FCC Test Report

Report No.: AGC00408210105FE07

FCC ID	:	2AL95-M6
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Feature phone
BRAND NAME	:	AGM
MODEL NAME	:	M6, M6 SE, M6 PRO
APPLICANT	:	AGM Group Limited
DATE OF ISSUE	:	Jun. 22, 2021
STANDARD(S)	:	FCC Part 22 Rules FCC Part 24 Rules FCC Part 27 Rules
REPORT VERSION	:	V1.0

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

REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jun. 22, 2021	Valid	Initial Release

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VERIFICATION OF COMPLIANCE

Applicant	AGM Group Limited
Address	Level 5, Development Bank of Samoa Building. Beach Road, Apia, Samoa
Manufacturer	Shenzhen AIJIEMO Technology Company Limited
Address	1st Floor 101 and 2nd Floor 201, Building A2, Huafeng Century Technology Park, Nanchang Community, Xixiang, Baoan District, Shenzhen,China
Factory	Shenzhen AIJIEMO Technology Company Limited
Address	1st Floor 101 and 2nd Floor 201, Building A2, Huafeng Century Technology Park, Nanchang Community, Xixiang, Baoan District, Shenzhen,China
Product Designation	Feature phone
Brand Name	AGM
Test Model	M6
Series Model	M6 SE, M6 PRO
Difference Description	All the same except the model name.
Date of test	Apr. 01, 2021~Jun. 22, 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, 27. The test results of this report relate only to the tested sample identified in this report.

Prepared By

Donjon Huang
(Project Engineer) Jun. 22, 2021

Reviewed By

Calvin Liu
(Reviewer) Jun. 22, 2021

Approved By

Forrest Lei
Authorized Officer Jun. 22, 2021

1. GENERAL INFORMATION

1.1 PRODUCT DESCRIPTION

A major technical description of EUT is described as following:

Radio System Type:	LTE FUNCTION			
Frequency Bands:	☐FDD Band 2 ☐FDD Band 12 ☒TDD Band 38 ☐FDD Band 71 ☒FDD Band 1 ☒FDD Band 20 (Non-U.S. Bands)	☐FDD Band 4 ☐FDD Band 13 ☒TDD Band 40 (U.S. Bands) ☒FDD Band 3 ☐FDD Band 28	☒FDD Band 5 ☐FDD Band 14 ☒TDD Band 41 ☒FDD Band 7 ☐TDD Band 38	☐FDD Band 7 ☐FDD Band 17 ☐TDD Band 66 ☐FDD Band 8 ☐TDD Band 39
Transmission Frequency Range:	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 38	2572.5 MHz-2617.5 MHz ---(5.0MHz)		
		2575 MHz-2615MHz---(10.0MHz)		
		2577.5 MHz-2612.5 MHz ---(15.0MHz)		
		2580 MHz-2610 MHz---(20.0MHz)		
	LTE-Band 40 (Lower Side)	2307.5 MHz-2312.5 MHz---(5MHz)		
		2310.0 MHz---(10.0MHz)		
	LTE-Band 40 (Upper Side)	2352.5 MHz-2357.5 MHz---(5.0MHz)		
		2355.0 MHz---(10.0MHz)		
	LTE-Band 41	2537.5MHz –2652.5 MHz---(5.0MHz)		
		2540.0 MHz –2650.0 MHz---(10.0MHz)		
		2542.5MHz –2648.5 MHz---(15.0MHz)		
		2545.0MHz –2646.0MHz---(20.0MHz)		
Hardware Version:	CT06_MB_V1.1			
Software Version:	Q11_CT06_AJM01_Y01_V0.2_01_08_2021			
Antenna Type:	PIFA Antenna			
Type of Modulation:	QPSK/16QAM			
Antenna gain:	Band 5:1.28dBi	Band 38:1.42dBi	Band 40: 1.22dBi	Band 41: 1.34dBi
Diversity gain	Band 5:1.20dBi	Band 38:1.38dBi	Band 40: 1.17dBi	Band 41: 1.25dBi
Power Supply:	DC 3.7V by battery			
Dual Card:	LTE Card Slot			

Power Class:	3
Extreme Vol. Limits:	DC 3.15V to 4.26V (Normal: 4.2V)
Temperature range:	5℃ to +45℃
Note1: The High Voltage DC4.26V and Low Voltage DC3.15V were declared by manufacturer, The EUT couldn't be operating normally with higher or lower voltage..	

1.2 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID:2AL95-M6** , filing to comply with the FCC Part 22, Part 24 and Pant 27 requirements.

1.3 TEST METHODOLOGY

The tests were performed according to following standards:

No.	Identity	Document Title
1	FCC Part 2	Frequency allocations and radio treaty matters, general rules and regulations.
2	FCC Part 22	Public Mobile Services.
3	FCC Part 24	Part 24 Personal Communications Services.
4	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	KDB971168 D01	D01 v03r01 Measurement Guidance For Certification Of Licensed Digital Transmitters.

1.4 DEVICE CAPABILITIES

This device contains the following capabilities:
850/1900 GSM/GPRS/EGPRS,850/1900 WCDMA/HSPA, Multi-Band LTE, Bluetooth (1X, EDR, LE).
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 41 (2496-2690 MHz) overlaps the entire frequency range of LTE Band 38 (2560 - 2620 MHz). Therefore, test data provided in this report covers Band 41 as well as Band 38.
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.
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.

1.5 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

1.6 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.

1.7 ENVIRONMENTAL CONDITIONS

	NORMAL CONDITIONS	EXTREME CONDITIONS
Temperature range	15~35℃	-20℃~50℃
Humidty range	20 % to 75 %.	20 % to 75 %.
Pressure range	86-106kPa	86-106kPa
Power supply	DC 3.7V	DC3.15V or 4.26V
Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer.		

1.8 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.

1.9 SPECIAL ACCESSORIES

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

1.10 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2. SYSTEM TEST CONFIGURATION

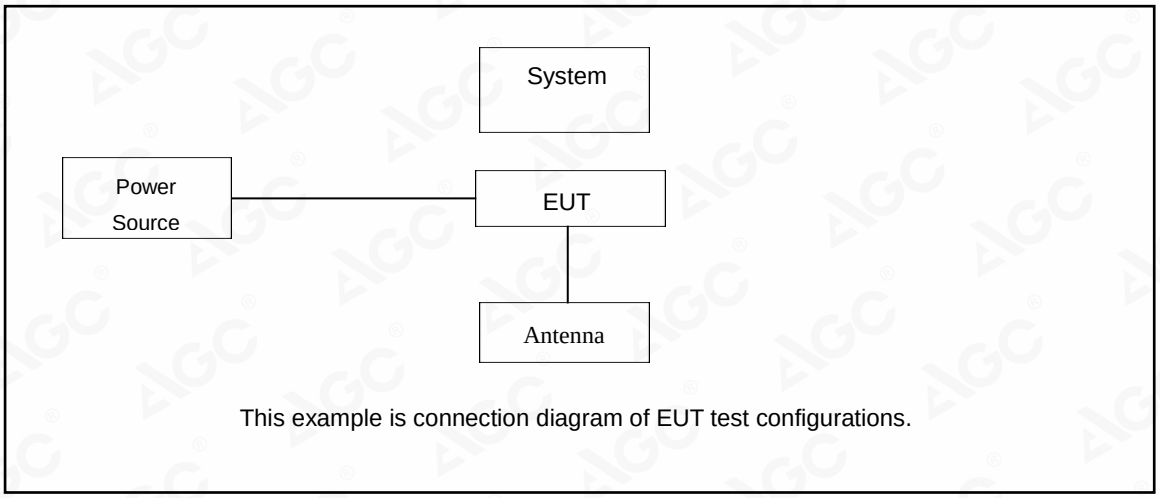
2.1 EUT CONFIGURATION

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.

2.2 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.

2.3 CONFIGURATION OF EUT SYSTEM



This example is connection diagram of EUT test configurations.

Table 2-1 Equipment Used in EUT System

Item	Equipment	Model No.	ID or Specification	Remark
1	Smart phone	M6	2AL95-M6	EUT
2	Adapter 1	TPA-97H050100UW01	Input: 100-240V AC 50/60Hz, 0.15A Output: DC 5.0V 1A	AE
3	Adapter 2	DCS10-0501000F	Input: 100-240V AC 50/60Hz, 0.3A Output: DC 5.0V 1A	AE
4	Adapter 3	TPA-46B050100UU	Input: 100-240V AC 50/60Hz, 0.2A Output: DC 5.0V 1A	AE
5	Battery	M2500	DC 3.7V 2500mAh	AE

Note:

1. All the accessories have been used during the test. The following "EUT" in setup diagram means EUT system.
2. The battery is full-charged during the test

3. SUMMARY OF TEST RESULTS

3.1 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, §22.917(a), §27.53(m)(4) §27.53(a)	Pass
5	Conducted Output Power	§2.1046	Pass
6	Frequency stability / variation of ambient temperature	§2.1055, §22.355, §27.54	Pass
7	Peak- to- Average Ratio	§27.50(a)	Pass

3.2 TEST CONDITION : RADIATED TEST

Item	Test Description	FCC Rules	Result
1	Effective Radiated Power Equivalent Isotropic Radiated Power	§22.913(a)(5), §27.50(h)(2) §27.50(a)(3)	Pass
2	Radiated Spurious and Harmonic Emissions	§2.1053, §22.917(a) ,§27.53(m) (4) §27.53(a)	Pass

4. 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 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 38 Channel and Frequency List				
BW [MHz]	Channel/Frequency (MHz)	Lowest	Middle	Highest
20	Channel	37850	38000	38150
	Frequency	2580	2595	2610
15	Channel	37825	38000	38175
	Frequency	2577.5	2595	2612.5
10	Channel	37800	38000	38200
	Frequency	2575	2595	2615
5	Channel	37775	38000	38225
	Frequency	2572.5	2595	2617.5

LTE Band 40 Channel and Frequency List-Lower Side				
BW [MHz]	Channel/Frequency (MHz)	Lowest	Middle	Highest
10	Channel	--	38750	--
	Frequency	--	2310	--
5	Channel	38725	38750	38775
	Frequency	2307.5	2310	2312.5
LTE Band 40 Channel and Frequency List-Upper Side				
10	Channel	--	39200	--
	Frequency	--	2355	--
5	Channel	39175	39200	39225
	Frequency	2352.5	2355	2357.5

LTE Band 41 Channel and Frequency List				
BW [MHz]	Channel/Frequency (MHz)	Lowest	Middle	Highest
20	Channel	40140	40640	41150
	Frequency	2545.0	2595.0	2646.0
15	Channel	40115	40640	41175
	Frequency	2542.5	2595.0	2648.5
10	Channel	40090	40640	41190
	Frequency	2540.0	2595.0	2650.0
5	Channel	40065	40640	41215
	Frequency	2537.5	2595.0	2652.5

Test Mode	Test Modes Description
LTE BAND 5	LTE system, QPSK modulation
	LTE system, 16QAM modulation
LTE BAND 38	LTE system, QPSK modulation
	LTE system, 16QAM modulation
LTE BAND 40	LTE system, QPSK modulation
	LTE system, 16QAM modulation
LTE BAND 41	LTE system, QPSK modulation
	LTE system, 16QAM modulation

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.

4.1 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

5. LIST OF TEST EQUIPMENT

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	May 15, 2020	May 14, 2021
TEST RECEIVER	R&S	ESPI	101206	May 13, 2021	May 12, 2022
LISN	R&S	ESH2-Z5	100086	Jul. 03, 2020	Jul. 02, 2021
TEST RECEIVER	R&S	ESCI	10096	Apr. 14, 2021	Apr. 13, 2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.07, 2020	Dec.06, 2021
EXA Signal Analyzer	Aglient	N9020B	MY56101792	Jul. 15, 2020	Jul. 14, 2021
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Oct. 20, 2019	Oct. 19, 2022
preamplifier	ChengYi	EMC184045SE	980508	Sep. 21, 2020	Sep. 20, 2021
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 17, 2019	May. 16, 2021
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 15, 2021	May. 14, 2023
Broadband Preamplifier	SCHWARZBECK	00073	BBHA 9120 J	Sep. 27, 2019	Sep. 26, 2021
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.20, 2019	Sep.19, 2021
SIGNAL ANALYZER	Agilent	N9020A	MY52090123	Sep. 03, 2020	Sep. 02, 2021
USB Wideband Power Sensor	Agilent	U2021XA	MY54110007	Jun. 08, 2020	Jun. 07, 2021
USB Wideband Power Sensor	Agilent	U2021XA	MY54110007	Jun. 06, 2021	Jun. 05, 2022
Wireless communicationtest	R&S	CMW500	120909	Oct. 24, 2020	Oct. 23, 2021
Power Splitter	Agilent	11636A	34	Jun.10, 2020	Jun.09, 2021
Power Splitter	Agilent	11636A	34	Jun.08, 2021	Jun.07, 2022
Attenuator	JFW	50FHC-006-50	N/A	Jun.10, 2020	Jun.09, 2021
Attenuator	JFW	50FHC-006-50	N/A	Jun.08, 2021	Jun.07, 2022

6. CONDUCTED OUTPUT POWER

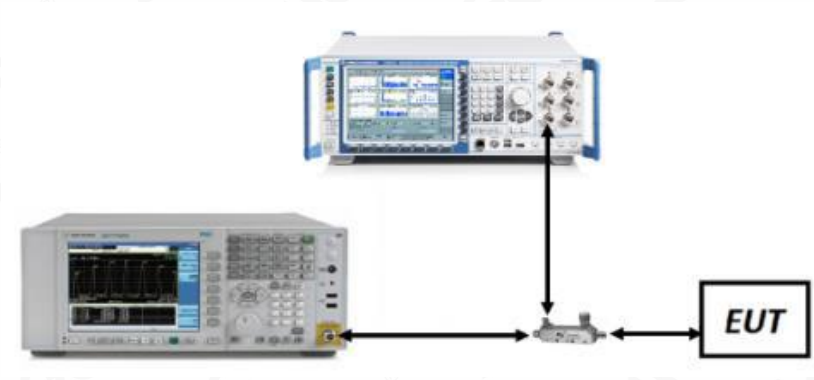
6.1 MEASUREMENT OVERVIEW

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)

6.2 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.

6.3 MEASUREMENT SETUP



6.4 MEASUREMENT RESULT

LTE Band 5

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
10MHz	20450	829	QPSK	1	0	0	23.01
				1	24	0	22.39
				1	49	0	22.38
				25	0	1	21.27
				25	12	1	21.27
				25	25	1	21.75
				50	0	1	21.62
			16QAM	1	0	1	21.82
				1	24	1	21.23
				1	49	1	21.33
				25	0	2	20.87
				25	12	2	20.54
				25	25	2	20.54
				50	0	2	20.59
	20525	836.5	QPSK	1	0	0	22.77
				1	24	0	23.38
				1	49	0	23.17
				25	0	1	22.16
				25	12	1	22.03
				25	25	1	22.03
				50	0	1	22.15
			16QAM	1	0	1	22.02
				1	24	1	21.58
				1	49	1	21.99
				25	0	2	21.38
				25	12	2	21.34
				25	25	2	21.34
				50	0	2	21.29
	20600	844	QPSK	1	0	0	23.37
				1	24	0	23.26
				1	49	0	23.39
				25	0	1	22.41
				25	12	1	22.37
				25	25	1	22.40
				50	0	1	22.31
			16QAM	1	0	1	22.05
				1	24	1	22.00
				1	49	1	22.04
				25	0	2	21.62
				25	12	2	21.67
				25	25	2	21.44
				50	0	2	21.40

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
5MHz	20425	826.5	QPSK	1	0	0	23.20
				1	12	0	23.03
				1	24	0	23.14
				12	0	1	22.14
				12	6	1	22.09
				12	11	1	21.99
				25	0	1	22.06
			16QAM	1	0	1	22.14
				1	12	1	22.16
				1	24	1	22.27
				12	0	2	21.63
				12	6	2	21.62
				12	11	2	21.18
				25	0	2	21.18
	20525	836.5	QPSK	1	0	0	23.20
				1	12	0	23.43
				1	24	0	23.35
				12	0	1	22.15
				12	6	1	22.15
				12	11	1	22.17
				25	0	1	22.18
			16QAM	1	0	1	21.45
				1	12	1	21.70
				1	24	1	21.74
				12	0	2	21.31
				12	6	2	21.55
				12	11	2	21.58
				25	0	2	21.37
	20625	846.5	QPSK	1	0	0	23.46
				1	12	0	23.56
				1	24	0	23.48
				12	0	1	22.43
				12	6	1	22.44
				12	11	1	22.40
				25	0	1	22.44
			16QAM	1	0	1	22.11
				1	12	1	22.11
				1	24	1	22.08
				12	0	2	21.76
				12	6	2	21.76
				12	11	2	21.34
				25	0	2	21.26

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
3MHz	20415	825.5	QPSK	1	0	0	23.11
				1	7	0	23.08
				1	14	0	23.19
				8	0	1	22.15
				8	4	1	22.13
				8	7	1	21.97
				15	0	1	21.98
			16QAM	1	0	1	21.45
				1	7	1	21.57
				1	14	1	21.45
				8	0	2	21.11
				8	4	2	21.66
				8	7	2	21.66
				15	0	2	21.31
	20525	836.5	QPSK	1	0	0	23.02
				1	7	0	23.16
				1	14	0	23.15
				8	0	1	22.17
				8	4	1	22.15
				8	7	1	22.16
				15	0	1	22.16
			16QAM	1	0	1	22.33
				1	7	1	22.15
				1	14	1	22.29
				8	0	2	21.46
				8	4	2	21.67
				8	7	2	21.67
				15	0	2	21.16
	20635	847.5	QPSK	1	0	0	23.47
				1	7	0	23.56
				1	14	0	23.53
				8	0	1	22.38
				8	4	1	22.35
				8	7	1	22.38
				15	0	1	22.44
			16QAM	1	0	1	22.13
				1	7	1	22.19
				1	14	1	22.09
				8	0	2	21.54
				8	4	2	21.48
				8	7	2	21.54
				15	0	2	21.23

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
1.4MHz	20407	824.7	QPSK	1	0	0	20.35
				1	2	0	20.18
				1	5	0	20.20
				3	0	0	23.18
				3	1	0	23.07
				3	2	0	20.31
				6	0	1	22.07
			16QAM	1	0	1	20.83
				1	2	1	21.00
				1	5	1	20.70
				3	0	1	21.99
				3	1	1	21.91
				3	2	1	20.10
				6	0	2	21.70
	20525	836.5	QPSK	1	0	0	23.16
				1	2	0	23.10
				1	5	0	23.12
				3	0	0	23.24
				3	1	0	23.21
				3	2	0	23.21
				6	0	1	22.23
			16QAM	1	0	1	22.60
				1	2	1	22.68
				1	5	1	22.64
				3	0	1	22.05
				3	1	1	22.02
				3	2	1	21.99
				6	0	2	21.45
	20643	848.3	QPSK	1	0	0	23.30
				1	2	0	23.34
				1	5	0	23.36
				3	0	0	23.39
				3	1	0	23.38
				3	2	0	23.40
				6	0	1	22.40
			16QAM	1	0	1	22.77
				1	2	1	22.85
				1	5	1	22.69
				3	0	1	22.06
				3	1	1	22.07
				3	2	1	22.03
				6	0	2	21.36

LTE Band 38

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
20MHz	37850	2580.0	QPSK	1	0	0	21.82
				1	49	0	22.38
				1	99	0	22.29
				50	0	1	21.20
				50	25	1	21.21
				50	49	1	21.08
				100	0	1	21.16
			16QAM	1	0	1	21.60
				1	49	1	21.92
				1	99	1	21.90
				50	0	2	20.26
				50	25	2	20.44
				50	49	2	20.44
				100	0	2	20.29
	38000	2595	QPSK	1	0	0	21.95
				1	49	0	22.02
				1	99	0	21.78
				50	0	1	20.89
				50	25	1	20.91
				50	49	1	20.92
				100	0	1	20.90
			16QAM	1	0	1	20.96
				1	49	1	20.95
				1	99	1	20.83
				50	0	2	20.00
				50	25	2	20.03
				50	49	2	20.03
				100	0	2	19.95
	38150	2610.0	QPSK	1	0	0	21.77
				1	49	0	21.85
				1	99	0	21.82
				50	0	1	21.15
				50	25	1	20.94
				50	49	1	21.11
				100	0	1	20.99
			16QAM	1	0	1	21.49
				1	49	1	21.48
				1	99	1	21.53
				50	0	2	20.34
				50	25	2	20.35
				50	49	2	20.12
				100	0	2	20.15

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
15MHz	37825	2577.5	QPSK	1	0	0	22.20
				1	38	0	22.42
				1	74	0	22.06
				38	0	1	20.94
				38	18	1	21.06
				38	37	1	20.91
				75	0	1	21.26
			16QAM	1	0	1	21.04
				1	38	1	21.08
				1	74	1	20.92
				38	0	2	21.06
				38	18	2	20.93
				38	37	2	20.91
				75	0	2	20.35
	38000	2595	QPSK	1	0	0	21.83
				1	38	0	21.90
				1	74	0	21.79
				38	0	1	20.68
				38	18	1	20.89
				38	37	1	20.88
				75	0	1	20.97
			16QAM	1	0	1	20.68
				1	38	1	20.73
				1	74	1	20.87
				38	0	2	20.88
				38	18	2	20.68
				38	37	2	20.88
				75	0	2	20.10
	38175	2612.5	QPSK	1	0	0	21.96
				1	38	0	21.86
				1	74	0	21.79
				38	0	1	21.33
				38	18	1	21.16
				38	37	1	21.18
				75	0	1	21.01
			16QAM	1	0	1	21.17
				1	38	1	21.36
				1	74	1	21.17
				38	0	2	21.34
				38	18	2	21.16
				38	37	2	21.16
				75	0	2	20.22

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
10MHz	37800	2575.0	QPSK	1	0	0	22.30
				1	24	0	22.21
				1	49	0	22.13
				25	0	1	21.14
				25	12	1	21.14
				25	25	1	21.31
				50	0	1	21.22
			16QAM	1	0	1	20.97
				1	24	1	21.09
				1	49	1	21.19
				25	0	2	20.35
				25	12	2	20.10
				25	25	2	20.10
				50	0	2	20.33
	38000	2595.0	QPSK	1	0	0	21.81
				1	24	0	21.92
				1	49	0	21.78
				25	0	1	20.95
				25	12	1	20.87
				25	25	1	20.77
				50	0	1	20.78
			16QAM	1	0	1	20.74
				1	24	1	20.61
				1	49	1	20.70
				25	0	2	20.05
				25	12	2	19.97
				25	25	2	19.97
				50	0	2	20.05
	38200	2615.0	QPSK	1	0	0	21.87
				1	24	0	21.91
				1	49	0	21.93
				25	0	1	21.00
				25	12	1	21.07
				25	25	1	21.02
				50	0	1	20.98
			16QAM	1	0	1	20.79
				1	24	1	20.88
				1	49	1	20.83
				25	0	2	20.01
				25	12	2	19.99
				25	25	2	20.15
				50	0	2	20.15

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
5MHz	37775	2572.5	QPSK	1	0	0	21.96
				1	12	0	22.13
				1	24	0	22.12
				12	0	1	21.03
				12	6	1	21.15
				12	13	1	21.16
				25	0	1	21.10
			16QAM	1	0	1	21.18
				1	12	1	21.18
				1	24	1	21.38
				12	0	2	20.22
				12	6	2	20.22
				12	13	2	20.24
				25	0	2	20.11
	38000	2595	QPSK	1	0	0	21.83
				1	12	0	21.94
				1	24	0	21.89
				12	0	1	20.96
				12	6	1	20.96
				12	13	1	20.88
				25	0	1	20.77
			16QAM	1	0	1	21.07
				1	12	1	21.05
				1	24	1	21.12
				12	0	2	20.05
				12	6	2	19.98
				12	13	2	19.98
				25	0	2	19.99
	38225	2617.5	QPSK	1	0	0	22.03
				1	12	0	21.93
				1	24	0	22.06
				12	0	1	20.95
				12	6	1	20.97
				12	13	1	20.96
				25	0	1	21.04
			16QAM	1	0	1	21.10
				1	12	1	21.17
				1	24	1	21.32
				12	0	2	20.16
				12	6	2	20.17
				12	13	2	20.22
				25	0	2	20.02

LTE Band 40-Lower Side

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
10MHz	38750	2310	QPSK	1	0	0	22.92
				1	24	0	22.97
				1	49	0	23.12
				25	0	1	21.99
				25	12	1	21.95
				25	25	1	21.96
				50	0	1	22.04
			16QAM	1	0	1	21.80
				1	24	1	21.89
				1	49	1	22.05
				25	0	2	20.99
				25	12	2	20.98
				25	25	2	20.96
				50	0	2	20.99

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
5MHz	38725	2307.5	QPSK	1	0	0	22.90
				1	12	0	22.81
				1	24	0	22.94
				12	0	1	21.91
				12	6	1	21.92
				12	13	1	21.89
				25	0	1	21.92
			16QAM	1	0	1	21.90
				1	12	1	21.89
				1	24	1	21.76
				12	0	2	20.85
				12	6	2	20.90
				12	13	2	20.83
				25	0	2	20.86
	38750	2310	QPSK	1	0	0	22.74
				1	12	0	22.86
				1	24	0	22.75
				12	0	1	21.93
				12	6	1	21.86
				12	13	1	21.84
				25	0	1	21.83
			16QAM	1	0	1	22.02
				1	12	1	21.93
				1	24	1	21.90
				12	0	2	20.92
				12	6	2	20.98
				12	13	2	20.93
				25	0	2	20.83
	38775	2312.5	QPSK	1	0	0	22.80
				1	12	0	22.96
				1	24	0	22.88
				12	0	1	21.91
				12	6	1	21.91
				12	13	1	21.96
				25	0	1	21.94
			16QAM	1	0	1	21.91
				1	12	1	21.76
				1	24	1	21.86
				12	0	2	20.97
				12	6	2	20.94
				12	13	2	20.92
				25	0	2	20.91

LTE Band 40-Upper Side

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
10MHz	39200	2355	QPSK	1	0	0	23.83
				1	24	0	23.36
				1	49	0	23.60
				25	0	1	22.69
				25	12	1	22.55
				25	25	1	22.65
				50	0	1	22.69
			16QAM	1	0	1	22.73
				1	24	1	22.51
				1	49	1	22.25
				25	0	2	21.65
				25	12	2	21.63
				25	25	2	21.59
				50	0	2	21.62

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
5MHz	39175	2352.5	QPSK	1	0	0	23.51
				1	12	0	23.51
				1	24	0	23.65
				12	0	1	22.57
				12	6	1	22.53
				12	13	1	22.54
				25	0	1	22.60
			16QAM	1	0	1	22.50
				1	12	1	22.57
				1	24	1	22.47
				12	0	2	21.57
				12	6	2	21.58
				12	13	2	21.55
				25	0	2	21.59
	39200	2355	QPSK	1	0	0	23.53
				1	12	0	23.34
				1	24	0	23.45
				12	0	1	22.50
				12	6	1	22.56
				12	13	1	22.50
				25	0	1	22.53
			16QAM	1	0	1	22.49
				1	12	1	22.69
				1	24	1	22.65
				12	0	2	21.50
				12	6	2	21.54
				12	13	2	21.61
				25	0	2	21.49
	39225	2357.5	QPSK	1	0	0	23.44
				1	12	0	23.45
				1	24	0	23.19
				12	0	1	22.37
				12	6	1	22.47
				12	13	1	22.43
				25	0	1	22.39
			16QAM	1	0	1	22.38
				1	12	1	22.37
				1	24	1	22.14
				12	0	2	21.46
				12	6	2	21.48
				12	13	2	21.38
				25	0	2	21.41

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BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
20MHz	40140	2545.0	QPSK	1	0	0	22.66
				1	49	0	22.52
				1	99	0	22.64
				50	0	1	21.41
				50	25	1	21.47
				50	49	1	21.46
				100	0	1	21.49
			16QAM	1	0	1	22.55
				1	49	1	22.66
				1	99	1	22.63
				50	0	2	20.66
				50	25	2	20.65
				50	49	2	20.66
				100	0	2	20.60
	40640	2595.0	QPSK	1	0	0	21.45
				1	49	0	21.74
				1	99	0	21.51
				50	0	1	20.64
				50	25	1	20.40
				50	49	1	20.58
				100	0	1	20.60
			16QAM	1	0	1	20.51
				1	49	1	20.54
				1	99	1	20.67
				50	0	2	19.69
				50	25	2	19.68
				50	49	2	19.87
				100	0	2	19.66
	41150	2646.0	QPSK	1	0	0	21.56
				1	49	0	21.50
				1	99	0	21.64
				50	0	1	20.61
				50	25	1	20.63
				50	49	1	20.77
				100	0	1	20.75
			16QAM	1	0	1	20.76
				1	49	1	20.93
				1	99	1	21.16
				50	0	2	19.96
				50	25	2	19.97
				50	49	2	20.13
				100	0	2	19.82

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
15MHz	40115	2542.5	QPSK	1	0	0	23.60
				1	38	0	23.59
				1	74	0	23.61
				38	0	1	23.42
				38	18	1	23.26
				38	37	1	23.31
				75	0	1	22.65
			16QAM	1	0	1	23.27
				1	38	1	23.40
				1	74	1	23.32
				38	0	2	23.42
				38	18	2	23.26
				38	37	2	23.31
				75	0	2	21.86
	40640	2595.0	QPSK	1	0	0	21.53
				1	38	0	21.48
				1	74	0	21.66
				38	0	1	20.64
				38	18	1	20.62
				38	37	1	20.32
				75	0	1	20.69
			16QAM	1	0	1	20.47
				1	38	1	20.33
				1	74	1	20.64
				38	0	2	20.32
				38	18	2	20.64
				38	37	2	20.62
				75	0	2	19.82
	41175	2648.5	QPSK	1	0	0	21.25
				1	38	0	21.28
				1	74	0	21.32
				38	0	1	20.96
				38	18	1	21.06
				38	37	1	20.81
				75	0	1	20.74
			16QAM	1	0	1	20.88
				1	38	1	21.05
				1	74	1	21.02
				38	0	2	20.82
				38	18	2	21.02
				38	37	2	20.95
				75	0	2	19.82

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
10MHz	40090	2540.0	QPSK	1	0	0	23.54
				1	24	0	23.75
				1	49	0	23.63
				25	0	1	22.69
				25	12	1	22.65
				25	25	1	22.69
				50	0	1	22.62
			16QAM	1	0	1	23.28
				1	24	1	23.22
				1	49	1	23.37
				25	0	2	21.88
				25	12	2	21.88
				25	25	2	21.81
				50	0	2	21.81
	40640	2595.0	QPSK	1	0	0	21.53
				1	24	0	21.59
				1	49	0	21.54
				25	0	1	20.64
				25	12	1	20.64
				25	25	1	20.77
				50	0	1	20.55
			16QAM	1	0	1	20.47
				1	24	1	20.54
				1	49	1	20.39
				25	0	2	19.66
				25	12	2	19.79
				25	25	2	19.66
				50	0	2	19.74
	41190	2650.0	QPSK	1	0	0	21.62
				1	24	0	21.65
				1	49	0	21.68
				25	0	1	20.69
				25	12	1	20.69
				25	25	1	20.78
				50	0	1	20.64
			16QAM	1	0	1	20.43
				1	24	1	20.58
				1	49	1	20.67
				25	0	2	19.70
				25	12	2	19.75
				25	25	2	19.74
				50	0	2	19.87

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
5MHz	40065	2537.5	QPSK	1	0	0	23.57
				1	12	0	23.59
				1	24	0	23.58
				12	0	1	22.72
				12	6	1	22.72
				12	13	1	22.63
				25	0	1	22.63
			16QAM	1	0	1	23.28
				1	12	1	23.20
				1	24	1	23.18
				12	0	2	21.80
				12	6	2	21.66
				12	13	2	21.64
				25	0	2	21.93
	40640	2595.0	QPSK	1	0	0	21.58
				1	12	0	21.63
				1	24	0	21.70
				12	0	1	20.60
				12	6	1	20.66
				12	13	1	20.65
				25	0	1	20.52
			16QAM	1	0	1	20.89
				1	12	1	20.91
				1	24	1	20.67
				12	0	2	19.66
				12	6	2	19.68
				12	13	2	19.72
				25	0	2	19.73
	41215	2652.5	QPSK	1	0	0	21.74
				1	12	0	21.69
				1	24	0	21.70
				12	0	1	20.83
				12	6	1	20.64
				12	13	1	20.64
				25	0	1	20.63
			16QAM	1	0	1	20.79
				1	12	1	21.05
				1	24	1	20.79
				12	0	2	19.86
				12	6	2	19.86
				12	13	2	19.95
				25	0	2	19.78

7. RADIATED POWER

7.1 MEASUREMENT OVERVIEW

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 5	< 7 Watts max. ERP (38.45dBm)
LTE Band 38	< 2 Watts max. EIRP (33dBm)
LTE Band 40	< 0.25 Watts max. EIRP (23.98dBm)
LTE Band 41	< 2 Watts max. EIRP (33dBm)

7.2 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 ≥ 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.

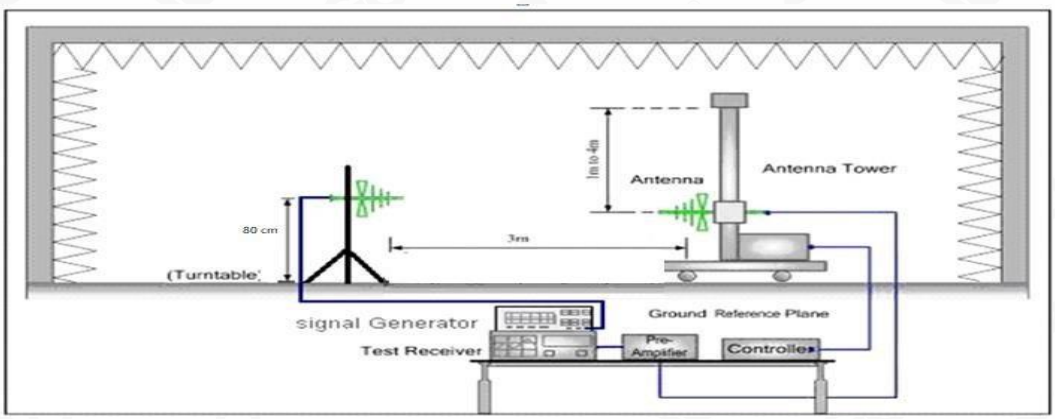
   The power is calculated by the following formula：

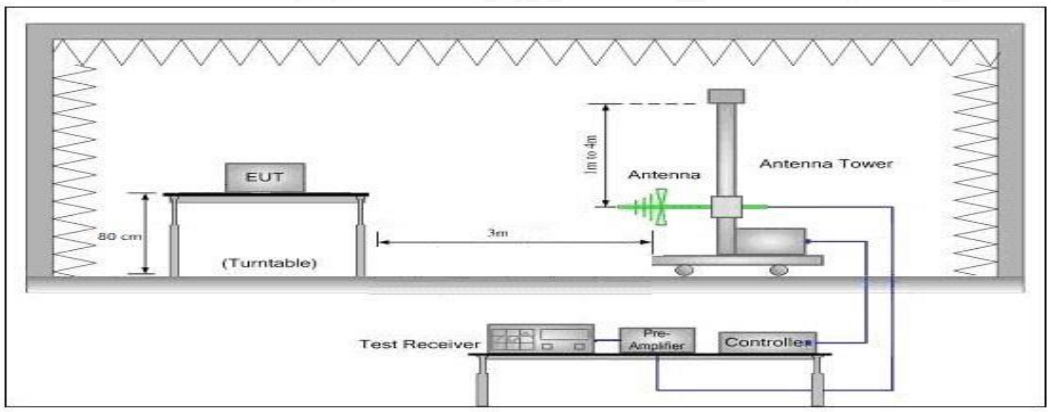
   Pd(dBm) = Pg(dBm) – cable loss (dB) + antenna gain (dB)

   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 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.

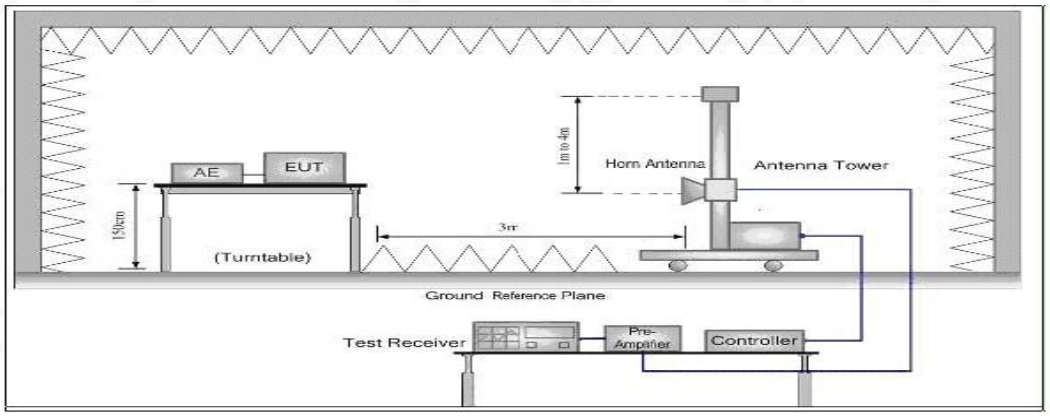
7.3 MEASUREMENT SETUP

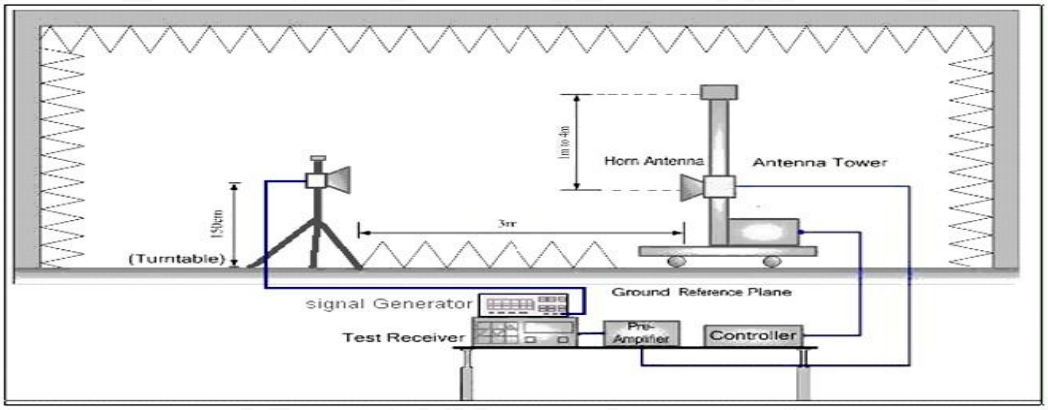
Radiated Below1GHz





Radiated Above 1 GHz





7.4 MEASUREMENT RESULT

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	13.35	V	6.7	0.49	19.56	38.45
836.5	1.4	QPSK	1/0	12.55	V	6.7	0.49	18.76	38.45
848.3	1.4	QPSK	1/0	13.14	V	6.7	0.49	19.35	38.45
824.7	1.4	QPSK	1/0	14.91	H	6.7	0.49	21.12	38.45
836.5	1.4	QPSK	1/0	14.29	H	6.7	0.49	20.5	38.45
848.3	1.4	QPSK	1/0	14.28	H	6.7	0.49	20.49	38.45
824.7	1.4	16-QAM	1/0	11.48	V	6.7	0.49	17.69	38.45
836.5	1.4	16-QAM	1/0	11.99	V	6.7	0.49	18.2	38.45
848.3	1.4	16-QAM	1/0	12.37	V	6.7	0.49	18.58	38.45
824.7	1.4	16-QAM	1/0	13.23	H	6.7	0.49	19.44	38.45
836.5	1.4	16-QAM	1/0	13.52	H	6.7	0.49	19.73	38.45
848.3	1.4	16-QAM	1/0	13.72	H	6.7	0.49	19.93	38.45
825.5	3	QPSK	1/0	13.43	V	6.7	0.49	19.64	38.45
836.5	3	QPSK	1/0	13.33	V	6.7	0.49	19.54	38.45
847.5	3	QPSK	1/0	12.37	V	6.7	0.49	18.58	38.45
825.5	3	QPSK	1/0	15.28	H	6.7	0.49	21.49	38.45
836.5	3	QPSK	1/0	15.07	H	6.7	0.49	21.28	38.45
847.5	3	QPSK	1/0	14.06	H	6.7	0.49	20.27	38.45
825.5	3	16-QAM	1/0	12.35	V	6.7	0.49	18.56	38.45
836.5	3	16-QAM	1/0	12.19	V	6.7	0.49	18.4	38.45
847.5	3	16-QAM	1/0	12.36	V	6.7	0.49	18.57	38.45
825.5	3	16-QAM	1/0	13.93	H	6.7	0.49	20.14	38.45
836.5	3	16-QAM	1/0	13.93	H	6.7	0.49	20.14	38.45
847.5	3	16-QAM	1/0	14.05	H	6.7	0.49	20.26	38.45
826.5	5	QPSK	1/0	13.41	V	6.7	0.49	19.62	38.45
836.5	5	QPSK	1/0	13.21	V	6.7	0.49	19.42	38.45
846.5	5	QPSK	1/0	13.41	V	6.7	0.49	19.62	38.45
826.5	5	QPSK	1/0	15.27	H	6.7	0.49	21.48	38.45
836.5	5	QPSK	1/0	15.16	H	6.7	0.49	21.37	38.45
846.5	5	QPSK	1/0	15.29	H	6.7	0.49	21.5	38.45
826.5	5	16-QAM	1/0	13.76	V	6.7	0.49	19.97	38.45
836.5	5	16-QAM	1/0	12.32	V	6.7	0.49	18.53	38.45
846.5	5	16-QAM	1/0	12.39	V	6.7	0.49	18.6	38.45
826.5	5	16-QAM	1/0	15.29	H	6.7	0.49	21.5	38.45
836.5	5	16-QAM	1/0	14.31	H	6.7	0.49	20.52	38.45

846.5	5	16-QAM	1/0	14.27	H	6.7	0.49	20.48	38.45
829	10	QPSK	1/0	10.14	V	6.7	0.49	16.35	38.45
836.5	10	QPSK	1/0	11.95	V	6.7	0.49	18.16	38.45
844	10	QPSK	1/0	11.78	V	6.7	0.49	17.99	38.45
829	10	QPSK	1/0	12.00	H	6.7	0.49	18.21	38.45
836.5	10	QPSK	1/0	13.94	H	6.7	0.49	20.15	38.45
844	10	QPSK	1/0	13.52	H	6.7	0.49	19.73	38.45
829	10	16-QAM	1/0	13.57	V	6.7	0.49	19.78	38.45
836.5	10	16-QAM	1/0	13.24	V	6.7	0.49	19.45	38.45
844	10	16-QAM	1/0	13.26	V	6.7	0.49	19.47	38.45
829	10	16-QAM	1/0	15.10	H	6.7	0.49	21.31	38.45
836.5	10	16-QAM	1/0	14.93	H	6.7	0.49	21.14	38.45
844	10	16-QAM	1/0	15.04	H	6.7	0.49	21.25	38.45

ERP for LTE Band 38

Frequency	Channel Bandwidth	Mode.	RB	Substituted level	Antenna Polarization	Antenna Gain correction	Cable Loss	Absolute Level	Limit (dBm)
2572.5	5	QPSK	1/0	11.16	V	8.22	1.10	18.28	33
2595	5	QPSK	1/0	11.68	V	8.22	1.10	18.8	33
2617.5	5	QPSK	1/24	11.54	V	8.22	1.10	18.66	33
2572.5	5	QPSK	1/0	12.70	H	8.22	1.10	19.82	33
2595	5	QPSK	1/0	13.26	H	8.22	1.10	20.38	33
2617.5	5	QPSK	1/24	13.17	H	8.22	1.10	20.29	33
2572.5	5	16-QAM	1/0	10.38	V	8.22	1.10	17.5	33
2595	5	16-QAM	1/0	10.90	V	8.22	1.10	18.02	33
2617.5	5	16-QAM	1/24	11.22	V	8.22	1.10	18.34	33
2572.5	5	16-QAM	1/0	12.04	H	8.22	1.10	19.16	33
2595	5	16-QAM	1/0	12.48	H	8.22	1.10	19.6	33
2617.5	5	16-QAM	1/24	12.80	H	8.22	1.10	19.92	33
2575	10	QPSK	1/0	11.27	V	8.22	1.10	18.39	33
2595	10	QPSK	1/49	11.22	V	8.22	1.10	18.34	33
2615	10	QPSK	1/0	10.19	V	8.22	1.10	17.31	33
2575	10	QPSK	1/0	12.90	H	8.22	1.10	20.02	33
2595	10	QPSK	1/49	12.66	H	8.22	1.10	19.78	33
2615	10	QPSK	1/0	11.77	H	8.22	1.10	18.89	33
2575	10	16-QAM	1/0	10.15	V	8.22	1.10	17.27	33
2595	10	16-QAM	1/49	9.98	V	8.22	1.10	17.1	33
2615	10	16-QAM	1/0	9.97	V	8.22	1.10	17.09	33
2575	10	16-QAM	1/0	11.84	H	8.22	1.10	18.96	33
2595	10	16-QAM	1/49	11.83	H	8.22	1.10	18.95	33
2615	10	16-QAM	1/0	11.71	H	8.22	1.10	18.83	33
2577.5	15	QPSK	1/0	9.31	V	8.22	1.10	16.427	33
2595	15	QPSK	1/74	11.31	V	8.22	1.10	18.43	33
2612.5	15	QPSK	1/0	10.98	V	8.22	1.10	18.1	33
2577.5	15	QPSK	1/0	10.83	H	8.22	1.10	17.95	33
2595	15	QPSK	1/74	12.65	H	8.22	1.10	19.77	33
2612.5	15	QPSK	1/0	12.73	H	8.22	1.10	19.85	33
2577.5	15	16-QAM	1/0	10.74	V	8.22	1.10	17.86	33
2595	15	16-QAM	1/74	10.53	V	8.22	1.10	17.65	33
2612.5	15	16-QAM	1/0	10.89	V	8.22	1.10	18.01	33
2577.5	15	16-QAM	1/0	11.99	H	8.22	1.10	19.11	33
2595	15	16-QAM	1/74	11.87	H	8.22	1.10	18.99	33
2612.5	15	16-QAM	1/0	12.37	H	8.22	1.10	19.49	33

2580	20	QPSK	1/99	12.36	V	8.22	1.10	19.48	33
2595	20	QPSK	1/99	12.41	V	8.22	1.10	19.53	33
2610	20	QPSK	1/0	11.22	V	8.22	1.10	18.34	33
2580	20	QPSK	1/99	11.23	H	8.22	1.10	18.35	33
2595	20	QPSK	1/99	11.00	H	8.22	1.10	18.12	33
2610	20	QPSK	1/0	11.03	H	8.22	1.10	18.15	33
2580	20	16-QAM	1/99	11.55	V	8.22	1.10	18.67	33
2595	20	16-QAM	1/99	11.73	V	8.22	1.10	18.85	33
2610	20	16-QAM	1/0	11.20	V	8.22	1.10	18.32	33
2580	20	16-QAM	1/99	13.08	H	8.22	1.10	20.2	33
2595	20	16-QAM	1/99	13.30	H	8.22	1.10	20.42	33
2610	20	16-QAM	1/0	12.94	H	8.22	1.10	20.06	33