
FCC Test Report

Report No.:AGC00677191101FE07

FCC ID : 2AU3DGRAVITY6P

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : Smartphone

BRAND NAME : MAXWEST, MTT, Vantec

MODEL NAME : Gravity 6P, Gravity_6P_Plus, L604, L604a, L604b, L604c,
L607, L607a, L607b, L607c, L661, G6, G8

APPLICANT : United Creation Technology Corp., Ltd

DATE OF ISSUE : Dec. 24, 2019

STANDARD(S) : FCC Part22 Rules
FCC Part24 Rules
FCC Part27 Rules

REPORT VERSION : V1.0

Attestation of *Global Compliance (Shenzhen) Co., Ltd.*

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Dec. 24, 2019	Valid	Initial Release

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1. VERIFICATION OF COMPLIANCE

Applicant	United Creation Technology Corp.,Ltd
Address	Room 201, Block A, Science and Technology Buliding Phase-2,Nanhai Road 1057, Shekou, Nanshan District, Shenzhen
Manufacturer	United Creation Technology Corp.,Ltd
Address	Room 201, Block A, Science and Technology Buliding Phase-2, Nanhai Road 1057, Shekou, Nanshan District, Shenzhen
Factory	United Creation Technology Corp.,Ltd
Address	Room 201, Block A, Science and Technology Buliding Phase-2, Nanhai Road 1057, Shekou, Nanshan District, Shenzhen
Product Designation	Smartphone
Brand Name	MAXWEST, MTT, Vantec
Test Model	Gravity 6P
Series Model	Gravity_6P_Plus,L604, L604a,L604b,L604c, L607, L607a,L607b, L607c, L661,G6,G8
Model Description	All the same except for brand name and model name, the corresponding relationship are as follow: MAXWEST is corresponding Gravity 6P, Gravity_6P_Plus ; MTT is corresponding L604, L604a,L604b,L604c, L607, L607a,L607b, L607c, L661 ; Vantec is corresponding G6, G8 ;
Date of test	Nov. 07, 2019 to Dec. 24, 2019
Deviation	None
Condition of Test Sample	Normal


We hereby certify that: The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI/TIA-603-E-2016. The sample tested as described in this report is in compliance with the FCC Rules Part 24 and 27. The test results of this report relate only to the tested sample identified in this report.

Prepared By 

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 (Project Engineer) Dec. 24, 2019

Reviewed By 

 Max Zhang
 (Reviewer) Dec. 24, 2019

Approved By 

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 (Authorized Officer) Dec. 24, 2019

2. GENERAL INFORMATION

2.1 PRODUCT DESCRIPTION

A major technical description of EUT is described as following:

Radio System Type:	LTE	
Frequency Bands:	<input checked="" type="checkbox"/> FDD Band 2 <input checked="" type="checkbox"/> FDD Band 4 <input checked="" type="checkbox"/> FDD Band 5 <input checked="" type="checkbox"/> FDD Band 7 <input checked="" type="checkbox"/> FDD Band 12 (U.S. Bands) <input type="checkbox"/> FDD Band 1 <input type="checkbox"/> FDD Band 3 <input type="checkbox"/> FDD Band 8 <input type="checkbox"/> FDD Band 19 <input type="checkbox"/> FDD Band 20 <input checked="" type="checkbox"/> FDD Band 28 <input type="checkbox"/> TDD Band 38 (Non-U.S. Bands)	
Frequency Range	LTE Band 2	Transmission (TX): 1850 to 1909.9 MHz
		Receiving (RX): 1930 to 1989.9 MHz
	LTE Band 4	Transmission (TX): 1710 to 1754.9 MHz
		Receiving (RX): 2110 to 2154.9 MHz
	LTE Band 5	Transmission (TX): 824 to 848.9 MHz
		Receiving (RX): 869 to 893.9 MHz
	LTE Band 7	Transmission (TX): 2500 to 2569.9MHz
		Receiving (RX): 2620 to 2689.9MHz
	LTE Band 12	Transmission (TX): 699 to 715.9MHz
		Receiving (RX): 729 to 745.9MHz
Supported Channel Bandwidth	LTE Band 2	<input checked="" type="checkbox"/> 1.4 MHz <input checked="" type="checkbox"/> 3 MHz <input checked="" type="checkbox"/> 5 MHz
		<input checked="" type="checkbox"/> 10 MHz <input checked="" type="checkbox"/> 15 MHz <input checked="" type="checkbox"/> 20 MHz
	LTE Band 4	<input checked="" type="checkbox"/> 1.4 MHz <input checked="" type="checkbox"/> 3 MHz <input checked="" type="checkbox"/> 5 MHz
		<input checked="" type="checkbox"/> 10 MHz <input checked="" type="checkbox"/> 15 MHz <input checked="" type="checkbox"/> 20 MHz
	LTE Band 5	<input checked="" type="checkbox"/> 1.4 MHz <input checked="" type="checkbox"/> 3 MHz <input checked="" type="checkbox"/> 5 MHz <input checked="" type="checkbox"/> 10 MHz
LTE Band 7	<input checked="" type="checkbox"/> 5 MHz <input checked="" type="checkbox"/> 10 MHz <input checked="" type="checkbox"/> 15 MHz <input checked="" type="checkbox"/> 20 MHz	
LTE Band 12	<input checked="" type="checkbox"/> 1.4 MHz <input checked="" type="checkbox"/> 3 MHz <input checked="" type="checkbox"/> 5 MHz <input checked="" type="checkbox"/> 10 MHz	
Hardware Version	E64B_V2.0G	
Software Version	Maxwest_Gravity_6P_GEN	
Antenna:	PIFA Antenna	
Type of Modulation	QPSK/16QAM	
Antenna gain:	Band 2: 0.79dBi; Band 4: 0.85dBi; Band 5: 0.56dBi; Band 7: 1.26dBi; Band 12: 0.47dBi;	
Diversity Antenna gain:	Band 2: 0.75dBi; Band 4: 0.82dBi; Band 5: 0.51dBi; Band 7: 1.18dBi; Band 12: 0.43dBi;	
Power Supply:	DC 3.8V by battery	
Dual Card:	GSM/WCDMA/LTE Card Slot	
Power Class	3	

Extreme Vol. Limits:	DC3.23V to 4.35V (Normal:3.8V)
Temperature range	-10°C to +40°C
Note1: The High Voltage DC4.35V and Low Voltage DC3.23V were declared by manufacturer, The EUT couldn't be operating normally with higher or lower voltage..	

2.3 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID:2AU3DGRAVITY6P**, filing to comply with the FCC Part 22, Part 24 and Part 27 requirements

2.4 TEST METHODOLOGY

The radiated emission testing was performed according to the procedures of ANSI/TIA-603-E-2016, and FCC KDB 971168 D01 Power Means License Digital Systems V03R01.

2.5 TEST FACILITY

TestSite	Attestation of Global Compliance(Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong,China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

ALL TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun.12, 2019	Jun.11, 2020
LISN	R&S	ESH2-Z5	100086	Aug.26, 2019	Aug.25, 2020
TEST RECEIVER	R&S	ESCI	10096	Jun.12, 2019	Jun.11, 2020
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.12, 2019	Dec.11, 2020
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.09, 2019	Sep.08, 2020
preamplifier	ChengYi	EMC184045SE	980508	Sep.23, 2019	Sep.22, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May.17, 2019	May.16, 2021
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.12, 2019	Jun.11, 2020
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.20, 2019	Sep.19, 2020
SIGNAL ANALYZER	Agilent	N9020A	MY52090123	Sep.09, 2019	Sep.08, 2020
USB Wideband Power Sensor	Agilent	U2021XA	MY54110007	Sep.09, 2019	Sep.08, 2020
Wireless communicationtest	R&S	CMW500	120909	July 11, 2019	July 10, 2020
Power Splitter	Agilent	11636A	34	Jun.12, 2019	Jun.11, 2020
Attenuator	JFW	50FHC-006-50	N/A	Jun.12, 2019	Jun.11, 2020

2.5 SPECIAL ACCESSORIES

The battery was supplied by the applicant and was used as accessories and being tested with EUT intended for FCC grant together.

2.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

3. SYSTEM TEST CONFIGURATION

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

3.2 EUT EXERCISE

The Transmitter was operated in the maximum output power mode through Communication Tester. The TX frequency was fixed which was for the purpose of the measurements.

3.3 GENERAL TECHNICAL REQUIREMENTS

Item Number	Item Description		FCC Rules
1	Output Power	Conducted output power	2.1046/22.913(a)(2)/24.232(c)/ 27.50(d)(4)/ 27.50(h)(2)
		Radiated output power	
2	Peak-to-Average Ratio	Peak-to-Average Ratio	24.232(d)
3	Spurious Emission	Conducted spurious emission	2.1051/22.917(a)/24.238(a) 27.53(h)/ 27.53(g)
		Radiated spurious emission	
4	Frequency Stability		2.1055/22.355/24.235/27.54
5	Occupied Bandwidth		2.1049 (h)(i)
6	Band Edge		2.1051/22.917(a)/24.238(a) 27.53(h)/ 27.53(g)

Note: Testing was performed by configuring EUT to maximum output power status, the declared output power class for different.

3.4 CONFIGURATION OF EUT SYSTEM

Fig. 2-1 Configuration of EUT System

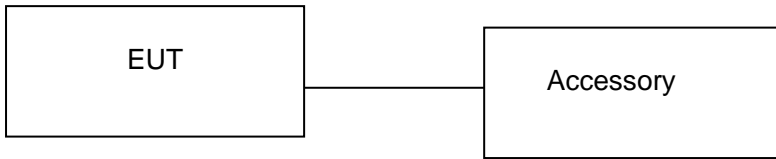


Table 2-1 Equipment Used in EUT System

Item	Equipment	Model No.	ID or Specification	Remark
1	Smart Phone	X19	FCC ID: 2AU3DGRAVITY6P	EUT
2	Adapter-1	LM601U-05120U01	DC 5.0V 1.2A	AE
3	Adapter-2	UT-236A-5150ZY	DC 5.0V 1.5A	AE
4	Battery	BP-60AT	DC 3.8V 3300mAh	AE
5	USB Cable	N/A	N/A	AE

***Note:All the accessories have been used during the test. The following “EUT” in setup diagram means EUT system.

4. SUMMARY OF TEST RESULTS

Item Number	Item Description		FCC Rules	Result
1	Output Power	Conducted Output Power	2.1046/22.913(a)(2)/24.232(c)/ 27.50(d)(4)/ 27.50(h)(2)	Pass
		Radiated Output Power		
2	Peak-to-Average Ratio	Peak-to-Average Ratio	24.232(d)	Pass
3	Spurious Emission	Conducted Spurious Emission	2.1051/22.917(a)/24.238(a) 27.53(h)/ 27.53(g)	Pass
		Radiated Spurious Emission		
4	Frequency Stability		2.1055/22.355/24.235/27.54	Pass
5	Occupied Bandwidth		2.1049 (h)(i)	Pass
6	Band Edge		2.1051/22.917(a)/24.238(a) 27.53(h)/ 27.53(g)	Pass

5. DESCRIPTION OF TEST MODES

During the testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication Tester (CMW 500) to ensure max power transmission and proper modulation. Three channels (The top channel, the middle channel and the bottom channel) were chosen for testing on both LTE frequency band.

The worst condition was recorded in the test report if no other modes test data.

Test Mode	Test Modes Description
LTE	LTE system, QPSK modulation
LTE	LTE system, 16QAM modulation

Test Mode	TX / RX	RF Channel		
		Low (B)	Middle (M)	High (T)
LTE Band 2	TX (1.4M)	Channel 18607	Channel 18900	Channel 19193
		1850.7 MHz	1880 MHz	1909.3 MHz
	TX (3M)	Channel 18615	Channel 18900	Channel 19185
		1851.5 MHz	1880 MHz	1908.5 MHz
	TX (5M)	Channel 18625	Channel 18900	Channel 19175
		1852.5 MHz	1880 MHz	1907.5 MHz
	TX (10M)	Channel 18650	Channel 18900	Channel 19150
		1855.0 MHz	1880 MHz	1905.0 MHz
	TX (20M)	Channel 18700	Channel 18900	Channel 19100
		1860.0 MHz	1880 MHz	1900.0 MHz
	RX (1.4M)	Channel 607	Channel 900	Channel 1193
		1930.7 MHz	1960 MHz	1989.3 MHz
	RX (3M)	Channel 615	Channel 900	Channel 1185
		1931.5 MHz	1960 MHz	1988.5 MHz
	RX (5M)	Channel 625	Channel 900	Channel 1175
		1932.5 MHz	1960 MHz	1987.5 MHz
	RX (10M)	Channel 650	Channel 900	Channel 1150
		1935 MHz	1960 MHz	1985 MHz
	RX (20M)	Channel 700	Channel 900	Channel 1100
		1940.0 MHz	1960 MHz	1980 MHz

Test Mode	TX / RX	RF Channel		
		Low (B)	Middle (M)	High (T)
LTE Band 4	TX (1.4M)	Channel 19957	Channel 20175	Channel 20393
		1710.7 MHz	1732.5 MHz	1754.3 MHz
	TX (3M)	Channel 19965	Channel 20175	Channel 20385
		1711.5 MHz	1732.5 MHz	1753.5 MHz
	TX (5M)	Channel 19975	Channel 20175	Channel 20375
		1712.5 MHz	1732.5 MHz	1752.5 MHz
	TX (10M)	Channel 20000	Channel 20175	Channel 20350
		1715 MHz	1732.5 MHz	1750 MHz
	TX (15M)	Channel 20025	Channel 20175	Channel 20325
		1717.5 MHz	1732.5 MHz	1747.5 MHz
	TX (20M)	Channel 20050	Channel 20175	Channel 20300
		1720 MHz	1732.5 MHz	1745 MHz
	RX (1.4M)	Channel 1957	Channel 2175	Channel 2393
		2110.7 MHz	2132.5 MHz	2154.3 MHz
	RX (3M)	Channel 1965	Channel 2175	Channel 2385
		2111.5 MHz	2132.5 MHz	2153.5 MHz
	RX (5M)	Channel 1975	Channel 2175	Channel 2375
		2112.5 MHz	2132.5 MHz	2152.5 MHz
	RX (10M)	Channel 2000	Channel 2175	Channel 2350
		2115 MHz	2132.5 MHz	2150 MHz
RX (15M)	Channel 2025	Channel 2175	Channel 2325	
	2117.5 MHz	2132.5 MHz	2147.5 MHz	
RX (20M)	Channel 2050	Channel 2175	Channel 2300	
	2120 MHz	2132.5 MHz	2145 MHz	

Test Mode	TX / RX	RF Channel		
		Low (B)	Middle (M)	High (T)
LTE Band 5	TX (1.4M)	Channel 20407	Channel 20525	Channel 20643
		824.7 MHz	836.5 MHz	848.3 MHz
	TX (3M)	Channel 20415	Channel 20525	Channel 20635
		825.5 MHz	836.5 MHz	847.5 MHz
	TX (5M)	Channel 20425	Channel 20525	Channel 20625
		826.5 MHz	836.5 MHz	846.5 MHz
	TX (10M)	Channel 20450	Channel 20525	Channel 20600
		829 MHz	836.5 MHz	844 MHz
	RX (1.4M)	Channel 2404	Channel 2525	Channel 2463
		869.4 MHz	881.5 MHz	893.3 MHz
	RX (3M)	Channel 2415	Channel 2525	Channel 2635
		870.5 MHz	881.5 MHz	892.5 MHz
	RX (5M)	Channel 2425	Channel 2525	Channel 2625
		871.5 MHz	881.5 MHz	891.5 MHz
	RX (10M)	Channel 2450	Channel 2525	Channel 2600
		874 MHz	881.5 MHz	889 MHz

Test Mode	TX / RX	RF Channel		
		Low (B)	Middle (M)	High (T)
LTE Band 7	TX (5M)	Channel 20775	Channel 21100	Channel 21425
		2502.5 MHz	2535 MHz	2567.5 MHz
	TX (10M)	Channel 20800	Channel 21100	Channel 21400
		2505.0 MHz	2535 MHz	2565 MHz
	TX (15M)	Channel 20825	Channel 21100	Channel 21275
		2507.5 MHz	2535 MHz	2562.5 MHz
	TX (20M)	Channel 20850	Channel 21100	Channel 21350
		2510.0 MHz	2535 MHz	2560 MHz
	RX (5M)	Channel 2775	Channel 3100	Channel 3425
		2622.5 MHz	2655 MHz	2687.5 MHz
	RX (10M)	Channel 2800	Channel 3100	Channel 3400
		2625.0 MHz	2655 MHz	2685 MHz
	RX (15M)	Channel 2825	Channel 3100	Channel 3375
		2627.5 MHz	2655 MHz	2682.5 MHz
	RX (20M)	Channel 2850	Channel 3100	Channel 3350
		2630.0 MHz	2655 MHz	2680.0 MHz

Test Mode	TX / RX	RF Channel		
		Low (B)	Middle (M)	High (T)
LTE Band 12	TX (1.4M)	Channel 23017	Channel 23095	Channel 23173
		699.7 MHz	707.5 MHz	715.3 MHz
	TX (3M)	Channel 23025	Channel 23095	Channel 23165
		700.5 MHz	707.5 MHz	714.5 MHz
	TX (5M)	Channel 23035	Channel 23095	Channel 23155
		701.5 MHz	707.5 MHz	713.5 MHz
	TX (10M)	Channel 23060	Channel 23095	Channel 23130
		704.0 MHz	707.5 MHz	711.0 MHz
	RX (1.4M)	Channel 5017	Channel 5095	Channel 5173
		729.7 MHz	737.5 MHz	745.3 MHz
	RX (3M)	Channel 5025	Channel 5095	Channel 5165
		730.5 MHz	737.5 MHz	744.5 MHz
	RX (5M)	Channel 5035	Channel 5095	Channel 5155
		731.5 MHz	737.5 MHz	743.5 MHz
	RX (10M)	Channel 5060	Channel 5095	Channel 5130
		734.0 MHz	737.5 MHz	741.0 MHz

6. OUTPUT POWER

6.1 CONDUCTED OUTPUT POWER

6.1.1 MEASUREMENT METHOD

The EUT is coupled to the SS with attenuator through power splitter; the RF load attached to EUT antennaterminal is 50ohm, the path loss as the factor is calibrated to correct the reading. A system simulator was usedto establish communication with the EUT , Its parameters were set to force the EUT transmitting at maximum outputpower. The measured power in the radio frequency on the transmitter output terminals shall be reported. The measurements were performed on all modes at 3 typical channels(the Top Channel, the Middle Channel and the Bottom Channel) for each band.

6.1.2 MEASUREMENT RESULT

Conducted Output Power Limits		
Mode	Average Power	Tolerance(dB)
LTE	23 dBm (0.2W)	± 2.7

LTE Band 2

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
20MHz	18700	1860.0	QPSK	1	0	0	22.98
				1	49	0	22.96
				1	99	0	22.89
				50	0	1	21.78
				50	25	1	21.78
				50	49	1	21.92
				100	0	1	21.69
			16QAM	1	0	1	22.92
				1	49	1	22.69
				1	99	1	23.28
				50	0	2	21.73
				50	25	2	21.73
				50	49	2	21.75
				100	0	2	21.78
	18900	1880.0	QPSK	1	0	0	22.76
				1	49	0	22.76
				1	99	0	22.75
				50	0	1	21.70
				50	25	1	21.70
				50	49	1	21.56
				100	0	1	21.82
			16QAM	1	0	1	21.89
				1	49	1	21.81
				1	99	1	21.83
				50	0	2	20.93
				50	25	2	20.92
				50	49	2	21.16
				100	0	2	20.86
	19100	1900.0	QPSK	1	0	0	22.16
				1	49	0	21.96
1				99	0	22.65	
50				0	1	20.87	
50				25	1	20.88	
50				49	1	20.78	
100				0	1	20.86	
16QAM			1	0	1	21.57	
			1	49	1	21.62	
			1	99	1	21.64	
			50	0	2	20.94	
			50	25	2	20.95	
			50	49	2	20.79	
			100	0	2	20.77	

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Averagepower (dBm)
15MHz	18675	1857.5	QPSK	1	0	0	22.72
				1	38	0	22.64
				1	74	0	22.61
				38	0	1	21.71
				38	18	1	21.71
				38	37	1	21.71
				75	0	1	21.70
			16QAM	1	0	1	22.62
				1	38	1	22.47
				1	74	1	22.52
				38	0	2	21.70
				38	18	2	21.70
				38	37	2	21.70
				75	0	2	21.69
	18900	1880.0	QPSK	1	0	0	22.71
				1	38	0	22.66
				1	74	0	22.67
				38	0	1	21.67
				38	18	1	21.68
				38	37	1	21.68
				75	0	1	21.69
			16QAM	1	0	1	21.78
				1	38	1	21.78
				1	74	1	21.88
				38	0	2	21.71
				38	18	2	21.70
				38	37	2	21.71
				75	0	2	20.83
	19125	1902.5	QPSK	1	0	0	21.84
				1	38	0	21.74
1				74	0	21.79	
38				0	1	21.69	
38				18	1	21.69	
38				37	1	21.69	
75				0	1	20.78	
16QAM			1	0	1	22.23	
			1	38	1	22.06	
			1	74	1	22.28	
			38	0	2	21.68	
			38	18	2	21.68	
			38	37	2	21.68	
			75	0	2	20.78	

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Averagepower (dBm)
10MHz	18650	1855.0	QPSK	1	0	0	22.77
				1	24	0	22.70
				1	49	0	22.71
				25	0	1	21.82
				25	12	1	21.81
				25	25	1	21.78
				50	0	1	21.85
			16QAM	1	0	1	22.69
				1	24	1	22.63
				1	49	1	22.63
				25	0	2	21.62
				25	12	2	21.62
				25	25	2	21.67
				50	0	2	21.76
	18900	1880.0	QPSK	1	0	0	22.70
				1	24	0	22.67
				1	49	0	22.74
				25	0	1	21.72
				25	12	1	21.72
				25	25	1	21.63
				50	0	1	21.74
			16QAM	1	0	1	21.79
				1	24	1	21.86
				1	49	1	21.92
				25	0	2	20.88
				25	12	2	20.83
				25	25	2	20.93
				50	0	2	20.94
	19150	1905.0	QPSK	1	0	0	21.65
				1	24	0	21.66
1				49	0	21.63	
25				0	1	20.83	
25				12	1	20.84	
25				25	1	20.91	
50				0	1	20.85	
16QAM			1	0	1	22.24	
			1	24	1	22.25	
			1	49	1	22.30	
			25	0	2	20.84	
			25	12	2	20.85	
			25	25	2	20.85	
			50	0	2	20.87	

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Averagepower (dBm)
5MHz	18625	1852.5	QPSK	1	0	0	22.71
				1	12	0	22.65
				1	24	0	22.66
				12	0	1	21.82
				12	6	1	21.82
				12	13	1	21.82
				25	0	1	21.81
			16QAM	1	0	1	22.68
				1	12	1	22.62
				1	24	1	22.61
				12	0	2	21.76
				12	6	2	21.65
				12	13	2	21.67
				25	0	2	21.73
	18900	1880.0	QPSK	1	0	0	22.91
				1	12	0	22.87
				1	24	0	22.85
				12	0	1	21.79
				12	6	1	21.79
				12	13	1	21.71
				25	0	1	21.69
			16QAM	1	0	1	21.23
				1	12	1	21.26
				1	24	1	21.29
				12	0	2	20.82
				12	6	2	20.83
				12	13	2	20.85
				25	0	2	21.02
	19175	1907.5	QPSK	1	0	0	21.90
				1	12	0	21.90
				1	24	0	21.83
				12	0	1	20.88
				12	6	1	20.88
				12	13	1	20.85
				25	0	1	20.78
			16QAM	1	0	1	21.52
1				12	1	21.53	
1				24	1	21.57	
12				0	2	20.84	
12				6	2	20.84	
12				13	2	20.81	
25				0	2	20.89	

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
3MHz	18615	1851.5	QPSK	1	0	0	22.69
				1	8	0	22.80
				1	14	0	22.68
				8	0	1	21.76
				8	4	1	21.76
				8	8	1	21.89
				15	0	1	21.75
			16QAM	1	0	1	22.63
				1	8	1	22.63
				1	14	1	22.60
				8	0	2	21.73
				8	4	2	21.73
				8	8	2	21.67
				15	0	2	21.70
	18900	1880.0	QPSK	1	0	0	22.59
				1	8	0	22.63
				1	14	0	22.64
				8	0	1	21.64
				8	4	1	21.64
				8	7	1	21.73
				15	0	1	21.73
			16QAM	1	0	1	21.69
				1	8	1	21.56
				1	14	1	21.61
				8	0	2	21.07
				8	4	2	21.02
				8	8	2	21.06
				15	0	2	20.89
	19185	1908.5	QPSK	1	0	0	21.49
				1	8	0	21.50
				1	14	0	21.48
				8	0	1	20.91
				8	4	1	20.91
				8	8	1	21.01
				15	0	1	20.75
			16QAM	1	0	1	21.54
1				8	1	21.54	
1				14	1	21.58	
8				0	2	20.94	
8				4	2	20.94	
8				8	2	20.92	
15				0	2	20.85	

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	M PR	Average power (dBm)
1.4MHz	18607	1850.7	QPSK	1	0	0	22.83
				1	2	0	22.82
				1	5	0	22.83
				3	0	0	22.90
				3	1	0	22.88
				3	2	0	22.89
				6	0	1	21.70
			16QAM	1	0	1	22.63
				1	2	1	22.58
				1	5	1	22.63
				3	0	1	22.77
				3	1	1	22.76
				3	2	1	22.74
				6	0	2	21.65
	18900	1880.0	QPSK	1	0	0	22.73
				1	2	0	22.71
				1	5	0	22.68
				3	0	0	22.71
				3	1	0	22.70
				3	2	0	22.73
				6	0	1	21.69
			16QAM	1	0	1	22.22
				1	2	1	22.29
				1	5	1	22.20
				3	0	1	21.43
				3	1	1	21.45
				3	2	1	21.45
				6	0	2	20.86
	19193	1909.3	QPSK	1	0	0	21.67
				1	2	0	21.71
1				5	0	21.58	
3				0	0	21.50	
3				1	0	21.51	
3				2	0	21.49	
6				0	1	20.64	
16QAM			1	0	1	21.95	
			1	2	1	22.11	
			1	5	1	21.89	
			3	0	1	21.82	
			3	1	1	21.86	
			3	2	1	21.84	
			6	0	2	20.98	

LTE Band 4

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Averagepower (dBm)
20MHz	20050	1720.0	QPSK	1	0	0	24.17
				1	49	0	23.64
				1	99	0	23.22
				50	0	1	22.77
				50	25	1	22.78
				50	49	1	22.33
				100	0	1	22.44
			16QAM	1	0	1	23.33
				1	49	1	22.98
				1	99	1	22.85
				50	0	2	22.06
				50	25	2	22.06
				50	49	2	21.72
				100	0	2	21.94
	20175	1732.5	QPSK	1	0	0	22.79
				1	49	0	22.86
				1	99	0	23.30
				50	0	1	21.81
				50	25	1	21.81
				50	49	1	21.99
				100	0	1	21.81
			16QAM	1	0	1	22.74
				1	49	1	22.26
				1	99	1	21.82
				50	0	2	21.87
				50	25	2	21.87
				50	49	2	21.45
				100	0	2	21.59
	20300	1745.0	QPSK	1	0	0	22.52
				1	49	0	22.15
				1	99	0	22.16
				50	0	1	21.18
				50	25	1	21.18
				50	49	1	20.93
				100	0	1	21.11
			16QAM	1	0	1	21.39
1				49	1	21.44	
1				99	1	21.91	
50				0	2	20.88	
50				25	2	20.88	
50				49	2	21.19	
100				0	2	20.98	

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
15MHz	20025	1717.5	QPSK	1	0	0	23.88
				1	37	0	23.53
				1	74	0	23.16
				36	0	1	22.67
				36	16	1	22.66
				36	35	1	22.66
				75	0	1	22.66
			16QAM	1	0	1	23.01
				1	37	1	22.71
				1	74	1	22.55
				36	0	2	21.90
				36	16	2	21.90
				36	35	2	21.90
				75	0	2	21.90
	20175	1732.5	QPSK	1	0	0	22.72
				1	37	0	22.82
				1	74	0	23.09
				36	0	1	21.96
				36	16	1	21.97
				36	35	1	21.97
				75	0	1	21.89
			16QAM	1	0	1	23.09
				1	37	1	22.69
				1	74	1	22.33
				36	0	2	22.66
				36	16	2	22.66
				36	35	2	22.66
				75	0	2	21.72
	20325	1747.5	QPSK	1	0	0	22.30
				1	37	0	21.99
1				74	0	21.89	
36				0	1	21.90	
36				16	1	21.90	
36				35	1	21.90	
75				0	1	20.99	
16QAM			1	0	1	22.54	
			1	37	1	22.66	
			1	74	1	22.94	
			36	0	2	21.88	
			36	16	2	21.88	
			36	35	2	21.89	
			75	0	2	21.03	

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Averagepower (dBm)
10MHz	20000	1715.0	QPSK	1	0	0	23.91
				1	24	0	23.67
				1	49	0	23.40
				25	0	1	22.99
				25	12	1	22.99
				25	25	1	22.68
				50	0	1	22.85
			16QAM	1	0	1	22.96
				1	24	1	22.80
				1	49	1	22.71
				25	0	2	22.04
				25	12	2	22.04
				25	25	2	21.75
				50	0	2	21.90
	20175	1732.5	QPSK	1	0	0	22.79
				1	24	0	22.97
				1	49	0	23.16
				25	0	1	21.90
				25	12	1	21.89
				25	25	1	22.02
				50	0	1	22.04
			16QAM	1	0	1	23.08
				1	24	1	22.85
				1	49	1	22.58
				25	0	2	21.91
				25	12	2	21.91
				25	25	2	21.73
				50	0	2	21.88
	20350	1750.0	QPSK	1	0	0	22.01
				1	24	0	21.84
1				49	0	21.70	
25				0	1	21.13	
25				12	1	21.17	
25				25	1	21.01	
50				0	1	20.97	
16QAM			1	0	1	22.53	
			1	24	1	22.72	
			1	49	1	22.94	
			25	0	2	20.96	
			25	12	2	20.96	
			25	25	2	21.23	
			50	0	2	21.18	

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Averagepower (dBm)
5MHz	19975	1712.5	QPSK	1	0	0	23.94
				1	12	0	23.81
				1	24	0	23.75
				12	0	1	23.01
				12	6	1	23.01
				12	11	1	22.84
				25	0	1	22.94
			16QAM	1	0	1	22.82
				1	12	1	22.79
				1	24	1	22.74
				12	0	2	21.89
				12	6	2	21.89
				12	11	2	21.85
				25	0	2	21.89
	20175	1732.5	QPSK	1	0	0	22.99
				1	12	0	23.11
				1	24	0	23.23
				12	0	1	22.01
				12	6	1	22.00
				12	11	1	22.28
				25	0	1	22.18
			16QAM	1	0	1	22.44
				1	12	1	22.34
				1	24	1	22.25
				12	0	2	22.06
				12	6	2	22.04
				12	11	2	21.97
				25	0	2	22.11
	20375	1752.5	QPSK	1	0	0	22.12
				1	12	0	22.05
1				24	0	22.00	
12				0	1	21.04	
12				6	1	21.05	
12				11	1	20.97	
25				0	1	20.93	
16QAM			1	0	1	21.56	
			1	12	1	21.68	
			1	24	1	21.75	
			12	0	2	21.07	
			12	6	2	21.08	
			12	11	2	21.29	
			25	0	2	21.31	

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Averagepower (dBm)
3MHz	19965	1711.5	QPSK	1	0	0	23.98
				1	7	0	23.87
				1	14	0	23.80
				8	0	1	23.01
				8	4	1	23.00
				8	7	1	22.97
			16QAM	15	0	1	22.93
				1	0	1	22.84
				1	7	1	22.81
				1	14	1	22.78
				8	0	2	21.90
				8	4	2	21.90
	20175	1732.5	QPSK	8	7	2	21.89
				15	0	2	21.79
				1	0	0	23.09
				1	7	0	23.11
				1	14	0	23.20
				8	0	1	22.12
			16QAM	8	4	1	22.12
				8	7	1	22.10
				15	0	1	22.12
				1	0	1	22.88
				1	7	1	22.78
				1	14	1	22.82
	20385	1753.5	QPSK	8	0	2	22.20
				8	4	2	22.20
				8	7	2	22.14
				15	0	2	22.11
				1	0	0	21.57
				1	7	0	21.67
			16QAM	1	14	0	21.79
				8	0	1	21.06
				8	4	1	21.06
				8	7	1	21.05
				15	0	1	20.80
				1	0	1	22.32
16QAM	1	7	1	22.32			
	1	14	1	22.38			
	8	0	2	21.40			
	8	4	2	21.35			
	8	7	2	21.36			
	15	0	2	21.26			

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
1.4MHz	19957	1710.7	QPSK	1	0	0	23.96
				1	2	0	23.99
				1	5	0	23.94
				3	0	0	24.11
				3	1	0	24.10
				3	2	0	24.11
			16QAM	6	0	1	23.07
				1	0	1	22.81
				1	2	1	22.77
				1	5	1	22.80
				3	0	1	22.95
				3	1	1	22.95
	20175	1732.5	QPSK	3	2	1	22.95
				6	0	2	21.91
				1	0	0	23.29
				1	2	0	23.28
				1	5	0	23.31
				3	0	0	23.25
			16QAM	3	1	0	23.24
				3	2	0	23.26
				6	0	1	22.17
				1	0	1	23.01
				1	2	1	23.06
				1	5	1	22.99
	20393	1754.3	QPSK	3	0	1	23.05
				3	1	1	23.07
				3	2	1	23.03
				6	0	2	22.26
				1	0	0	21.85
				1	2	0	21.85
16QAM			1	5	0	21.83	
			3	0	0	21.90	
			3	1	0	21.90	
			3	2	0	21.87	
			6	0	1	21.03	
			1	0	1	22.48	
16QAM	1	2	1	22.49			
	1	5	1	22.49			
	3	0	1	22.06			
	3	1	1	22.04			
	3	2	1	22.11			
	6	0	2	21.44			

LTE Band 5

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Averagepower (dBm)
10MHz	20450	829	QPSK	1	0	0	24.37
				1	24	0	23.93
				1	49	0	23.81
				25	0	1	23.19
				25	12	1	23.19
				25	25	1	22.74
				50	0	1	22.98
			16QAM	1	0	1	23.66
				1	24	1	23.41
				1	49	1	23.33
				25	0	2	22.68
				25	12	2	22.68
				25	25	2	22.28
				50	0	2	22.62
	20525	836.5	QPSK	1	0	0	23.59
				1	24	0	23.43
				1	49	0	23.48
				25	0	1	22.51
				25	12	1	22.51
				25	25	1	22.59
				50	0	1	22.47
			16QAM	1	0	1	22.97
				1	24	1	22.78
				1	49	1	22.54
				25	0	2	22.26
				25	12	2	22.25
				25	25	2	21.93
				50	0	2	22.04
	20600	844	QPSK	1	0	0	22.75
				1	24	0	22.48
1				49	0	22.32	
25				0	1	21.62	
25				12	1	21.62	
25				25	1	21.34	
50				0	1	21.57	
16QAM			1	0	1	22.22	
			1	24	1	22.18	
			1	49	1	22.23	
			25	0	2	21.87	
			25	12	2	21.86	
			25	25	2	21.55	
			50	0	2	21.75	

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Averagepower (dBm)
5MHz	20425	826.5	QPSK	1	0	0	24.16
				1	12	0	24.00
				1	24	0	23.82
				12	0	1	23.19
				12	6	1	23.19
				12	11	1	23.09
				25	0	1	23.13
			16QAM	1	0	1	23.51
				1	12	1	23.44
				1	24	1	23.31
				12	0	2	22.48
				12	6	2	22.48
				12	11	2	22.37
				25	0	2	22.44
	20525	836.5	QPSK	1	0	0	23.51
				1	12	0	23.35
				1	24	0	23.48
				12	0	1	22.46
				12	6	1	22.45
				12	11	1	22.47
				25	0	1	22.52
			16QAM	1	0	1	23.30
				1	12	1	23.06
				1	24	1	23.12
				12	0	2	22.30
				12	6	2	22.30
				12	11	2	22.09
				25	0	2	22.17
	20625	846.5	QPSK	1	0	0	21.89
				1	12	0	21.74
1				24	0	21.66	
12				0	1	21.54	
12				6	1	21.54	
12				11	1	21.43	
25				0	1	21.52	
16QAM			1	0	1	21.81	
			1	12	1	21.85	
			1	24	1	21.96	
			12	0	2	21.49	
			12	6	2	21.50	
			12	11	2	21.58	
			25	0	2	21.62	

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Averagepower (dBm)
3MHz	20415	825.5	QPSK	1	0	0	24.08
				1	7	0	24.02
				1	14	0	23.96
				8	0	1	23.17
				8	4	1	23.09
				8	7	1	23.12
			16QAM	15	0	1	23.10
				1	0	1	23.66
				1	7	1	23.57
				1	14	1	23.54
				8	0	2	22.40
				8	4	2	22.40
	20525	836.5	QPSK	8	7	2	22.36
				15	0	2	22.39
				1	0	0	23.39
				1	7	0	23.39
				1	14	0	23.51
				8	0	1	22.49
			16QAM	8	4	1	22.49
				8	7	1	22.46
				15	0	1	22.48
				1	0	1	23.22
				1	7	1	23.04
				1	14	1	23.18
	20635	847.5	QPSK	8	0	2	22.39
				8	4	2	22.42
				8	7	2	22.28
				15	0	2	22.16
				1	0	0	22.16
				1	7	0	22.22
16QAM			1	14	0	22.06	
			8	0	1	21.59	
			8	4	1	21.60	
			8	7	1	21.56	
			15	0	1	21.38	
			1	0	1	22.29	
16QAM	1	7	1	22.19			
	1	14	1	22.40			
	8	0	2	21.55			
	8	4	2	21.55			
	8	7	2	21.77			
	15	0	2	21.51			

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Averagepower (dBm)
1.4MHz	20407	824.7	QPSK	1	0	0	24.23
				1	2	0	24.21
				1	5	0	24.18
				3	0	0	24.22
				3	1	0	24.21
				3	2	0	24.19
			16QAM	6	0	1	23.10
				1	0	1	23.46
				1	2	1	23.41
				1	5	1	23.37
				3	0	1	23.47
				3	1	1	23.46
	20525	836.5	QPSK	3	2	1	23.44
				6	0	2	22.46
				1	0	0	23.52
				1	2	0	23.55
				1	5	0	23.52
				3	0	0	23.50
			16QAM	3	1	0	23.50
				3	2	0	23.51
				6	0	1	22.49
				1	0	1	23.52
				1	2	1	23.57
				1	5	1	23.37
	20643	848.3	QPSK	3	0	1	22.85
				3	1	1	22.85
				3	2	1	22.72
				6	0	2	22.31
				1	0	0	23.04
				1	2	0	23.11
16QAM			1	5	0	23.19	
			3	0	0	22.23	
			3	1	0	22.34	
			3	2	0	22.18	
			6	0	1	21.70	
			1	0	1	23.03	
16QAM	1	2	1	23.15			
	1	5	1	23.13			
	3	0	1	22.22			
	3	1	1	22.23			
	3	2	1	22.23			
	6	0	2	21.90			

LTE Band 7

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Averagepower (dBm)
20MHz	20850	2510	QPSK	1	0	0	25.54
				1	49	0	25.00
				1	99	0	24.51
				50	0	1	24.18
				50	25	1	24.18
				50	49	1	23.51
			16QAM	100	0	1	23.85
				1	0	1	23.86
				1	49	1	23.73
				1	99	1	23.86
				50	0	2	22.94
				50	25	2	22.95
	21100	2535	QPSK	50	49	2	22.87
				100	0	2	22.83
				1	0	0	24.23
				1	49	0	24.68
				1	99	0	25.15
				50	0	1	23.32
			16QAM	50	25	1	23.32
				50	49	1	23.93
				100	0	1	23.62
				1	0	1	24.30
				1	49	1	23.71
				1	99	1	23.28
	21350	2560	QPSK	50	0	2	23.35
				50	25	2	23.36
				50	49	2	22.78
				100	0	2	23.02
				1	0	0	23.43
				1	49	0	23.23
16QAM			1	99	0	23.40	
			50	0	1	22.00	
			50	25	1	22.01	
			50	49	1	22.02	
			100	0	1	22.13	
			1	0	1	23.07	
1	49	1	23.48				
1	99	1	23.94				
50	0	2	22.61				
50	25	2	22.62				
50	49	2	23.18				
100	0	2	22.68				

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Averagepower (dBm)
15MHz	20825	2507.5	QPSK	1	0	0	25.17
				1	37	0	24.83
				1	74	0	24.41
				36	0	1	23.97
				36	16	1	23.98
				36	35	1	23.98
				75	0	1	23.98
			16QAM	1	0	1	23.77
				1	37	1	23.67
				1	74	1	23.71
				36	0	2	22.80
				36	16	2	22.80
				36	35	2	22.80
				75	0	2	22.80
	21100	2535	QPSK	1	0	0	24.16
				1	37	0	24.53
				1	74	0	24.79
				36	0	1	23.76
				36	16	1	23.77
				36	35	1	23.77
				75	0	1	23.59
			16QAM	1	0	1	24.39
				1	37	1	24.11
				1	74	1	23.73
				36	0	2	23.98
				36	16	2	23.98
				36	35	2	23.98
				75	0	2	23.13
	21375	2562.5	QPSK	1	0	0	23.02
				1	37	0	22.94
1				74	0	23.00	
36				0	1	22.80	
36				16	1	22.80	
36				35	1	22.80	
75				0	1	22.05	
16QAM			1	0	1	23.96	
			1	37	1	24.26	
			1	74	1	24.59	
			36	0	2	23.77	
			36	16	2	23.58	
			36	35	2	23.59	
			75	0	2	22.86	

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Averagepower (dBm)
10MHz	20800	2505	QPSK	1	0	0	25.15
				1	24	0	24.95
				1	49	0	24.66
				25	0	1	24.34
				25	12	1	24.34
				25	25	1	24.06
				50	0	1	24.11
			16QAM	1	0	1	23.84
				1	24	1	23.76
				1	49	1	23.78
				25	0	2	22.78
				25	12	2	22.78
				25	25	2	22.77
				50	0	2	22.79
	21100	2535	QPSK	1	0	0	24.39
				1	24	0	24.59
				1	49	0	24.83
				25	0	1	23.66
				25	12	1	23.66
				25	25	1	23.88
				50	0	1	23.78
			16QAM	1	0	1	24.52
				1	24	1	24.30
				1	49	1	23.95
				25	0	2	23.36
				25	12	2	23.37
				25	25	2	23.08
				50	0	2	23.36
	21400	2565	QPSK	1	0	0	22.85
				1	24	0	22.85
1				49	0	22.82	
25				0	1	22.05	
25				12	1	22.06	
25				25	1	22.02	
50				0	1	22.01	
16QAM			1	0	1	24.08	
			1	24	1	24.32	
			1	49	1	24.49	
			25	0	2	22.90	
			25	12	2	22.89	
			25	25	2	23.18	
			50	0	2	23.04	

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Averagepower (dBm)
5MHz	20775	2502.5	QPSK	1	0	0	25.29
				1	12	0	25.17
				1	24	0	25.12
				12	0	1	24.31
				12	6	1	24.31
				12	13	1	24.17
				25	0	1	24.18
			16QAM	1	0	1	23.45
				1	12	1	23.40
				1	24	1	23.54
				12	0	2	22.70
				12	6	2	22.70
				12	13	2	22.75
				25	0	2	22.75
	21100	2535	QPSK	1	0	0	25.06
				1	12	0	25.07
				1	24	0	25.17
				12	0	1	23.99
				12	6	1	23.99
				12	13	1	24.07
				25	0	1	23.98
			16QAM	1	0	1	23.98
				1	12	1	23.87
				1	24	1	23.73
				12	0	2	23.50
				12	6	2	23.51
				12	13	2	23.37
				25	0	2	23.52
	21425	2567.5	QPSK	1	0	0	22.95
				1	12	0	22.95
1				24	0	22.96	
12				0	1	21.95	
12				6	1	21.95	
12				13	1	21.95	
25				0	1	21.97	
16QAM			1	0	1	23.65	
			1	12	1	23.72	
			1	24	1	23.84	
			12	0	2	22.89	
			12	6	2	22.93	
			12	13	2	22.98	
			25	0	2	23.16	

LTE Band 12

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Averagepower (dBm)
10MHz	23060	704.0	QPSK	1	0	0	25.01
				1	24	0	24.96
				1	49	0	24.74
				25	0	1	23.98
				25	12	1	23.98
				25	25	1	23.73
				50	0	1	23.80
			16QAM	1	0	1	24.87
				1	24	1	24.79
				1	49	1	24.67
				25	0	2	23.85
				25	12	2	23.85
				25	25	2	23.69
				50	0	2	23.78
	23095	707.5	QPSK	1	0	0	24.88
				1	24	0	24.67
				1	49	0	24.52
				25	0	1	23.71
				25	12	1	23.71
				25	25	1	23.57
				50	0	1	23.59
			16QAM	1	0	1	23.70
				1	24	1	23.72
				1	49	1	23.64
				25	0	2	23.38
				25	12	2	23.38
				25	25	2	23.32
				50	0	2	22.89
	23130	711.0	QPSK	1	0	0	24.42
				1	24	0	24.40
1				49	0	24.14	
25				0	1	23.29	
25				12	1	23.28	
25				25	1	22.76	
50				0	1	22.84	
16QAM			1	0	1	23.54	
			1	24	1	23.31	
			1	49	1	23.19	
			25	0	2	22.89	
			25	12	2	22.82	
			25	25	2	22.70	
			50	0	2	22.71	

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Averagepower (dBm)
5MHz	23035	701.5	QPSK	1	0	0	25.05
				1	12	0	25.16
				1	24	0	25.06
				12	0	1	24.01
				12	6	1	24.01
				12	13	1	23.90
				25	0	1	24.00
			16QAM	1	0	1	24.79
				1	12	1	24.71
				1	24	1	24.65
				12	0	2	23.81
				12	6	2	23.81
				12	13	2	23.72
				25	0	2	23.77
	23095	707.5	QPSK	1	0	0	24.73
				1	12	0	24.56
				1	24	0	24.58
				12	0	1	23.66
				12	6	1	23.66
				12	13	1	23.56
				25	0	1	23.53
			16QAM	1	0	1	23.94
				1	12	1	23.96
				1	24	1	24.03
				12	0	2	22.93
				12	6	2	22.94
				12	13	2	23.33
				25	0	2	23.38
	23155	713.5	QPSK	1	0	0	23.65
				1	12	0	23.62
1				24	0	23.57	
12				0	1	23.07	
12				6	1	23.11	
12				13	1	22.62	
25				0	1	22.64	
16QAM			1	0	1	23.05	
			1	12	1	22.88	
			1	24	1	22.88	
			12	0	2	22.68	
			12	6	2	22.66	
			12	13	2	22.54	
			25	0	2	22.65	

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Averagepower (dBm)
3MHz	23025	700.5	QPSK	1	0	0	25.08
				1	7	0	24.89
				1	14	0	25.04
				8	0	1	23.98
				8	4	1	23.98
				8	7	1	23.85
			16QAM	15	0	1	23.85
				1	0	1	24.83
				1	7	1	24.76
				1	14	1	24.73
				8	0	2	23.79
				8	4	2	23.79
	23095	707.5	QPSK	8	7	2	23.74
				15	0	2	23.77
				1	0	0	24.58
				1	7	0	24.59
				1	14	0	24.56
				8	0	1	23.54
			16QAM	8	4	1	23.53
				8	7	1	23.43
				15	0	1	23.51
				1	0	1	23.76
				1	7	1	23.66
				1	14	1	23.73
	23165	714.5	QPSK	8	0	2	23.06
				8	4	2	22.98
				8	7	2	23.39
				15	0	2	22.80
				1	0	0	23.74
				1	7	0	23.75
16QAM			1	14	0	23.76	
			8	0	1	23.09	
			8	4	1	23.05	
			8	7	1	22.79	
			15	0	1	22.77	
			1	0	1	23.17	
16QAM	1	7	1	23.06			
	1	14	1	23.13			
	8	0	2	22.63			
	8	4	2	22.65			
	8	7	2	22.57			
	15	0	2	22.26			

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Averagepower (dBm)
1.4MHz	23017	699.7	QPSK	1	0	0	24.96
				1	2	0	24.96
				1	5	0	25.01
				3	0	0	24.96
				3	1	0	24.95
				3	2	0	24.97
				6	0	1	23.88
			16QAM	1	0	1	24.73
				1	2	1	24.77
				1	5	1	24.74
				3	0	1	24.87
				3	1	1	24.83
				3	2	1	24.80
				6	0	2	23.84
	23095	707.5	QPSK	1	0	0	24.65
				1	2	0	24.56
				1	5	0	24.53
				3	0	0	24.57
				3	1	0	24.56
				3	2	0	24.55
				6	0	1	23.52
			16QAM	1	0	1	23.68
				1	2	1	23.72
				1	5	1	23.73
				3	0	1	23.45
				3	1	1	23.44
				3	2	1	23.48
				6	0	2	22.70
	23173	715.3	QPSK	1	0	0	24.39
				1	2	0	24.52
1				5	0	24.52	
3				0	0	23.50	
3				1	0	23.53	
3				2	0	23.64	
6				0	1	23.00	
16QAM			1	0	1	23.20	
			1	2	1	23.15	
			1	5	1	23.12	
			3	0	1	22.90	
			3	1	1	22.89	
			3	2	1	22.95	
			6	0	2	22.42	

According to 3GPP 36.521 sub-clause 6.2.3.3, the maximum output power is allowed to be reduced by following the table.

Table 6.2.3.3-1: Maximum Power Reduction (MPR) for Power Class 3

Modulation	Channel bandwidth / Transmission bandwidth configuration [RB]						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2

The device supports MPR to solve linearity issues (ACLR or SEM) due to the higher peak-to average ratios (PAR) of the HSUPA signal. This prevents saturating the full range of the TX DAC inside of device and provides a reduced power output to the RF transceiver chip according to the Cubic Metric (For PRACH, PUCCH and SRS transmission, the allowed MPR is according to that specified for PUSCH QPSK modulation for the corresponding transmission bandwidth.).

When PRACH, PUCCH are present the beta gains on those channels are reduced firsts to try to get the power under the allowed limit. If the beta gains are lowered as far as possible, then a hard limiting is applied at the maximum allowed level.

For each subframe, the MPR is evaluated per slot and given by the maximum value taken over the transmission(s) within the slot, the maximum MPR over the two slots is then applied for the entire subframe.

For the UE maximum output power modified by MPR, the power limits specified in subclause 6.2.5.3 apply. The normative reference for this requirement is TS 36.101 clause 6.2.3.

The end effect is that the DUT output power is identical to the case where there is no MPR in the device.

6.2 RADIATED OUTPUT POWER

6.2.1 MEASUREMENT METHOD

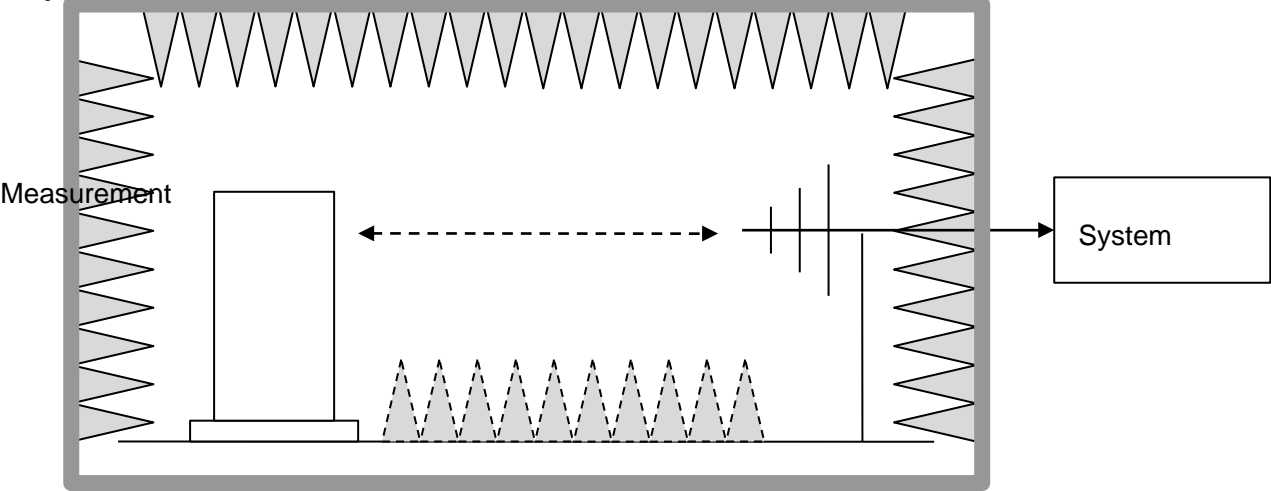
The measurements procedures specified in ANSI/TIA-603-E-2016 were applied.

- 1 In an anechoic antenna test chamber, a half-wave dipole antenna for the frequency band of interest is placed at the reference centre of the chamber. An RF Signal source for the frequency band of interest is connected to the dipole with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A known (measured) power (P_{in}) is applied to the input of the dipole, and the power received (P_r) at the chamber's probe antenna is recorded.
- 2 The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established as $AR_{pl} = P_{in} + 2.15 - P_r$. The AR_{pl} is the attenuation of "reference path loss", and including the gain of receive antenna, the cable loss and the air loss. The measurement results are obtained as described below: $Power = P_{Mea} + AR_{pl}$
- 3 The EUT is substituted for the dipole at the reference centre of the chamber and a scan is performed to obtain the radiation pattern.
- 4 From the radiation pattern, the co-ordinates where the maximum antenna gain occurs are identified.
- 5 The EUT is then put into continuously transmitting mode at its maximum power level.
- 6 Power mode measurements are performed with the receiving antenna placed at the coordinates determined in Step 3 to determine the output power as defined in Rule 27.50(d)(4). The "reference path loss" from Step 1 is added to this result.
- 7 This value is EIRP since the measurement is calibrated using a half-wave dipole antenna of known gain (2.15 dBi) and known input power (P_{in}).
- 8 ERP can be calculated from EIRP by subtracting the gain of the dipole, $ERP = EIRP - 2.15 \text{ dBi}$.

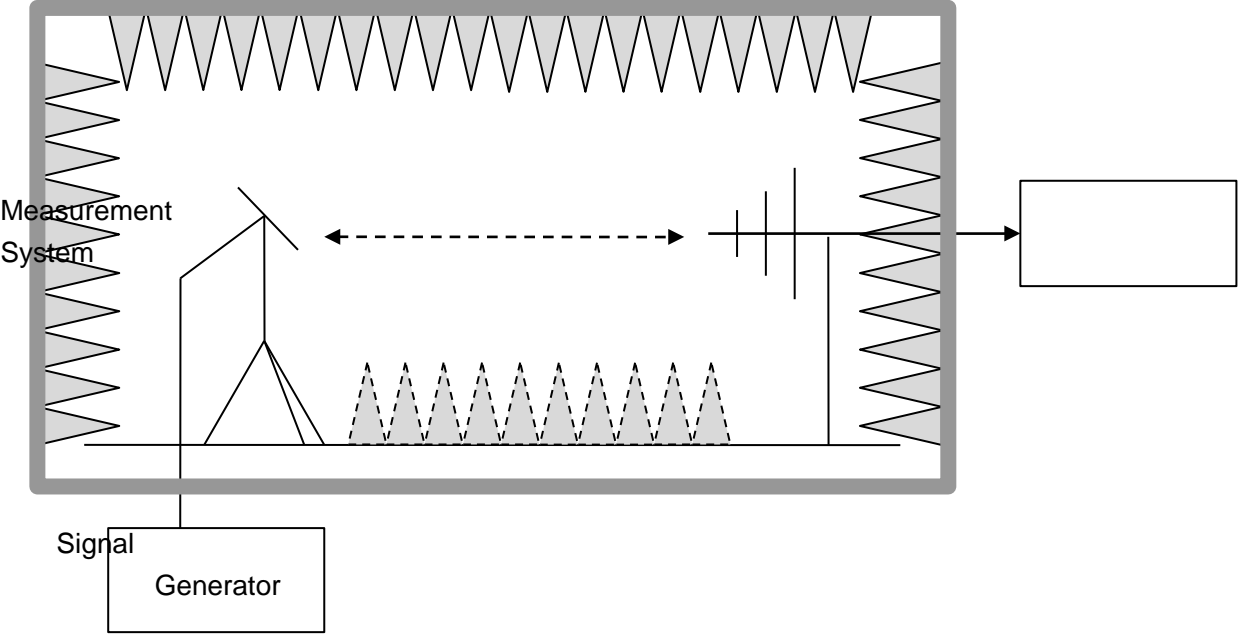
Test Setup

NOTE: Effectiveradiatedpower (ERP) referstothe radiationpower outputoftheEUT,
assumingallemissionsare radiatedfromhalf-wave dipoleantennas.

Step 1: Pre-test



Step 2: Substitution method to verify the maximum ERP



6.2.2 PROVISIONS APPLICABLE

This is the test for the maximum radiated power from the EUT.Rule Part 24.232(c)specifies, “Mobile/portable stations are limited to 2 watts e.i.r.p.

Mode	FCC Part Section(s)	Nominal Peak Power
LTE Band 2	24.229(b)	<=33dBm (2W)
LTE Band 4	24.5(h)	<=30dBm (1W)
LTE Band 5	22.905(a)	<=38.45dBm (7W)
LTE Band 7	27.50(i)(2)	<=33dBm (2W)
LTE Band 12	27.5(c)	<=34.77dBm(3W)

6.2.3 MEASUREMENT RESULT

EIRP for LTE Band 2

Frequency	Channel Bandwidth	Mode.	RB	Substituted level	Antenna Polarization	Antenna Gain correction	Cable Loss	Absolute Level	Limit (dBm)
1850.7	1.4	QPSK	1/0	9.98	V	7.95	0.79	17.14	33
1880.0	1.4	QPSK	1/0	7.76	V	7.95	0.79	14.92	33
1909.3	1.4	QPSK	1/0	7.16	V	7.95	0.79	14.32	33
1850.7	1.4	QPSK	1/0	9.61	H	7.95	0.79	16.77	33
1880.0	1.4	QPSK	1/0	8.06	H	7.95	0.79	15.22	33
1909.3	1.4	QPSK	1/0	8.56	H	7.95	0.79	15.72	33
1850.7	1.4	16-QAM	1/5	7.55	V	7.95	0.79	14.71	33
1880.0	1.4	16-QAM	1/0	9.05	V	7.95	0.79	16.21	33
1909.3	1.4	16-QAM	1/0	6.63	V	7.95	0.79	13.79	33
1850.7	1.4	16-QAM	1/5	7.73	H	7.95	0.79	14.89	33
1880.0	1.4	16-QAM	1/0	7.12	H	7.95	0.79	14.28	33
1909.3	1.4	16-QAM	1/0	9.21	H	7.95	0.79	16.37	33
1851.5	3	QPSK	1/0	5.73	V	7.95	0.79	12.89	33
1880.0	3	QPSK	1/0	9.84	V	7.95	0.79	17	33
1908.5	3	QPSK	1/0	9.47	V	7.95	0.79	16.63	33
1851.5	3	QPSK	1/0	6.63	H	7.95	0.79	13.79	33
1880.0	3	QPSK	1/0	8.48	H	7.95	0.79	15.64	33
1908.5	3	QPSK	1/0	7.23	H	7.95	0.79	14.39	33
1851.5	3	16-QAM	1/0	9.06	V	7.95	0.79	16.22	33
1880.0	3	16-QAM	1/0	8.04	V	7.95	0.79	15.2	33
1908.5	3	16-QAM	1/0	7.41	V	7.95	0.79	14.57	33
1851.5	3	16-QAM	1/0	7.3	H	7.95	0.79	14.46	33
1880.0	3	16-QAM	1/0	12.39	H	7.95	0.79	19.55	33
1908.5	3	16-QAM	1/0	13.95	H	7.95	0.79	21.11	33
1852.5	5	QPSK	1/0	14.95	V	7.95	0.79	22.11	33
1880.0	5	QPSK	1/0	14.6	V	7.95	0.79	21.76	33
1907.5	5	QPSK	1/24	15.88	V	7.95	0.79	23.04	33
1852.5	5	QPSK	1/0	14.16	H	7.95	0.79	21.32	33
1880.0	5	QPSK	1/0	8.56	H	7.95	0.79	15.72	33
1907.5	5	QPSK	1/24	8.61	H	7.95	0.79	15.77	33
1852.5	5	16-QAM	1/0	8.64	V	7.95	0.79	15.8	33
1880.0	5	16-QAM	1/0	8.27	V	7.95	0.79	15.43	33
1907.5	5	16-QAM	1/24	6.3	V	7.95	0.79	13.46	33

1852.5	5	16-QAM	1/0	10.78	H	7.95	0.79	17.94	33
1880.0	5	16-QAM	1/0	8.94	H	7.95	0.79	16.1	33
1907.5	5	16-QAM	1/24	7.32	H	7.95	0.79	14.48	33
1855	10	QPSK	1/0	8.31	V	7.95	0.79	15.47	33
1880	10	QPSK	1/49	8.62	V	7.95	0.79	15.78	33
1905	10	QPSK	1/0	6.91	V	7.95	0.79	14.07	33
1855	10	QPSK	1/0	6.08	H	7.95	0.79	13.24	33
1880	10	QPSK	1/49	6.49	H	7.95	0.79	13.65	33
1905	10	QPSK	1/0	9.5	H	7.95	0.79	16.66	33
1855	10	16-QAM	1/0	9.48	V	7.95	0.79	16.64	33
1880	10	16-QAM	1/49	7.2	V	7.95	0.79	14.36	33
1905	10	16-QAM	1/0	6.48	V	7.95	0.79	13.64	33
1855	10	16-QAM	1/0	7.3	H	7.95	0.79	14.46	33
1880	10	16-QAM	1/49	7.25	H	7.95	0.79	14.41	33
1905	10	16-QAM	1/0	7.71	H	7.95	0.79	14.87	33
1857.5	15	QPSK	1/0	9.05	V	7.95	0.79	16.21	33
1880	15	QPSK	1/74	10.73	V	7.95	0.79	17.89	33
1902.5	15	QPSK	1/0	11.85	V	7.95	0.79	19.01	33
1857.5	15	QPSK	1/0	11.13	H	7.95	0.79	18.29	33
1880	15	QPSK	1/74	9.21	H	7.95	0.79	16.37	33
1902.5	15	QPSK	1/0	9.26	H	7.95	0.79	16.42	33
1857.5	15	16-QAM	1/0	8.88	V	7.95	0.79	16.04	33
1880	15	16-QAM	1/74	11.16	V	7.95	0.79	18.32	33
1902.5	15	16-QAM	1/0	8.07	V	7.95	0.79	15.23	33
1857.5	15	16-QAM	1/0	7.19	H	7.95	0.79	14.35	33
1880	15	16-QAM	1/74	10.84	H	7.95	0.79	18	33
1902.5	15	16-QAM	1/0	7	H	7.95	0.79	14.16	33
1860	20	QPSK	1/99	9.35	V	7.95	0.79	16.51	33
1880	20	QPSK	1/99	10.45	V	7.95	0.79	17.61	33
1900	20	QPSK	1/0	8.86	V	7.95	0.79	16.02	33
1860	20	QPSK	1/99	7.78	H	7.95	0.79	14.94	33
1880	20	QPSK	1/99	10.82	H	7.95	0.79	17.98	33
1900	20	QPSK	1/0	8.12	H	7.95	0.79	15.28	33
1860	20	16-QAM	1/99	9.23	V	7.95	0.79	16.39	33
1880	20	16-QAM	1/99	10.09	V	7.95	0.79	17.25	33
1900	20	16-QAM	1/0	10.52	V	7.95	0.79	17.68	33
1860	20	16-QAM	1/99	9.23	H	7.95	0.79	16.39	33

1880	20	16-QAM	1/99	9.81	H	7.95	0.79	16.97	33
1900	20	16-QAM	1/0	8.51	H	7.95	0.79	15.67	33

EIRP for LTE Band 4

Frequency	Channel Bandwidth	Mode.	RB	Substituted level	Antenna Polarization	Antenna Gain correction	Cable Loss	Absolute Level	Limit (dBm)
1710.7	1.4	QPSK	1/0	9.82	V	7.95	0.79	16.98	30
1732.5	1.4	QPSK	1/0	9.38	V	7.95	0.79	16.54	30
1754.3	1.4	QPSK	1/0	11.24	V	7.95	0.79	18.4	30
1710.7	1.4	QPSK	1/0	9.72	H	7.95	0.79	16.88	30
1732.5	1.4	QPSK	1/0	8.95	H	7.95	0.79	16.11	30
1754.3	1.4	QPSK	1/0	8.33	H	7.95	0.79	15.49	30
1710.7	1.4	16-QAM	1/5	10.98	V	7.95	0.79	18.14	30
1732.5	1.4	16-QAM	1/0	10.66	V	7.95	0.79	17.82	30
1754.3	1.4	16-QAM	1/0	9.05	V	7.95	0.79	16.21	30
1710.7	1.4	16-QAM	1/5	8.08	H	7.95	0.79	15.24	30
1732.5	1.4	16-QAM	1/0	8.03	H	7.95	0.79	15.19	30
1754.3	1.4	16-QAM	1/0	10.57	H	7.95	0.79	17.73	30
1711.5	3	QPSK	1/0	10.41	V	7.95	0.79	17.57	30
1732.5	3	QPSK	1/0	10.53	V	7.95	0.79	17.69	30
1753.5	3	QPSK	1/0	13.78	V	7.95	0.79	20.94	30
1711.5	3	QPSK	1/0	11.54	H	7.95	0.79	18.7	30
1732.5	3	QPSK	1/0	10.73	H	7.95	0.79	17.89	30
1753.5	3	QPSK	1/0	9.43	H	7.95	0.79	16.59	30
1711.5	3	16-QAM	1/0	10.3	V	7.95	0.79	17.46	30
1732.5	3	16-QAM	1/0	8.84	V	7.95	0.79	16	30
1753.5	3	16-QAM	1/0	9.86	V	7.95	0.79	17.02	30
1711.5	3	16-QAM	1/0	9.27	H	7.95	0.79	16.43	30
1732.5	3	16-QAM	1/0	13.64	H	7.95	0.79	20.8	30
1753.5	3	16-QAM	1/0	11.45	H	7.95	0.79	18.61	30
1712.5	5	QPSK	1/0	12.63	V	7.95	0.79	19.79	30
1732.5	5	QPSK	1/0	11.45	V	7.95	0.79	18.61	30
1752.5	5	QPSK	1/24	13.47	V	7.95	0.79	20.63	30
1712.5	5	QPSK	1/0	13.7	H	7.95	0.79	20.86	30
1732.5	5	QPSK	1/0	9.48	H	7.95	0.79	16.64	30
1752.5	5	QPSK	1/24	9.78	H	7.95	0.79	16.94	30
1712.5	5	16-QAM	1/0	10.43	V	7.95	0.79	17.59	30
1732.5	5	16-QAM	1/0	9.57	V	7.95	0.79	16.73	30
1752.5	5	16-QAM	1/24	9.22	V	7.95	0.79	16.38	30
1712.5	5	16-QAM	1/0	9.87	H	7.95	0.79	17.03	30
1732.5	5	16-QAM	1/0	10.85	H	7.95	0.79	18.01	30
1752.5	5	16-QAM	1/24	9.81	H	7.95	0.79	16.97	30

1715	10	QPSK	1/0	11.98	V	7.95	0.79	19.14	30
1732.5	10	QPSK	1/49	8.33	V	7.95	0.79	15.49	30
1750	10	QPSK	1/0	9.66	V	7.95	0.79	16.82	30
1715	10	QPSK	1/0	9.47	H	7.95	0.79	16.63	30
1732.5	10	QPSK	1/49	11.87	H	7.95	0.79	19.03	30
1750	10	QPSK	1/0	10.67	H	7.95	0.79	17.83	30
1715	10	16-QAM	1/0	10.5	V	7.95	0.79	17.66	30
1732.5	10	16-QAM	1/49	8.87	V	7.95	0.79	16.03	30
1750	10	16-QAM	1/0	9.25	V	7.95	0.79	16.41	30
1715	10	16-QAM	1/0	10.85	H	7.95	0.79	18.01	30
1732.5	10	16-QAM	1/49	10.15	H	7.95	0.79	17.31	30
1750	10	16-QAM	1/0	9.55	H	7.95	0.79	16.71	30
1717.5	15	QPSK	1/0	9.71	V	7.95	0.79	16.87	30
1732.5	15	QPSK	1/74	10.27	V	7.95	0.79	17.43	30
1747.5	15	QPSK	1/0	8.58	V	7.95	0.79	15.74	30
1717.5	15	QPSK	1/0	8.05	H	7.95	0.79	15.21	30
1732.5	15	QPSK	1/74	10.86	H	7.95	0.79	18.02	30
1747.5	15	QPSK	1/0	8.87	H	7.95	0.79	16.03	30
1717.5	15	16-QAM	1/0	9.1	V	7.95	0.79	16.26	30
1732.5	15	16-QAM	1/74	10.29	V	7.95	0.79	17.45	30
1747.5	15	16-QAM	1/0	9.59	V	7.95	0.79	16.75	30
1717.5	15	16-QAM	1/0	7.32	H	7.95	0.79	14.48	30
1732.5	15	16-QAM	1/74	9.41	H	7.95	0.79	16.57	30
1747.5	15	16-QAM	1/0	8.5	H	7.95	0.79	15.66	30
1720	20	QPSK	1/99	9.44	V	7.95	0.79	16.6	30
1732.5	20	QPSK	1/99	10.71	V	7.95	0.79	17.87	30
1745	20	QPSK	1/0	11.06	V	7.95	0.79	18.22	30
1720	20	QPSK	1/99	9.49	H	7.95	0.79	16.65	30
1732.5	20	QPSK	1/99	10.31	H	7.95	0.79	17.47	30
1745	20	QPSK	1/0	11.01	H	7.95	0.79	18.17	30
1720	20	16-QAM	1/99	8.74	V	7.95	0.79	15.9	30
1732.5	20	16-QAM	1/99	11.25	V	7.95	0.79	18.41	30
1745	20	16-QAM	1/0	9.58	V	7.95	0.79	16.74	30
1720	20	16-QAM	1/99	9.45	H	7.95	0.79	16.61	30
1732.5	20	16-QAM	1/99	9.87	H	7.95	0.79	17.03	30
1745	20	16-QAM	1/0	10.71	H	7.95	0.79	17.87	30

EIRP for LTE Band 5

Frequency	Channel Bandwidth	Mode.	RB	Substituted level	Antenna Polarization	Antenna Gain correction	Cable Loss	Absolute Level	Limit (dBm)
824.7	1.4	QPSK	1/0	12.52	V	6.7	0.49	18.73	38.45
836.5	1.4	QPSK	1/0	12.64	V	6.7	0.49	18.85	38.45
848.3	1.4	QPSK	1/0	12.72	V	6.7	0.49	18.93	38.45
824.7	1.4	QPSK	1/0	11.97	H	6.7	0.49	18.18	38.45
836.5	1.4	QPSK	1/0	9.76	H	6.7	0.49	15.97	38.45
848.3	1.4	QPSK	1/0	9.64	H	6.7	0.49	15.85	38.45
824.7	1.4	16-QAM	1/0	11.6	V	6.7	0.49	17.81	38.45
836.5	1.4	16-QAM	1/0	12.32	V	6.7	0.49	18.53	38.45
848.3	1.4	16-QAM	1/0	10.57	V	6.7	0.49	16.78	38.45
824.7	1.4	16-QAM	1/0	9.86	H	6.7	0.49	16.07	38.45
836.5	1.4	16-QAM	1/0	10.49	H	6.7	0.49	16.7	38.45
848.3	1.4	16-QAM	1/0	11.43	H	6.7	0.49	17.64	38.45
825.5	3	QPSK	1/0	9.54	V	6.7	0.49	15.75	38.45
836.5	3	QPSK	1/0	11.19	V	6.7	0.49	17.4	38.45
847.5	3	QPSK	1/0	13.4	V	6.7	0.49	19.61	38.45
825.5	3	QPSK	1/0	11.66	H	6.7	0.49	17.87	38.45
836.5	3	QPSK	1/0	11.7	H	6.7	0.49	17.91	38.45
847.5	3	QPSK	1/0	9.89	H	6.7	0.49	16.1	38.45
825.5	3	16-QAM	1/0	11.47	V	6.7	0.49	17.68	38.45
836.5	3	16-QAM	1/0	11.08	V	6.7	0.49	17.29	38.45
847.5	3	16-QAM	1/0	12.72	V	6.7	0.49	18.93	38.45
825.5	3	16-QAM	1/0	11.26	H	6.7	0.49	17.47	38.45
836.5	3	16-QAM	1/0	16.4	H	6.7	0.49	22.61	38.45
847.5	3	16-QAM	1/0	14.85	H	6.7	0.49	21.06	38.45
826.5	5	QPSK	1/0	14.17	V	6.7	0.49	20.38	38.45
836.5	5	QPSK	1/0	15.38	V	6.7	0.49	21.59	38.45
846.5	5	QPSK	1/0	13.27	V	6.7	0.49	19.48	38.45
826.5	5	QPSK	1/0	13.97	H	6.7	0.49	20.18	38.45
836.5	5	QPSK	1/0	10.93	H	6.7	0.49	17.14	38.45
846.5	5	QPSK	1/0	11.69	H	6.7	0.49	17.9	38.45
826.5	5	16-QAM	1/0	12.26	V	6.7	0.49	18.47	38.45
836.5	5	16-QAM	1/0	9.4	V	6.7	0.49	15.61	38.45
846.5	5	16-QAM	1/0	9.63	V	6.7	0.49	15.84	38.45
826.5	5	16-QAM	1/0	11	H	6.7	0.49	17.21	38.45
836.5	5	16-QAM	1/0	8.43	H	6.7	0.49	14.64	38.45
846.5	5	16-QAM	1/0	11.05	H	6.7	0.49	17.26	38.45

829	10	QPSK	1/0	12.14	V	6.7	0.49	18.35	38.45
836.5	10	QPSK	1/0	9.37	V	6.7	0.49	15.58	38.45
844	10	QPSK	1/0	9.23	V	6.7	0.49	15.44	38.45
829	10	QPSK	1/0	12.37	H	6.7	0.49	18.58	38.45
836.5	10	QPSK	1/0	12.51	H	6.7	0.49	18.72	38.45
844	10	QPSK	1/0	11.81	H	6.7	0.49	18.02	38.45
829	10	16-QAM	1/0	12.19	V	6.7	0.49	18.4	38.45
836.5	10	16-QAM	1/0	10.52	V	6.7	0.49	16.73	38.45
844	10	16-QAM	1/0	10.23	V	6.7	0.49	16.44	38.45
829	10	16-QAM	1/0	11.18	H	6.7	0.49	17.39	38.45
836.5	10	16-QAM	1/0	12.58	H	6.7	0.49	18.79	38.45
844	10	16-QAM	1/0	12.68	H	6.7	0.49	18.89	38.45

EIRP for LTE Band 7

Frequency	Channel Bandwidth	Mode.	RB	Substituted level	Antenna Polarization	Antenna Gain correction	Cable Loss	Absolute Level	Limit (dBm)
2502.5	5	QPSK	1/0	9.41	V	8.23	1.12	16.52	33
2535	5	QPSK	1/0	7.87	V	8.23	1.12	14.98	33
2567.5	5	QPSK	1/24	8.75	V	8.23	1.12	15.86	33
2502.5	5	QPSK	1/0	10.57	H	8.23	1.12	17.68	33
2535	5	QPSK	1/0	9.09	H	8.23	1.12	16.2	33
2567.5	5	QPSK	1/24	7.37	H	8.23	1.12	14.48	33
2502.5	5	16-QAM	1/0	10.1	V	8.23	1.12	17.21	33
2535	5	16-QAM	1/0	8.84	V	8.23	1.12	15.95	33
2567.5	5	16-QAM	1/24	9.78	V	8.23	1.12	16.89	33
2502.5	5	16-QAM	1/0	8.4	H	8.23	1.12	15.51	33
2535	5	16-QAM	1/0	8.1	H	8.23	1.12	15.21	33
2567.5	5	16-QAM	1/24	5.78	H	8.23	1.12	12.89	33
2505	10	QPSK	1/0	11.34	V	8.23	1.12	18.45	33
2535	10	QPSK	1/49	11.07	V	8.23	1.12	18.18	33
2565	10	QPSK	1/0	9.98	V	8.23	1.12	17.09	33
2505	10	QPSK	1/0	5.64	H	8.23	1.12	12.75	33
2535	10	QPSK	1/49	7.33	H	8.23	1.12	14.44	33
2565	10	QPSK	1/0	8.37	H	8.23	1.12	15.48	33
2505	10	16-QAM	1/0	6.6	V	8.23	1.12	13.71	33
2535	10	16-QAM	1/49	9.05	V	8.23	1.12	16.16	33
2565	10	16-QAM	1/0	9.04	V	8.23	1.12	16.15	33
2505	10	16-QAM	1/0	7.58	H	8.23	1.12	14.69	33
2535	10	16-QAM	1/49	14.95	H	8.23	1.12	22.06	33
2565	10	16-QAM	1/0	11.17	H	8.23	1.12	18.28	33
2507.5	15	QPSK	1/0	14.04	V	8.23	1.12	21.15	33
2535	15	QPSK	1/74	15.63	V	8.23	1.12	22.74	33
2562.5	15	QPSK	1/0	14.08	V	8.23	1.12	21.19	33
2507.5	15	QPSK	1/0	14.06	H	8.23	1.12	21.17	33
2535	15	QPSK	1/74	9.73	H	8.23	1.12	16.84	33
2562.5	15	QPSK	1/0	10.33	H	8.23	1.12	17.44	33
2507.5	15	16-QAM	1/0	7.33	V	8.23	1.12	14.44	33
2535	15	16-QAM	1/74	7.9	V	8.23	1.12	15.01	33
2562.5	15	16-QAM	1/0	8.07	V	8.23	1.12	15.18	33
2507.5	15	16-QAM	1/0	8.88	H	8.23	1.12	15.99	33
2535	15	16-QAM	1/74	10.92	H	8.23	1.12	18.03	33
2562.5	15	16-QAM	1/0	7.79	H	8.23	1.12	14.9	33

2510	20	QPSK	1/99	9.2	V	8.23	1.12	16.31	33
2535	20	QPSK	1/99	7.24	V	8.23	1.12	14.35	33
2560	20	QPSK	1/0	7.89	V	8.23	1.12	15	33
2510	20	QPSK	1/99	11.26	H	8.23	1.12	18.37	33
2535	20	QPSK	1/99	9	H	8.23	1.12	16.11	33
2560	20	QPSK	1/0	8.14	H	8.23	1.12	15.25	33
2510	20	16-QAM	1/99	9.21	V	8.23	1.12	16.32	33
2535	20	16-QAM	1/99	10.17	V	8.23	1.12	17.28	33
2560	20	16-QAM	1/0	8.99	V	8.23	1.12	16.1	33
2510	20	16-QAM	1/99	10.05	H	8.23	1.12	17.16	33
2535	20	16-QAM	1/99	8.19	H	8.23	1.12	15.3	33
2560	20	16-QAM	1/0	7.55	H	8.23	1.12	14.66	33

EIRP for LTE Band 12

Frequency	Channel Bandwidth	Mode.	RB	Substituted level	Antenna Polarization	Antenna Gain correction	Cable Loss	Absolute Level	Limit (dBm)
699.7	1.4	QPSK	1/0	8.71	V	6.6	0.47	14.84	34.77
707.5	1.4	QPSK	1/0	12.78	V	6.6	0.47	18.91	34.77
715.3	1.4	QPSK	1/24	8.13	V	6.6	0.47	14.26	34.77
699.7	1.4	QPSK	1/0	9.85	H	6.6	0.47	15.98	34.77
707.5	1.4	QPSK	1/0	10.58	H	6.6	0.47	16.71	34.77
715.3	1.4	QPSK	1/24	9.37	H	6.6	0.47	15.5	34.77
699.7	1.4	16-QAM	1/0	10.13	V	6.6	0.47	16.26	34.77
707.5	1.4	16-QAM	1/0	8.82	V	6.6	0.47	14.95	34.77
715.3	1.4	16-QAM	1/24	10.67	V	6.6	0.47	16.8	34.77
699.7	1.4	16-QAM	1/0	12.02	H	6.6	0.47	18.15	34.77
707.5	1.4	16-QAM	1/0	9.67	H	6.6	0.47	15.8	34.77
715.3	1.4	16-QAM	1/24	10.21	H	6.6	0.47	16.34	34.77
700.5	3	QPSK	1/0	11.44	V	6.6	0.47	17.57	34.77
707.5	3	QPSK	1/49	11.24	V	6.6	0.47	17.37	34.77
714.5	3	QPSK	1/0	11.38	V	6.6	0.47	17.51	34.77
700.5	3	QPSK	1/0	10.13	H	6.6	0.47	16.26	34.77
707.5	3	QPSK	1/49	9.25	H	6.6	0.47	15.38	34.77
714.5	3	QPSK	1/0	11.97	H	6.6	0.47	18.1	34.77
700.5	3	16-QAM	1/0	9.05	V	6.6	0.47	15.18	34.77
707.5	3	16-QAM	1/49	7.71	V	6.6	0.47	13.84	34.77
714.5	3	16-QAM	1/0	8.34	V	6.6	0.47	14.47	34.77
700.5	3	16-QAM	1/0	10.89	H	6.6	0.47	17.02	34.77
707.5	3	16-QAM	1/49	13.35	H	6.6	0.47	19.48	34.77
714.5	3	16-QAM	1/0	12.06	H	6.6	0.47	18.19	34.77
701.5	5	QPSK	1/0	13.44	V	6.6	0.47	19.57	34.77
707.5	5	QPSK	1/74	13.83	V	6.6	0.47	19.96	34.77
713.5	5	QPSK	1/0	11.91	V	6.6	0.47	18.04	34.77
701.5	5	QPSK	1/0	10.89	H	6.6	0.47	17.02	34.77
707.5	5	QPSK	1/74	8.56	H	6.6	0.47	14.69	34.77
713.5	5	QPSK	1/0	9.56	H	6.6	0.47	15.69	34.77
701.5	5	16-QAM	1/0	10.67	V	6.6	0.47	16.8	34.77
707.5	5	16-QAM	1/74	11.44	V	6.6	0.47	17.57	34.77
713.5	5	16-QAM	1/0	8.71	V	6.6	0.47	14.84	34.77
701.5	5	16-QAM	1/0	8.14	H	6.6	0.47	14.27	34.77
707.5	5	16-QAM	1/74	9.97	H	6.6	0.47	16.1	34.77
713.5	5	16-QAM	1/0	8.66	H	6.6	0.47	14.79	34.77
704.0	10	QPSK	1/99	7.14	V	6.6	0.47	13.27	34.77

707.5	10	QPSK	1/99	10.57	V	6.6	0.47	16.7	34.77
711.0	10	QPSK	1/0	12.25	V	6.6	0.47	18.38	34.77
704.0	10	QPSK	1/99	10.87	H	6.6	0.47	17	34.77
707.5	10	QPSK	1/99	9.74	H	6.6	0.47	15.87	34.77
711.0	10	QPSK	1/0	11.02	H	6.6	0.47	17.15	34.77
704.0	10	16-QAM	1/99	11.81	V	6.6	0.47	17.94	34.77
707.5	10	16-QAM	1/99	10.22	V	6.6	0.47	16.35	34.77
711.0	10	16-QAM	1/0	8.88	V	6.6	0.47	15.01	34.77
704.0	10	16-QAM	1/99	11.65	H	6.6	0.47	17.78	34.77
707.5	10	16-QAM	1/99	10.53	H	6.6	0.47	16.66	34.77
711.0	10	16-QAM	1/0	10.58	H	6.6	0.47	16.71	34.77

Note: Above is the worst mode data.

6.3. PEAK-TO-AVERAGE RATIO

6.3.1 MEASUREMENT METHOD

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

According to KDB 971168 D01v03 - Section 5.7:

- a) Refer to instrument's analyzer instruction manual for details on how to use the powerstatistics/CCDF function;
- b) Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Set the measurement interval to 1 ms
- e) Record the maximum PAPR level associated with a probability of 0.1%

6.3.2 PROVISIONS APPLICABLE

This is the test for the Peak-to-Average Ratio from the EUT.

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

6.3.3 MEASUREMENT RESULT

LTEBand 2 Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	LCH	1	0	4.73	<13	PASS
		1	3	4.93	<13	PASS
		1	5	4.45	<13	PASS
		3	0	5.1	<13	PASS
		3	2	5.18	<13	PASS
		3	3	5.14	<13	PASS
		6	0	5.5	<13	PASS
	MCH	1	0	4.59	<13	PASS
		1	3	4.7	<13	PASS
		1	5	4.76	<13	PASS
		3	0	4.81	<13	PASS
		3	2	4.76	<13	PASS
		3	3	4.91	<13	PASS
		6	0	5.27	<13	PASS
	HCH	1	0	4.55	<13	PASS
		1	3	4.34	<13	PASS
		1	5	4.16	<13	PASS
		3	0	4.49	<13	PASS
		3	2	4.5	<13	PASS
		3	3	4.3	<13	PASS
		6	0	5.11	<13	PASS
16QAM	LCH	1	0	5.74	<13	PASS
		1	3	5.7	<13	PASS
		1	5	5.72	<13	PASS
		3	0	5.82	<13	PASS
		3	2	5.87	<13	PASS
		3	3	5.9	<13	PASS
		6	0	6.21	<13	PASS
	MCH	1	0	5.41	<13	PASS
		1	3	5.49	<13	PASS
		1	5	5.52	<13	PASS
		3	0	5.62	<13	PASS
		3	2	5.68	<13	PASS

		3	3	5.69	<13	PASS
		6	0	6.05	<13	PASS
	HCH	1	0	4.99	<13	PASS
		1	3	4.7	<13	PASS
		1	5	4.51	<13	PASS
		3	0	5.42	<13	PASS
		3	2	5.44	<13	PASS
		3	3	5.27	<13	PASS
		6	0	5.64	<13	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	4.94	<13	PASS
		1	7	4.94	<13	PASS
		1	14	4.81	<13	PASS
		8	0	5.35	<13	PASS
		8	4	5.35	<13	PASS
		8	7	5.33	<13	PASS
		15	0	5.39	<13	PASS
	MCH	1	0	4.36	<13	PASS
		1	7	4.74	<13	PASS
		1	14	4.84	<13	PASS
		8	0	5.38	<13	PASS
		8	4	5.39	<13	PASS
		8	7	5.39	<13	PASS
		15	0	5.31	<13	PASS
	HCH	1	0	4.66	<13	PASS
		1	7	4.44	<13	PASS
		1	14	4	<13	PASS
		8	0	5.18	<13	PASS
		8	4	5.18	<13	PASS
		8	7	5.07	<13	PASS
		15	0	5.14	<13	PASS
16QAM	LCH	1	0	6.09	<13	PASS
		1	7	5.98	<13	PASS

		1	14	5.94	<13	PASS
		8	0	6.08	<13	PASS
		8	4	6.19	<13	PASS
		8	7	6.1	<13	PASS
		15	0	6.22	<13	PASS
	MCH	1	0	5.34	<13	PASS
		1	7	5.51	<13	PASS
		1	14	5.79	<13	PASS
		8	0	6.09	<13	PASS
		8	4	6.11	<13	PASS
		8	7	6.12	<13	PASS
		15	0	6.09	<13	PASS
	HCH	1	0	5.73	<13	PASS
		1	7	5.52	<13	PASS
		1	14	5.19	<13	PASS
		8	0	5.96	<13	PASS
		8	4	5.91	<13	PASS
		8	7	5.83	<13	PASS
		15	0	5.89	<13	PASS

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	5.24	<13	PASS
		1	12	4.94	<13	PASS
		1	24	4.77	<13	PASS
		12	0	5.29	<13	PASS
		12	6	5.22	<13	PASS
		12	13	5.24	<13	PASS
		25	0	5.33	<13	PASS
	MCH	1	0	4.36	<13	PASS
		1	12	4.75	<13	PASS
		1	24	5.05	<13	PASS
		12	0	5.26	<13	PASS
		12	6	5.21	<13	PASS

		12	13	5.46	<13	PASS
		25	0	5.28	<13	PASS
	HCH	1	0	4.21	<13	PASS
		1	12	4.47	<13	PASS
		1	24	3.78	<13	PASS
		12	0	5.27	<13	PASS
		12	6	5.24	<13	PASS
		12	13	5.09	<13	PASS
		25	0	5.15	<13	PASS
16QAM	LCH	1	0	5.79	<13	PASS
		1	12	5.87	<13	PASS
		1	24	5.78	<13	PASS
		12	0	6.05	<13	PASS
		12	6	6.09	<13	PASS
		12	13	5.98	<13	PASS
		25	0	5.99	<13	PASS
	MCH	1	0	5.01	<13	PASS
		1	12	5.43	<13	PASS
		1	24	5.71	<13	PASS
		12	0	5.91	<13	PASS
		12	6	5.89	<13	PASS
		12	13	6.11	<13	PASS
		25	0	6.03	<13	PASS
	HCH	1	0	5.25	<13	PASS
		1	12	5.36	<13	PASS
		1	24	4.91	<13	PASS
		12	0	5.91	<13	PASS
		12	6	6.06	<13	PASS
		12	13	5.84	<13	PASS
		25	0	5.82	<13	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	5.06	<13	PASS
		1	24	4.6	<13	PASS
		1	49	3.92	<13	PASS
		25	0	5.34	<13	PASS
		25	12	5.3	<13	PASS
		25	25	4.85	<13	PASS
		50	0	5.13	<13	PASS
	MCH	1	0	3.82	<13	PASS
		1	24	4.59	<13	PASS
		1	49	4.95	<13	PASS
		25	0	5.12	<13	PASS
		25	12	5.12	<13	PASS
		25	25	5.38	<13	PASS
		50	0	5.26	<13	PASS
	HCH	1	0	3.45	<13	PASS
		1	24	4.38	<13	PASS
		1	49	4.13	<13	PASS
		25	0	4.79	<13	PASS
		25	12	4.8	<13	PASS
		25	25	5.08	<13	PASS
		50	0	5.14	<13	PASS
16QAM	LCH	1	0	5.93	<13	PASS
		1	24	5.57	<13	PASS
		1	49	4.79	<13	PASS
		25	0	6.11	<13	PASS
		25	12	6.12	<13	PASS
		25	25	5.66	<13	PASS
		50	0	5.78	<13	PASS
	MCH	1	0	4.87	<13	PASS
		1	24	5.4	<13	PASS
		1	49	5.59	<13	PASS
		25	0	5.88	<13	PASS

		25	12	5.83	<13	PASS
		25	25	6.14	<13	PASS
		50	0	6.02	<13	PASS
	HCH	1	0	4.46	<13	PASS
		1	24	5.32	<13	PASS
		1	49	5.19	<13	PASS
		25	0	5.54	<13	PASS
		25	12	5.61	<13	PASS
		25	25	5.89	<13	PASS
		50	0	5.9	<13	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	4.95	<13	PASS
		1	37	4.24	<13	PASS
		1	74	3.25	<13	PASS
		37	0	5.17	<13	PASS
		37	18	5.15	<13	PASS
		37	38	5.15	<13	PASS
		75	0	5.14	<13	PASS
	MCH	1	0	3.61	<13	PASS
		1	37	4.91	<13	PASS
		1	74	4.98	<13	PASS
		37	0	5.56	<13	PASS
		37	18	5.57	<13	PASS
		37	38	5.55	<13	PASS
		75	0	5.61	<13	PASS
	HCH	1	0	3.79	<13	PASS
		1	37	3.84	<13	PASS
		1	74	4.27	<13	PASS
		37	0	5.33	<13	PASS
		37	18	5.31	<13	PASS
		37	38	5.32	<13	PASS
		75	0	5.32	<13	PASS
16QAM	LCH	1	0	5.9	<13	PASS
		1	37	5.15	<13	PASS
		1	74	4.07	<13	PASS

		37	0	5.17	<13	PASS
		37	18	5.17	<13	PASS
		37	38	5.12	<13	PASS
		75	0	5.72	<13	PASS
	MCH	1	0	4.53	<13	PASS
		1	37	5.39	<13	PASS
		1	74	5.61	<13	PASS
		37	0	5.58	<13	PASS
		37	18	5.57	<13	PASS
		37	38	5.59	<13	PASS
		75	0	6.1	<13	PASS
	HCH	1	0	4.27	<13	PASS
		1	37	4.36	<13	PASS
		1	74	4.84	<13	PASS
		37	0	5.31	<13	PASS
		37	18	5.31	<13	PASS
		37	38	5.3	<13	PASS
		75	0	5.9	<13	PASS

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	4.88	<13	PASS
		1	49	3.65	<13	PASS
		1	99	2.88	<13	PASS
		50	0	5.11	<13	PASS
		50	25	5.13	<13	PASS
		50	50	4.12	<13	PASS
		100	0	4.86	<13	PASS
	MCH	1	0	3.13	<13	PASS
		1	49	4.71	<13	PASS
		1	99	4.78	<13	PASS
		50	0	4.9	<13	PASS
		50	25	4.88	<13	PASS
		50	50	5.44	<13	PASS
		100	0	5.55	<13	PASS
	HCH	1	0	4.55	<13	PASS
		1	49	3.33	<13	PASS

		1	99	4.3	<13	PASS
		50	0	4.68	<13	PASS
		50	25	4.67	<13	PASS
		50	50	5.17	<13	PASS
		100	0	5.18	<13	PASS
16QAM	LCH	1	0	5.47	<13	PASS
		1	49	4.31	<13	PASS
		1	99	3.86	<13	PASS
		50	0	5.81	<13	PASS
		50	25	5.84	<13	PASS
		50	50	4.83	<13	PASS
		100	0	5.54	<13	PASS
	MCH	1	0	4.11	<13	PASS
		1	49	5.43	<13	PASS
		1	99	5.76	<13	PASS
		50	0	5.66	<13	PASS
		50	25	5.67	<13	PASS
		50	50	6.14	<13	PASS
		100	0	6.17	<13	PASS
	HCH	1	0	5.5	<13	PASS
		1	49	4.42	<13	PASS
		1	99	5.52	<13	PASS
		50	0	5.45	<13	PASS
		50	25	5.49	<13	PASS
		50	50	5.85	<13	PASS
		100	0	5.89	<13	PASS

LTEBand 4
Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	LCH	1	0	4.17	<13	PASS
		1	3	4.14	<13	PASS
		1	5	4.2	<13	PASS
		3	0	4.21	<13	PASS
		3	2	4.17	<13	PASS
		3	3	4.24	<13	PASS
		6	0	4.84	<13	PASS
	MCH	1	0	4.37	<13	PASS
		1	3	4.33	<13	PASS
		1	5	4.42	<13	PASS
		3	0	4.54	<13	PASS
		3	2	4.56	<13	PASS
		3	3	4.56	<13	PASS
		6	0	5.03	<13	PASS
	HCH	1	0	3.59	<13	PASS
		1	3	3.53	<13	PASS
		1	5	3.58	<13	PASS
		3	0	3.59	<13	PASS
		3	2	3.57	<13	PASS
		3	3	3.61	<13	PASS
		6	0	4.33	<13	PASS
16QAM	LCH	1	0	4.59	<13	PASS
		1	3	4.6	<13	PASS
		1	5	4.67	<13	PASS
		3	0	5.17	<13	PASS
		3	2	5.13	<13	PASS
		3	3	5.11	<13	PASS
		6	0	5.48	<13	PASS
	MCH	1	0	5.36	<13	PASS
		1	3	5.32	<13	PASS
		1	5	5.39	<13	PASS
		3	0	5.28	<13	PASS
		3	2	5.29	<13	PASS
		3	3	5.31	<13	PASS

		6	0	5.76	<13	PASS
	HCH	1	0	4.08	<13	PASS
		1	3	4.12	<13	PASS
		1	5	4.1	<13	PASS
		3	0	4.67	<13	PASS
		3	2	4.65	<13	PASS
		3	3	4.64	<13	PASS
		6	0	5.19	<13	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	4.05	<13	PASS
		1	7	4.01	<13	PASS
		1	14	4.05	<13	PASS
		8	0	4.82	<13	PASS
		8	4	4.86	<13	PASS
		8	7	4.85	<13	PASS
		15	0	4.81	<13	PASS
	MCH	1	0	4.4	<13	PASS
		1	7	4.39	<13	PASS
		1	14	4.5	<13	PASS
		8	0	5.13	<13	PASS
		8	4	5.08	<13	PASS
		8	7	5.16	<13	PASS
		15	0	5	<13	PASS
	HCH	1	0	3.66	<13	PASS
		1	7	3.61	<13	PASS
		1	14	3.57	<13	PASS
		8	0	4.41	<13	PASS
		8	4	4.36	<13	PASS
		8	7	4.37	<13	PASS
		15	0	4.37	<13	PASS
16QAM	LCH	1	0	4.99	<13	PASS
		1	7	4.84	<13	PASS
		1	14	4.94	<13	PASS
		8	0	5.47	<13	PASS
		8	4	5.49	<13	PASS