
				1	8	21.79	22.0±1	1.0
				1	14	20.65	20.0±1	1.0
				8	0	20.81	20.0±1	1.0
				8	4	20.73	20.0±1	1.0
				8	7	20.14	20.0±1	1.0
				15	0	20.39	20.0±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	22.5±1	/
				1	12	22.5	22.5±1	/
				1	24	23.14	22.5±1	/
				12	0	21.95	22.5±1	1.0
				12	6	22.07	22.5±1	1.0
				12	13	22.15	22.5±1	1.0
				25	0	21.55	22.5±1	1.0
			16QAM	1	0	22.15	21.5±1	1.0
				1	12	21.67	21.5±1	1.0
				1	24	22.33	21.5±1	1.0
				12	0	21.07	21.5±1	1.0
				12	6	21.21	21.5±1	1.0
				12	13	21.26	21.5±1	1.0
				25	0	20.65	21.5±1	1.0
	26915	836.5	QPSK	1	0	23.69	23.0±1	/
				1	12	22.36	23.0±1	/
				1	24	22.27	23.0±1	/
				12	0	22.35	22.0±1	1.0
				12	6	21.98	22.0±1	1.0
				12	13	21.63	22.0±1	1.0
				25	0	21.51	22.0±1	1.0
			16QAM	1	0	23.03	23.0±1	1.0
				1	12	21.81	21.0±1	1.0
				1	24	21.84	21.0±1	1.0
				12	0	21.54	21.0±1	1.0
				12	6	21.18	21.0±1	1.0
				12	13	20.83	21.0±1	1.0
				25	0	20.63	21.0±1	1.0
	27015	846.5	QPSK	1	0	23.47	23.0±1	/
				1	12	22.85	23.0±1	/
				1	24	22.51	23.0±1	/
				12	0	22.48	22.0±1	1.0
				12	6	22.2	22.0±1	1.0
				12	13	22.22	22.0±1	1.0
				25	0	21.69	22.0±1	1.0
			16QAM	1	0	22.67	22.0±1	1.0
				1	12	22.01	22.0±1	1.0
				1	24	21.7	22.0±1	1.0
				12	0	21.55	21.0±1	1.0
				12	6	21.29	21.0±1	1.0
				12	13	21.33	21.0±1	1.0
				25	0	20.74	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	26840	829.0	QPSK	1	0	23.12	23.0±1	/
				1	24	22.97	23.0±1	/
				1	49	23.7	23.0±1	/
				25	0	22.5	22.0±1	1.0
				25	13	22.77	22.0±1	1.0
				25	25	22.64	22.0±1	1.0
				50	0	21.98	22.0±1	1.0
			16QAM	1	0	22.21	22.0±1	1.0
				1	24	22.04	22.0±1	1.0
				1	49	22.72	22.0±1	1.0
				25	0	21.59	22.0±1	1.0
				25	13	21.85	22.0±1	1.0
				25	25	21.71	22.0±1	1.0
				50	0	21.02	22.0±1	1.0
	26915	836..5	QPSK	1	0	24.21	24.0±1	/
				1	24	22.68	22.0±1	/
				1	49	22.31	22.0±1	/
				25	0	22.99	22.0±1	1.0
				25	13	22.42	22.0±1	1.0
				25	25	21.55	22.0±1	1.0
				50	0	21.69	22.0±1	1.0
			16QAM	1	0	23.43	23.0±1	1.0
				1	24	21.99	21.5±1	1.0
				1	49	21.67	21.5±1	1.0
				25	0	22.03	21.5±1	1.0
				25	13	21.48	21.5±1	1.0
				25	25	20.65	21.5±1	1.0
				50	0	20.76	21.5±1	1.0
	26990	844.0	QPSK	1	0	22.51	22.0±1	/
				1	24	22.89	22.0±1	/
				1	49	22.63	22.0±1	/
				25	0	21.85	22.0±1	1.0
				25	13	22.26	22.0±1	1.0
				25	25	22.56	22.0±1	1.0
				50	0	21.5	22.0±1	1.0
			16QAM	1	0	21.58	21.0±1	1.0
				1	24	21.97	21.0±1	1.0
				1	49	21.83	21.0±1	1.0
				25	0	21.1	21.0±1	1.0
				25	13	21.5	21.0±1	1.0
				25	25	21.78	21.0±1	1.0
				50	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)
15MHz	26865	831.5	QPSK	1	0	23.07	22.5±1	/
				1	37	23.11	22.5±1	/
				1	74	22.66	22.5±1	/
				36	0	22.73	22.5±1	1.0
				36	18	23.07	22.5±1	1.0
				36	39	22.76	22.5±1	1.0
				75	0	21.92	22.5±1	1.0
			16QAM	1	0	22.19	22.0±1	1.0
				1	37	22.21	22.0±1	1.0
				1	74	21.8	22.0±1	1.0
				36	0	21.89	22.0±1	1.0
				36	18	22.23	22.0±1	1.0
				36	39	21.81	22.0±1	1.0
				75	0	22.26	22.0±1	1.0
	26915	836.5	QPSK	1	0	23.92	23.0±1	/
				1	37	22.45	23.0±1	/
				1	74	23.15	23.0±1	/
				36	0	23.27	23.0±1	1.0
				36	18	22.7	23.0±1	1.0
				36	39	22	23.0±1	1.0
				75	0	21.78	21.0±1	1.0
			16QAM	1	0	23.32	23.0±1	1.0
				1	37	21.89	22.0±1	1.0
				1	74	22.52	22.0±1	1.0
				36	0	22.33	22.0±1	1.0
				36	18	21.78	22.0±1	1.0
				36	39	21.11	22.0±1	1.0
				75	0	22.71	22.0±1	1.0
	26965	841.5	QPSK	1	0	22.92	22.0±1	/
				1	37	22.01	22.0±1	/
				1	74	22.51	22.0±1	/
				36	0	21.5	22.0±1	1.0
				36	18	21.4	22.0±1	1.0
				36	39	22.37	22.0±1	1.0
				75	0	21.44	22.0±1	1.0
			16QAM	1	0	22.35	22.0±1	1.0
				1	37	21.55	22.0±1	1.0
				1	74	22.03	22.0±1	1.0
				36	0	20.55	20.0±1	1.0
				36	18	20.48	20.0±1	1.0
				36	39	21.43	22.0±1	1.0
				75	0	22.48	22.0±1	1.0

ERP and EIRP**LTE Band 2**

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Part 24E	
			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 – 1.4MHz – QPSK										
1850.70	79.37	100	1.8	H	5.40	5.68	25.20	24.92	33	-8.08
1850.70	79.75	52	2.0	V	6.47	5.68	25.20	25.99	33	-7.01
LTE Band 2 Channel 18900 – 1.4MHz – QPSK										
1880.00	79.21	29	1.2	H	5.36	5.68	25.20	24.88	33	-8.12
1880.00	79.74	21	1.4	V	6.62	5.68	25.20	26.14	33	-6.86
LTE Band 2 Channel 19193 – 1.4MHz – QPSK										
1909.30	79.19	230	1.5	H	5.46	5.96	26.20	25.70	33	-7.30
1909.30	79.10	249	2.3	V	6.14	5.96	26.20	26.38	33	-6.62
LTE Band 2 Channel 18607 – 1.4MHz – 16QAM										
1850.70	79.17	303	1.4	H	5.20	5.68	25.20	24.72	33	-8.28
1850.70	79.14	310	2.2	V	5.86	5.68	25.20	25.38	33	-7.62
LTE Band 2 Channel 18900 – 1.4MHz – 16QAM										
1880.00	79.34	254	1.8	H	5.49	5.68	25.20	25.01	33	-7.99
1880.00	79.01	206	2.4	V	5.89	5.68	25.20	25.41	33	-7.59
LTE Band 2 Channel 19193 – 1.4MHz – 16QAM										
1909.30	79.03	273	1.7	H	5.30	5.96	26.20	25.54	33	-7.46
1909.30	79.02	80	1.6	V	6.06	5.96	26.20	26.30	33	-6.70
LTE Band 2 Channel 18615 – 3MHz – QPSK										
1851.50	79.43	193	1.1	H	5.46	5.68	25.20	24.98	33	-8.02
1851.50	79.61	326	1.7	V	6.33	5.68	25.20	25.85	33	-7.15
LTE Band 2 Channel 18900 – 3MHz – QPSK										
1880.00	79.29	297	2.1	H	5.44	5.68	25.20	24.96	33	-8.04
1880.00	78.99	87	2.0	V	5.87	5.68	25.20	25.39	33	-7.61
LTE Band 2 Channel 19185 – 3MHz – QPSK										
1908.50	79.49	52	1.2	H	5.76	5.96	26.20	26.00	33	-7.00
1908.50	79.10	286	2.0	V	6.14	5.96	26.20	26.38	33	-6.62
LTE Band 2 Channel 18615 – 3MHz – 16QAM										
1851.50	79.23	203	2.2	H	5.26	5.68	25.20	24.78	33	-8.22
1851.50	79.34	310	1.6	V	6.06	5.68	25.20	25.58	33	-7.42
LTE Band 2 Channel 18900 – 3MHz – 16QAM										
1880.00	79.20	281	2.2	H	5.35	5.68	25.20	24.87	33	-8.13
1880.00	79.40	234	2.4	V	6.28	5.68	25.20	25.80	33	-7.20
LTE Band 2 Channel 19185 – 3MHz – 16QAM										
1908.50	79.06	126	1.7	H	5.33	5.96	26.20	25.57	33	-7.43
1908.50	79.11	235	1.7	V	6.15	5.96	26.20	26.39	33	-6.61
LTE Band 2 Channel 18625 – 5MHz – QPSK										
1852.50	78.90	281	2.3	H	4.93	5.68	25.20	24.45	33	-8.55
1852.50	79.50	98	1.8	V	6.22	5.68	25.20	25.74	33	-7.26

LTE Band 2 Channel 18900 – 5MHz – QPSK										
1880.00	79.65	165	2.3	H	5.80	5.68	25.20	25.32	33	-7.68
1880.00	79.20	303	1.8	V	6.08	5.68	25.20	25.60	33	-7.40
LTE Band 2 Channel 19175 – 5MHz – QPSK										
1907.50	79.30	244	1.1	H	5.57	5.96	26.20	25.81	33	-7.19
1907.50	79.08	208	1.9	V	6.12	5.96	26.20	26.36	33	-6.64
LTE Band 2 Channel 18625 – 5MHz – 16QAM										
1852.50	79.44	173	2.2	H	5.47	5.68	25.20	24.99	33	-8.01
1852.50	79.37	150	2.4	V	6.09	5.68	25.20	25.61	33	-7.39
LTE Band 2 Channel 18900 – 5MHz – 16QAM										
1880.00	79.26	175	1.6	H	5.41	5.68	25.20	24.93	33	-8.07
1880.00	79.19	40	2.0	V	6.07	5.68	25.20	25.59	33	-7.41
LTE Band 2 Channel 19175 – 5MHz – 16QAM										
1907.50	79.27	307	1.7	H	5.54	5.96	26.20	25.78	33	-7.22
1907.50	79.00	281	1.3	V	6.04	5.96	26.20	26.28	33	-6.72
LTE Band 2 Channel 18650 – 10MHz – QPSK										
1855.00	79.31	96	1.3	H	5.34	5.68	25.20	24.86	33	-8.14
1855.00	79.42	357	1.7	V	6.14	5.68	25.20	25.66	33	-7.34
LTE Band 2 Channel 18900 – 10MHz – QPSK										
1880.00	79.23	179	2.3	H	5.38	5.68	25.20	24.90	33	-8.10
1880.00	79.51	112	1.2	V	6.39	5.68	25.20	25.91	33	-7.09
LTE Band 2 Channel 19150 – 10MHz – QPSK										
1905.00	79.15	100	1.2	H	5.42	5.96	26.20	25.66	33	-7.34
1905.00	79.22	344	1.5	V	6.26	5.96	26.20	26.50	33	-6.50
LTE Band 2 Channel 18650 – 10MHz – 16QAM										
1855.00	79.57	27	2.0	H	5.60	5.68	25.20	25.12	33	-7.88
1855.00	89.13	252	1.8	V	15.85	0.31	10.40	25.94	33	-7.06
LTE Band 2 Channel 18900 – 10MHz – 16QAM										
1880.00	79.22	292	2.1	H	5.37	5.68	25.20	24.89	33	-8.11
1880.00	79.32	213	2.1	V	6.20	5.68	25.20	25.72	33	-7.28
LTE Band 2 Channel 19150 – 10MHz – 16QAM										
1905.00	78.98	189	1.0	H	5.25	5.96	26.20	25.49	33	-7.51
1905.00	79.38	176	1.1	V	6.42	5.96	26.20	26.66	33	-6.34
LTE Band 2 Channel 18675 – 15MHz – QPSK										
1857.50	79.10	301	2.2	H	5.13	5.68	25.20	24.65	33	-8.35
1857.50	79.52	323	1.8	V	6.24	5.68	25.20	25.76	33	-7.24
LTE Band 2 Channel 18900 – 15MHz – QPSK										
1880.00	79.85	11	1.5	H	6.00	5.68	25.20	25.52	33	-7.48
1880.00	79.22	86	1.5	V	6.10	5.68	25.20	25.62	33	-7.38
LTE Band 2 Channel 19125 – 15MHz – QPSK										
1902.50	79.66	183	2.3	H	5.93	5.96	26.20	26.17	33	-6.83
1902.50	78.93	139	2.1	V	5.97	5.96	26.20	26.21	33	-6.79
LTE Band 2 Channel 18675 – 15MHz – 16QAM										
1857.50	79.30	162	1.4	H	5.33	5.68	25.20	24.85	33	-8.15
1857.50	79.60	155	1.4	V	6.32	5.68	25.20	25.84	33	-7.16

LTE Band 2 Channel 18900 – 15MHz – 16QAM										
1880.00	79.20	347	1.4	H	5.35	5.68	25.20	24.87	33	-8.13
1880.00	79.39	229	1.4	V	6.27	5.68	25.20	25.79	33	-7.21
LTE Band 2 Channel 19125 – 15MHz – 16QAM										
1902.50	79.29	33	1.9	H	5.56	5.96	26.20	25.80	33	-7.20
1902.50	79.01	111	1.8	V	6.05	5.96	26.20	26.29	33	-6.71
LTE Band 2 Channel 18700 – 20MHz – QPSK										
1860.00	79.59	22	2.0	H	5.62	5.68	25.20	25.14	33	-7.86
1860.00	79.08	275	1.1	V	5.80	5.68	25.20	25.32	33	-7.68
LTE Band 2 Channel 18900 – 20MHz – QPSK										
1880.00	79.52	243	2.0	H	5.67	5.68	25.20	25.19	33	-7.81
1880.00	79.22	16	1.2	V	6.10	5.68	25.20	25.62	33	-7.38
LTE Band 2 Channel 19100 – 20MHz – QPSK										
1900.00	79.23	209	1.0	H	5.50	5.96	26.20	25.74	33	-7.26
1900.00	78.97	253	1.5	V	6.01	5.96	26.20	26.25	33	-6.75
LTE Band 2 Channel 18670 – 20MHz – 16QAM										
1860.00	79.57	202	2.2	H	5.60	5.68	25.20	25.12	33	-7.88
1860.00	79.43	235	1.8	V	6.15	5.68	25.20	25.67	33	-7.33
LTE Band 2 Channel 18900 – 20MHz – 16QAM										
1880.00	79.41	78	1.4	H	5.56	5.68	25.20	25.08	33	-7.92
1880.00	79.27	252	1.7	V	6.15	5.68	25.20	25.67	33	-7.33
LTE Band 2 Channel 19100 – 20MHz – 16QAM										
1900.00	79.35	51	1.6	H	5.62	5.96	26.20	25.86	33	-7.14
1900.00	79.21	334	2.2	V	6.25	5.96	26.20	26.49	33	-6.51

LTE Band 4

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Part 27	
			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 – 1.4MHz – QPSK										
1710.70	78.74	214	2.4	H	4.63	5.68	25.20	24.15	30	-5.85
1710.70	78.84	128	1.3	V	5.31	5.68	25.20	24.83	30	-5.17
LTE Band 4 Channel 20175 – 1.4MHz – QPSK										
1732.50	78.32	152	1.2	H	4.21	5.68	25.20	23.73	30	-6.27
1732.50	78.73	237	1.7	V	5.20	5.68	25.20	24.72	30	-5.28
LTE Band 4 Channel 20393 – 1.4MHz – QPSK										
1754.30	78.64	236	1.5	H	4.53	5.68	25.20	24.05	30	-5.95
1754.30	78.97	166	1.6	V	5.44	5.68	25.20	24.96	30	-5.04
LTE Band 4 Channel 19957 – 1.4MHz – 16QAM										
1710.70	78.76	116	1.5	H	4.65	5.68	25.20	24.17	30	-5.83
1710.70	79.08	18	1.4	V	5.55	5.68	25.20	25.07	30	-4.93
LTE Band 4 Channel 20175 – 1.4MHz – 16QAM										
1732.50	78.64	9	1.5	H	4.53	5.68	25.20	24.05	30	-5.95
1732.50	78.62	357	2.1	V	5.09	5.68	25.20	24.61	30	-5.39
LTE Band 4 Channel 20393 – 1.4MHz – 16QAM										
1754.30	78.70	293	2.1	H	4.59	5.68	25.20	24.11	30	-5.89
1754.30	78.76	169	1.3	V	5.23	5.68	25.20	24.75	30	-5.25
LTE Band 4 Channel 19965 – 3MHz – QPSK										
1711.50	78.54	189	2.0	H	4.43	5.68	25.20	23.95	30	-6.05
1711.50	78.51	125	1.9	V	4.98	5.68	25.20	24.50	30	-5.50
LTE Band 4 Channel 20175 – 3MHz – QPSK										
1732.50	78.34	7	1.7	H	4.23	5.68	25.20	23.75	30	-6.25
1732.50	79.03	50	1.5	V	5.50	5.68	25.20	25.02	30	-4.98
LTE Band 4 Channel 20385 – 3MHz – QPSK										
1753.50	78.92	49	2.5	H	4.81	5.68	25.20	24.33	30	-5.67
1753.50	78.75	136	2.3	V	5.22	5.68	25.20	24.74	30	-5.26
LTE Band 4 Channel 19965 – 3MHz – 16QAM										
1711.50	78.70	116	2.4	H	4.59	5.68	25.20	24.11	30	-5.89
1711.50	78.86	183	1.6	V	5.33	5.68	25.20	24.85	30	-5.15
LTE Band 4 Channel 20175 – 3MHz – 16QAM										
1732.50	78.66	262	1.5	H	4.55	5.68	25.20	24.07	30	-5.93
1732.50	78.39	23	1.1	V	4.86	5.68	25.20	24.38	30	-5.62
LTE Band 4 Channel 20385 – 3MHz – 16QAM										
1753.50	78.79	329	2.3	H	4.68	5.68	25.20	24.20	30	-5.80
1753.50	78.53	59	2.0	V	5.00	5.68	25.20	24.52	30	-5.48
LTE Band 4 Channel 19975 – 5MHz – QPSK										
1712.50	79.05	19	2.0	H	4.94	5.68	25.20	24.46	30	-5.54
1712.50	79.08	207	2.3	V	5.55	5.68	25.20	25.07	30	-4.93

LTE Band 4 Channel 20175 – 5MHz – QPSK										
1732.50	78.68	304	1.7	H	4.57	5.68	25.20	24.09	30	-5.91
1732.50	78.80	251	1.8	V	5.27	5.68	25.20	24.79	30	-5.21
LTE Band 4 Channel 20375 – 5MHz – QPSK										
1752.50	79.10	12	1.6	H	4.99	5.68	25.20	24.51	30	-5.49
1752.50	79.73	163	2.5	V	6.20	5.68	25.20	25.72	30	-4.28
LTE Band 4 Channel 19975 – 5MHz – 16QAM										
1712.50	79.62	183	2.2	H	5.51	5.68	25.20	25.03	30	-4.97
1712.50	79.77	98	2.2	V	6.24	5.68	25.20	25.76	30	-4.24
LTE Band 4 Channel 20175 – 5MHz – 16QAM										
1732.50	78.65	99	1.5	H	4.54	5.68	25.20	24.06	30	-5.94
1732.50	78.65	262	1.0	V	5.12	5.68	25.20	24.64	30	-5.36
LTE Band 4 Channel 20375 – 5MHz – 16QAM										
1752.50	78.74	148	2.5	H	4.63	5.68	25.20	24.15	30	-5.85
1752.50	78.58	337	1.4	V	5.05	5.68	25.20	24.57	30	-5.43
LTE Band 4 Channel 20000 – 10MHz – QPSK										
1715.00	78.85	328	2.3	H	4.74	5.68	25.20	24.26	30	-5.74
1715.00	78.68	232	1.7	V	5.15	5.68	25.20	24.67	30	-5.33
LTE Band 4 Channel 20175 – 10MHz – QPSK										
1732.50	78.75	202	1.0	H	4.64	5.68	25.20	24.16	30	-5.84
1732.50	78.98	315	1.9	V	5.45	5.68	25.20	24.97	30	-5.03
LTE Band 4 Channel 20350 – 10MHz – QPSK										
1750.00	78.39	315	2.1	H	4.28	5.68	25.20	23.80	30	-6.20
1750.00	78.56	167	2.3	V	5.03	5.68	25.20	24.55	30	-5.45
LTE Band 4 Channel 20000 – 10MHz – 16QAM										
1715.00	78.65	209	1.1	H	4.54	5.68	25.20	24.06	30	-5.94
1715.00	79.06	267	1.5	V	5.53	5.68	25.20	25.05	30	-4.95
LTE Band 4 Channel 20175 – 10MHz – 16QAM										
1732.50	78.90	304	1.7	H	4.79	5.68	25.20	24.31	30	-5.69
1732.50	78.70	190	2.2	V	5.17	5.68	25.20	24.69	30	-5.31
LTE Band 4 Channel 20350 – 10MHz – 16QAM										
1750.00	78.96	100	2.2	H	4.85	5.68	25.20	24.37	30	-5.63
1750.00	78.85	96	1.1	V	5.32	5.68	25.20	24.84	30	-5.16
LTE Band 4 Channel 20025 – 15MHz – QPSK										
1717.50	78.59	138	1.1	H	4.48	5.68	25.20	24.00	30	-6.00
1717.50	78.50	158	1.7	V	4.97	5.68	25.20	24.49	30	-5.51
LTE Band 4 Channel 20175 – 15MHz – QPSK										
1732.50	78.69	86	1.9	H	4.58	5.68	25.20	24.10	30	-5.90
1732.50	78.71	210	1.5	V	5.18	5.68	25.20	24.70	30	-5.30
LTE Band 4 Channel 20325 – 15MHz – QPSK										
1747.50	79.17	306	1.8	H	5.06	5.68	25.20	24.58	30	-5.42
1747.50	78.64	205	1.0	V	5.11	5.68	25.20	24.63	30	-5.37

LTE Band 4 Channel 20025 – 15MHz – 16QAM										
1717.50	78.96	208	2.1	H	4.85	5.68	25.20	24.37	30	-5.63
1717.50	79.19	272	2.2	V	5.66	5.68	25.20	25.18	30	-4.82
LTE Band 4 Channel 20175 – 15MHz – 16QAM										
1732.50	78.79	214	1.7	H	4.68	5.68	25.20	24.20	30	-5.80
1732.50	78.85	40	1.5	V	5.32	5.68	25.20	24.84	30	-5.16
LTE Band 4 Channel 20325 – 15MHz – 16QAM										
1747.50	78.71	209	1.1	H	4.60	5.68	25.20	24.12	30	-5.88
1747.50	79.23	85	1.9	V	5.70	5.68	25.20	25.22	30	-4.78
LTE Band 4 Channel 20050 – 20MHz – QPSK										
1720.00	79.17	303	2.3	H	5.06	5.68	25.20	24.58	30	-5.42
1720.00	78.82	266	1.3	V	5.29	5.68	25.20	24.81	30	-5.19
LTE Band 4 Channel 20175 – 20MHz – QPSK										
1732.50	78.83	20	1.1	H	4.72	5.68	25.20	24.24	30	-5.76
1732.50	78.41	131	2.5	V	4.88	5.68	25.20	24.40	30	-5.60
LTE Band 4 Channel 20300 – 20MHz – QPSK										
1745.00	79.07	201	2.1	H	4.96	5.68	25.20	24.48	30	-5.52
1745.00	78.94	13	1.2	V	5.41	5.68	25.20	24.93	30	-5.07
LTE Band 4 Channel 20050 – 20MHz – 16QAM										
1720.00	78.58	293	1.3	H	4.47	5.68	25.20	23.99	30	-6.01
1720.00	79.01	300	2.5	V	5.48	5.68	25.20	25.00	30	-5.00
LTE Band 4 Channel 20175 – 20MHz – 16QAM										
1732.50	78.91	41	1.7	H	4.80	5.68	25.20	24.32	30	-5.68
1732.50	78.43	354	1.6	V	4.90	5.68	25.20	24.42	30	-5.58
LTE Band 4 Channel 20300 – 20MHz – 16QAM										
1745.00	79.03	50	1.8	H	4.92	5.68	25.20	24.44	30	-5.56
1745.00	78.97	90	2.3	V	5.44	5.68	25.20	24.96	30	-5.04

LTE Band 5

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Part 22H	
			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 – 1.4MHz – QPSK										
824.70	72.01	200	2.4	H	4.90	3.60	22.00	23.30	38.45	-15.15
824.70	71.97	112	2.0	V	4.44	3.60	22.00	22.84	38.45	-15.61
LTE Band 5 Channel 20525 – 1.4MHz – QPSK										
836.50	72.09	3	1.6	H	4.98	3.94	22.60	23.64	38.45	-14.81
836.50	72.25	72	1.3	V	4.72	3.94	22.60	23.38	38.45	-15.07
LTE Band 5 Channel 20643 – 1.4MHz – QPSK										
848.30	72.06	85	1.5	H	4.95	3.94	22.60	23.61	38.45	-14.84
848.30	71.73	43	2.1	V	4.20	3.94	22.60	22.86	38.45	-15.59
LTE Band 5 Channel 20407 – 1.4MHz – 16QAM										
824.70	72.15	17	1.5	H	5.04	3.60	22.00	23.44	38.45	-15.01
824.70	71.78	101	1.9	V	4.25	3.60	22.00	22.65	38.45	-15.80
LTE Band 5 Channel 20525 – 1.4MHz – 16QAM										
836.50	71.84	209	1.1	H	4.73	3.94	22.60	23.39	38.45	-15.06
836.50	72.21	53	1.5	V	4.68	3.94	22.60	23.34	38.45	-15.11
LTE Band 5 Channel 20643 – 1.4MHz – 16QAM										
848.30	72.07	20	1.4	H	4.96	3.94	22.60	23.62	38.45	-14.83
848.30	71.84	51	1.4	V	4.31	3.94	22.60	22.97	38.45	-15.48
LTE Band 5 Channel 20415 – 3MHz – QPSK										
825.50	72.01	42	2.3	H	4.90	3.60	22.00	23.30	38.45	-15.15
825.50	72.10	28	1.7	V	4.57	3.60	22.00	22.97	38.45	-15.48
LTE Band 5 Channel 20525 – 3MHz – QPSK										
836.50	71.74	211	2.2	H	4.63	3.94	22.60	23.29	38.45	-15.16
836.50	72.25	289	1.5	V	4.72	3.94	22.60	23.38	38.45	-15.07
LTE Band 5 Channel 20635 – 3MHz – QPSK										
847.50	72.23	112	2.0	H	5.12	3.94	22.60	23.78	38.45	-14.67
847.50	71.90	315	1.7	V	4.37	3.94	22.60	23.03	38.45	-15.42
LTE Band 5 Channel 20415 – 3MHz – 16QAM										
825.50	72.23	25	1.6	H	5.12	3.60	22.00	23.52	38.45	-14.93
825.50	71.94	61	1.4	V	4.41	3.60	22.00	22.81	38.45	-15.64
LTE Band 5 Channel 20525 – 3MHz – 16QAM										
836.50	71.60	238	2.0	H	4.49	3.94	22.60	23.15	38.45	-15.30
836.50	72.15	143	2.0	V	4.62	3.94	22.60	23.28	38.45	-15.17
LTE Band 5 Channel 20635 – 3MHz – 16QAM										
847.50	71.93	12	1.2	H	4.82	3.94	22.60	23.48	38.45	-14.97
847.50	71.84	246	2.2	V	4.31	3.94	22.60	22.97	38.45	-15.48
LTE Band 5 Channel 20425 – 5MHz – QPSK										
826.50	72.03	161	2.2	H	4.92	3.60	22.00	23.32	38.45	-15.13
826.50	71.67	326	2.1	V	4.14	3.60	22.00	22.54	38.45	-15.91

LTE Band 5 Channel 20525 – 5MHz – QPSK										
836.50	71.90	215	1.4	H	4.79	3.94	22.60	23.45	38.45	-15.00
836.50	71.81	65	1.6	V	4.28	3.94	22.60	22.94	38.45	-15.51
LTE Band 5 Channel 20625 – 5MHz – QPSK										
846.50	72.01	254	2.4	H	4.90	3.94	22.60	23.56	38.45	-14.89
846.50	72.04	156	1.8	V	4.51	3.94	22.60	23.17	38.45	-15.28
LTE Band 5 Channel 20425 – 5MHz – 16QAM										
826.50	72.05	191	1.8	H	4.94	3.60	22.00	23.34	38.45	-15.11
826.50	72.16	125	2.0	V	4.63	3.60	22.00	23.03	38.45	-15.42
LTE Band 5 Channel 20525 – 5MHz – 16QAM										
836.50	72.02	181	1.0	H	4.91	3.94	22.60	23.57	38.45	-14.88
836.50	71.55	211	1.2	V	4.02	3.94	22.60	22.68	38.45	-15.77
LTE Band 5 Channel 20625 – 5MHz – 16QAM										
846.50	72.04	140	2.3	H	4.93	3.94	22.60	23.59	38.45	-14.86
846.50	71.99	238	1.1	V	4.46	3.94	22.60	23.12	38.45	-15.33
LTE Band 5 Channel 20450 – 10MHz – QPSK										
829.00	71.92	65	2.2	H	4.81	3.60	22.00	23.21	38.45	-15.24
829.00	72.14	309	2.5	V	4.61	3.60	22.00	23.01	38.45	-15.44
LTE Band 5 Channel 20525 – 10MHz – QPSK										
836.50	71.92	223	2.3	H	4.81	3.94	22.60	23.47	38.45	-14.98
836.50	71.81	78	1.7	V	4.28	3.94	22.60	22.94	38.45	-15.51
LTE Band 5 Channel 20600 – 10MHz – QPSK										
844.00	72.04	221	1.3	H	4.93	3.94	22.60	23.59	38.45	-14.86
844.00	71.64	80	1.3	V	4.11	3.94	22.60	22.77	38.45	-15.68
LTE Band 5 Channel 20450 – 10MHz – 16QAM										
829.00	71.67	67	1.6	H	4.56	3.60	22.00	22.96	38.45	-15.49
829.00	71.72	266	1.9	V	4.19	3.60	22.00	22.59	38.45	-15.86
LTE Band 5 Channel 20525 – 10MHz – 16QAM										
836.50	71.84	349	2.4	H	4.73	3.94	22.60	23.39	38.45	-15.06
836.50	71.70	116	1.9	V	4.17	3.94	22.60	22.83	38.45	-15.62
LTE Band 5 Channel 20600 – 10MHz – 16QAM										
844.00	71.63	135	1.7	H	4.52	3.94	22.60	23.18	38.45	-15.27
844.00	72.03	189	1.3	V	4.50	3.94	22.60	23.16	38.45	-15.29

LTE Band 12

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Part 27	
			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 – 1.4MHz – QPSK										
699.70	77.58	101	1.7	H	6.58	3.44	20.50	23.64	34.77	-11.13
699.70	77.22	225	1.5	V	4.94	3.44	20.50	22.00	34.77	-12.77
LTE Band 12 Channel 23095 – 1.4MHz – QPSK										
707.50	77.58	301	2.3	H	6.58	3.44	20.50	23.64	34.77	-11.13
707.50	77.60	243	1.8	V	5.32	3.44	20.50	22.38	34.77	-12.39
LTE Band 12 Channel 23173 – 1.4MHz – QPSK										
715.30	77.73	84	2.5	H	6.73	3.44	20.50	23.79	34.77	-10.98
715.30	77.36	354	1.8	V	5.08	3.44	20.50	22.14	34.77	-12.63
LTE Band 12 Channel 23017 – 1.4MHz – 16QAM										
699.70	77.59	256	2.5	H	6.59	3.44	20.50	23.65	34.77	-11.12
699.70	77.69	344	2.2	V	5.41	3.44	20.50	22.47	34.77	-12.30
LTE Band 12 Channel 23095 – 1.4MHz – 16QAM										
707.50	77.39	221	1.0	H	6.39	3.44	20.50	23.45	34.77	-11.32
707.50	77.51	190	1.3	V	5.23	3.44	20.50	22.29	34.77	-12.48
LTE Band 12 Channel 23173 – 1.4MHz – 16QAM										
715.30	77.37	232	2.3	H	6.37	3.44	20.50	23.43	34.77	-11.34
715.30	77.72	284	1.4	V	5.44	3.44	20.50	22.50	34.77	-12.27
LTE Band 12 Channel 23025 – 3MHz – QPSK										
700.50	77.94	150	2.4	H	6.94	3.44	20.50	24.00	34.77	-10.77
700.50	77.79	3	2.3	V	5.51	3.44	20.50	22.57	34.77	-12.20
LTE Band 12 Channel 23095 – 3MHz – QPSK										
707.50	77.67	343	1.8	H	6.67	3.44	20.50	23.73	34.77	-11.04
707.50	77.59	145	2.2	V	5.31	3.44	20.50	22.37	34.77	-12.40
LTE Band 12 Channel 23165 – 3MHz – QPSK										
714.50	77.33	98	2.3	H	6.33	3.44	20.50	23.39	34.77	-11.38
714.50	77.98	280	2.0	V	5.70	3.44	20.50	22.76	34.77	-12.01
LTE Band 12 Channel 23025 – 3MHz – 16QAM										
700.50	77.43	220	2.1	H	6.43	3.44	20.50	23.49	34.77	-11.28
700.50	77.57	55	2.0	V	5.29	3.44	20.50	22.35	34.77	-12.42
LTE Band 12 Channel 23095 – 3MHz – 16QAM										
707.50	77.54	342	2.2	H	6.54	3.44	20.50	23.60	34.77	-11.17
707.50	77.79	343	1.7	V	5.51	3.44	20.50	22.57	34.77	-12.20
LTE Band 12 Channel 23165 – 3MHz – 16QAM										
714.50	78.30	155	1.6	H	7.30	3.44	20.50	24.36	34.77	-10.41
714.50	77.76	262	2.1	V	5.48	3.44	20.50	22.54	34.77	-12.23
LTE Band 12 Channel 23035 – 5MHz – QPSK										
701.50	77.64	218	2.5	H	6.64	3.44	20.50	23.70	34.77	-11.07
701.50	77.22	67	1.7	V	4.94	3.44	20.50	22.00	34.77	-12.77

LTE Band 12 Channel 23095 – 5MHz – QPSK										
707.50	77.57	265	1.1	H	6.57	3.44	20.50	23.63	34.77	-11.14
707.50	77.81	302	1.7	V	5.53	3.44	20.50	22.59	34.77	-12.18
LTE Band 12 Channel 23155 – 5MHz – QPSK										
713.50	77.62	274	1.1	H	6.62	3.44	20.50	23.68	34.77	-11.09
713.50	77.61	227	1.3	V	5.33	3.44	20.50	22.39	34.77	-12.38
LTE Band 12 Channel 23035 – 5MHz – 16QAM										
701.50	77.41	306	1.5	H	6.41	3.44	20.50	23.47	34.77	-11.30
701.50	77.75	306	1.1	V	5.47	3.44	20.50	22.53	34.77	-12.24
LTE Band 12 Channel 23095 – 5MHz – 16QAM										
707.50	77.84	216	1.4	H	6.84	3.44	20.50	23.90	34.77	-10.87
707.50	77.19	258	2.4	V	4.91	3.44	20.50	21.97	34.77	-12.80
LTE Band 12 Channel 23155 – 5MHz – 16QAM										
713.50	77.15	198	2.1	H	6.15	3.44	20.50	23.21	34.77	-11.56
713.50	77.73	20	1.5	V	5.45	3.44	20.50	22.51	34.77	-12.26
LTE Band 12 Channel 23060 – 10MHz – QPSK										
704.00	77.80	178	1.3	H	6.80	3.44	20.50	23.86	34.77	-10.91
704.00	77.53	79	1.1	V	5.25	3.44	20.50	22.31	34.77	-12.46
LTE Band 12 Channel 23095 – 10MHz – QPSK										
707.50	78.27	354	1.6	H	7.27	3.44	20.50	24.33	34.77	-10.44
707.50	77.93	236	1.8	V	5.65	3.44	20.50	22.71	34.77	-12.06
LTE Band 12 Channel 23130 – 10MHz – QPSK										
711.00	77.65	170	1.1	H	6.65	3.44	20.50	23.71	34.77	-11.06
711.00	77.62	106	2.4	V	5.34	3.44	20.50	22.40	34.77	-12.37
LTE Band 12 Channel 23060 – 10MHz – 16QAM										
704.00	77.70	68	2.3	H	6.70	3.44	20.50	23.76	34.77	-11.01
704.00	77.66	188	1.5	V	5.38	3.44	20.50	22.44	34.77	-12.33
LTE Band 12 Channel 23095 – 10MHz – 16QAM										
707.50	77.93	162	1.7	H	6.93	3.44	20.50	23.99	34.77	-10.78
707.50	77.42	47	1.3	V	5.14	3.44	20.50	22.20	34.77	-12.57
LTE Band 12 Channel 23130 – 10MHz – 16QAM										
711.00	77.55	283	1.1	H	6.55	3.44	20.50	23.61	34.77	-11.16
711.00	77.63	360	1.1	V	5.35	3.44	20.50	22.41	34.77	-12.36

LTE Band 13

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Part 27	
			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 – 5MHz – QPSK										
779.50	76.41	105	1.8	H	5.41	3.60	22.00	23.81	34.77	-10.96
779.50	77.27	303	1.9	V	4.99	3.60	22.00	23.39	34.77	-11.38
LTE Band 13 Channel 23230 – 5MHz – QPSK										
782.00	76.37	80	1.2	H	5.37	3.60	22.00	23.77	34.77	-11.00
782.00	76.55	201	2.3	V	4.27	3.60	22.00	22.67	34.77	-12.10
LTE Band 13 Channel 23255 – 5MHz – QPSK										
784.50	76.20	331	2.0	H	5.20	3.60	22.00	23.60	34.77	-11.17
784.50	76.40	289	2.0	V	4.12	3.60	22.00	22.52	34.77	-12.25
LTE Band 13 Channel 23205 – 5MHz – 16QAM										
779.50	76.62	50	1.1	H	5.62	3.60	22.00	24.02	34.77	-10.75
779.50	76.43	306	2.3	V	4.15	3.60	22.00	22.55	34.77	-12.22
LTE Band 13 Channel 23230 – 5MHz – 16QAM										
782.00	76.09	97	2.3	H	5.09	3.60	22.00	23.49	34.77	-11.28
782.00	76.85	131	2.3	V	4.57	3.60	22.00	22.97	34.77	-11.80
LTE Band 13 Channel 23255 – 5MHz – 16QAM										
784.50	76.39	164	2.0	H	5.39	3.60	22.00	23.79	34.77	-10.98
784.50	76.25	345	2.0	V	3.97	3.60	22.00	22.37	34.77	-12.40
LTE Band 13 Channel 23230 – 10MHz – QPSK										
782.00	76.45	77	2.2	H	5.45	3.60	22.00	23.85	34.77	-10.92
782.00	76.52	10	1.8	V	4.24	3.60	22.00	22.64	34.77	-12.13
LTE Band 13 Channel 23230 – 10MHz – 16QAM										
782.00	76.27	313	1.5	H	5.27	3.60	22.00	23.67	34.77	-11.10
782.00	76.36	327	1.4	V	4.08	3.60	22.00	22.48	34.77	-12.29

LTE Band 25

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Part 27	
			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 – 1.4MHz – QPSK										
1850.70	80.51	72	2.3	H	6.54	5.68	25.20	26.06	33	-6.94
1850.70	80.42	84	1.2	V	7.14	5.68	25.20	26.66	33	-6.34
LTE Band 25 Channel 26365 – 1.4MHz – QPSK										
1882.50	80.36	19	1.8	H	6.51	5.68	25.20	26.03	33	-6.97
1882.50	80.44	104	2.2	V	7.32	5.68	25.20	26.84	33	-6.16
LTE Band 25 Channel 26683 – 1.4MHz – QPSK										
1914.30	80.64	255	2.0	H	6.91	5.96	26.20	27.15	33	-5.85
1914.30	80.23	82	2.0	V	7.27	5.96	26.20	27.51	33	-5.49
LTE Band 25 Channel 26047 – 1.4MHz – 16QAM										
1850.70	80.43	235	1.1	H	6.46	5.68	25.20	25.98	33	-7.02
1850.70	80.34	224	1.5	V	7.06	5.68	25.20	26.58	33	-6.42
LTE Band 25 Channel 26365 – 1.4MHz – 16QAM										
1882.50	80.57	183	1.0	H	6.72	5.68	25.20	26.24	33	-6.76
1882.50	80.59	250	1.8	V	7.47	5.68	25.20	26.99	33	-6.01
LTE Band 25 Channel 26683 – 1.4MHz – 16QAM										
1914.30	80.17	201	2.2	H	6.44	5.96	26.20	26.68	33	-6.32
1914.30	80.11	209	2.4	V	7.15	5.96	26.20	27.39	33	-5.61
LTE Band 25 Channel 26055 – 3MHz – QPSK										
1851.50	80.53	171	2.5	H	6.56	5.68	25.20	26.08	33	-6.92
1851.50	80.54	159	2.1	V	7.26	5.68	25.20	26.78	33	-6.22
LTE Band 25 Channel 26365 – 3MHz – QPSK										
1882.50	80.45	66	1.7	H	6.60	5.68	25.20	26.12	33	-6.88
1882.50	80.93	13	1.9	V	7.81	5.68	25.20	27.33	33	-5.67
LTE Band 25 Channel 26675 – 3MHz – QPSK										
1913.50	80.55	235	1.9	H	6.82	5.96	26.20	27.06	33	-5.94
1913.50	80.24	114	1.2	V	7.28	5.96	26.20	27.52	33	-5.48
LTE Band 25 Channel 26055 – 3MHz – 16QAM										
1851.50	80.36	20	1.5	H	6.39	5.68	25.20	25.91	33	-7.09
1851.50	80.40	295	2.1	V	7.12	5.68	25.20	26.64	33	-6.36
LTE Band 25 Channel 26365 – 3MHz – 16QAM										
1882.50	80.54	52	1.0	H	6.69	5.68	25.20	26.21	33	-6.79
1882.50	80.49	48	1.9	V	7.37	5.68	25.20	26.89	33	-6.11
LTE Band 25 Channel 26675 – 3MHz – 16QAM										
1913.50	80.35	162	1.9	H	6.62	5.96	26.20	26.86	33	-6.14
1913.50	80.25	263	1.1	V	7.29	5.96	26.20	27.53	33	-5.47
LTE Band 25 Channel 26065 – 5MHz – QPSK										
1852.50	80.42	85	1.5	H	6.45	5.68	25.20	25.97	33	-7.03
1852.50	80.16	103	2.1	V	6.88	5.68	25.20	26.40	33	-6.60

LTE Band 25 Channel 26365 – 5MHz – QPSK										
1882.50	80.51	357	1.6	H	6.66	5.68	25.20	26.18	33	-6.82
1882.50	80.58	191	1.2	V	7.46	5.68	25.20	26.98	33	-6.02
LTE Band 25 Channel 26665 – 5MHz – QPSK										
1912.50	80.65	35	1.7	H	6.92	5.96	26.20	27.16	33	-5.84
1912.50	80.27	322	1.9	V	7.31	5.96	26.20	27.55	33	-5.45
LTE Band 25 Channel 26065 – 5MHz – 16QAM										
1852.50	80.19	213	2.0	H	6.22	5.68	25.20	25.74	33	-7.26
1852.50	80.47	37	1.8	V	7.19	5.68	25.20	26.71	33	-6.29
LTE Band 25 Channel 26365 – 5MHz – 16QAM										
1882.50	80.48	19	2.2	H	6.63	5.68	25.20	26.15	33	-6.85
1882.50	80.71	25	1.2	V	7.59	5.68	25.20	27.11	33	-5.89
LTE Band 25 Channel 26665 – 5MHz – 16QAM										
1912.50	80.77	331	2.0	H	7.04	5.96	26.20	27.28	33	-5.72
1912.50	80.27	3	2.4	V	7.31	5.96	26.20	27.55	33	-5.45
LTE Band 25 Channel 26090 – 10MHz – QPSK										
1855.00	80.32	291	2.1	H	6.35	5.68	25.20	25.87	33	-7.13
1855.00	80.46	246	1.1	V	7.18	5.68	25.20	26.70	33	-6.30
LTE Band 25 Channel 26365 – 10MHz – QPSK										
1882.50	80.45	205	1.3	H	6.60	5.68	25.20	26.12	33	-6.88
1882.50	81.19	230	2.3	V	8.07	5.68	25.20	27.59	33	-5.41
LTE Band 25 Channel 26640 – 10MHz – QPSK										
1910.00	80.20	23	1.0	H	6.47	5.96	26.20	26.71	33	-6.29
1910.00	80.15	26	1.7	V	7.19	5.96	26.20	27.43	33	-5.57
LTE Band 25 Channel 26090 – 10MHz – 16QAM										
1855.00	80.59	205	1.3	H	6.62	5.68	25.20	26.14	33	-6.86
1855.00	80.48	147	1.2	V	7.20	5.68	25.20	26.72	33	-6.28
LTE Band 25 Channel 26365 – 10MHz – 16QAM										
1882.50	80.60	234	1.8	H	6.75	5.68	25.20	26.27	33	-6.73
1882.50	80.82	182	1.3	V	7.70	5.68	25.20	27.22	33	-5.78
LTE Band 25 Channel 26640 – 10MHz – 16QAM										
1910.00	80.36	215	1.0	H	6.63	5.96	26.20	26.87	33	-6.13
1910.00	80.25	203	1.3	V	7.29	5.96	26.20	27.53	33	-5.47
LTE Band 25 Channel 26115 – 15MHz – QPSK										
1857.50	80.62	237	2.2	H	6.65	5.68	25.20	26.17	33	-6.83
1857.50	80.50	287	2.1	V	7.22	5.68	25.20	26.74	33	-6.26
LTE Band 25 Channel 26365 – 15MHz – QPSK										
1882.50	80.54	168	2.4	H	6.69	5.68	25.20	26.21	33	-6.79
1882.50	80.17	314	2.0	V	7.05	5.68	25.20	26.57	33	-6.43
LTE Band 25 Channel 26615 – 15MHz – QPSK										
1907.50	80.34	330	2.1	H	6.61	5.96	26.20	26.85	33	-6.15
1907.50	80.24	298	1.8	V	7.28	5.96	26.20	27.52	33	-5.48

LTE Band 25 Channel 26115 – 15MHz – 16QAM										
1857.50	80.39	38	1.6	H	6.42	5.68	25.20	25.94	33	-7.06
1857.50	80.61	225	1.8	V	7.33	5.68	25.20	26.85	33	-6.15
LTE Band 25 Channel 26365 – 15MHz – 16QAM										
1882.50	80.10	45	2.2	H	6.25	5.68	25.20	25.77	33	-7.23
1882.50	80.37	141	2.2	V	7.25	5.68	25.20	26.77	33	-6.23
LTE Band 25 Channel 26615 – 15MHz – 16QAM										
1907.50	80.04	93	1.2	H	6.19	5.96	26.20	26.43	33	-6.57
1907.50	80.83	130	1.8	V	7.71	5.96	26.20	27.95	33	-5.05
LTE Band 25 Channel 26140 – 20MHz – QPSK										
1860.00	80.30	176	1.7	H	6.33	5.68	25.20	25.85	33	-7.15
1860.00	80.28	293	2.3	V	7.00	5.68	25.20	26.52	33	-6.48
LTE Band 25 Channel 26365 – 20MHz – QPSK										
1882.50	80.19	321	1.9	H	6.34	5.68	25.20	25.86	33	-7.14
1882.50	80.72	259	1.0	V	7.60	5.68	25.20	27.12	33	-5.88
LTE Band 25 Channel 26590 – 20MHz – QPSK										
1905.00	80.25	3	2.1	H	6.52	5.96	26.20	26.76	33	-6.24
1905.00	80.09	252	1.8	V	7.13	5.96	26.20	27.37	33	-5.63
LTE Band 25 Channel 26140 – 20MHz – 16QAM										
1860.00	80.76	353	2.2	H	6.79	5.68	25.20	26.31	33	-6.69
1860.00	80.84	229	1.1	V	7.56	5.68	25.20	27.08	33	-5.92
LTE Band 25 Channel 263655 – 20MHz – 16QAM										
1882.50	80.26	190	2.1	H	6.41	5.68	25.20	25.93	33	-7.07
1882.50	80.11	5	1.1	V	6.99	5.68	25.20	26.51	33	-6.49
LTE Band 25 Channel 26590 – 20MHz – 16QAM										
1905.00	80.26	307	2.2	H	6.53	5.96	26.20	26.77	33	-6.23
1905.00	80.08	211	2.2	V	7.12	5.96	26.20	27.36	33	-5.64

LTE Band 26(Part 90)

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Part 90	
			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 – 1.4MHz – QPSK										
814.70	71.23	192	2.4	H	4.12	3.60	22.00	22.52	38.45	-15.93
814.70	72.88	226	2.0	V	5.35	3.60	22.00	23.75	38.45	-14.70
LTE Band 26 Channel 26740 – 1.4MHz – QPSK										
819.00	72.23	289	2.3	H	5.12	3.60	22.00	23.52	38.45	-14.93
819.00	71.68	295	2.1	V	4.15	3.60	22.00	22.55	38.45	-15.90
LTE Band 26 Channel 26783 – 1.4MHz – QPSK										
823.30	73.40	129	2.3	H	6.29	3.60	22.00	24.69	38.45	-13.76
823.30	69.76	246	2.2	V	2.23	3.60	22.00	20.63	38.45	-17.82
LTE Band 26 Channel 26697 – 1.4MHz – 16QAM										
814.70	72.39	91	1.2	H	5.28	3.60	22.00	23.68	38.45	-14.77
814.70	71.67	328	1.3	V	4.14	3.60	22.00	22.54	38.45	-15.91
LTE Band 26 Channel 26740 – 1.4MHz – 16QAM										
819.00	72.03	65	1.6	H	4.92	3.60	22.00	23.32	38.45	-15.13
819.00	70.49	122	1.3	V	2.96	3.60	22.00	21.36	38.45	-17.09
LTE Band 26 Channel 26783 – 1.4MHz – 16QAM										
823.30	72.54	59	2.0	H	5.43	3.60	22.00	23.83	38.45	-14.62
823.30	71.41	46	2.0	V	3.88	3.60	22.00	22.28	38.45	-16.17
LTE Band 26 Channel 26705 – 3MHz – QPSK										
815.50	72.19	182	2.1	H	5.08	3.60	22.00	23.48	38.45	-14.97
815.50	72.26	75	2.2	V	4.73	3.60	22.00	23.13	38.45	-15.32
LTE Band 26 Channel 26740 – 3MHz – QPSK										
819.00	73.23	138	2.4	H	6.12	3.60	22.00	24.52	38.45	-13.93
819.00	70.39	266	1.1	V	2.86	3.60	22.00	21.26	38.45	-17.19
LTE Band 26 Channel 26775 – 3MHz – QPSK										
822.50	71.91	178	1.7	H	4.80	3.60	22.00	23.20	38.45	-15.25
822.50	72.75	229	1.2	V	5.22	3.60	22.00	23.62	38.45	-14.83
LTE Band 26 Channel 26705 – 3MHz – 16QAM										
815.50	72.32	294	1.9	H	5.21	3.60	22.00	23.61	38.45	-14.84
815.50	71.66	347	1.6	V	4.13	3.60	22.00	22.53	38.45	-15.92
LTE Band 26 Channel 26740 – 3MHz – 16QAM										
819.00	72.58	7	2.3	H	5.47	3.60	22.00	23.87	38.45	-14.58
819.00	71.11	162	1.2	V	3.58	3.60	22.00	21.98	38.45	-16.47
LTE Band 26 Channel 26775 – 3MHz – 16QAM										
822.50	71.28	154	2.1	H	4.17	3.60	22.00	22.57	38.45	-15.88
822.50	71.17	90	2.3	V	3.64	3.60	22.00	22.04	38.45	-16.41

LTE Band 26 Channel 26715 – 5MHz – QPSK										
816.50	72.74	85	1.7	H	5.63	3.60	22.00	24.03	38.45	-14.42
816.50	74.44	270	2.0	V	6.91	3.60	22.00	25.31	38.45	-13.14
LTE Band 26 Channel 26740 – 5MHz – QPSK										
819.00	72.77	148	1.8	H	5.66	3.60	22.00	24.06	38.45	-14.39
819.00	69.73	41	2.5	V	2.20	3.60	22.00	20.60	38.45	-17.85
LTE Band 26 Channel 26765 – 5MHz – QPSK										
821.50	73.18	202	1.4	H	6.07	3.60	22.00	24.47	38.45	-13.98
821.50	70.32	50	2.0	V	2.79	3.60	22.00	21.19	38.45	-17.26
LTE Band 26 Channel 26715 – 5MHz – 16QAM										
816.50	73.00	289	1.2	H	5.89	3.60	22.00	24.29	38.45	-14.16
816.50	71.81	9	1.1	V	4.28	3.60	22.00	22.68	38.45	-15.77
LTE Band 26 Channel 26740 – 5MHz – 16QAM										
819.00	70.06	1	2.2	H	2.95	3.60	22.00	21.35	38.45	-17.10
819.00	74.51	95	2.1	V	6.98	3.60	22.00	25.38	38.45	-13.07
LTE Band 26 Channel 26765 – 5MHz – 16QAM										
821.50	73.32	118	2.0	H	6.21	3.60	22.00	24.61	38.45	-13.84
821.50	70.65	286	1.2	V	3.12	3.60	22.00	21.52	38.45	-16.93
LTE Band 26 Channel 26740 – 10MHz – QPSK										
819.00	70.60	78	1.3	H	3.49	3.60	22.00	21.89	38.45	-16.56
819.00	72.70	331	1.9	V	5.17	3.60	22.00	23.57	38.45	-14.88
LTE Band 26 Channel 26740 – 10MHz – 16QAM										
819.00	71.64	201	1.4	H	4.53	3.60	22.00	22.93	38.45	-15.52
819.00	72.76	94	1.3	V	5.23	3.60	22.00	23.63	38.45	-14.82

LTE Band 26(Part 22)

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Part 90	
			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 – 1.4MHz – QPSK										
824.70	70.01	73	1.6	H	2.90	3.60	22.00	21.30	38.45	-17.15
824.70	72.65	340	1.5	V	5.12	3.60	22.00	23.52	38.45	-14.93
LTE Band 26 Channel 26915 – 1.4MHz – QPSK										
836.50	69.69	163	2.2	H	2.58	3.94	22.60	21.24	38.45	-17.21
836.50	71.80	229	1.8	V	4.27	3.94	22.60	22.93	38.45	-15.52
LTE Band 26 Channel 27033 – 1.4MHz – QPSK										
848.30	69.94	126	2.3	H	2.83	3.94	22.60	21.49	38.45	-16.96
848.30	72.69	356	1.4	V	5.16	3.94	22.60	23.82	38.45	-14.63
LTE Band 26 Channel 26797 – 1.4MHz – 16QAM										
824.70	70.50	102	1.1	H	3.39	3.60	22.00	21.79	38.45	-16.66
824.70	72.78	280	1.9	V	5.25	3.60	22.00	23.65	38.45	-14.80
LTE Band 26 Channel 26915 – 1.4MHz – 16QAM										
836.50	69.88	317	2.4	H	2.77	3.94	22.60	21.43	38.45	-17.02
836.50	71.57	338	1.2	V	4.04	3.94	22.60	22.70	38.45	-15.75
LTE Band 26 Channel 27033 – 1.4MHz – 16QAM										
848.30	69.63	199	1.1	H	2.52	3.94	22.60	21.18	38.45	-17.27
848.30	72.90	9	1.4	V	5.37	3.94	22.60	24.03	38.45	-14.42
LTE Band 26 Channel 26805 – 3MHz – QPSK										
825.50	69.93	252	1.1	H	2.82	3.60	22.00	21.22	38.45	-17.23
825.50	73.24	181	2.1	V	5.71	3.60	22.00	24.11	38.45	-14.34
LTE Band 26 Channel 26915 – 3MHz – QPSK										
836.50	69.87	315	1.6	H	2.76	3.94	22.60	21.42	38.45	-17.03
836.50	72.69	273	1.6	V	5.16	3.94	22.60	23.82	38.45	-14.63
LTE Band 26 Channel 27025 – 3MHz – QPSK										
847.50	69.58	99	2.4	H	2.47	3.94	22.60	21.13	38.45	-17.32
847.50	72.90	78	1.8	V	5.37	3.94	22.60	24.03	38.45	-14.42
LTE Band 26 Channel 26805 – 3MHz – 16QAM										
825.50	69.92	198	1.5	H	2.81	3.60	22.00	21.21	38.45	-17.24
825.50	71.98	134	2.1	V	4.45	3.60	22.00	22.85	38.45	-15.60
LTE Band 26 Channel 26915 – 3MHz – 16QAM										
836.50	69.80	299	2.2	H	2.69	3.94	22.60	21.35	38.45	-17.10
836.50	72.78	359	1.9	V	5.25	3.94	22.60	23.91	38.45	-14.54
LTE Band 26 Channel 27025 – 3MHz – 16QAM										
847.50	69.64	259	1.4	H	2.53	3.94	22.60	21.19	38.45	-17.26
847.50	72.08	210	2.1	V	4.55	3.94	22.60	23.21	38.45	-15.24

LTE Band 26 Channel 26815 – 5MHz – QPSK										
826.50	72.97	329	1.3	H	5.86	3.60	22.00	24.26	38.45	-14.19
826.50	75.37	310	1.8	V	7.84	3.60	22.00	26.24	38.45	-12.21
LTE Band 26 Channel 26915 – 5MHz – QPSK										
836.50	69.77	175	1.5	H	2.66	3.94	22.60	21.32	38.45	-17.13
836.50	72.69	73	2.4	V	5.16	3.94	22.60	23.82	38.45	-14.63
LTE Band 26 Channel 27015 – 5MHz – QPSK										
846.50	69.80	359	1.3	H	2.69	3.94	22.60	21.35	38.45	-17.10
846.50	72.37	215	1.6	V	4.84	3.94	22.60	23.50	38.45	-14.95
LTE Band 26 Channel 26815 – 5MHz – 16QAM										
826.50	72.18	73	1.8	H	5.07	3.60	22.00	23.47	38.45	-14.98
826.50	73.86	221	2.2	V	6.33	3.60	22.00	24.73	38.45	-13.72
LTE Band 26 Channel 26915 – 5MHz – 16QAM										
836.50	70.08	93	1.1	H	2.97	3.94	22.60	21.63	38.45	-16.82
836.50	74.45	232	2.0	V	6.92	3.94	22.60	25.58	38.45	-12.87
LTE Band 26 Channel 27015 – 5MHz – 16QAM										
846.50	69.85	272	1.8	H	2.74	3.94	22.60	21.40	38.45	-17.05
846.50	72.45	202	1.7	V	4.92	3.94	22.60	23.58	38.45	-14.87
LTE Band 26 Channel 26840 – 10MHz – QPSK										
829.00	69.62	220	2.1	H	2.51	3.60	22.00	20.91	38.45	-17.54
829.00	73.63	200	1.4	V	6.10	3.60	22.00	24.50	38.45	-13.95
LTE Band 26 Channel 26915 – 10MHz – QPSK										
836.50	69.52	60	1.2	H	2.41	3.94	22.60	21.07	38.45	-17.38
836.50	71.81	187	1.4	V	4.28	3.94	22.60	22.94	38.45	-15.51
LTE Band 26 Channel 26990 – 10MHz – QPSK										
844.00	69.52	328	1.5	H	2.41	3.94	22.60	21.07	38.45	-17.38
844.00	73.46	138	1.7	V	5.93	3.94	22.60	24.59	38.45	-13.86
LTE Band 26 Channel 26840 – 10MHz – 16QAM										
829.00	69.79	158	1.8	H	2.68	3.60	22.00	21.08	38.45	-17.37
829.00	70.77	253	1.4	V	3.24	3.60	22.00	21.64	38.45	-16.81
LTE Band 26 Channel 26915 – 10MHz – 16QAM										
836.50	71.92	315	1.8	H	4.81	3.94	22.60	23.47	38.45	-14.98
836.50	71.91	142	2.4	V	4.38	3.94	22.60	23.04	38.45	-15.41
LTE Band 26 Channel 26990 – 10MHz – 16QAM										
844.00	69.82	142	1.2	H	2.71	3.94	22.60	21.37	38.45	-17.08
844.00	71.64	72	1.6	V	4.11	3.94	22.60	22.77	38.45	-15.68

LTE Band 26 Channel 26865 – 15MHz – QPSK										
831.50	69.59	300	1.7	H	2.48	3.94	22.60	21.14	38.45	-17.31
831.50	71.30	139	2.1	V	3.77	3.94	22.60	22.43	38.45	-16.02
LTE Band 26 Channel 26915 – 15MHz – QPSK										
836.50	69.71	339	2.0	H	2.60	3.94	22.60	21.26	38.45	-17.19
836.50	71.85	194	2.0	V	4.32	3.94	22.60	22.98	38.45	-15.47
LTE Band 26 Channel 26965 – 15MHz – QPSK										
841.50	69.53	203	1.4	H	2.42	3.94	22.60	21.08	38.45	-17.37
841.50	71.33	162	2.4	V	3.80	3.94	22.60	22.46	38.45	-15.99
LTE Band 26 Channel 26865 – 15MHz – 16QAM										
831.50	71.92	167	2.3	H	4.81	3.94	22.60	23.47	38.45	-14.98
831.50	71.26	341	1.8	V	3.73	3.94	22.60	22.39	38.45	-16.06
LTE Band 26 Channel 26915 – 15MHz – 16QAM										
836.50	69.95	173	1.9	H	2.84	3.94	22.60	21.50	38.45	-16.95
836.50	72.38	61	2.3	V	4.85	3.94	22.60	23.51	38.45	-14.94
LTE Band 26 Channel 26965 – 15MHz – 16QAM										
841.50	70.08	278	2.5	H	2.97	3.94	22.60	21.63	38.45	-16.82
841.50	72.10	119	1.9	V	4.57	3.94	22.60	23.23	38.45	-15.22

8 Peak-to-Average Ratio

Test Requirement:	24.232 (d), 27.50(d)
Test Method:	N/A
Test Mode:	TX transmitting

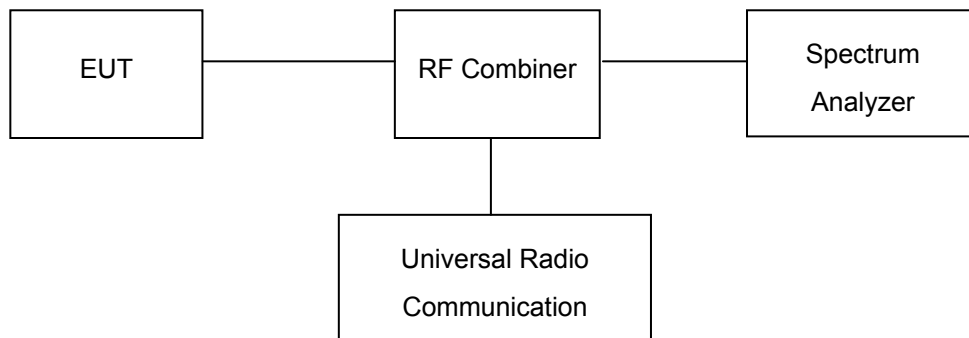
8.1 EUT Operation

Operating Environment :

Temperature:	25.3 °C
Humidity:	53.8 % RH
Atmospheric Pressure:	101.3kPa

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 2/4/5/12/13/25/26 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

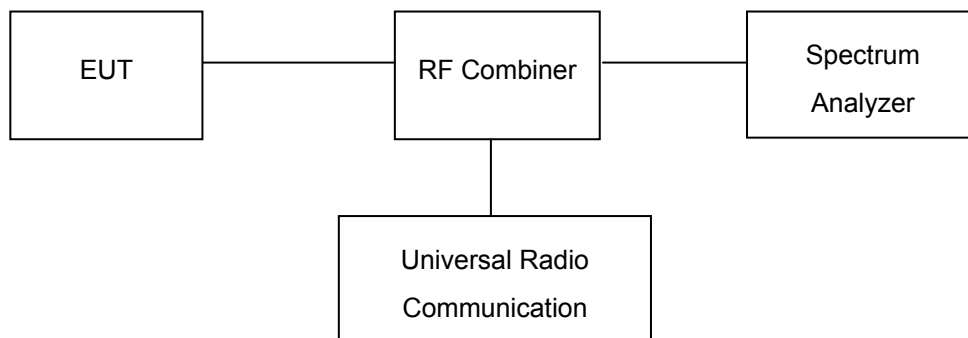
Operating Environment :

Temperature:	25.3 °C
Humidity:	53.8 % RH
Atmospheric Pressure:	101.3kPa

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 2/4/5/12/13/25/26 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

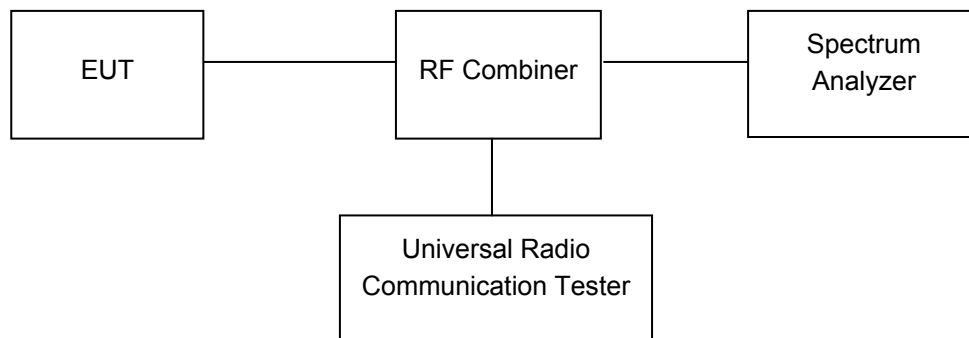
10.1 EUT Operation

Operating Environment :

Temperature:	25.3 °C
Humidity:	53.8 % 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 2/4/5/12/13/25/26 LTE Transmitter Spurious Emissions.

11 Spurious Radiated Emissions

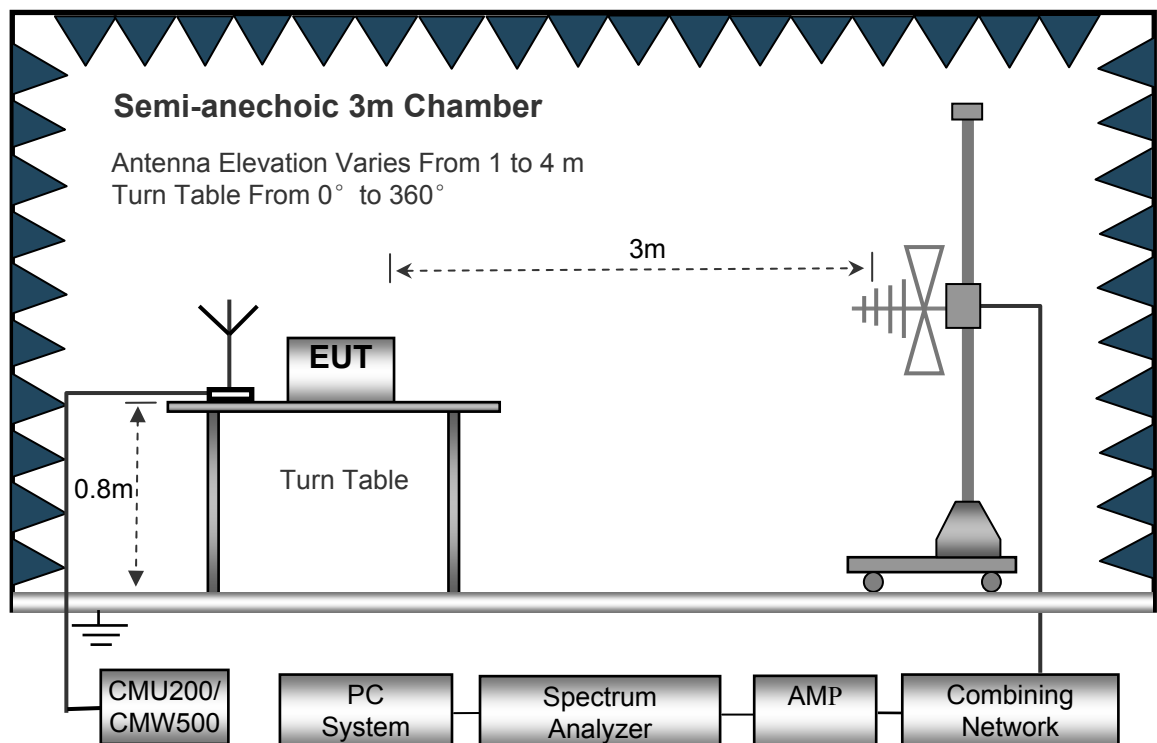
Test Requirement:	FCC Part 2.1053, 22.917, 24.238, 27.53(h), 27.53(m)(4); 90.691
Test Method:	ANSI C63.26:2015 ANSI/TIA-603-E:2016
Test Mode:	TX transmitting

11.1 EUT Operation

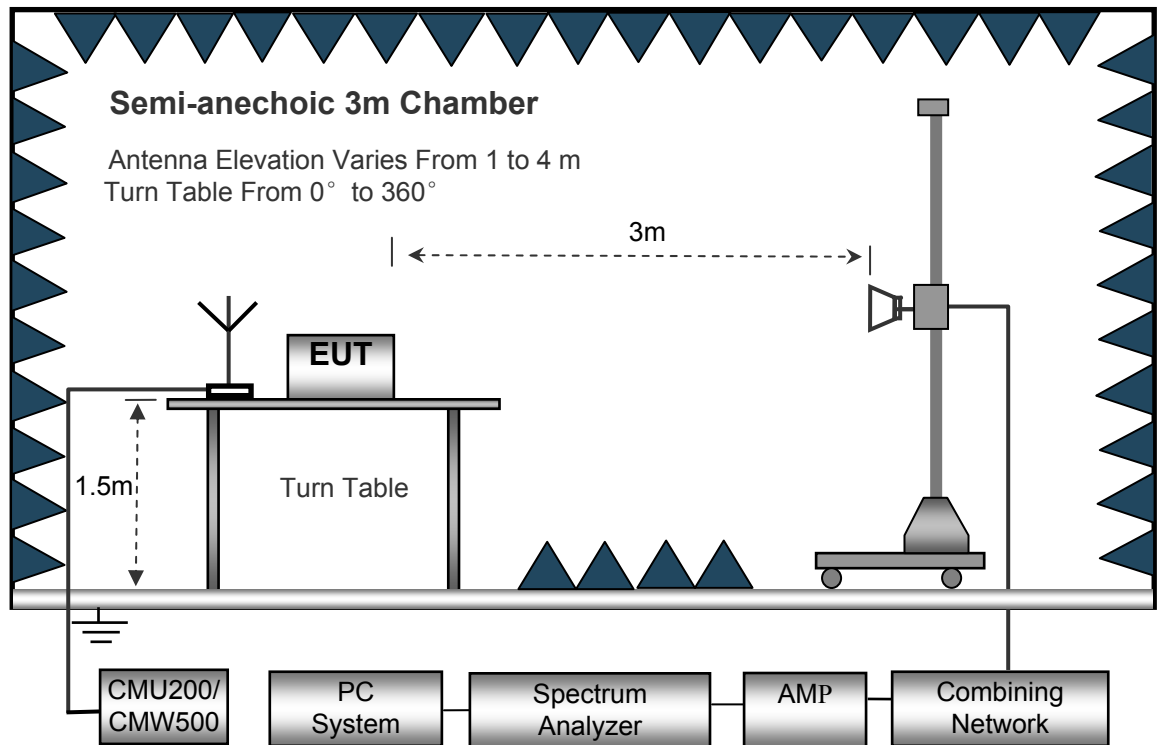
Operating Environment :	
Temperature:	25.2 °C
Humidity:	53.5 % RH
Atmospheric Pressure:	101.1kPa

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 = $10 \lg (\text{TXpwr in Watts}/0.001)$ – the absolute level
Spurious attenuation limit in dB = $43 + 10 \lg (\text{power out in Watts})$
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 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										
316.05	47.15	65	1.2	H	-63.36	2.39	12.70	-53.05	-13.00	-40.05
316.05	51.79	180	1.4	V	-55.80	2.39	12.70	-45.49	-13.00	-32.49
3701.40	52.01	142	1.3	H	-59.53	5.34	29.40	-35.47	-13.00	-22.47
3701.40	57.57	82	2.0	V	-52.24	5.34	29.40	-28.18	-13.00	-15.18
5552.10	35.42	50	1.1	H	-74.19	6.46	32.60	-48.05	-13.00	-35.05
5552.10	37.59	296	1.4	V	-71.29	6.46	32.60	-45.15	-13.00	-32.15
LTE BAND 2 Channel 18900										
316.05	48.97	54	2.0	H	-61.54	2.39	12.70	-51.23	-13.00	-38.23
316.05	50.87	236	2.0	V	-56.72	2.39	12.70	-46.41	-13.00	-33.41
3760.00	50.41	299	1.9	H	-61.13	5.34	29.40	-37.07	-13.00	-24.07
3760.00	51.62	145	2.0	V	-58.19	5.34	29.40	-34.13	-13.00	-21.13
5640.00	30.69	326	1.7	H	-78.92	6.46	32.60	-52.78	-13.00	-39.78
5640.00	34.01	197	2.1	V	-74.87	6.46	32.60	-48.73	-13.00	-35.73
LTE BAND 2 Channel 19193										
316.05	49.59	87	1.4	H	-60.92	2.39	12.70	-50.61	-13.00	-37.61
316.05	54.19	316	1.5	V	-53.40	2.39	12.70	-43.09	-13.00	-30.09
3818.60	46.25	233	1.6	H	-64.60	5.34	29.40	-40.54	-13.00	-27.54
3818.60	49.76	159	1.6	V	-59.55	5.34	29.40	-35.49	-13.00	-22.49
5727.90	27.99	236	1.1	H	-81.36	6.46	32.60	-55.22	-13.00	-42.22
5727.90	34.88	201	1.2	V	-73.62	6.46	32.60	-47.48	-13.00	-34.48

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										
301.59	48.17	64	1.6	H	-62.34	2.39	12.70	-52.03	-13.00	-39.03
301.59	50.32	52	1.9	V	-57.27	2.39	12.70	-46.96	-13.00	-33.96
3421.40	55.14	250	1.7	H	-57.91	5.49	28.80	-34.60	-13.00	-21.60
3421.40	49.45	341	2.2	V	-61.70	5.49	28.80	-38.39	-13.00	-25.39
5132.10	34.53	334	1.7	H	-74.88	6.45	30.90	-50.43	-13.00	-37.43
5132.10	40.01	94	1.6	V	-68.76	6.45	30.90	-44.31	-13.00	-31.31
LTE BAND 4 Channel 20175										
301.59	48.34	162	1.1	H	-62.17	2.39	12.70	-51.86	-13.00	-38.86
301.59	49.72	197	1.6	V	-57.87	2.39	12.70	-47.56	-13.00	-34.56
3465.00	56.40	316	2.1	H	-56.65	5.49	28.80	-33.34	-13.00	-20.34
3465.00	51.45	253	1.0	V	-59.70	5.49	28.80	-36.39	-13.00	-23.39
5197.50	34.24	70	1.0	H	-75.17	6.45	30.90	-50.72	-13.00	-37.72
5197.50	42.66	86	1.2	V	-66.11	6.45	30.90	-41.66	-13.00	-28.66
LTE BAND 4 Channel 20393										
301.59	47.03	328	2.1	H	-63.48	2.39	12.70	-53.17	-13.00	-40.17
301.59	50.71	164	1.1	V	-56.88	2.39	12.70	-46.57	-13.00	-33.57
3508.60	54.76	124	1.1	H	-57.88	5.49	28.80	-34.57	-13.00	-21.57
3508.60	50.00	142	1.9	V	-60.73	5.49	28.80	-37.42	-13.00	-24.42
5262.90	31.65	95	1.3	H	-77.93	6.45	30.90	-53.48	-13.00	-40.48
5262.90	37.05	352	1.5	V	-71.75	6.45	30.90	-47.30	-13.00	-34.30

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										
183.24	52.66	235	1.8	H	-57.85	2.01	9.40	-50.46	-13.00	-37.46
183.24	53.21	257	1.7	V	-54.38	2.01	9.40	-46.99	-13.00	-33.99
1649.40	57.61	344	2.2	H	-55.44	5.22	24.80	-35.86	-13.00	-22.86
1649.40	60.54	125	1.3	V	-50.61	5.22	24.80	-31.03	-13.00	-18.03
2474.10	38.60	254	1.5	H	-70.81	5.61	27.80	-48.62	-13.00	-35.62
2474.10	41.53	326	2.1	V	-67.24	5.61	27.80	-45.05	-13.00	-32.05
LTE BAND 5 Channel 20525										
183.24	50.09	106	1.1	H	-60.42	2.01	9.40	-53.03	-13.00	-40.03
183.24	53.14	48	1.0	V	-54.45	2.01	9.40	-47.06	-13.00	-34.06
1673.00	57.62	305	1.3	H	-55.43	5.22	24.80	-35.85	-13.00	-22.85
1673.00	60.14	3	2.0	V	-51.01	5.22	24.80	-31.43	-13.00	-18.43
2509.50	38.64	279	1.1	H	-70.77	5.61	27.80	-48.58	-13.00	-35.58
2509.50	44.66	267	1.6	V	-64.11	5.61	27.80	-41.92	-13.00	-28.92
LTE BAND 5 Channel 20643										
183.24	50.36	122	1.3	H	-60.15	2.01	9.40	-52.76	-13.00	-39.76
183.24	55.07	349	2.0	V	-52.52	2.01	9.40	-45.13	-13.00	-32.13
1696.60	58.01	139	1.6	H	-54.63	5.22	24.80	-35.05	-13.00	-22.05
1696.60	55.90	333	1.3	V	-54.83	5.22	24.80	-35.25	-13.00	-22.25
2544.90	42.65	60	1.9	H	-66.93	5.61	27.80	-44.74	-13.00	-31.74
2544.90	47.94	136	1.5	V	-60.86	5.61	27.80	-38.67	-13.00	-25.67

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										
322.67	46.35	90	2.1	H	-64.16	2.39	12.70	-53.85	-13.00	-40.85
322.67	51.95	128	1.8	V	-55.64	2.39	12.70	-45.33	-13.00	-32.33
1399.40	55.77	87	1.3	H	-57.28	4.50	25.20	-36.58	-13.00	-23.58
1399.40	61.52	320	2.0	V	-49.63	4.50	25.20	-28.93	-13.00	-15.93
2099.10	39.02	322	1.8	H	-70.39	5.96	26.20	-50.15	-13.00	-37.15
2099.10	40.53	251	1.3	V	-68.24	5.96	26.20	-48.00	-13.00	-35.00
LTE BAND 12 Channel 23095										
322.67	43.96	231	1.0	H	-66.55	2.39	12.70	-56.24	-13.00	-43.24
322.67	49.15	291	1.4	V	-58.44	2.39	12.70	-48.13	-13.00	-35.13
1415.00	52.66	71	2.0	H	-60.39	4.50	25.20	-39.69	-13.00	-26.69
1415.00	58.49	106	1.3	V	-52.66	4.50	25.20	-31.96	-13.00	-18.96
2122.50	38.39	115	1.3	H	-71.02	5.96	26.20	-50.78	-13.00	-37.78
2122.50	38.34	119	1.5	V	-70.43	5.96	26.20	-50.19	-13.00	-37.19
LTE BAND 12 Channel 23173										
322.67	47.24	145	2.1	H	-63.27	2.39	12.70	-52.96	-13.00	-39.96
322.67	52.42	346	1.1	V	-55.17	2.39	12.70	-44.86	-13.00	-31.86
1430.60	55.06	236	1.3	H	-57.58	4.50	25.20	-36.88	-13.00	-23.88
1430.60	53.19	123	1.3	V	-57.54	4.50	25.20	-36.84	-13.00	-23.84
2145.90	41.80	347	1.1	H	-67.78	5.96	26.20	-47.54	-13.00	-34.54
2145.90	45.04	49	1.9	V	-63.76	5.96	26.20	-43.52	-13.00	-30.52

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										
270.36	44.16	44	1.1	H	-66.35	2.39	12.70	-56.04	-13.00	-43.04
270.36	51.04	309	1.5	V	-56.55	2.39	12.70	-46.24	-13.00	-33.24
1559.00	54.21	246	2.2	H	-62.84	5.22	24.80	-43.26	-13.00	-30.26
1559.00	58.27	132	1.5	V	-52.88	5.22	24.80	-33.30	-13.00	-20.30
2338.50	37.07	61	1.8	H	-72.34	5.61	27.80	-50.15	-13.00	-37.15
2338.50	38.90	287	1.0	V	-69.87	5.61	27.80	-47.68	-13.00	-34.68
LTE BAND 13 Channel 23230										
270.36	47.19	153	1.9	H	-63.32	2.39	12.70	-53.01	-13.00	-40.01
270.36	50.55	28	1.4	V	-57.04	2.39	12.70	-46.73	-13.00	-33.73
1564.00	54.66	262	2.2	H	-58.39	5.22	24.80	-38.81	-13.00	-25.81
1564.00	58.87	340	1.3	V	-52.28	5.22	24.80	-32.70	-13.00	-19.70
2346.00	40.35	256	1.8	H	-69.06	5.61	27.80	-46.87	-13.00	-33.87
2346.00	40.60	43	2.0	V	-68.17	5.61	27.80	-45.98	-13.00	-32.98
LTE BAND 13 Channel 23255										
270.36	45.07	49	1.6	H	-65.44	2.39	12.70	-55.13	-13.00	-42.13
270.36	50.67	108	1.3	V	-56.92	2.39	12.70	-46.61	-13.00	-33.61
1569.00	53.03	274	1.1	H	-59.61	5.22	24.80	-40.03	-13.00	-27.03
1569.00	50.97	254	1.7	V	-59.76	5.22	24.80	-40.18	-13.00	-27.18
2353.50	39.67	180	1.7	H	-69.91	5.61	27.80	-47.72	-13.00	-34.72
2353.50	44.45	21	2.1	V	-64.35	5.61	27.80	-42.16	-13.00	-29.16

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										
318.42	48.66	178	1.2	H	-61.85	2.39	12.70	-51.54	-13.00	-38.54
318.42	53.58	18	1.2	V	-54.01	2.39	12.70	-43.70	-13.00	-30.70
3701.40	53.65	90	1.6	H	-63.40	5.34	29.40	-39.34	-13.00	-26.34
3701.40	49.59	37	2.2	V	-61.56	5.34	29.40	-37.50	-13.00	-24.50
5552.10	37.40	308	2.0	H	-72.01	6.46	32.60	-45.87	-13.00	-32.87
5552.10	40.87	151	1.5	V	-67.90	6.46	32.60	-41.76	-13.00	-28.76
LTE BAND 25 Channel 26365										
318.42	49.08	215	2.0	H	-61.43	2.39	12.70	-51.12	-13.00	-38.12
318.42	52.18	347	1.0	V	-55.41	2.39	12.70	-45.10	-13.00	-32.10
3765.00	51.15	87	1.2	H	-61.90	5.34	29.40	-37.84	-13.00	-24.84
3765.00	52.88	53	2.1	V	-58.27	5.34	29.40	-34.21	-13.00	-21.21
5647.50	32.76	101	1.0	H	-76.65	6.46	32.60	-50.51	-13.00	-37.51
5647.50	37.51	30	2.0	V	-71.26	6.46	32.60	-45.12	-13.00	-32.12
LTE BAND 25 Channel 26683										
318.42	55.29	136	1.5	H	-55.22	2.39	12.70	-44.91	-13.00	-31.91
318.42	57.33	294	1.3	V	-50.26	2.39	12.70	-39.95	-13.00	-26.95
3828.60	51.88	249	2.0	H	-60.76	5.34	29.40	-36.70	-13.00	-23.70
3828.60	55.94	174	2.1	V	-54.79	5.34	29.40	-30.73	-13.00	-17.73
5742.90	32.84	88	2.0	H	-76.74	6.46	32.60	-50.60	-13.00	-37.60
5742.90	38.65	180	2.0	V	-70.15	6.46	32.60	-44.01	-13.00	-31.01

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										
195.81	45.63	258	1.7	H	-64.88	2.01	9.40	-57.49	-13.00	-44.49
195.81	52.16	253	1.8	V	-55.43	2.01	9.40	-48.04	-13.00	-35.04
1629.40	57.08	8	1.5	H	-55.97	5.22	24.80	-36.39	-13.00	-23.39
1629.40	61.16	77	1.8	V	-49.99	5.22	24.80	-30.41	-13.00	-17.41
2444.10	38.55	137	1.7	H	-70.86	5.61	27.80	-48.67	-13.00	-35.67
2444.10	39.40	17	2.1	V	-69.37	5.61	27.80	-47.18	-13.00	-34.18
LTE BAND 26 Channel 26740										
195.81	47.26	16	1.4	H	-63.25	2.01	9.40	-55.86	-13.00	-42.86
195.81	52.28	121	1.2	V	-55.31	2.01	9.40	-47.92	-13.00	-34.92
1638.00	55.45	118	1.9	H	-57.60	5.22	24.80	-38.02	-13.00	-25.02
1638.00	59.76	43	2.1	V	-51.39	5.22	24.80	-31.81	-13.00	-18.81
2457.00	40.41	134	1.7	H	-69.00	5.61	27.80	-46.81	-13.00	-33.81
2457.00	40.79	127	2.0	V	-67.98	5.61	27.80	-45.79	-13.00	-32.79
LTE BAND 26 Channel 26783										
195.81	48.53	93	1.8	H	-61.98	2.01	9.40	-54.59	-13.00	-41.59
195.81	54.74	18	1.9	V	-52.85	2.01	9.40	-45.46	-13.00	-32.46
1646.60	56.82	158	2.2	H	-55.82	5.22	24.80	-36.24	-13.00	-23.24
1646.60	52.99	46	1.2	V	-57.74	5.22	24.80	-38.16	-13.00	-25.16
2469.90	44.29	62	2.2	H	-65.29	5.61	27.80	-43.10	-13.00	-30.10
2469.90	46.62	19	1.5	V	-62.18	5.61	27.80	-39.99	-13.00	-26.99

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										
201.13	45.09	203	1.3	H	-65.42	2.01	9.40	-58.03	-13.00	-45.03
201.13	51.65	251	1.6	V	-55.94	2.01	9.40	-48.55	-13.00	-35.55
1649.40	55.39	87	1.6	H	-57.66	5.22	24.80	-38.08	-13.00	-25.08
1649.40	61.95	82	2.2	V	-49.20	5.22	24.80	-29.62	-13.00	-16.62
2474.10	37.60	8	1.1	H	-71.81	5.61	27.80	-49.62	-13.00	-36.62
2474.10	39.11	44	1.8	V	-69.66	5.61	27.80	-47.47	-13.00	-34.47
LTE BAND 26 Channel 26915										
201.13	48.47	270	1.0	H	-62.04	2.01	9.40	-54.65	-13.00	-41.65
201.13	52.16	353	1.6	V	-55.43	2.01	9.40	-48.04	-13.00	-35.04
1673.00	56.50	276	1.5	H	-56.55	5.22	24.80	-36.97	-13.00	-23.97
1673.00	61.33	258	1.7	V	-49.82	5.22	24.80	-30.24	-13.00	-17.24
2509.50	41.06	284	1.3	H	-68.35	5.61	27.80	-46.16	-13.00	-33.16
2509.50	40.70	310	2.1	V	-68.07	5.61	27.80	-45.88	-13.00	-32.88
LTE BAND 26 Channel 27033										
201.13	48.81	246	1.2	H	-61.70	2.01	9.40	-54.31	-13.00	-41.31
201.13	55.13	43	1.2	V	-52.46	2.01	9.40	-45.07	-13.00	-32.07
1696.60	56.00	303	1.5	H	-56.64	5.22	24.80	-37.06	-13.00	-24.06
1696.60	53.06	334	1.4	V	-57.67	5.22	24.80	-38.09	-13.00	-25.09
2544.90	43.71	309	1.8	H	-65.87	5.61	27.80	-43.68	-13.00	-30.68
2544.90	45.42	301	1.1	V	-63.38	5.61	27.80	-41.19	-13.00	-28.19

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:	25.3 °C
Humidity:	53.8 % 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.

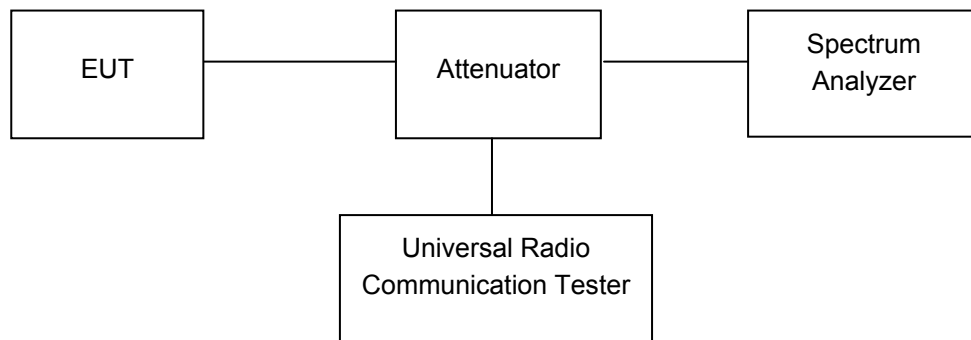
According to FCC Part 24.238(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the TX transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

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 than $43 + 10 \log(P)$ 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 2/4/5/12/13/25/26 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

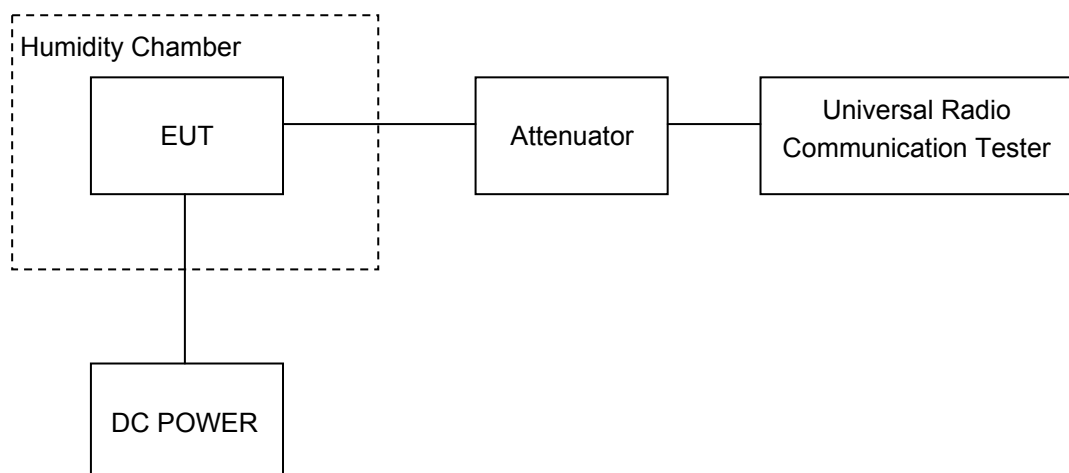
Operating Environment :	
Temperature:	25.3 °C
Humidity:	53.8 % RH
Atmospheric Pressure:	101.3kPa

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 (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-12	-0.0064	2.5
40		-3	-0.0016	2.5
30		0	0.0000	2.5
20		-6	-0.0032	2.5
10		-14	-0.0074	2.5
0		1	0.0005	2.5
-10		-13	-0.0069	2.5
-20		2	0.0011	2.5
-30		-10	-0.0053	2.5
20	10.8	-10	-0.0053	2.5
20	13.2	-4	-0.0021	2.5

T Test Frequency:1880.0MHz 16QAM 1.4MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-9	-0.0048	2.5
40		-10	-0.0053	2.5
30		3	0.0016	2.5
20		-3	-0.0016	2.5
10		-9	-0.0048	2.5
0		-11	-0.0059	2.5
-10		-4	-0.0021	2.5
-20		-8	-0.0043	2.5
-30		-10	-0.0053	2.5
20	10.8	-2	-0.0011	2.5
20	13.2	-3	-0.0016	2.5

LTE Band 2

Test Frequency:1880.0MHz QPSK 3MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-7	-0.0037	2.5
40		2	0.0011	2.5
30		-5	-0.0027	2.5
20		-2	-0.0011	2.5
10		5	0.0027	2.5
0		-5	-0.0027	2.5
-10		4	0.0021	2.5
-20		0	0.0000	2.5
-30		-9	-0.0048	2.5
20	10.8	-4	-0.0021	2.5
20	13.2	4	0.0021	2.5

Test Frequency:1880.0MHz 16QAM 3MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	1	0.0005	2.5
40		10	0.0053	2.5
30		3	0.0016	2.5
20		2	0.0011	2.5
10		-4	-0.0021	2.5
0		-4	-0.0021	2.5
-10		9	0.0048	2.5
-20		6	0.0032	2.5
-30		7	0.0037	2.5
20	10.8	4	0.0021	2.5
20	13.2	-1	-0.0005	2.5

LTE Band 2

Test Frequency:1880.0MHz QPSK 5MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-10	-0.0053	2.5
40		-9	-0.0048	2.5
30		-7	-0.0037	2.5
20		-5	-0.0027	2.5
10		0	0.0000	2.5
0		-9	-0.0048	2.5
-10		0	0.0000	2.5
-20		-11	-0.0059	2.5
-30		-10	-0.0053	2.5
20	10.8	-9	-0.0048	2.5
20	13.2	-4	-0.0021	2.5

Test Frequency:1880.0MHz 16QAM 5MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-4	-0.0021	2.5
40		-15	-0.0080	2.5
30		-2	-0.0011	2.5
20		-6	-0.0032	2.5
10		-7	-0.0037	2.5
0		-4	-0.0021	2.5
-10		-4	-0.0021	2.5
-20		-12	-0.0064	2.5
-30		-10	-0.0053	2.5
20	10.8	2	0.0011	2.5
20	13.2	-11	-0.0059	2.5

LTE Band 2

Test Frequency:1880.0MHz QPSK 10MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-4	-0.0021	2.5
40		-7	-0.0037	2.5
30		-10	-0.0053	2.5
20		-3	-0.0016	2.5
10		-4	-0.0021	2.5
0		4	0.0021	2.5
-10		5	0.0027	2.5
-20		-5	-0.0027	2.5
-30		-10	-0.0053	2.5
20	10.8	-12	-0.0064	2.5
20	13.2	-4	-0.0021	2.5

Test Frequency:1880.0MHz 16QAM 10MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-7	-0.0037	2.5
40		5	0.0027	2.5
30		0	0.0000	2.5
20		-2	-0.0011	2.5
10		-5	-0.0027	2.5
0		-8	-0.0043	2.5
-10		4	0.0021	2.5
-20		6	0.0032	2.5
-30		-1	-0.0005	2.5
20	10.8	2	0.0011	2.5
20	13.2	-6	-0.0032	2.5

LTE Band 2

Test Frequency:1880.0MHz QPSK 15MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	3	0.0016	2.5
40		-11	-0.0059	2.5
30		0	0.0000	2.5
20		-4	-0.0021	2.5
10		-10	-0.0053	2.5
0		-3	-0.0016	2.5
-10		0	0.0000	2.5
-20		-7	-0.0037	2.5
-30		-3	-0.0016	2.5
20	10.8	-2	-0.0011	2.5
20	13.2	-1	-0.0005	2.5

Test Frequency:1880.0MHz 16QAM 15MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	1	0.0005	2.5
40		-12	-0.0064	2.5
30		1	0.0005	2.5
20		-5	-0.0027	2.5
10		0	0.0000	2.5
0		1	0.0005	2.5
-10		-9	-0.0048	2.5
-20		-10	-0.0053	2.5
-30		-13	-0.0069	2.5
20	10.8	-6	-0.0032	2.5
20	13.2	-5	-0.0027	2.5

LTE Band 2

Test Frequency:1880.0MHz QPSK 20MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-12	-0.0064	2.5
40		-4	-0.0021	2.5
30		2	0.0011	2.5
20		-6	-0.0032	2.5
10		-2	-0.0011	2.5
0		-14	-0.0074	2.5
-10		-4	-0.0021	2.5
-20		-5	-0.0027	2.5
-30		-3	-0.0016	2.5
20	10.8	-4	-0.0021	2.5
20	13.2	-7	-0.0037	2.5

Test Frequency:1880.0MHz 16QAM 20MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-9	-0.0048	2.5
40		-2	-0.0011	2.5
30		0	0.0000	2.5
20		-3	-0.0016	2.5
10		-7	-0.0037	2.5
0		-2	-0.0011	2.5
-10		-1	-0.0005	2.5
-20		-11	-0.0059	2.5
-30		-8	-0.0043	2.5
20	10.8	-8	-0.0043	2.5
20	13.2	-11	-0.0059	2.5

LTE Band 4

Test Frequency:1732.5MHz QPSK 1.4MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-13	-0.0075	2.5
40		-2	-0.0012	2.5
30		-13	-0.0075	2.5
20		-5	-0.0029	2.5
10		0	0.0000	2.5
0		-7	-0.0040	2.5
-10		-9	-0.0052	2.5
-20		0	0.0000	2.5
-30		-1	-0.0006	2.5
20	10.8	-10	-0.0058	2.5
20	13.2	3	0.0017	2.5

Test Frequency:1732.5MHz 16QAM 1.4MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-10	-0.0058	2.5
40		-2	-0.0012	2.5
30		0	0.0000	2.5
20		-6	-0.0035	2.5
10		-5	-0.0029	2.5
0		0	0.0000	2.5
-10		-5	-0.0029	2.5
-20		-5	-0.0029	2.5
-30		-5	-0.0029	2.5
20	10.8	2	0.0012	2.5
20	13.2	1	0.0006	2.5

LTE Band 4

Test Frequency:1732.5MHz QPSK 3MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	1	0.0006	2.5
40		-9	-0.0052	2.5
30		-3	-0.0017	2.5
20		-6	-0.0035	2.5
10		-14	-0.0081	2.5
0		0	0.0000	2.5
-10		-15	-0.0087	2.5
-20		-3	-0.0017	2.5
-30		-1	-0.0006	2.5
20	10.8	-1	-0.0006	2.5
20	13.2	-5	-0.0029	2.5

Test Frequency:1732.5MHz 16QAM 3MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-4	-0.0023	2.5
40		-9	-0.0052	2.5
30		-6	-0.0035	2.5
20		-8	-0.0046	2.5
10		-10	-0.0058	2.5
0		-7	-0.0040	2.5
-10		-8	-0.0046	2.5
-20		-12	-0.0069	2.5
-30		-14	-0.0081	2.5
20	10.8	1	0.0006	2.5
20	13.2	-6	-0.0035	2.5

LTE Band 4

Test Frequency:1732.5MHz QPSK 5MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-11	-0.0063	2.5
40		-6	-0.0035	2.5
30		-1	-0.0006	2.5
20		-5	-0.0029	2.5
10		-7	-0.0040	2.5
0		-8	-0.0046	2.5
-10		-9	-0.0052	2.5
-20		-10	-0.0058	2.5
-30		-8	-0.0046	2.5
20	10.8	-10	-0.0058	2.5
20	13.2	-8	-0.0046	2.5

Test Frequency:1732.5MHz 16QAM 5MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-6	-0.0035	2.5
40		-3	-0.0017	2.5
30		-6	-0.0035	2.5
20		-7	-0.0040	2.5
10		-2	-0.0012	2.5
0		-11	-0.0063	2.5
-10		-11	-0.0063	2.5
-20		-8	-0.0046	2.5
-30		-4	-0.0023	2.5
20	10.8	-7	-0.0040	2.5
20	13.2	-1	-0.0006	2.5

LTE Band 4

Test Frequency:1732.5MHz QPSK 10MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-3	-0.0017	2.5
40		-13	-0.0075	2.5
30		-12	-0.0069	2.5
20		-4	-0.0023	2.5
10		-10	-0.0058	2.5
0		1	0.0006	2.5
-10		-4	-0.0023	2.5
-20		-5	-0.0029	2.5
-30		-1	-0.0006	2.5
20	10.8	-6	-0.0035	2.5
20	13.2	-11	-0.0063	2.5

Test Frequency:1732.5MHz 16QAM 10MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	3	0.0017	2.5
40		-12	-0.0069	2.5
30		-5	-0.0029	2.5
20		-4	-0.0023	2.5
10		-5	-0.0029	2.5
0		4	0.0023	2.5
-10		-12	-0.0069	2.5
-20		-2	-0.0012	2.5
-30		-3	-0.0017	2.5
20	10.8	-9	-0.0052	2.5
20	13.2	0	0.0000	2.5

LTE Band 4

Test Frequency:1732.5MHz QPSK 15MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-2	-0.0012	2.5
40		-1	-0.0006	2.5
30		-14	-0.0081	2.5
20		-8	-0.0046	2.5
10		-13	-0.0075	2.5
0		-12	-0.0069	2.5
-10		-4	-0.0023	2.5
-20		-4	-0.0023	2.5
-30		-9	-0.0052	2.5
20	10.8	-2	-0.0012	2.5
20	13.2	-16	-0.0092	2.5

Test Frequency:1732.5MHz 16QAM 15MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-9	-0.0052	2.5
40		-4	-0.0023	2.5
30		-12	-0.0069	2.5
20		-6	-0.0035	2.5
10		1	0.0006	2.5
0		-6	-0.0035	2.5
-10		-15	-0.0087	2.5
-20		-8	-0.0046	2.5
-30		-14	-0.0081	2.5
20	10.8	-10	-0.0058	2.5
20	13.2	-2	-0.0012	2.5

LTE Band 4

Test Frequency:1732.5MHz QPSK 20MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-10	-0.0058	2.5
40		1	0.0006	2.5
30		-3	-0.0017	2.5
20		-3	-0.0017	2.5
10		4	0.0023	2.5
0		4	0.0023	2.5
-10		-10	-0.0058	2.5
-20		-6	-0.0035	2.5
-30		2	0.0012	2.5
20	10.8	0	0.0000	2.5
20	13.2	6	0.0035	2.5

Test Frequency:1732.5MHz 16QAM 20MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-9	-0.0052	2.5
40		-3	-0.0017	2.5
30		-12	-0.0069	2.5
20		-6	-0.0035	2.5
10		-7	-0.0040	2.5
0		0	0.0000	2.5
-10		-4	-0.0023	2.5
-20		-7	-0.0040	2.5
-30		2	0.0012	2.5
20	10.8	-7	-0.0040	2.5
20	13.2	-8	-0.0046	2.5

LTE Band 5

Test Frequency:836.5MHz QPSK 1.4MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-11	-0.0132	2.5
40		-1	-0.0012	2.5
30		2	0.0024	2.5
20		-5	-0.0060	2.5
10		-4	-0.0048	2.5
0		3	0.0036	2.5
-10		-1	-0.0012	2.5
-20		-7	-0.0084	2.5
-30		0	0.0000	2.5
20	10.8	-12	-0.0143	2.5
20	13.2	-4	-0.0048	2.5

Test Frequency:836.5MHz 16QAM 1.4MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-14	-0.0167	2.5
40		-12	-0.0143	2.5
30		-12	-0.0143	2.5
20		-5	-0.0060	2.5
10		0	0.0000	2.5
0		3	0.0036	2.5
-10		0	0.0000	2.5
-20		-4	-0.0048	2.5
-30		-9	-0.0108	2.5
20	10.8	-13	-0.0155	2.5
20	13.2	-12	-0.0143	2.5

LTE Band 5

Test Frequency:836.5MHz QPSK 3MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	0	0.0000	2.5
40		-8	-0.0096	2.5
30		-13	-0.0155	2.5
20		-8	-0.0096	2.5
10		-15	-0.0179	2.5
0		-12	-0.0143	2.5
-10		-10	-0.0120	2.5
-20		-14	-0.0167	2.5
-30		-11	-0.0132	2.5
20	10.8	-12	-0.0143	2.5
20	13.2	-2	-0.0024	2.5

Test Frequency:836.5MHz 16QAM 3MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	2	0.0024	2.5
40		2	0.0024	2.5
30		-10	-0.0120	2.5
20		-6	-0.0072	2.5
10		-8	-0.0096	2.5
0		-9	-0.0108	2.5
-10		-10	-0.0120	2.5
-20		1	0.0012	2.5
-30		2	0.0024	2.5
20	10.8	-3	-0.0036	2.5
20	13.2	-7	-0.0084	2.5

LTE Band 5

Test Frequency:836.5MHz QPSK 5MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	1	0.0012	2.5
40		5	0.0060	2.5
30		-11	-0.0132	2.5
20		-3	-0.0036	2.5
10		0	0.0000	2.5
0		-1	-0.0012	2.5
-10		-9	-0.0108	2.5
-20		-2	-0.0024	2.5
-30		-4	-0.0048	2.5
20	10.8	-8	-0.0096	2.5
20	13.2	-10	-0.0120	2.5

Test Frequency:836.5MHz 16QAM 5MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	6	0.0072	2.5
40		-10	-0.0120	2.5
30		-2	-0.0024	2.5
20		-1	-0.0012	2.5
10		-10	-0.0120	2.5
0		-6	-0.0072	2.5
-10		0	0.0000	2.5
-20		-8	-0.0096	2.5
-30		-9	-0.0108	2.5
20	10.8	-9	-0.0108	2.5
20	13.2	3	0.0036	2.5

LTE Band 5

Test Frequency:836.5MHz QPSK 10MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-1	-0.0012	2.5
40		2	0.0024	2.5
30		-13	-0.0155	2.5
20		-4	-0.0048	2.5
10		-13	-0.0155	2.5
0		4	0.0048	2.5
-10		2	0.0024	2.5
-20		-5	-0.0060	2.5
-30		-3	-0.0036	2.5
20	10.8	-11	-0.0132	2.5
20	13.2	-10	-0.0120	2.5

Test Frequency:836.5MHz 16QAM 10MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-3	-0.0036	2.5
40		-14	-0.0167	2.5
30		-2	-0.0024	2.5
20		-6	-0.0072	2.5
10		3	0.0036	2.5
0		-14	-0.0167	2.5
-10		1	0.0012	2.5
-20		-6	-0.0072	2.5
-30		3	0.0036	2.5
20	10.8	-9	-0.0108	2.5
20	13.2	-7	-0.0084	2.5

LTE Band 12

Test Frequency:707.5MHz QPSK 1.4MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	2	0.0028	2.5
40		-2	-0.0028	2.5
30		-7	-0.0099	2.5
20		-6	-0.0085	2.5
10		-13	-0.0184	2.5
0		3	0.0042	2.5
-10		-7	-0.0099	2.5
-20		-2	-0.0028	2.5
-30		-14	-0.0198	2.5
20	10.8	-11	-0.0155	2.5
20	13.2	0	0.0000	2.5

Test Frequency:707.5MHz 16QAM 1.4MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-2	-0.0028	2.5
40		-3	-0.0042	2.5
30		-11	-0.0155	2.5
20		-4	-0.0057	2.5
10		0	0.0000	2.5
0		-12	-0.0170	2.5
-10		-4	-0.0057	2.5
-20		-7	-0.0099	2.5
-30		-13	-0.0184	2.5
20	10.8	-12	-0.0170	2.5
20	13.2	1	0.0014	2.5

LTE Band 12

Test Frequency:707.5MHz QPSK 3MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	5	0.0071	2.5
40		1	0.0014	2.5
30		-9	-0.0127	2.5
20		-1	-0.0014	2.5
10		0	0.0000	2.5
0		-9	-0.0127	2.5
-10		4	0.0057	2.5
-20		-4	-0.0057	2.5
-30		-9	-0.0127	2.5
20	10.8	-5	-0.0071	2.5
20	13.2	-4	-0.0057	2.5

Test Frequency:707.5MHz 16QAM 3MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-8	-0.0113	2.5
40		1	0.0014	2.5
30		2	0.0028	2.5
20		-3	-0.0042	2.5
10		-1	-0.0014	2.5
0		-4	-0.0057	2.5
-10		-11	-0.0155	2.5
-20		6	0.0085	2.5
-30		-7	-0.0099	2.5
20	10.8	5	0.0071	2.5
20	13.2	-5	-0.0071	2.5

LTE Band 12

Test Frequency:707.5MHz QPSK 5MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-5	-0.0071	2.5
40		-12	-0.0170	2.5
30		2	0.0028	2.5
20		-6	-0.0085	2.5
10		-11	-0.0155	2.5
0		-10	-0.0141	2.5
-10		0	0.0000	2.5
-20		-9	-0.0127	2.5
-30		-12	-0.0170	2.5
20	10.8	-8	-0.0113	2.5
20	13.2	-12	-0.0170	2.5

Test Frequency:707.5MHz 16QAM 5MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-7	-0.0099	2.5
40		0	0.0000	2.5
30		-15	-0.0212	2.5
20		-7	-0.0099	2.5
10		-9	-0.0127	2.5
0		-2	-0.0028	2.5
-10		-13	-0.0184	2.5
-20		-3	-0.0042	2.5
-30		-12	-0.0170	2.5
20	10.8	-7	-0.0099	2.5
20	13.2	-12	-0.0170	2.5

LTE Band 12

Test Frequency:707.5MHz QPSK 10MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-9	-0.0127	2.5
40		-9	-0.0127	2.5
30		-11	-0.0155	2.5
20		-5	-0.0071	2.5
10		-12	-0.0170	2.5
0		-1	-0.0014	2.5
-10		-12	-0.0170	2.5
-20		-9	-0.0127	2.5
-30		-13	-0.0184	2.5
20	10.8	-7	-0.0099	2.5
20	13.2	2	0.0028	2.5

Test Frequency:707.5MHz 16QAM 10MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-2	-0.0028	2.5
40		-6	-0.0085	2.5
30		-4	-0.0057	2.5
20		-5	-0.0071	2.5
10		-12	-0.0170	2.5
0		0	0.0000	2.5
-10		4	0.0057	2.5
-20		-11	-0.0155	2.5
-30		-10	-0.0141	2.5
20	10.8	-9	-0.0127	2.5
20	13.2	-9	-0.0127	2.5

LTE Band 13

Test Frequency: 782.0MHz QPSK 5MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	3	0.0038	2.5
40		-2	-0.0026	2.5
30		0	0.0000	2.5
20		-3	-0.0038	2.5
10		-7	-0.0090	2.5
0		6	0.0077	2.5
-10		-12	-0.0153	2.5
-20		-6	-0.0077	2.5
-30		5	0.0064	2.5
20	10.8	-4	-0.0051	2.5
20	13.2	6	0.0077	2.5

Test Frequency: 782.0MHz 16QAM 5MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-15	-0.0192	2.5
40		-4	-0.0051	2.5
30		-7	-0.0090	2.5
20		-6	-0.0077	2.5
10		-10	-0.0128	2.5
0		-8	-0.0102	2.5
-10		-10	-0.0128	2.5
-20		-13	-0.0166	2.5
-30		-7	-0.0090	2.5
20	10.8	1	0.0013	2.5
20	13.2	-11	-0.0141	2.5

LTE Band 13

Test Frequency: 782.0MHz QPSK 10MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-10	-0.0128	2.5
40		-3	-0.0038	2.5
30		-11	-0.0141	2.5
20		-5	-0.0064	2.5
10		3	0.0038	2.5
0		-9	-0.0115	2.5
-10		-13	-0.0166	2.5
-20		-10	-0.0128	2.5
-30		0	0.0000	2.5
20	10.8	-3	-0.0038	2.5
20	13.2	1	0.0013	2.5

Test Frequency: 782.0MHz 16QAM 10MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-8	-0.0102	2.5
40		1	0.0013	2.5
30		-7	-0.0090	2.5
20		-5	-0.0064	2.5
10		-12	-0.0153	2.5
0		0	0.0000	2.5
-10		-9	-0.0115	2.5
-20		3	0.0038	2.5
-30		-10	-0.0128	2.5
20	10.8	-5	-0.0064	2.5
20	13.2	-9	-0.0115	2.5

LTE Band 25

Test Frequency:1882.5MHz QPSK 1.4MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-13	-0.0069	2.5
40		2	0.0011	2.5
30		3	0.0016	2.5
20		-4	-0.0021	2.5
10		-3	-0.0016	2.5
0		5	0.0027	2.5
-10		-3	-0.0016	2.5
-20		2	0.0011	2.5
-30		-5	-0.0027	2.5
20	10.8	2	0.0011	2.5
20	13.2	0	0.0000	2.5

T Test Frequency: 1882.5MHz 16QAM 1.4MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-15	-0.0080	2.5
40		-7	-0.0037	2.5
30		-9	-0.0048	2.5
20		-6	-0.0032	2.5
10		-5	-0.0027	2.5
0		-9	-0.0048	2.5
-10		2	0.0011	2.5
-20		-11	-0.0058	2.5
-30		-3	-0.0016	2.5
20	10.8	-2	-0.0011	2.5
20	13.2	-15	-0.0080	2.5

LTE Band 25

Test Frequency: 1882.5MHz QPSK 3MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-12	-0.0064	2.5
40		-2	-0.0011	2.5
30		-9	-0.0048	2.5
20		-5	-0.0027	2.5
10		-13	-0.0069	2.5
0		0	0.0000	2.5
-10		3	0.0016	2.5
-20		-10	-0.0053	2.5
-30		-7	-0.0037	2.5
20	10.8	-14	-0.0074	2.5
20	13.2	-2	-0.0011	2.5

Test Frequency: 1882.5MHz 16QAM 3MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-8	-0.0042	2.5
40		-6	-0.0032	2.5
30		-1	-0.0005	2.5
20		-3	-0.0016	2.5
10		-1	-0.0005	2.5
0		0	0.0000	2.5
-10		6	0.0032	2.5
-20		-2	-0.0011	2.5
-30		-8	-0.0042	2.5
20	10.8	-10	-0.0053	2.5
20	13.2	5	0.0027	2.5

LTE Band 25

Test Frequency: 1882.5MHz QPSK 5MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-3	-0.0016	2.5
40		0	0.0000	2.5
30		1	0.0005	2.5
20		-3	-0.0016	2.5
10		-2	-0.0011	2.5
0		-11	-0.0058	2.5
-10		4	0.0021	2.5
-20		4	0.0021	2.5
-30		-9	-0.0048	2.5
20	10.8	-3	-0.0016	2.5
20	13.2	3	0.0016	2.5

Test Frequency: 1882.5MHz 16QAM 5MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-6	-0.0032	2.5
40		-14	-0.0074	2.5
30		1	0.0005	2.5
20		-7	-0.0037	2.5
10		-2	-0.0011	2.5
0		-3	-0.0016	2.5
-10		-3	-0.0016	2.5
-20		-9	-0.0048	2.5
-30		1	0.0005	2.5
20	10.8	-12	-0.0064	2.5
20	13.2	-6	-0.0032	2.5

LTE Band 25

Test Frequency: 1882.5MHz QPSK 10MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-10	-0.0053	2.5
40		-15	-0.0080	2.5
30		-7	-0.0037	2.5
20		-7	-0.0037	2.5
10		-11	-0.0058	2.5
0		-12	-0.0064	2.5
-10		-14	-0.0074	2.5
-20		-13	-0.0069	2.5
-30		-1	-0.0005	2.5
20	10.8	-3	-0.0016	2.5
20	13.2	-13	-0.0069	2.5

Test Frequency: 1882.5MHz 16QAM 10MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-12	-0.0064	2.5
40		4	0.0021	2.5
30		-8	-0.0042	2.5
20		-4	-0.0021	2.5
10		-8	-0.0042	2.5
0		4	0.0021	2.5
-10		-9	-0.0048	2.5
-20		-10	-0.0053	2.5
-30		2	0.0011	2.5
20	10.8	-6	-0.0032	2.5
20	13.2	3	0.0016	2.5

LTE Band 25

Test Frequency: 1882.5MHz QPSK 15MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-6	-0.0032	2.5
40		-8	-0.0042	2.5
30		2	0.0011	2.5
20		-4	-0.0021	2.5
10		-13	-0.0069	2.5
0		-3	-0.0016	2.5
-10		2	0.0011	2.5
-20		3	0.0016	2.5
-30		4	0.0021	2.5
20	10.8	1	0.0005	2.5
20	13.2	-9	-0.0048	2.5

Test Frequency: 1882.5MHz 16QAM 15MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	4	0.0021	2.5
40		-12	-0.0064	2.5
30		-10	-0.0053	2.5
20		-3	-0.0016	2.5
10		-11	-0.0058	2.5
0		3	0.0016	2.5
-10		4	0.0021	2.5
-20		-7	-0.0037	2.5
-30		0	0.0000	2.5
20	10.8	1	0.0005	2.5
20	13.2	-8	-0.0042	2.5

LTE Band 25

Test Frequency: 1882.5MHz QPSK 20MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-10	-0.0053	2.5
40		1	0.0005	2.5
30		-2	-0.0011	2.5
20		-5	-0.0027	2.5
10		-3	-0.0016	2.5
0		-8	-0.0042	2.5
-10		-7	-0.0037	2.5
-20		2	0.0011	2.5
-30		-3	-0.0016	2.5
20	10.8	-1	-0.0005	2.5
20	13.2	0	0.0000	2.5

Test Frequency: 1882.5MHz 16QAM 20MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-9	-0.0048	2.5
40		-7	-0.0037	2.5
30		1	0.0005	2.5
20		-5	-0.0027	2.5
10		3	0.0016	2.5
0		1	0.0005	2.5
-10		3	0.0016	2.5
-20		-8	-0.0042	2.5
-30		-1	-0.0005	2.5
20	10.8	-10	-0.0053	2.5
20	13.2	-12	-0.0064	2.5

LTE Band 26(Part 90)

Test Frequency: 819MHz QPSK 1.4MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-4	-0.0049	2.5
40		5	0.0061	2.5
30		2	0.0024	2.5
20		-4	-0.0049	2.5
10		-12	-0.0147	2.5
0		-10	-0.0122	2.5
-10		-9	-0.0110	2.5
-20		-8	-0.0098	2.5
-30		-3	-0.0037	2.5
20	10.8	0	0.0000	2.5
20	13.2	1	0.0012	2.5

Test Frequency: 819MHz 16QAM 1.4MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-1	-0.0012	2.5
40		-9	-0.0110	2.5
30		-5	-0.0061	2.5
20		-6	-0.0073	2.5
10		-11	-0.0134	2.5
0		-6	-0.0073	2.5
-10		-10	-0.0122	2.5
-20		-2	-0.0024	2.5
-30		-7	-0.0085	2.5
20	10.8	-3	-0.0037	2.5
20	13.2	0	0.0000	2.5

LTE Band 26(Part 90)

Test Frequency: 819MHz QPSK 3MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-8	-0.0098	2.5
40		-11	-0.0134	2.5
30		4	0.0049	2.5
20		-4	-0.0049	2.5
10		-12	-0.0147	2.5
0		2	0.0024	2.5
-10		4	0.0049	2.5
-20		-7	-0.0085	2.5
-30		-13	-0.0159	2.5
20	10.8	-10	-0.0122	2.5
20	13.2	3	0.0037	2.5

Test Frequency: 819MHz 16QAM 3MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-5	-0.0061	2.5
40		-7	-0.0085	2.5
30		-12	-0.0147	2.5
20		-6	-0.0073	2.5
10		-5	-0.0061	2.5
0		-14	-0.0171	2.5
-10		-13	-0.0159	2.5
-20		-8	-0.0098	2.5
-30		-2	-0.0024	2.5
20	10.8	-13	-0.0159	2.5
20	13.2	0	0.0000	2.5

LTE Band 26(Part 90)

Test Frequency: 819MHz QPSK 5MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-11	-0.0134	2.5
40		1	0.0012	2.5
30		-12	-0.0147	2.5
20		-6	-0.0073	2.5
10		-12	-0.0147	2.5
0		-11	-0.0134	2.5
-10		-11	-0.0134	2.5
-20		-6	-0.0073	2.5
-30		-15	-0.0183	2.5
20	10.8	-14	-0.0171	2.5
20	13.2	-6	-0.0073	2.5

Test Frequency: 819MHz 16QAM 5MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-6	-0.0073	2.5
40		-10	-0.0122	2.5
30		-13	-0.0159	2.5
20		-4	-0.0049	2.5
10		-3	-0.0037	2.5
0		-9	-0.0110	2.5
-10		4	0.0049	2.5
-20		0	0.0000	2.5
-30		-7	-0.0085	2.5
20	10.8	5	0.0061	2.5
20	13.2	-9	-0.0110	2.5

LTE Band 26(Part 90)

Test Frequency: 819MHz QPSK 10MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	1	0.0012	2.5
40		-3	-0.0037	2.5
30		-14	-0.0171	2.5
20		-5	-0.0061	2.5
10		0	0.0000	2.5
0		-7	-0.0085	2.5
-10		-13	-0.0159	2.5
-20		-2	-0.0024	2.5
-30		-11	-0.0134	2.5
20	10.8	-7	-0.0085	2.5
20	13.2	0	0.0000	2.5

Test Frequency: 819MHz 16QAM 10MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-10	-0.0122	2.5
40		-5	-0.0061	2.5
30		-6	-0.0073	2.5
20		-3	-0.0037	2.5
10		4	0.0049	2.5
0		0	0.0000	2.5
-10		-8	-0.0098	2.5
-20		-3	-0.0037	2.5
-30		-3	-0.0037	2.5
20	10.8	-10	-0.0122	2.5
20	13.2	-7	-0.0085	2.5

LTE Band 26(Part 22)

Test Frequency:836.5MHz QPSK 1.4MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-12	-0.0143	2.5
40		-1	-0.0012	2.5
30		-9	-0.0108	2.5
20		-6	-0.0072	2.5
10		-13	-0.0155	2.5
0		-6	-0.0072	2.5
-10		-2	-0.0024	2.5
-20		-14	-0.0167	2.5
-30		-9	-0.0108	2.5
20	10.8	-7	-0.0084	2.5
20	13.2	-11	-0.0132	2.5

Test Frequency: 836.5MHz 16QAM 1.4MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-10	-0.0120	2.5
40		-7	-0.0084	2.5
30		1	0.0012	2.5
20		-3	-0.0036	2.5
10		2	0.0024	2.5
0		0	0.0000	2.5
-10		5	0.0060	2.5
-20		-8	-0.0096	2.5
-30		4	0.0048	2.5
20	10.8	-4	-0.0048	2.5
20	13.2	0	0.0000	2.5

LTE Band 26(Part 22)

Test Frequency: 836.5MHz QPSK 3MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-6	-0.0072	2.5
40		-9	-0.0108	2.5
30		-1	-0.0012	2.5
20		-4	-0.0048	2.5
10		-8	-0.0096	2.5
0		-6	-0.0072	2.5
-10		0	0.0000	2.5
-20		3	0.0036	2.5
-30		-10	-0.0120	2.5
20	10.8	-10	-0.0120	2.5
20	13.2	-3	-0.0036	2.5

Test Frequency: 836.5MHz 16QAM 3MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-4	-0.0048	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		-4	-0.0048	2.5
-10		-9	-0.0108	2.5
-20		-3	-0.0036	2.5
-30		5	0.0060	2.5
20	10.8	-10	-0.0120	2.5
20	13.2	1	0.0012	2.5

LTE Band 26(Part 22)

Test Frequency: 836.5MHz QPSK 5MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	3	0.0036	2.5
40		1	0.0012	2.5
30		-13	-0.0155	2.5
20		-4	-0.0048	2.5
10		-13	-0.0155	2.5
0		2	0.0024	2.5
-10		5	0.0060	2.5
-20		0	0.0000	2.5
-30		-6	-0.0072	2.5
20	10.8	5	0.0060	2.5
20	13.2	0	0.0000	2.5

Test Frequency: 836.5MHz 16QAM 5MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	2	0.0024	2.5
40		-8	-0.0096	2.5
30		-8	-0.0096	2.5
20		-6	-0.0072	2.5
10		-9	-0.0108	2.5
0		3	0.0036	2.5
-10		-6	-0.0072	2.5
-20		-9	-0.0108	2.5
-30		-14	-0.0167	2.5
20	10.8	1	0.0012	2.5
20	13.2	-12	-0.0143	2.5

LTE Band 26(Part 22)

Test Frequency: 836.5MHz QPSK 10MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-14	-0.0167	2.5
40		-5	-0.0060	2.5
30		-14	-0.0167	2.5
20		-6	-0.0072	2.5
10		-8	-0.0096	2.5
0		-11	-0.0132	2.5
-10		1	0.0012	2.5
-20		-2	-0.0024	2.5
-30		-12	-0.0143	2.5
20	10.8	-7	-0.0084	2.5
20	13.2	1	0.0012	2.5

Test Frequency: 836.5MHz 16QAM 10MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-12	-0.0143	2.5
40		-10	-0.0120	2.5
30		1	0.0012	2.5
20		-3	-0.0036	2.5
10		-8	-0.0096	2.5
0		-12	-0.0143	2.5
-10		-12	-0.0143	2.5
-20		-1	-0.0012	2.5
-30		-7	-0.0084	2.5
20	10.8	2	0.0024	2.5
20	13.2	-6	-0.0072	2.5

LTE Band 26(Part 22)

Test Frequency: 836.5MHz QPSK 15MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-9	-0.0108	2.5
40		-12	-0.0143	2.5
30		5	0.0060	2.5
20		-4	-0.0048	2.5
10		-11	-0.0132	2.5
0		-7	-0.0084	2.5
-10		4	0.0048	2.5
-20		-3	-0.0036	2.5
-30		-5	-0.0060	2.5
20	10.8	-8	-0.0096	2.5
20	13.2	2	0.0024	2.5

Test Frequency: 836.5MHz 16QAM 15MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
50	12.0	-6	-0.0072	2.5
40		0	0.0000	2.5
30		-15	-0.0179	2.5
20		-6	-0.0072	2.5
10		-12	-0.0143	2.5
0		-15	-0.0179	2.5
-10		-14	-0.0167	2.5
-20		-3	-0.0036	2.5
-30		-6	-0.0072	2.5
20	10.8	-7	-0.0084	2.5
20	13.2	0	0.0000	2.5

14 RF Exposure

Remark: refer to MPE test report: WTD25D04083471W004.

15 Photographs of test setup and EUT.

Note: Please refer to appendix: Appendix-R4GLPLUS-Photos.

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