

FCC Test Report

Report No.: AGC10849211002FE07

FCC ID : VTJ-M1
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : Brama S-C
BRAND NAME : SoloProtect
MODEL NAME : M1
APPLICANT : SoloProtect Limited
DATE OF ISSUE : Dec. 14, 2021
STANDARD(S) : FCC Part 22 Rules
 : FCC Part 24 Rules
 : FCC Part 27 Rules
REPORT VERSION : V1.0



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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Dec. 14, 2021	Valid	Initial Release

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1. GENERAL INFORMATION

Applicant	SoloProtect Limited
Address	Suzy Lamplugh House, 1 Vantage Drive, Sheffild, South Yorkshire, S9 1RG
Manufacturer	Shenzhen Unicair Communication Technology Co., Ltd.
Address	8-9/F, Block1, Wutong Island, Shunchang Rd., Xixiang, Bao'an District, Shenzhen China.
Factory	Dongguan Unicair Communication Technology Co.,Ltd.
Address	49 Yinhu Road, Qiaotou Town, Dongguan City, Guangdong Province, China
Product Designation	Brama S-C
Brand Name	SoloProtect
Test Model	M1
Date of test	Oct. 14, 2021~Dec. 14, 2021
Deviation	No any deviation from the test method.
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 22, 24, 27and 90. The test results of this report relate only to the tested sample identified in this report.

Prepared By

Eder Zhan
(Project Engineer)

Dec. 14, 2021

Reviewed By

Calvin Liu
(Reviewer)

Dec. 14, 2021

Approved By

Max Zhang
Authorized Officer

Dec. 14, 2021

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2. PRODUCT INFORMATION

2.1 PRODUCT TECHNICAL DESCRIPTION

A major technical description of EUT is described as following:

Product Designation:	Brama S-C			
Hardware Version:	GBE Brama S v2_main_RevA			
Software Version:	S-A1.D02.20211008			
Radio System Type:	LTE FUNCTION			
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 <input type="checkbox"/> FDD Band 13 <input checked="" type="checkbox"/> FDD Band 17 <input type="checkbox"/> FDD Band 25 <input type="checkbox"/> FDD Band 26 <input type="checkbox"/> TDD Band 38 <input type="checkbox"/> TDD Band 40 <input type="checkbox"/> TDD Band 41 <input type="checkbox"/> FDD Band 66 <input type="checkbox"/> FDD Band 71 (U.S. Bands) <input checked="" type="checkbox"/> FDD Band 1 <input checked="" type="checkbox"/> FDD Band 3 <input checked="" type="checkbox"/> FDD Band 7 <input checked="" type="checkbox"/> FDD Band 8 <input checked="" type="checkbox"/> FDD Band 20 <input type="checkbox"/> FDD Band 38 <input type="checkbox"/> TDD Band 40 <input type="checkbox"/> TDD Band 41 (Non-U.S. Bands)			
Transmission Frequency Range:	LTE-Band 2	1850.7 MHz – 1909.3 MHz---(1.4MHz)		
		1851.5 MHz – 1908.5 MHz---(3.0MHz)		
		1852.5 MHz – 1907.5 MHz---(5.0MHz)		
		1855.0 MHz – 1905.0 MHz---(10.0MHz)		
		1857.5 MHz – 1902.5 MHz---(15.0MHz)		
		1860.0 MHz – 1900.0 MHz---(20.0MHz)		
	LTE-Band 4	1710.7 MHz – 1754.3 MHz---(1.4MHz)		
		1711.5 MHz – 1753.5 MHz---(3.0MHz)		
		1712.5 MHz – 1752.5 MHz---(5.0MHz)		
		1715.0 MHz – 1750.0 MHz---(10.0MHz)		
		1717.5 MHz – 1747.5 MHz---(15.0MHz)		
		1720.0 MHz – 1745.0 MHz---(20.0MHz)		
	LTE-Band 5	824.7 MHz – 848.3 MHz---(1.4MHz)		
		825.5 MHz – 847.7 MHz---(3.0MHz)		
		826.5 MHz – 846.5 MHz---(5.0MHz)		
		829.0 MHz – 844.0 MHz---(10.0MHz)		
	LTE-Band 7	2502.5 MHz – 2567.5 MHz---(5.0MHz)		
		2505.0 MHz – 2565.0 MHz---(10.0MHz)		
		2507.5 MHz – 2562.5 MHz---(15.0MHz)		
		2510.0 MHz – 2560.0 MHz---(20.0MHz)		
	LTE-Band 12	699.7 MHz – 715.3 MHz---(1.4MHz)		

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		700.5 MHz – 714.5 MHz---(3.0MHz)	
		701.5 MHz – 713.5 MHz---(5.0MHz)	
		704.0 MHz – 711.0 MHz---(10.0MHz)	
	LTE-Band 17	706.5 MHz – 713.5 MHz---(5.0MHz)	
		709.0 MHz – 711.0 MHz---(10.0MHz)	
Antenna Type:	PIFA Antenna		
Type of Modulation:	QPSK/16QAM		
Antenna gain:	Band 2: -1.35dBi	Band 4: -1.82dBi	Band 5:-1.27dBi
	Band 12:-6.63dBi	Band 17:-6.63dBi	
Diversity Antenna gain:	Band 2:-2.67dBi	Band 4: 2.04dBi	Band 5: -7.89dBi
	Band 12:-6.53dBi	Band 17:-6.53dBi	
Power Supply:	DC 3.85V by battery		
Category	NB1		
Deployment	Stand-alone		
Sub-carrier spacing	3.75KHz, 15KHz		
Ntones	Single, Multi-tone		
Dual Card:	WCDMA/LTE Card Slot		
Power Class:	3		
Extreme Vol. Limits:	DC3.27V to 4.40V (Normal: DC 3.85V)		
Extreme Temp. Tolerance	-30°C to +50°C		
Operating Temp	-10°C to +40°C		
Note1: The High Voltage DC 4.40V and Low Voltage DC3.85V were declared by manufacturer, The EUT couldn't be operating normally with higher or lower voltage.			

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2.2 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: VTJ-M1**, filing to comply with the FCC Part 22, Part 24 and Part 27 requirements.

2.3 TEST METHODOLOGY

The tests were performed according to following standards:

No.	Identity	Document Title
1	47 CFR FCC Part 2	Frequency allocations and radio treaty matters, general rules and regulations.
2	47 CFR FCC Part 22	Public Mobile Services.
3	47 CFR FCC Part 24	Personal Communications Services.
4	47 CFR FCC Part 27	Miscellaneous Wireless Communications Services.
5	ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
6	ANSI/TIA-603-E-2016	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
7	KDB 971168	D01 v03r01 Measurement Guidance For Certification Of Licensed Digital Transmitters.

2.4 DEVICE CAPABILITIES

This device contains the following capabilities:

850/1900 GSM/GPRS/EGPRS,850/1700/1900 WCDMA/HSPA, Multi-Band LTE,802.11 b/g/n for WLAN,802.11 a/n/ac for UNII,Bluetooth (1X,EDR,LE),GPS, NFC.

This device uses a tuner circuit that dynamically updates the antenna impedance parameters to optimize antenna performance for certain bands and modes of operation. The tuner for this device was set to simulate a "free space" condition where the transmit antenna is matched to the medium into which it is transmitting and, thus, the power is at its maximum level.

LTE Band 12 (698 - 716 MHz) overlaps the entire frequency range of LTE Band 17 (704 - 716 MHz).

Therefore,test data provided in this report covers Band 17 as well as Band 12.

LTE Band 26 (814.7-849 MHz) overlaps the entire frequency range of LTE Band 5 (824 – 849 MHz).

Therefore,test data provided in this report covers Band 5 and the portion of Band 26 subject to Part 22.

LTE Band 66 (1710-1780 MHz) overlaps the entire frequency range of LTE Band 4 (1710 - 1755 MHz).

Therefore,test data provided in this report covers Band 4 as well as Band 66.

LTE Band 25 (1850-1915 MHz) overlaps the entire frequency range of LTE Band 2 (1850 - 1910 MHz).

Therefore, test data provided in this report covers Band 2 as well as Band 25.

The above inclusion relationship is only a statement of the frequency coverage between the LTE working bands, and the actual supported frequency bands are subject to the reported data.

For emissions from 1GHz – 18GHz, low, mid, and high channels were tested with highest power and worst case configuration.

The emissions below 1GHz and above 18GHz were tested with the highest transmitting power channel and the worst case configuration.

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The EUT was manipulated through three orthogonal planes of X-orientation (flatbed), Y-orientation (landscape), and Z-orientation (portrait) during the testing. Only the worst case emissions were reported in this test report.

2.5 SPECIAL ACCESSORIES

The battery was supplied by the applicant were 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.

2.7 EMISSION DESIGNATOR

GSM Emission Designator

Emission Designator = 249KGXW

GSM BW = 249 kHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

WCDMA Emission Designator

Emission Designator = 4M17F9W

WCDMA BW = 4.17 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

QAM Modulation

Emission Designator = 4M48W7D

LTE BW = 4.48 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

EDGE Emission Designator

Emission Designator = 249KG7W

GSM BW = 249 kHz

G = Phase Modulation

7 = Quantized/Digital Info

W = Combination (Audio/Data)

QPSK Modulation

Emission Designator = 4M48G7D

LTE BW = 4.48 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

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3. TEST ENVIRONMENT

3.1 ADDRESS OF THE TEST LABORATORY

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2 TEST FACILITY

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) 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 with Registration 975832.

IC-Registration No.: 24842 (CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

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3.3 ENVIRONMENTAL CONDITIONS

	NORMAL CONDITIONS	EXTREME CONDITIONS
Temperature range	15~35°C	-30°C~50°C
Humidity range	20 % to 75 %.	20 % to 75 %.
Pressure range	86-106kPa	86-106kPa
Power supply	DC3.85V	DC3.27V or 4.40V

Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer.

3.4 MEASUREMENT UNCERTAINTY

Test	Measurement Uncertainty	Notes
Transmitter power conducted	±0.57 dB	(1)
Transmitter power Radiated	±2.20 dB	(1)
Conducted spurious emission 9KHz-40 GHz	±2.20 dB	(1)
Occupied Bandwidth	±0.01ppm	(1)
Radiated Emission 30~1000MHz	±4.10dB	(1)
Radiated Emission Above 1GHz	±4.32dB	(1)
Conducted Disturbance0.15~30MHz	±3.20dB	(1)
Radio Frequency	± 6.5 x 10-8	(1)
RF Power, Conducted	± 0.9 dB	(1)

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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3.5 LIST OF TEST EQUIPMENT

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	May 11, 2021	May 10, 2022
LISN	R&S	ESH2-Z5	100086	Jun. 09, 2021	Jun. 08, 2022
TEST RECEIVER	R&S	ESCI	10096	Apr. 14, 2021	Apr. 13, 2022
EXA Signal Analyzer	Agilent	N9010A	MY53470504	Dec. 07, 2020	Dec. 06, 2021
EXA Signal Analyzer	Agilent	N9010A	MY53470504	Dec. 05, 2021	Dec. 04, 2022
EXA Signal Analyzer	Agilent	N9020B	MY56101792	Jun. 09, 2021	Jun. 08, 2022
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Oct. 20, 2019	Oct. 19, 2022
preamplifier	ChengYi	EMC184045SE	980508	Oct. 29, 2021	Oct. 28, 2023
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
Broadband Preamplifier	SCHWARZBECK	00073	BBHA 9120 J	-	-
ANTENNA	SCHWARZBECK	VULB9168	D69250	Apr. 28, 2021	Apr. 27, 2023
SIGNAL ANALYZER	Agilent	N9020A	MY52090123	Sep. 06, 2021	Sep. 05, 2022
USB Wideband Power Sensor	Agilent	U2021XA	MY54110007	May 11, 2021	May 10, 2025
Wireless communicationtest	R&S	CMW500	120909	Sep. 06, 2021	Sep. 05, 2022
Power Splitter	Agilent	11636A	34	Jun.08, 2021	Jun.07, 2022
Attenuator	JFW	50FHC-006-50	N/A	Jun.08, 2021	Jun.07, 2022

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4. SYSTEM TEST CONFIGURATION

4.1 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.

4.2 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.

4.3 CONFIGURATION OF EUT SYSTEM

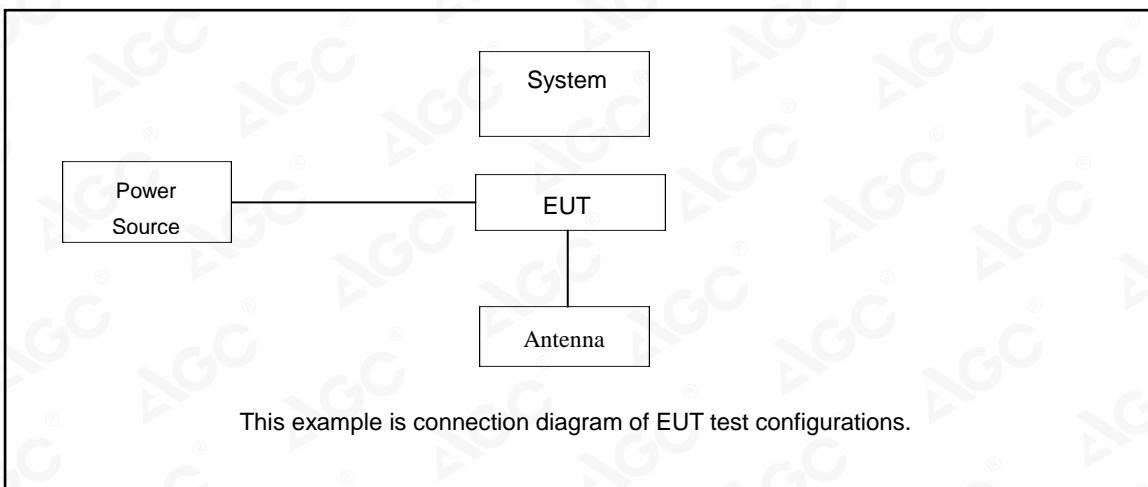


Table 2-1 Equipment Used in EUT System

4.4 EQUIPMENT USED IN TESTED SYSTEM

The Following Peripheral Devices And Interface Cables Were Connected During The Measurement:

- Test Accessories Come From The Laboratory
- Test Accessories Come From The Manufacturer

Item	Equipment	Model No.	Identifier	Note
1	Brama S-C	M1	VTJ-M1	EUT
2	Battery	Brama S v2	DC 3.85V 1070mAh	AE

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5. SUMMARY OF TEST RESULTS

5.1 TEST CONDITION : CONDUCTED TEST

Item	Test Description	FCC Rules	Result
1	Occupied Bandwidth	§2.1049	Pass
2	Band Edge / Spurious and Harmonic Emissions at Antenna Terminal	§2.1051, §27.53(g), §27.53(h), §24.238(a), §27.53(m)(4)	Pass
3	Conducted Output Power	§2.1046	Pass
4	Frequency stability / variation of ambient temperature	§2.1055, §22.355, §27.54, §24.235	Pass
5	Peak- to- Average Ratio	27.50(d)(5), §24.232(d)	Pass

5.2 TEST CONDITION : RADIATED TEST

Item	Test Description	FCC Rules	Result
1	Effective Radiated Power Equivalent Isotropic Radiated Power	§22.913(a)(5), §27.50(c)(10), §27.50(h)(2), §27.50(d)(4), §24.232(c)	Pass
2	Radiated Spurious and Harmonic Emissions	§2.1053, §27.53(g), § 27.53(m) (4), §27.53(h), §24.238(a)	Pass

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6. 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.

LTE Band 2 Channel and Frequency List				
BW [MHz]	Channel/Frequency (MHz)	Lowest	Middle	Highest
20	Channel	18700	18900	19100
	Frequency	1860	1880	1900
15	Channel	18675	18900	19125
	Frequency	1857.5	1880	1902.5
10	Channel	18650	18900	19150
	Frequency	1855	1880	1905
5	Channel	18625	18900	19175
	Frequency	1852.5	1880	1907.5
3	Channel	18615	18900	19185
	Frequency	1851.5	1880	1908.5
1.4	Channel	18607	18900	19193
	Frequency	1850.7	1880	1909.3

LTE Band 4 Channel and Frequency List				
BW [MHz]	Channel/Frequency (MHz)	Lowest	Middle	Highest
20	Channel	20050	20175	20300
	Frequency	1720	1732.5	1745
15	Channel	20025	20175	20325
	Frequency	1717.5	1732.5	1747.5
10	Channel	20000	20175	20350
	Frequency	1715	1732.5	1750
5	Channel	19975	20175	20375
	Frequency	1712.5	1732.5	1752.5
3	Channel	19965	20175	20385
	Frequency	1711.5	1732.5	1753.5
1.4	Channel	19957	20175	20393
	Frequency	1710.7	1732.5	1754.3

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LTE Band 5 Channel and Frequency List				
BW [MHz]	Channel/Frequency (MHz)	Lowest	Middle	Highest
10	Channel	20450	20525	20600
	Frequency	829	836.5	844
5	Channel	20425	20525	20625
	Frequency	826.5	836.5	846.5
3	Channel	20415	20525	20635
	Frequency	825.5	836.5	847.5
1.4	Channel	20407	20525	20643
	Frequency	824.7	836.5	848.3

LTE Band 7 Channel and Frequency List				
BW [MHz]	Channel/Frequency (MHz)	Lowest	Middle	Highest
20	Channel	20850	21100	21350
	Frequency	2510	2535	2560
15	Channel	20825	21100	21375
	Frequency	2507.5	2535	2562.5
10	Channel	20800	21100	21400
	Frequency	2505	2535	2565
5	Channel	20775	21100	21425
	Frequency	2502.5	2535	2567.5

LTE Band 12 Channel and Frequency List				
BW [MHz]	Channel/Frequency (MHz)	Lowest	Middle	Highest
10	Channel	23060	23095	23130
	Frequency	704	707.5	711
5	Channel	23035	23095	23155
	Frequency	701.5	707.5	713.5
3	Channel	23025	23095	23165
	Frequency	700.5	707.5	714.5
1.4	Channel	23017	23095	23173
	Frequency	699.7	707.5	715.3

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LTE Band 17 Channel and Frequency List				
BW [MHz]	Channel/Frequency (MHz)	Lowest	Middle	Highest
10	Channel	23780	23790	23800
	Frequency	709	710	711
5	Channel	23755	23790	23825
	Frequency	706.5	710	713.5

Test Mode	Test Modes Description
LTE BAND 2	LTE system, QPSK modulation
	LTE system, 16QAM modulation
LTE BAND 4	LTE system, QPSK modulation
	LTE system, 16QAM modulation
LTE BAND 5	LTE system, QPSK modulation
	LTE system, 16QAM modulation
LTE BAND 7	LTE system, QPSK modulation
	LTE system, 16QAM modulation
LTE BAND 12	LTE system, QPSK modulation
	LTE system, 16QAM modulation
LTE BAND 17	LTE system, QPSK modulation
	LTE system, 16QAM modulation

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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.

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7. CONDUCTED OUTPUT POWER

7.1 PROVISIONS APPLICABLE

The conduction test is carried out in a shielded room.

According to the test, connect the device under test to the antenna port on the non-conductive platform directly to the test device for evaluation and measurement (ANSI-C63.26-2015 Clause 5.4)

7.2 MEASUREMENT METHOD

- The transmitter output port was connected to base station.
- Set EUT at maximum power through base station.
- Select lowest, middle, and highest channels for each band and different test mode.

7.3 MEASUREMENT SETUP



7.4 MEASUREMENT RESULT

Note: The test data please reference to attachment "AGC10849211002FE07_Appendix Data"

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8. RADIATED OUTPUT POWER

8.1 PROVISIONS APPLICABLE

The radiation test is carried out in a semi-anechoic chamber.

According to the test, put the device under test on a non-conductive platform 3 meters away from the receiving antenna (ANSI/TIA-603-E-2016 Article 2.2.17).

The following rules are for the maximum radiated power limit requirements of the product:

Mode	Nominal Peak Power
LTE Band 2	< 2 Watts max. EIRP (33dBm)
LTE Band 4	< 1 Watts max. EIRP (30dBm)
LTE Band 5	< 7 Watts max. ERP (38.45dBm)
LTE Band 7	< 2 Watts max. EIRP (33dBm)
LTE Band 12	< 3 Watts max. ERP (34.77dBm)
LTE Band 17	< 3 Watts max. ERP (34.77dBm)

8.2 MEASUREMENT METHOD

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
2. RBW = 1 – 5% of the expected OBW, not to exceed 1MHz
3. VBW \geq 3 x RBW
4. Span = 1.5 times the OBW
5. No. of sweep points $>$ 2 x span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto".
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize.

RADIATION CONSTRUCTION METHOD:

1. The turntable is rotated through 360 degrees, and the receiving antenna scans in order to determine the level of the maximized emission.
2. A half wave dipole is then substituted in place of the EUT. For emissions above 1GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.

The power is calculated by the following formula:

$$Pd(\text{dBm}) = Pg(\text{dBm}) - \text{cable loss (dB)} + \text{antenna gain (dB)}$$

Where: Pd is the dipole equivalent power and Pg is the generator output power into the substitution antenna.

3. The maximum value is calculated by adding the forward power to the calibrated source plus its appropriate

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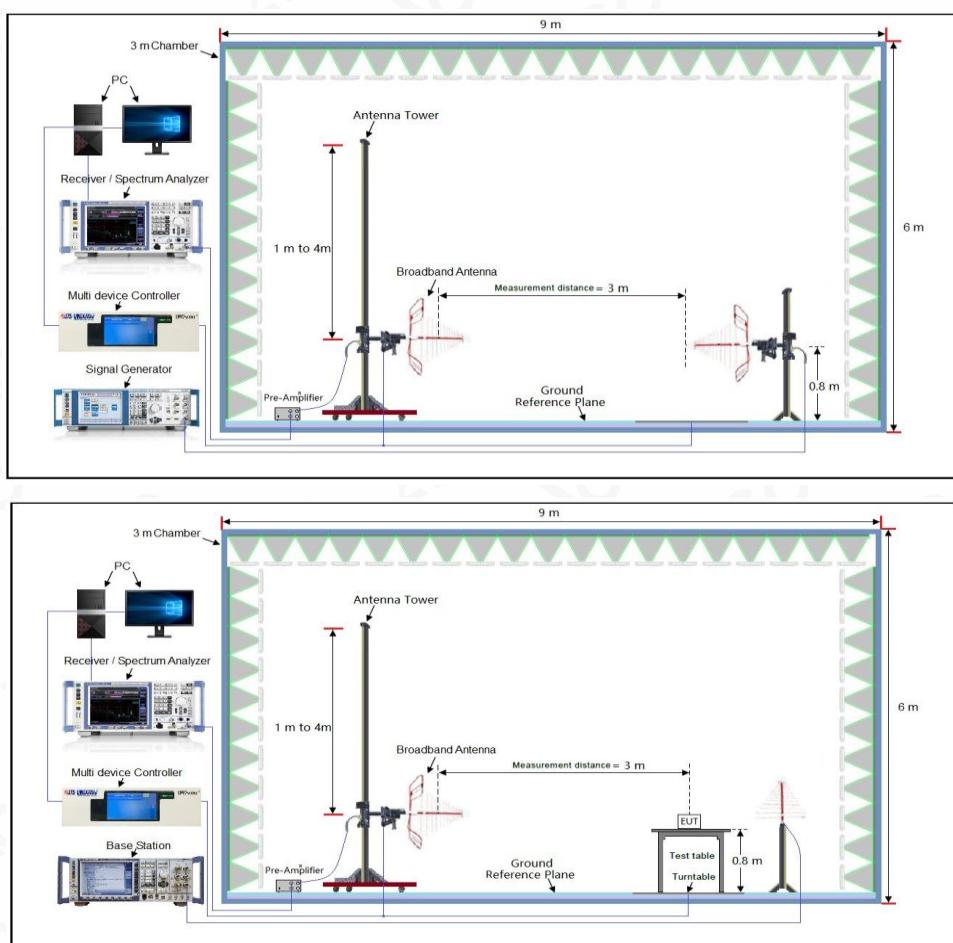


gain value. These steps are repeated with the receiving antenna in both vertical and horizontal polarization. the difference between the gain of the horn and an isotropic antenna are taken into consideration

4. The EUT was tested in three orthogonal planes (X, Y, Z) and in all possible test configurations and positioning.
5. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

8.3 MEASUREMENT SETUP

Radiated Power 30MHz to 1GHz Test setup



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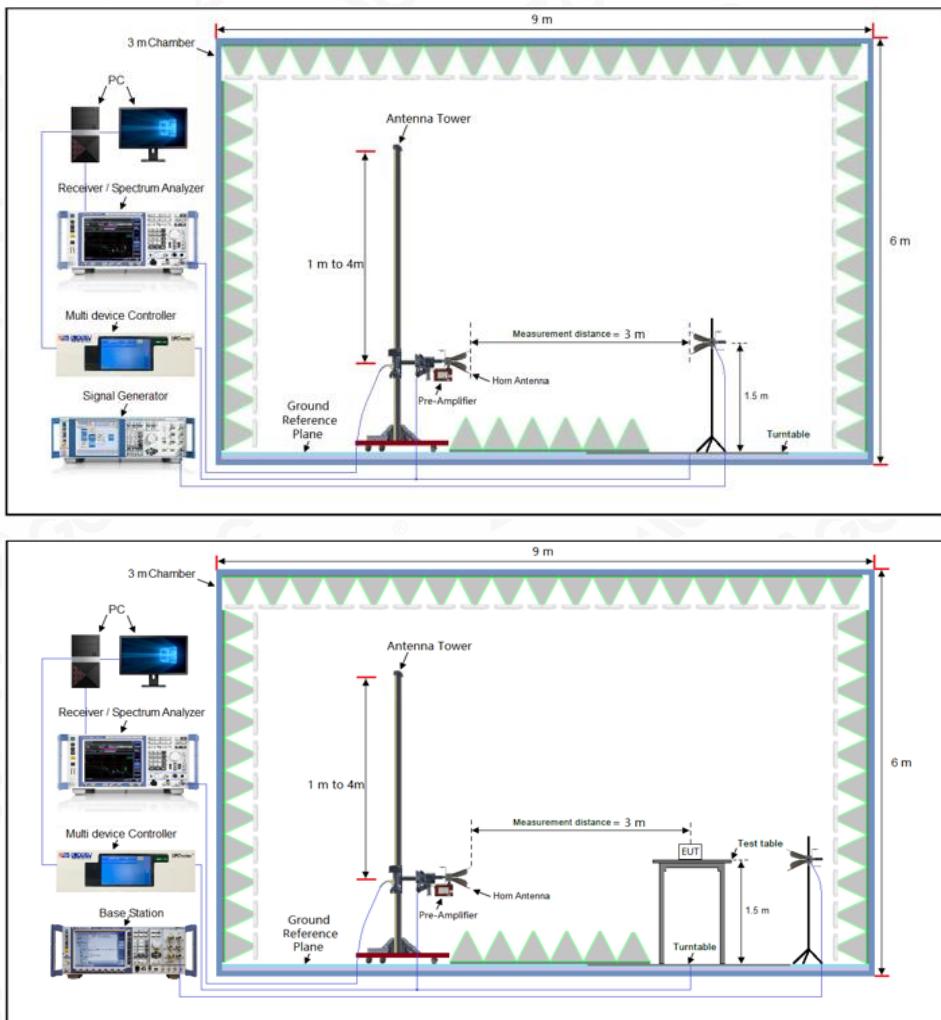
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Radiated Power Above 1GHz Test setup



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8.4 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	12.96	V	7.95	0.79	20.12	33
1880.0	1.4	QPSK	1/0	12.85	V	7.95	0.79	20.01	33
1909.3	1.4	QPSK	1/0	12.60	V	7.95	0.79	19.76	33
1850.7	1.4	QPSK	1/0	14.29	H	7.95	0.79	21.45	33
1880.0	1.4	QPSK	1/0	14.37	H	7.95	0.79	21.53	33
1909.3	1.4	QPSK	1/0	14.23	H	7.95	0.79	21.39	33
1850.7	1.4	16-QAM	1/5	11.81	V	7.95	0.79	18.97	33
1880.0	1.4	16-QAM	1/0	12.96	V	7.95	0.79	20.12	33
1909.3	1.4	16-QAM	1/0	13.10	V	7.95	0.79	20.26	33
1850.7	1.4	16-QAM	1/5	13.36	H	7.95	0.79	20.52	33
1880.0	1.4	16-QAM	1/0	14.37	H	7.95	0.79	21.53	33
1909.3	1.4	16-QAM	1/0	14.51	H	7.95	0.79	21.67	33
1851.5	3	QPSK	1/0	12.70	V	7.95	0.79	19.86	33
1880.0	3	QPSK	1/0	13.05	V	7.95	0.79	20.21	33
1908.5	3	QPSK	1/0	12.60	V	7.95	0.79	19.76	33
1851.5	3	QPSK	1/0	13.95	H	7.95	0.79	21.11	33
1880.0	3	QPSK	1/0	14.19	H	7.95	0.79	21.35	33
1908.5	3	QPSK	1/0	13.93	H	7.95	0.79	21.09	33
1851.5	3	16-QAM	1/0	12.07	V	7.95	0.79	19.23	33
1880.0	3	16-QAM	1/0	12.17	V	7.95	0.79	19.33	33
1908.5	3	16-QAM	1/0	11.56	V	7.95	0.79	18.72	33
1851.5	3	16-QAM	1/0	13.28	H	7.95	0.79	20.44	33
1880.0	3	16-QAM	1/0	13.31	H	7.95	0.79	20.47	33
1908.5	3	16-QAM	1/0	13.19	H	7.95	0.79	20.35	33
1852.5	5	QPSK	1/0	10.17	V	7.95	0.79	17.33	33
1880.0	5	QPSK	1/0	11.88	V	7.95	0.79	19.04	33
1907.5	5	QPSK	1/24	11.80	V	7.95	0.79	18.96	33
1852.5	5	QPSK	1/0	11.72	H	7.95	0.79	18.88	33
1880.0	5	QPSK	1/0	13.33	H	7.95	0.79	20.49	33
1907.5	5	QPSK	1/24	13.47	H	7.95	0.79	20.63	33
1852.5	5	16-QAM	1/0	11.82	V	7.95	0.79	18.98	33
1880.0	5	16-QAM	1/0	11.33	V	7.95	0.79	18.49	33

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1907.5	5	16-QAM	1/24	11.36	V	7.95	0.79	18.52	33
1852.5	5	16-QAM	1/0	13.27	H	7.95	0.79	20.43	33
1880.0	5	16-QAM	1/0	12.47	H	7.95	0.79	19.63	33
1907.5	5	16-QAM	1/24	12.88	H	7.95	0.79	20.04	33
1855	10	QPSK	1/0	11.72	V	7.95	0.79	18.88	33
1880	10	QPSK	1/49	11.59	V	7.95	0.79	18.75	33
1905	10	QPSK	1/0	11.26	V	7.95	0.79	18.42	33
1855	10	QPSK	1/0	12.86	H	7.95	0.79	20.02	33
1880	10	QPSK	1/49	12.81	H	7.95	0.79	19.97	33
1905	10	QPSK	1/0	12.78	H	7.95	0.79	19.94	33
1855	10	16-QAM	1/0	12.94	V	7.95	0.79	20.10	33
1880	10	16-QAM	1/49	12.80	V	7.95	0.79	19.96	33
1905	10	16-QAM	1/0	11.95	V	7.95	0.79	19.11	33
1855	10	16-QAM	1/0	14.27	H	7.95	0.79	21.43	33
1880	10	16-QAM	1/49	14.21	H	7.95	0.79	21.37	33
1905	10	16-QAM	1/0	13.31	H	7.95	0.79	20.47	33
1857.5	15	QPSK	1/0	13.24	V	7.95	0.79	20.40	33
1880	15	QPSK	1/74	13.18	V	7.95	0.79	20.34	33
1902.5	15	QPSK	1/0	13.35	V	7.95	0.79	20.51	33
1857.5	15	QPSK	1/0	14.50	H	7.95	0.79	21.66	33
1880	15	QPSK	1/74	14.53	H	7.95	0.79	21.69	33
1902.5	15	QPSK	1/0	14.49	H	7.95	0.79	21.65	33
1857.5	15	16-QAM	1/0	12.57	V	7.95	0.79	19.73	33
1880	15	16-QAM	1/74	12.95	V	7.95	0.79	20.11	33
1902.5	15	16-QAM	1/0	12.83	V	7.95	0.79	19.99	33
1857.5	15	16-QAM	1/0	13.98	H	7.95	0.79	21.14	33
1880	15	16-QAM	1/74	13.95	H	7.95	0.79	21.11	33
1902.5	15	16-QAM	1/0	14.08	H	7.95	0.79	21.24	33
1860	20	QPSK	1/99	12.19	V	7.95	0.79	19.35	33
1880	20	QPSK	1/99	12.14	V	7.95	0.79	19.30	33
1900	20	QPSK	1/0	11.95	V	7.95	0.79	19.11	33
1860	20	QPSK	1/99	13.42	H	7.95	0.79	20.58	33
1880	20	QPSK	1/99	13.28	H	7.95	0.79	20.44	33
1900	20	QPSK	1/0	13.29	H	7.95	0.79	20.45	33
1860	20	16-QAM	1/99	12.12	V	7.95	0.79	19.28	33
1880	20	16-QAM	1/99	12.16	V	7.95	0.79	19.32	33

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1900	20	16-QAM	1/0	12.16	V	7.95	0.79	19.32	33
1860	20	16-QAM	1/99	13.24	H	7.95	0.79	20.40	33
1880	20	16-QAM	1/99	13.39	H	7.95	0.79	20.55	33
1900	20	16-QAM	1/0	13.30	H	7.95	0.79	20.46	33

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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	14.35	V	7.95	0.79	21.51	30
1732.5	1.4	QPSK	1/0	14.70	V	7.95	0.79	21.86	30
1754.3	1.4	QPSK	1/0	14.30	V	7.95	0.79	21.46	30
1710.7	1.4	QPSK	1/0	15.81	H	7.95	0.79	22.97	30
1732.5	1.4	QPSK	1/0	15.92	H	7.95	0.79	23.08	30
1754.3	1.4	QPSK	1/0	15.77	H	7.95	0.79	22.93	30
1710.7	1.4	16-QAM	1/5	13.46	V	7.95	0.79	20.62	30
1732.5	1.4	16-QAM	1/0	13.45	V	7.95	0.79	20.61	30
1754.3	1.4	16-QAM	1/0	13.44	V	7.95	0.79	20.60	30
1710.7	1.4	16-QAM	1/5	14.68	H	7.95	0.79	21.84	30
1732.5	1.4	16-QAM	1/0	14.87	H	7.95	0.79	22.03	30
1754.3	1.4	16-QAM	1/0	14.68	H	7.95	0.79	21.84	30
1711.5	3	QPSK	1/0	13.02	V	7.95	0.79	20.18	30
1732.5	3	QPSK	1/0	13.18	V	7.95	0.79	20.34	30
1753.5	3	QPSK	1/0	12.90	V	7.95	0.79	20.06	30
1711.5	3	QPSK	1/0	14.34	H	7.95	0.79	21.50	30
1732.5	3	QPSK	1/0	14.39	H	7.95	0.79	21.55	30
1753.5	3	QPSK	1/0	14.37	H	7.95	0.79	21.53	30
1711.5	3	16-QAM	1/0	12.95	V	7.95	0.79	20.11	30
1732.5	3	16-QAM	1/0	13.14	V	7.95	0.79	20.30	30
1753.5	3	16-QAM	1/0	11.99	V	7.95	0.79	19.15	30
1711.5	3	16-QAM	1/0	14.31	H	7.95	0.79	21.47	30
1732.5	3	16-QAM	1/0	14.38	H	7.95	0.79	21.54	30
1753.5	3	16-QAM	1/0	13.40	H	7.95	0.79	20.56	30
1712.5	5	QPSK	1/0	12.35	V	7.95	0.79	19.51	30
1732.5	5	QPSK	1/0	12.68	V	7.95	0.79	19.84	30
1752.5	5	QPSK	1/24	12.37	V	7.95	0.79	19.53	30
1712.5	5	QPSK	1/0	13.57	H	7.95	0.79	20.73	30
1732.5	5	QPSK	1/0	13.78	H	7.95	0.79	20.94	30
1752.5	5	QPSK	1/24	13.61	H	7.95	0.79	20.77	30
1712.5	5	16-QAM	1/0	12.35	V	7.95	0.79	19.51	30
1732.5	5	16-QAM	1/0	12.25	V	7.95	0.79	19.41	30
1752.5	5	16-QAM	1/24	12.33	V	7.95	0.79	19.49	30
1712.5	5	16-QAM	1/0	13.59	H	7.95	0.79	20.75	30
1732.5	5	16-QAM	1/0	13.61	H	7.95	0.79	20.77	30
1752.5	5	16-QAM	1/24	13.58	H	7.95	0.79	20.74	30

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1715	10	QPSK	1/0	11.89	V	7.95	0.79	19.05	30
1732.5	10	QPSK	1/49	12.07	V	7.95	0.79	19.23	30
1750	10	QPSK	1/0	11.83	V	7.95	0.79	18.99	30
1715	10	QPSK	1/0	13.18	H	7.95	0.79	20.34	30
1732.5	10	QPSK	1/49	13.31	H	7.95	0.79	20.47	30
1750	10	QPSK	1/0	13.17	H	7.95	0.79	20.33	30
1715	10	16-QAM	1/0	13.70	V	7.95	0.79	20.86	30
1732.5	10	16-QAM	1/49	13.56	V	7.95	0.79	20.72	30
1750	10	16-QAM	1/0	13.59	V	7.95	0.79	20.75	30
1715	10	16-QAM	1/0	14.94	H	7.95	0.79	22.10	30
1732.5	10	16-QAM	1/49	14.92	H	7.95	0.79	22.08	30
1750	10	16-QAM	1/0	14.83	H	7.95	0.79	21.99	30
1717.5	15	QPSK	1/0	13.68	V	7.95	0.79	20.84	30
1732.5	15	QPSK	1/74	12.45	V	7.95	0.79	19.61	30
1747.5	15	QPSK	1/0	12.62	V	7.95	0.79	19.78	30
1717.5	15	QPSK	1/0	14.81	H	7.95	0.79	21.97	30
1732.5	15	QPSK	1/74	13.81	H	7.95	0.79	20.97	30
1747.5	15	QPSK	1/0	13.83	H	7.95	0.79	20.99	30
1717.5	15	16-QAM	1/0	11.43	V	7.95	0.79	18.59	30
1732.5	15	16-QAM	1/74	11.38	V	7.95	0.79	18.54	30
1747.5	15	16-QAM	1/0	11.42	V	7.95	0.79	18.58	30
1717.5	15	16-QAM	1/0	12.76	H	7.95	0.79	19.92	30
1732.5	15	16-QAM	1/74	12.62	H	7.95	0.79	19.78	30
1747.5	15	16-QAM	1/0	12.97	H	7.95	0.79	20.13	30
1720	20	QPSK	1/99	12.20	V	7.95	0.79	19.36	30
1732.5	20	QPSK	1/99	12.04	V	7.95	0.79	19.20	30
1745	20	QPSK	1/0	13.52	V	7.95	0.79	20.68	30
1720	20	QPSK	1/99	13.44	H	7.95	0.79	20.60	30
1732.5	20	QPSK	1/99	13.37	H	7.95	0.79	20.53	30
1745	20	QPSK	1/0	14.77	H	7.95	0.79	21.93	30
1720	20	16-QAM	1/99	12.64	V	7.95	0.79	19.80	30
1732.5	20	16-QAM	1/99	12.47	V	7.95	0.79	19.63	30
1745	20	16-QAM	1/0	12.41	V	7.95	0.79	19.57	30
1720	20	16-QAM	1/99	13.84	H	7.95	0.79	21.00	30
1732.5	20	16-QAM	1/99	13.72	H	7.95	0.79	20.88	30
1745	20	16-QAM	1/0	13.75	H	7.95	0.79	20.91	30

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ERP 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	13.79	V	6.7	0.49	20.91	38.45
836.5	1.4	QPSK	1/0	13.65	V	6.7	0.49	20.77	38.45
848.3	1.4	QPSK	1/0	13.40	V	6.7	0.49	20.52	38.45
824.7	1.4	QPSK	1/0	14.80	H	6.7	0.49	21.92	38.45
836.5	1.4	QPSK	1/0	14.88	H	6.7	0.49	22.00	38.45
848.3	1.4	QPSK	1/0	14.73	H	6.7	0.49	21.85	38.45
824.7	1.4	16-QAM	1/0	12.71	V	6.7	0.49	19.83	38.45
836.5	1.4	16-QAM	1/0	13.49	V	6.7	0.49	20.61	38.45
848.3	1.4	16-QAM	1/0	12.54	V	6.7	0.49	19.66	38.45
824.7	1.4	16-QAM	1/0	13.75	H	6.7	0.49	20.87	38.45
836.5	1.4	16-QAM	1/0	14.85	H	6.7	0.49	21.97	38.45
848.3	1.4	16-QAM	1/0	13.79	H	6.7	0.49	20.91	38.45
825.5	3	QPSK	1/0	13.83	V	6.7	0.49	20.95	38.45
836.5	3	QPSK	1/0	13.83	V	6.7	0.49	20.95	38.45
847.5	3	QPSK	1/0	13.87	V	6.7	0.49	20.99	38.45
825.5	3	QPSK	1/0	14.99	H	6.7	0.49	22.11	38.45
836.5	3	QPSK	1/0	14.88	H	6.7	0.49	22.00	38.45
847.5	3	QPSK	1/0	14.89	H	6.7	0.49	22.01	38.45
825.5	3	16-QAM	1/0	12.16	V	6.7	0.49	19.28	38.45
836.5	3	16-QAM	1/0	12.66	V	6.7	0.49	19.78	38.45
847.5	3	16-QAM	1/0	11.95	V	6.7	0.49	19.07	38.45
825.5	3	16-QAM	1/0	13.68	H	6.7	0.49	20.80	38.45
836.5	3	16-QAM	1/0	13.80	H	6.7	0.49	20.92	38.45
847.5	3	16-QAM	1/0	13.51	H	6.7	0.49	20.63	38.45
826.5	5	QPSK	1/0	11.19	V	6.7	0.49	18.31	38.45
836.5	5	QPSK	1/0	12.70	V	6.7	0.49	19.82	38.45
846.5	5	QPSK	1/0	12.38	V	6.7	0.49	19.50	38.45
826.5	5	QPSK	1/0	12.55	H	6.7	0.49	19.67	38.45
836.5	5	QPSK	1/0	13.72	H	6.7	0.49	20.84	38.45
846.5	5	QPSK	1/0	13.96	H	6.7	0.49	21.08	38.45
826.5	5	16-QAM	1/0	12.60	V	6.7	0.49	19.72	38.45
836.5	5	16-QAM	1/0	11.57	V	6.7	0.49	18.69	38.45
846.5	5	16-QAM	1/0	12.29	V	6.7	0.49	19.41	38.45
826.5	5	16-QAM	1/0	13.71	H	6.7	0.49	20.83	38.45
836.5	5	16-QAM	1/0	12.87	H	6.7	0.49	19.99	38.45
846.5	5	16-QAM	1/0	13.65	H	6.7	0.49	20.77	38.45

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829	10	QPSK	1/0	12.59	V	6.7	0.49	19.71	38.45
836.5	10	QPSK	1/0	12.39	V	6.7	0.49	19.51	38.45
844	10	QPSK	1/0	12.22	V	6.7	0.49	19.34	38.45
829	10	QPSK	1/0	13.83	H	6.7	0.49	20.95	38.45
836.5	10	QPSK	1/0	13.69	H	6.7	0.49	20.81	38.45
844	10	QPSK	1/0	13.72	H	6.7	0.49	20.84	38.45
829	10	16-QAM	1/0	13.97	V	6.7	0.49	21.09	38.45
836.5	10	16-QAM	1/0	13.47	V	6.7	0.49	20.59	38.45
844	10	16-QAM	1/0	13.45	V	6.7	0.49	20.57	38.45
829	10	16-QAM	1/0	15.19	H	6.7	0.49	22.31	38.45
836.5	10	16-QAM	1/0	14.72	H	6.7	0.49	21.84	38.45
844	10	16-QAM	1/0	14.69	H	6.7	0.49	21.81	38.45

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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	14.09	V	8.23	1.12	21.20	33
2535	5	QPSK	1/0	14.04	V	8.23	1.12	21.15	33
2567.5	5	QPSK	1/24	14.09	V	8.23	1.12	21.20	33
2502.5	5	QPSK	1/0	15.65	H	8.23	1.12	22.76	33
2535	5	QPSK	1/0	15.66	H	8.23	1.12	22.77	33
2567.5	5	QPSK	1/24	15.42	H	8.23	1.12	22.53	33
2502.5	5	16-QAM	1/0	13.68	V	8.23	1.12	20.79	33
2535	5	16-QAM	1/0	13.95	V	8.23	1.12	21.06	33
2567.5	5	16-QAM	1/24	13.71	V	8.23	1.12	20.82	33
2502.5	5	16-QAM	1/0	15.02	H	8.23	1.12	22.13	33
2535	5	16-QAM	1/0	15.14	H	8.23	1.12	22.25	33
2567.5	5	16-QAM	1/24	15.00	H	8.23	1.12	22.11	33
2505	10	QPSK	1/0	12.58	V	8.23	1.12	19.69	33
2535	10	QPSK	1/49	12.46	V	8.23	1.12	19.57	33
2565	10	QPSK	1/0	12.64	V	8.23	1.12	19.75	33
2505	10	QPSK	1/0	14.00	H	8.23	1.12	21.11	33
2535	10	QPSK	1/49	13.98	H	8.23	1.12	21.09	33
2565	10	QPSK	1/0	14.17	H	8.23	1.12	21.28	33
2505	10	16-QAM	1/0	11.47	V	8.23	1.12	18.58	33
2535	10	16-QAM	1/49	11.47	V	8.23	1.12	18.58	33
2565	10	16-QAM	1/0	11.51	V	8.23	1.12	18.62	33
2505	10	16-QAM	1/0	12.96	H	8.23	1.12	20.07	33
2535	10	16-QAM	1/49	13.04	H	8.23	1.12	20.15	33
2565	10	16-QAM	1/0	13.04	H	8.23	1.12	20.15	33
2507.5	15	QPSK	1/0	12.12	V	8.23	1.12	19.23	33
2535	15	QPSK	1/74	12.78	V	8.23	1.12	19.89	33
2562.5	15	QPSK	1/0	12.49	V	8.23	1.12	19.60	33
2507.5	15	QPSK	1/0	13.47	H	8.23	1.12	20.58	33
2535	15	QPSK	1/74	14.15	H	8.23	1.12	21.26	33
2562.5	15	QPSK	1/0	14.02	H	8.23	1.12	21.13	33
2507.5	15	16-QAM	1/0	12.39	V	8.23	1.12	19.50	33
2535	15	16-QAM	1/74	11.61	V	8.23	1.12	18.72	33
2562.5	15	16-QAM	1/0	11.67	V	8.23	1.12	18.78	33
2507.5	15	16-QAM	1/0	14.02	H	8.23	1.12	21.13	33
2535	15	16-QAM	1/74	13.06	H	8.23	1.12	20.17	33
2562.5	15	16-QAM	1/0	13.06	H	8.23	1.12	20.17	33

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2510	20	QPSK	1/99	11.50	V	8.23	1.12	18.61	33
2535	20	QPSK	1/99	11.82	V	8.23	1.12	18.93	33
2560	20	QPSK	1/0	10.54	V	8.23	1.12	17.65	33
2510	20	QPSK	1/99	13.02	H	8.23	1.12	20.13	33
2535	20	QPSK	1/99	12.97	H	8.23	1.12	20.08	33
2560	20	QPSK	1/0	11.92	H	8.23	1.12	19.03	33
2510	20	16-QAM	1/99	13.87	V	8.23	1.12	20.98	33
2535	20	16-QAM	1/99	14.00	V	8.23	1.12	21.11	33
2560	20	16-QAM	1/0	14.05	V	8.23	1.12	21.16	33
2510	20	16-QAM	1/99	15.64	H	8.23	1.12	22.75	33
2535	20	16-QAM	1/99	15.54	H	8.23	1.12	22.65	33
2560	20	16-QAM	1/0	15.42	H	8.23	1.12	22.53	33

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ERP 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	15.92	V	6.6	0.47	22.05	34.77
707.5	1.4	QPSK	1/0	15.72	V	6.6	0.47	21.85	34.77
715.3	1.4	QPSK	1/24	15.91	V	6.6	0.47	22.04	34.77
699.7	1.4	QPSK	1/0	16.93	H	6.6	0.47	23.06	34.77
707.5	1.4	QPSK	1/0	16.93	H	6.6	0.47	23.06	34.77
715.3	1.4	QPSK	1/24	17.02	H	6.6	0.47	23.15	34.77
699.7	1.4	16-QAM	1/0	14.71	V	6.6	0.47	20.84	34.77
707.5	1.4	16-QAM	1/0	15.33	V	6.6	0.47	21.46	34.77
715.3	1.4	16-QAM	1/24	15.05	V	6.6	0.47	21.18	34.77
699.7	1.4	16-QAM	1/0	15.94	H	6.6	0.47	22.07	34.77
707.5	1.4	16-QAM	1/0	16.47	H	6.6	0.47	22.60	34.77
715.3	1.4	16-QAM	1/24	16.25	H	6.6	0.47	22.38	34.77
700.5	3	QPSK	1/0	16.04	V	6.6	0.47	22.17	34.77
707.5	3	QPSK	1/49	16.01	V	6.6	0.47	22.14	34.77
714.5	3	QPSK	1/0	15.81	V	6.6	0.47	21.94	34.77
700.5	3	QPSK	1/0	17.09	H	6.6	0.47	23.22	34.77
707.5	3	QPSK	1/49	17.16	H	6.6	0.47	23.29	34.77
714.5	3	QPSK	1/0	17.04	H	6.6	0.47	23.17	34.77
700.5	3	16-QAM	1/0	14.79	V	6.6	0.47	20.92	34.77
707.5	3	16-QAM	1/49	14.94	V	6.6	0.47	21.07	34.77
714.5	3	16-QAM	1/0	14.53	V	6.6	0.47	20.66	34.77
700.5	3	16-QAM	1/0	15.81	H	6.6	0.47	21.94	34.77
707.5	3	16-QAM	1/49	15.98	H	6.6	0.47	22.11	34.77
714.5	3	16-QAM	1/0	15.83	H	6.6	0.47	21.96	34.77
701.5	5	QPSK	1/0	14.10	V	6.6	0.47	20.23	34.77
707.5	5	QPSK	1/74	13.72	V	6.6	0.47	19.85	34.77
713.5	5	QPSK	1/0	13.57	V	6.6	0.47	19.70	34.77
701.5	5	QPSK	1/0	15.21	H	6.6	0.47	21.34	34.77
707.5	5	QPSK	1/74	15.19	H	6.6	0.47	21.32	34.77
713.5	5	QPSK	1/0	15.03	H	6.6	0.47	21.16	34.77
701.5	5	16-QAM	1/0	14.01	V	6.6	0.47	20.14	34.77
707.5	5	16-QAM	1/74	13.86	V	6.6	0.47	19.99	34.77
713.5	5	16-QAM	1/0	13.99	V	6.6	0.47	20.12	34.77
701.5	5	16-QAM	1/0	15.03	H	6.6	0.47	21.16	34.77
707.5	5	16-QAM	1/74	15.22	H	6.6	0.47	21.35	34.77
713.5	5	16-QAM	1/0	15.13	H	6.6	0.47	21.26	34.77

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704.0	10	QPSK	1/99	15.04	V	6.6	0.47	21.17	34.77
707.5	10	QPSK	1/99	14.68	V	6.6	0.47	20.81	34.77
711.0	10	QPSK	1/0	14.57	V	6.6	0.47	20.70	34.77
704.0	10	QPSK	1/99	16.06	H	6.6	0.47	22.19	34.77
707.5	10	QPSK	1/99	15.95	H	6.6	0.47	22.08	34.77
711.0	10	QPSK	1/0	15.93	H	6.6	0.47	22.06	34.77
704.0	10	16-QAM	1/99	15.92	V	6.6	0.47	22.05	34.77
707.5	10	16-QAM	1/99	15.61	V	6.6	0.47	21.74	34.77
711.0	10	16-QAM	1/0	15.71	V	6.6	0.47	21.84	34.77
704.0	10	16-QAM	1/99	17.15	H	6.6	0.47	23.28	34.77
707.5	10	16-QAM	1/99	17.01	H	6.6	0.47	23.14	34.77
711.0	10	16-QAM	1/0	17.07	H	6.6	0.47	23.20	34.77

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ERP for LTE Band 17

Frequency	Channel Bandwidth	Mode.	RB	Substituted level	Antenna Polarization	Antenna Gain correction	Cable Loss	Absolute Level	Limit (dBm)
706.5	5	QPSK	1/0	15.04	V	6.6	0.47	21.17	34.77
710.0	5	QPSK	1/74	15.54	V	6.6	0.47	21.67	34.77
713.5	5	QPSK	1/0	15.36	V	6.6	0.47	21.49	34.77
706.5	5	QPSK	1/0	16.05	H	6.6	0.47	22.18	34.77
710.0	5	QPSK	1/74	16.75	H	6.6	0.47	22.88	34.77
713.5	5	QPSK	1/0	16.47	H	6.6	0.47	22.60	34.77
706.5	5	16-QAM	1/0	14.18	V	6.6	0.47	20.31	34.77
710.0	5	16-QAM	1/74	15.07	V	6.6	0.47	21.20	34.77
713.5	5	16-QAM	1/0	14.46	V	6.6	0.47	20.59	34.77
706.5	5	16-QAM	1/0	15.41	H	6.6	0.47	21.54	34.77
710.0	5	16-QAM	1/74	16.21	H	6.6	0.47	22.34	34.77
713.5	5	16-QAM	1/0	15.66	H	6.6	0.47	21.79	34.77
709.0	10	QPSK	1/99	14.72	V	6.6	0.47	20.85	34.77
710.0	10	QPSK	1/99	14.66	V	6.6	0.47	20.79	34.77
711.0	10	QPSK	1/0	14.47	V	6.6	0.47	20.60	34.77
709.0	10	QPSK	1/99	15.77	H	6.6	0.47	21.90	34.77
710.0	10	QPSK	1/99	15.81	H	6.6	0.47	21.94	34.77
711.0	10	QPSK	1/0	15.70	H	6.6	0.47	21.83	34.77
709.0	10	16-QAM	1/99	14.79	V	6.6	0.47	20.92	34.77
710.0	10	16-QAM	1/99	14.51	V	6.6	0.47	20.64	34.77
711.0	10	16-QAM	1/0	13.78	V	6.6	0.47	19.91	34.77
709.0	10	16-QAM	1/99	15.81	H	6.6	0.47	21.94	34.77
710.0	10	16-QAM	1/99	15.55	H	6.6	0.47	21.68	34.77
711.0	10	16-QAM	1/0	15.08	H	6.6	0.47	21.21	34.77

Note: Above is the worst mode data.

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9. PEAK-TO-AVERAGE RATIO

9.1 PROVISIONS APPLICABLE

① CCDF Procedure for PAPR :

1. Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Set the measurement interval as follows:
-for continuous transmissions, set to 1 ms,
-or burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
4. Record the maximum PAPR level associated with a probability of 0.1%.

② Alternate Procedure for PAPR:

Use one of the procedures presented in 5.2(ANSI C63.26-2015) to measure the total peak power and record as PPk. Use one of the applicable procedures presented 5.2(ANSI C63.26-2015) to measure the total average power and record as PAvg. Determine the P.A.R. from:

$$P.A.R(dB) = PPk (dBm) - PAvg (dBm) \quad (PAvg = \text{Average Power} + \text{Duty cycle Factor})$$

9.2 MEASUREMENT METHOD

Test Settings(Peak Power):

The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW $\geq 3 \times$ RBW.

1. Set the RBW \geq OBW.
2. Set VBW $\geq 3 \times$ RBW.
3. Set span $\geq 2 \times$ OBW.
4. Sweep time $\geq 10 \times$ (number of points in sweep) \times (transmission symbol period).
5. Detector = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the peak amplitude level.

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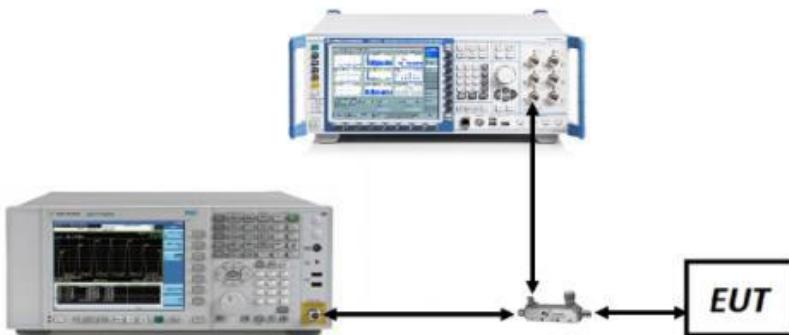
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Test Settings(Average Power)

1. Set span to $2 \times$ to $3 \times$ the OBW.
2. Set RBW \geq OBW.
3. Set VBW $\geq 3 \times$ RBW.
4. Set number of measurement points in sweep $\geq 2 \times$ span / RBW.
5. Sweep time: Set $\geq [10 \times (\text{number of points in sweep}) \times (\text{transmission period})]$ for single sweep (automation-compatible) measurement. The transmission period is the (on + off) time.
6. Detector = power averaging (rms).
7. Set sweep trigger to "free run."
8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. (To accurately determine the average power over the on and off period of the transmitter, it can be necessary to increase the number of traces to be averaged above 100 or, if using a manually configured sweep time, increase the sweep time.)
9. Use the peak marker function to determine the maximum amplitude level.
10. Add $[10 \log (1/\text{duty cycle})]$ to the measured maximum power level to compute the average power during continuous transmission. For example, add $[10 \log (1/0.25)] = 6 \text{ dB}$ if the duty cycle is a constant 25%.

9.3 MEASUREMENT SETUP**9.4 MEASUREMENT RESULT**

Note: The test data please reference to attachment "AGC10849211002FE07_Appendix Data"

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10. SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL

10.1 PROVISIONS APPLICABLE

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

10.2 MEASUREMENT METHOD

For Band 2/Band 4/Band 5/Band 7/Band 12/ Band 17/ Band 25/Band 26/Band 38 /Band 41:
The minimum permissible attenuation level of any spurious emission is $43 + \log_{10}(P[\text{Watts}])$, where P is the transmitter power in Watts.

For Band 7:

- (i) $40 + 10 \log_{10} p$ from the channel edges to 5 MHz away
- (ii) $43 + 10 \log_{10} p$ between 5 MHz and X MHz from the channel edges, and
- (iii) $55 + 10 \log_{10} p$ at X MHz and beyond from the channel edges

For Band 14:

On all frequencies between 769-775 MHz and 799-805 MHz: $< 65 + 10 \log_{10} (P[\text{Watts}])$

For Band 38/41:

1. 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,
2. $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge.
3. $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge.
4. The attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz.
5. $55 + 10 \log (P)$ dB at or below 2490.5 MHz.
6. X is the greater of 6MHz or the actual emission bandwidth.

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to at least 10 * the fundamental frequency (separated into at least two plots per channel)
1. RBW = 1 MHz
2. VBW \geq 3 MHz
3. Detector = RMS
4. Trace Mode = Average
5. Sweep time = auto
6. Number of points in sweep $\geq 2 * \text{Span} / \text{RBW}$

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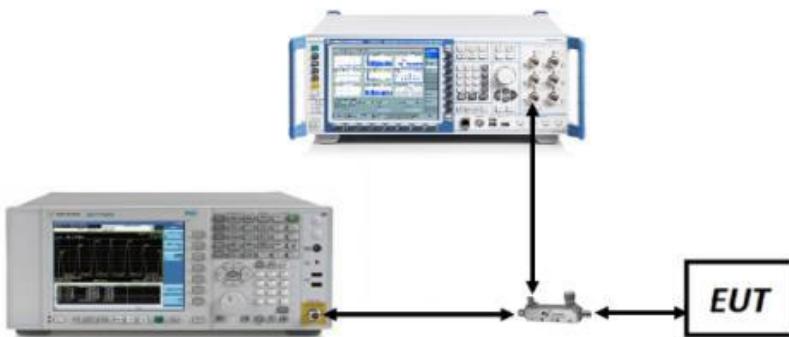
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Test Note

Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

10.3 MEASUREMENT SETUP**10.4 MEASUREMENT RESULT**

Note: The test data please reference to attachment "AGC10849211002FE07_Appendix Data"

Note: 1. No transmission signal is found in standby or receiving mode, and the default value is lower than the limit of 20dB, which is not recorded in this report.

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11. RADIATED SPURIOUS EMISSION

11.1 PROVISIONS APPLICABLE

(A) On any frequency outside a licensee's frequency block (e.g. A, D, B, etc.) within the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least $43+10\log(P)$ dB. The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm.

At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

(B) For specific criteria, please refer to the description in section 9.2 of the report for corresponding evaluation.

11.2 MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.

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9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

11. For spurious emissions above 1GHz, a horn antenna is substituted in place of the EUT.
The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.
The spurious emissions is calculated by the following formula;

$$\text{Result(dBm)} = \text{Pg(dBm)} + \text{Factor(dB)}$$

$$\text{Factor(dB)} = \text{Ant Gain(dB)} - \text{Cable Loss(dB)} + \text{Power Splitter(dB)} \text{ (Above 1GHz)}$$

$$\text{Factor(dB)} = \text{Ant Gain(dB)} - \text{Cable Loss(dB)} \text{ (Below 1GHz)}$$

Where: Pg is the generator output power into the substitution antenna.

If the fundamental frequency is below 1GHz, RF output power has been converted to EIRP.

$$\text{EIRP(dBm)} = \text{ERP(dBm)} + 2.15$$

12. Examples of Factor parameters for testing radiation spurious:

Frequency Range(MHz)	Factor(dB)
30-500	6.18
500-1000	9.37
1000-1500	27.56
1500-2000	28.27
2000-3000	29.45
3000-5000	30.15
5000-10000	31.26
10000-15000	32.78
15000-20000	33.99
Above 20GHz	35.04

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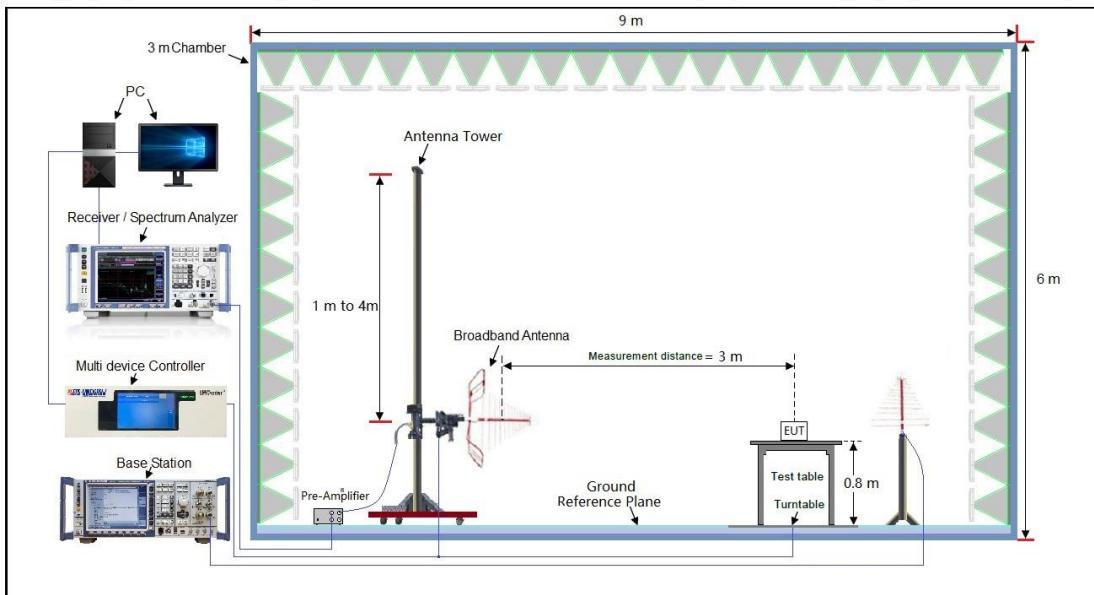
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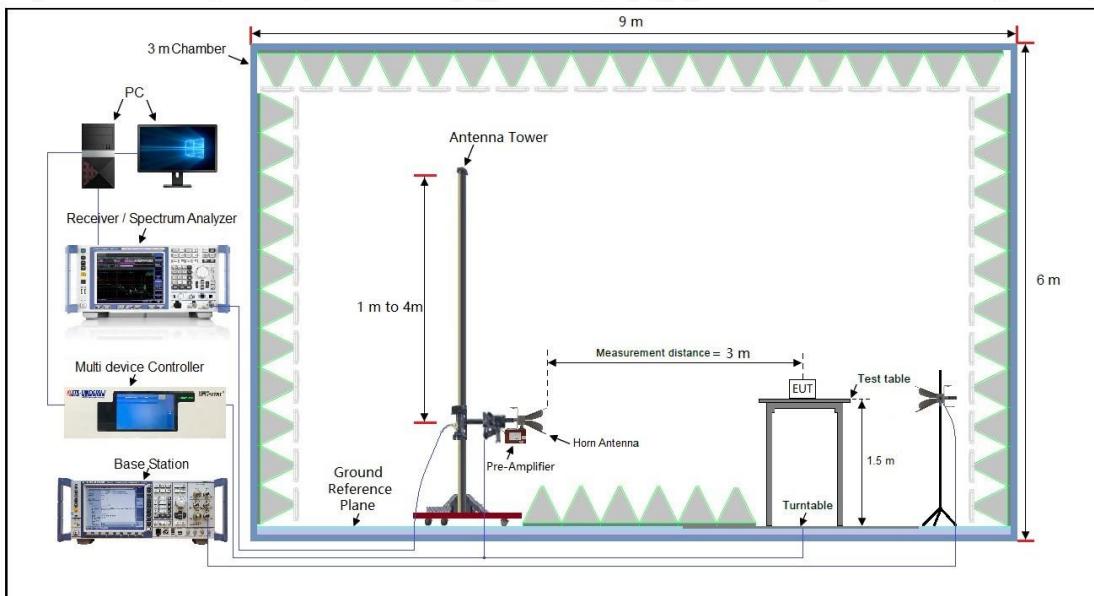


11.3 MEASUREMENT SETUP

Radiated Emissions 30MHz to 1GHz Test setup



Radiated Emissions Above 1GHz Test setup



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11.4 MEASUREMENT RESULT

LTE Band 2 Low channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
5552.1	V	-40.92	-13	-27.92
3701.4	V	-40.76	-13	-27.76
695.5	V	-46.45	-13	-33.45
412.1	V	-51.60	-13	-38.60
5552.1	H	-39.34	-13	-26.34
3701.4	H	-40.63	-13	-27.63
678.3	H	-50.17	-13	-37.17
452.1	H	-49.58	-13	-36.58

Middle channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
5640	V	-41.39	-13	-28.39
3760	V	-38.96	-13	-25.96
885.1	V	-48.37	-13	-35.37
618.7	V	-49.56	-13	-36.56
5640	H	-48.92	-13	-35.92
3760	H	-41.79	-13	-28.79
851.3	H	-46.53	-13	-33.53
732.5	H	-48.23	-13	-35.23

High channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
5727.9	V	-40.84	-13	-27.84
3818.6	V	-41.70	-13	-28.70
664.5	V	-47.27	-13	-34.27
525.8	V	-48.14	-13	-35.14
5727.9	H	-39.19	-13	-26.19
3818.6	H	-39.94	-13	-26.94
669.8	H	-48.48	-13	-35.48
574.4	H	-47.72	-13	-34.72

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LTE Band 4
 Low channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
5132.1	V	-40.68	-13	-27.68
3421.4	V	-40.96	-13	-27.96
745.5	V	-45.23	-13	-32.23
528.1	V	-49.68	-13	-36.68
5132.1	H	-39.19	-13	-26.19
3421.4	H	-41.71	-13	-28.71
520.5	H	-49.55	-13	-36.55
395.8	H	-44.70	-13	-31.70

Middle channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
5197.5	V	-40.36	-13	-27.36
3465	V	-40.33	-13	-27.33
669.4	V	-45.97	-13	-32.97
512.5	V	-49.04	-13	-36.04
5197.5	H	-38.76	-13	-25.76
3465	H	-41.17	-13	-28.17
569.4	H	-48.33	-13	-35.33
469.3	H	-47.48	-13	-34.48

High channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
5262.9	V	-40.37	-13	-27.37
3508.6	V	-39.23	-13	-26.23
711.1	V	-48.59	-13	-35.59
528.7	V	-47.81	-13	-34.81
5262.9	H	-38.00	-13	-25.00
3508.6	H	-39.93	-13	-26.93
612.5	H	-46.75	-13	-33.75
553.9	H	-47.11	-13	-34.11

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LTE Band 5
 Low channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
2474.1	V	-40.94	-13	-27.94
1649.4	V	-41.83	-13	-28.83
512.2	V	-46.79	-13	-33.79
365.5	V	-47.61	-13	-34.61
2474.1	H	-39.32	-13	-26.32
1649.4	H	-41.18	-13	-28.18
521.1	H	-45.43	-13	-32.43
336.5	H	-45.10	-13	-32.10

Middle channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
2509.5	V	-42.48	-13	-29.48
1673	V	-42.21	-13	-29.21
725.8	V	-46.57	-13	-33.57
616.6	V	-47.17	-13	-34.17
2509.5	H	-39.58	-13	-26.58
1673	H	-42.95	-13	-29.95
705.5	H	-46.17	-13	-33.17
558.9	H	-45.54	-13	-32.54

High channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
2544.9	V	-42.05	-13	-29.05
1696.6	V	-40.69	-13	-27.69
648.3	V	-46.99	-13	-33.99
482.7	V	-48.94	-13	-35.94
2544.9	H	-39.56	-13	-26.56
1696.6	H	-42.17	-13	-29.17
785.6	H	-47.41	-13	-34.41
615.7	H	-47.91	-13	-34.91

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**LTE Band 7
Low channel**

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
7507.5	V	-43.19	-25	-18.19
5005	V	-42.59	-25	-17.59
925.7	V	-49.69	-25	-24.69
678.9	V	-52.51	-25	-27.51
7507.5	H	-41.85	-25	-16.85
5005	H	-42.28	-25	-17.28
873.6	H	-50.54	-25	-25.54
662.7	H	-51.51	-25	-26.51

Middle channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBc)	Margin (dB)
7605	V	-43.02	-25	-18.02
5070	V	-41.31	-25	-16.31
833.7	V	-49.93	-25	-24.93
521.2	V	-51.66	-25	-26.66
7605	H	-40.13	-25	-15.13
5070	H	-42.81	-25	-17.81
819.6	H	-50.72	-25	-25.72
520.5	H	-48.49	-25	-23.49

High channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
7702.5	V	-43.05	-25	-18.05
5135	V	-44.21	-25	-19.21
752.6	V	-52.58	-25	-27.58
511.4	V	-52.59	-25	-27.59
7702.5	H	-40.58	-25	-15.58
5135	H	-43.07	-25	-18.07
701.1	H	-50.46	-25	-25.46
507.1	H	-48.70	-25	-23.70

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LTE Band 12
 Low channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
2099.1	V	-44.00	-13	-31.00
1399.4	V	-43.05	-13	-30.05
658.1	V	-51.35	-13	-38.35
516.9	V	-50.86	-13	-37.86
2099.1	H	-43.19	-13	-30.19
1399.4	H	-42.43	-13	-29.43
714.4	H	-50.31	-13	-37.31
669.5	H	-50.34	-13	-37.34

Middle channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
2122.5	V	-45.35	-13	-32.35
1415	V	-44.99	-13	-31.99
651.5	V	-47.60	-13	-34.60
512.7	V	-50.58	-13	-37.58
2122.5	H	-43.79	-13	-30.79
1415	H	-45.65	-13	-32.65
525.4	H	-49.60	-13	-36.60
498.7	H	-50.33	-13	-37.33

High channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
2145.9	V	-45.58	-13	-32.58
1430.6	V	-43.98	-13	-30.98
653.3	V	-47.11	-13	-34.11
592.7	V	-50.16	-13	-37.16
2145.9	H	-46.13	-13	-33.13
1430.6	H	-45.55	-13	-32.55
641.5	H	-52.37	-13	-39.37
558.3	H	-51.60	-13	-38.60

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**LTE Band 17
Low channel**

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
2119.5	V	-41.29	-13	-28.29
1413	V	-46.20	-13	-33.20
652.8	V	-49.29	-13	-36.29
431.2	V	-47.01	-13	-34.01
2119.5	H	-41.36	-13	-28.36
1413	H	-50.98	-13	-37.98
547.1	H	-47.96	-13	-34.96
425.3	H	-45.50	-13	-32.50

Middle channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
2130	V	-41.81	-13	-28.81
1420	V	-42.29	-13	-29.29
625.5	V	-47.02	-13	-34.02
498.3	V	-49.93	-13	-36.93
2130	H	-42.32	-13	-29.32
1420	H	-45.44	-13	-32.44
515.3	H	-50.00	-13	-37.00
412.5	H	-48.67	-13	-35.67

High channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
2140.5	V	-40.15	-13	-27.15
1427	V	-46.78	-13	-33.78
577.8	V	-47.50	-13	-34.50
412.3	V	-44.52	-13	-31.52
2140.5	H	-39.27	-13	-26.27
1427	H	-47.07	-13	-34.07
505.6	H	-48.12	-13	-35.12
401.4	H	-48.56	-13	-35.56

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Note: 1. Margin (dB) = Emission Level(dBm) -Limit(dBm)

Emission Level(dBm)= Measurement Reading(dBm)+Factor(dB)

Factor(dB) = ANT Gain -Cable Loss + Power Splitter

2. The test refers to the value of Factor, please refer to the results listed in the test method in this section of the report.
3. Radiated Spurious Emissions was Tested QPSK Modulation, Resource Block Size 1 and Resource Block Offset 0.
4. Below 30MHz, no spurious emission was found, and only the worst mode data above 30MHz is recorded in the report.

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12. FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

12.1 PROVISIONS APPLICABLE

12.1.1 For Hand carried battery powered equipment

Frequency stability testing is performed in accordance with the guidelines of ANSI/TIA-603-E-2016. The frequency stability of the transmitter is measured by:

- a.) Temperature: The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 22, the frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency. For Part 24 and Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

12.1.2 For equipment powered by primary supply voltage

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

12.2 MEASUREMENT METHOD

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a “call mode”. This is accomplished with the use of R&S CMW500 DIGITAL RADIO COMMUNICATION TESTER.

- 1 Measure the carrier frequency at room temperature.
- 2 Subject the EUT to overnight soak at -30°C. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on channel 20175 for LTE band 4 measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
- 3 Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
- 4 Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1 Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1 1/2 hours unpowered, to allow any self-heating to stabilize, before continuing.

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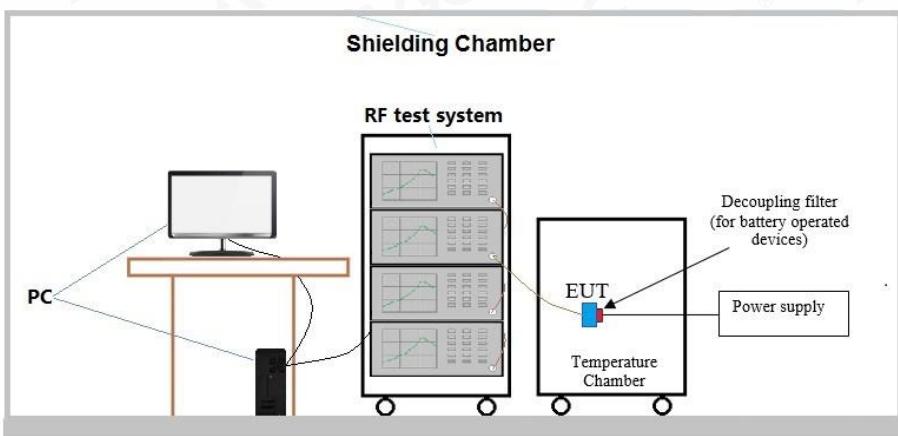
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- 5 Subject the EUT to overnight soak at +50°C.
- 6 With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
- 7 Repeat the above measurements at 10°C increments from +50°C to -30°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
- 8 At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

12.3 MEASUREMENT SETUP



12.4 MEASUREMENT RESULT

Note: The test data please reference to attachment "AGC10849211002FE07_Appendix Data"

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13. OCCUPIED BANDWIDTH

13.1 PROVISIONS APPLICABLE

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission. The EUT makes a call to the communication simulator.

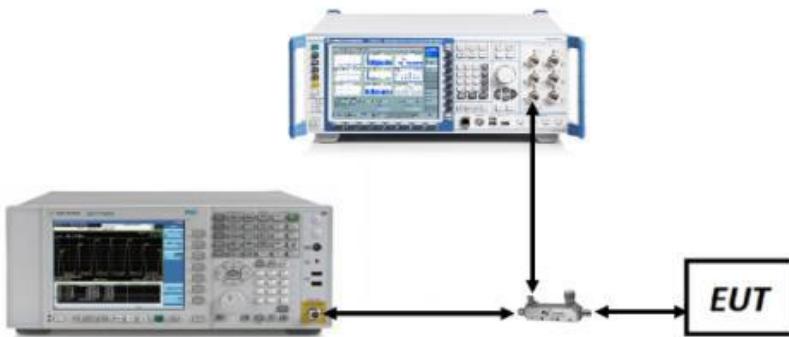
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth

13.2 MEASUREMENT METHOD

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW \geq 3 x RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

13.3 MEASUREMENT SETUP



13.4 MEASUREMENT RESULT

Note: The test data please reference to attachment "AGC10849211002FE07_Appendix Data"

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14. BAND EDGE

14.1 PROVISIONS APPLICABLE

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

14.2 MEASUREMENT METHOD

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW > 1% of the emission bandwidth
4. VBW > 3 x RBW
5. Detector = RMS
6. Number of sweep points $\geq 2 \times \text{Span}/\text{RBW}$
7. Trace mode = trace average
8. Sweep time = auto couple
9. The trace was allowed to stabilize

TEST NOTE

§90.543(e)

1. On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations.
2. On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.
3. On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.
4. Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.
5. Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30kHz may be employed.

§27.53(m)

Equipment shall comply with the following unwanted emission limits:

- a) for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least $43 + 10 \log_{10} p$
- b) for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least $40 + 10 \log_{10} p$ from the channel

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Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: <http://cn.agc-cert.com/>



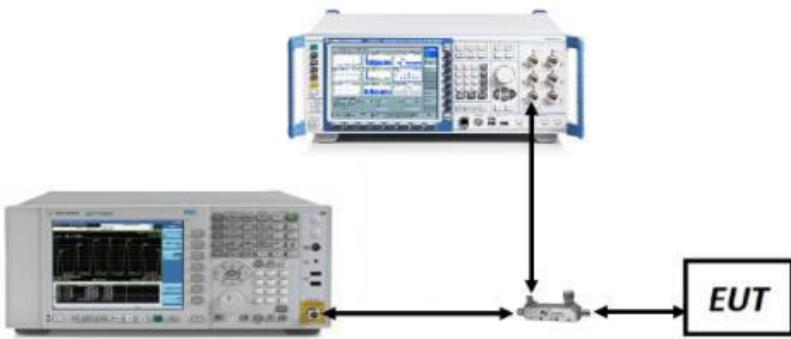
edges to 5 MHz away $43 + 10 \log_{10} p$ between 5 MHz and X MHz from the channel edges, and $55 + 10 \log_{10} p$ at X MHz and beyond from the channel edges. In addition, the attenuation shall not be less than $43 + 10 \log_{10} p$ on all frequencies between 2490.5 MHz and 2496 MHz, and $55 + 10 \log_{10} p$ at or below 2490.5 MHz.

In (a) and (b), p is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

According to FCC 22.917, 24.238, 27.53 specified that power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. All measurements were done at 2 channels (low and high operational frequency range.)

The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

14.3 MEASUREMENT METHOD



14.4 MEASUREMENT RESULT

Note: The test data please reference to attachment "AGC10849211002FE07_Appendix Data"

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APPENDIX I: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC10849211002AP02

APPENDIX II: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC10849211002AP03

----END OF REPORT----

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