Certificate #4312.01

FCC TEST REPORT

Product Name:	Smart Payment Terminal
Trade Mark:	PAX
Model No.:	A6630
Report Number:	24071812763RFM-2
Test Standards:	FCC 47 CFR Part 22 FCC 47 CFR Part 24 FCC 47 CFR Part 27
FCC ID:	V5PA6630
Test Result:	PASS
Date of Issue:	December 19, 2024

Prepared for:

PAX Technology Limited
Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road, Wanchai, Hong Kong

Prepared by:

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Prepared by: David Chen — David Chen, Senior Project Engineer

Reviewed by: Henry Lu — Henry Lu, Team Leader

Approved by: Robben Chen, Assistant Manager — Date: December 19, 2024

Version

Version No.	Date	Description
V1.0	December 19, 2024	Original

CONTENTS

1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	PAX Technology Limited
Address of Applicant:	Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road, Wanchai, Hong Kong
Manufacturer:	PAX Computer Technology (Shenzhen) Co., Ltd.
Address of Manufacturer:	Room 701, PAX Technology Building, Shanxia Community, Pinghu Sub-district, Longgang District, Shenzhen, China

1.2 EUT INFORMATION

1.2.1 General Description of EUT

Product Name:	Smart Payment Terminal		
Model No.:	A6630		
Trade Mark:	PAX		
DUT Stage:	Identical Prototype		
EUT Supports Function: (Provided by the customer)	UTRA Bands:	WCDMA Band II/ Band IV/ Band V	
	E-UTRA Bands:	FDD Band 2/ Band 4/ Band 5/ Band 12/ Band 13/ Band 17	
	2.4 GHz ISM Band:	IEEE 802.11b/g/n	
		Bluetooth 5.0	
	5 GHz U-NII Bands:	5 150 MHz to 5 250 MHz	IEEE 802.11a/n/ac
		5 250 MHz to 5 350 MHz	IEEE 802.11a/n/ac
		5 470 MHz to 5 725 MHz	IEEE 802.11a/n/ac
		5 725 MHz to 5 850 MHz	IEEE 802.11a/n/ac
	RNSS Band:	1559 MHz to 1610 MHz	
	NFC:	13.553 MHz to 13.567 MHz	
Sample Received Date:	July 11, 2024		
Sample Tested Date:	August 15, 2024 to October 21, 2024		
Remark: The above EUT's information was provided by customer. Please refer to the specifications or user's manual for more detailed description.			

1.2.2 Description of Accessories

Adapter	
Model No.:	GLH-PD18W-U
Input:	100-240 V~50/60 Hz 0.5 A
Output:	5.0 V ⎓ 3.0A/ 9.0 V ⎓ 2.0A / 12.0 V ⎓ 1.5A

Cable	
Connector:	USB Cable
Cable Type:	Unshielded without ferrite
Length:	1.0 Meter

Battery	
Model No.:	M0152A
Battery Type:	Rechargeable Li-ion Battery
Rated Voltage:	3.85 Vdc
Rated Capacity:	6000 mAh

1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Support Networks:	Single Carrier: LTE Band 2/4/5/12/13/17	
Type of Modulation:	QPSK, 16QAM	
Antenna Type: (Provided by the customer)	PIFA Antenna	
Antenna Gain: (Provided by the customer)	LTE Band 2:	-1.64 dBi
	LTE Band 4:	-1.98 dBi
	LTE Band 5:	-3.09 dBi
	LTE Band 12:	-8.88 dBi
	LTE Band 13:	-3.01 dBi
	LTE Band 17:	-8.88 dBi
Sample No.:	Radiated: S202407113893-ZJA03/5	
	Conducted: S202407113893-ZJA04/5	
Normal Test Voltage:	3.85 Vdc	
Extreme Test Voltage:	3.4 to 4.45Vdc	
Extreme Test Temperature:	-30 °C to +50 °C	

Summary of Results:								
Bands	BW (MHz)	Modulation	Frequency Range (MHz)	Max RF Output Power (dBm)		ERP/EIRP (W)	99% BW (MHz)	Emission Designator
				Conducted (Average)	ERP/EIRP (Average)			
2	1.4	QPSK	1850.7-1909.3	21.82	20.18	0.1042	1.0973	1M10G7D
		16QAM		21.14	19.50	0.0891	1.0963	1M10W7D
	3	QPSK	1851.5-1908.5	21.72	20.08	0.1019	2.6891	2M69G7D
		16QAM		20.77	19.13	0.0818	2.6816	2M68W7D
	5	QPSK	1852.5-1907.5	21.81	20.17	0.1040	4.4982	4M50G7D
		16QAM		20.81	19.17	0.0826	4.4890	4M49W7D
	10	QPSK	1855.0-1905.0	22.36	20.72	0.1180	8.9778	8M98G7D
		16QAM		20.96	19.32	0.0855	8.9820	8M98W7D
	15	QPSK	1857.5-1902.5	21.82	20.18	0.1042	13.462	13M5G7D
		16QAM		20.81	19.17	0.0826	13.469	13M5W7D
	20	QPSK	1860.0-1900.0	22.36	20.72	0.1180	17.981	18M0G7D
		16QAM		20.92	19.28	0.0847	18.012	18M0W7D
4	1.4	QPSK	1710.7-1754.3	21.90	19.92	0.0982	1.0955	1M10G7D
		16QAM		20.69	18.71	0.0743	1.0955	1M10W7D
	3	QPSK	1711.5-1753.5	21.88	19.90	0.0977	2.6889	2M69G7D
		16QAM		20.68	18.70	0.0741	2.6884	2M69W7D
	5	QPSK	1712.5-1752.5	21.86	19.88	0.0973	4.4953	4M50G7D
		16QAM		20.88	18.90	0.0776	4.5020	4M50W7D
	10	QPSK	1715-1750	21.93	19.95	0.0989	8.9914	8M99G7D
		16QAM		20.75	18.77	0.0753	8.9773	8M98W7D
	15	QPSK	1717.5-1747.5	21.80	19.82	0.0959	13.476	13M5G7D
		16QAM		20.81	18.83	0.0764	13.491	13M5W7D
	20	QPSK	1720-1745	21.95	19.97	0.0993	17.988	18M0G7D
		16QAM		20.97	18.99	0.0793	18.000	18M0W7D

Bands	BW	Modulation	Frequency Range	Max RF Output Power (dBm)		ERP/EIRP	99% BW	Emission Designator
	(MHz)		(MHz)	Conducted (Average)	ERP/EIRP (Average)	(W)	(MHz)	
5	1.4	QPSK	824.7-848.3	22.42	19.33	0.0857	1.0973	1M10G7D
		16QAM		21.39	18.30	0.0676	1.0931	1M09W7D
	3	QPSK	825.5-847.5	22.37	19.28	0.0847	2.6922	2M69G7D
		16QAM		21.46	18.37	0.0687	2.6875	2M69W7D
	5	QPSK	826.5-846.5	22.49	19.40	0.0871	4.4989	4M50G7D
		16QAM		21.42	18.33	0.0681	4.5075	4M51W7D
	10	QPSK	829-844	22.74	19.65	0.0923	8.9850	8M99G7D
		16QAM		21.60	18.51	0.0710	8.9819	8M98W7D
12	1.4	QPSK	699.7-715.3	22.35	9.17	0.0083	1.1002	1M10G7D
		16QAM		21.37	8.19	0.0066	1.0986	1M10W7D
	3	QPSK	700.5-714.5	21.99	8.81	0.0076	2.6943	2M69G7D
		16QAM		20.89	7.71	0.0059	2.6882	2M69W7D
	5	QPSK	701.5-713.5	22.01	8.83	0.0076	4.5321	4M53G7D
		16QAM		21.03	7.85	0.0061	4.5483	4M55W7D
	10	QPSK	704-711	22.56	9.38	0.0087	9.0769	9M08G7D
		16QAM		21.09	7.91	0.0062	9.0453	9M05W7D
13	5	QPSK	779.5-784.5	22.39	17.23	0.0528	4.5210	4M52G7D
		16QAM		21.46	16.30	0.0427	4.5390	4M54W7D
	10	QPSK	782-782	22.40	17.24	0.0530	8.9791	8M98G7D
		16QAM		21.44	16.28	0.0425	8.9751	8M98W7D
17	5	QPSK	706.5-713.5	22.02	8.84	0.0077	4.5320	4M53G7D
		16QAM		21.03	7.85	0.0061	4.5484	4M55W7D
	10	QPSK	709-711	22.13	8.95	0.0079	9.0466	9M05G7D
		16QAM		21.06	7.88	0.0061	9.0383	9M04W7D

1.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below.

1) Support Equipment

Description	Manufacturer	Model No.	Serial Number	Supplied by
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2) Support Cable

Cable No.	Description	Connector	Length	Supplied by
1	Antenna Cable	SMA	0.1 Meter	Applicant

1.5 TEST LOCATION

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F, Block A, Building 6th, Baoneng Science and Technology Park, Longhua Street, Longhua District, Shenzhen, China
Telephone: +86 (0) 755 2823 0888
Fax: +86 (0) 755 2823 0886

1.6 TEST FACILITY

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

CNAS-Lab Code: L9069
The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

A2LA-Lab Certificate No.: 4312.01
Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

ISED Wireless Device Testing Laboratories
CAB identifier: CN0032

FCC Accredited Lab.
Designation Number: CN1194
Test Firm Registration Number: 259480

1.7 DEVIATION FROM STANDARDS

None.

1.8 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.9 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

1.10 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Measurement Uncertainty
1	Conducted Output Power	±0.7 dB
2	99%&26dB Bandwidth	±1.86 %
3	Emission Mask	±2.7 dBm
4	Spurious emissions at antenna terminals	±2.7 dBm
5	Field strength of spurious radiation	30 MHz-1 GHz: ±4.9 dB 1 GHz-18 GHz: ±4.8 dB 18 GHz-40 GHz: ±5.1 dB
6	Frequency stability	±6.5 x 10^{-8}
7	Humidity	±3.9 %
8	Temperature	±0.62 ℃
9	DC Voltages	±0.68 %

2. TEST SUMMARY

FCC 47 CFR Part 24 Test Cases (Band 2)			
Test Item	**Test Requirement**	**Test Method**	**Result**
Equivalent Isotropic Radiated Power (EIRP)	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 24.232(c)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Conducted Output Power	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 24.232(c)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Peak-to-average ratio	FCC 47 CFR Part 24.232(d)	KDB 971168 D01v03r01	PASS
99%&26dB Bandwidth	FCC 47 CFR Part 2.1049(h) & FCC 47 CFR Part 24.238(b)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Band Edge at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 24.238(a)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 24.238(a)(b)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Field strength of spurious radiation	FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 24.238(a)(b)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Frequency stability	FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 24.235	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS

FCC 47 CFR Part 27 Test Cases (LTE Band 4)			
Test Item	**Test Requirement**	**Test Method**	**Result**
Equivalent Isotropic Radiated Power (EIRP)	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(d)(4)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Conducted Output Power	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(d)(4)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Peak-to-average ratio	FCC 47 CFR Part 27.50(d)(5)	KDB 971168 D01v03r01	PASS
99%&26dB Bandwidth	FCC 47 CFR Part 2.1049(h) FCC 47 CFR Part 27.53(h)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Band Edge at antenna terminals	FCC 47 CFR Part 27.53(h)(1)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 27.53(h)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Field strength of spurious radiation	FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 27.53(h)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Frequency stability	FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 27.54	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS

FCC 47 CFR Part 22 Test Cases (Band 5)			
Test Item	**Test Requirement**	**Test Method**	**Result**
Effective Radiated Power (ERP)	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 22.913(a)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Conducted Output Power	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 22.913(a)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Peak-to-average ratio	FCC 47 CFR Part 22.913(a)	KDB 971168 D01v03r01	PASS
99%&26dB Bandwidth	FCC 47 CFR Part 2.1049(h)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Band Edge at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 22.917(a)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 22.917(a)(b)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Field strength of spurious radiation	FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 22.917(a)(b)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Frequency stability	FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 22.355	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS

FCC 47 CFR Part 27 Test Cases (LTE Band 12& 17)			
Test Item	**Test Requirement**	**Test Method**	**Result**
Effective Radiated Power (ERP)	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(c)(10)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Conducted Output Power	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(c)(10)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Peak-to-average ratio	FCC 47 CFR Part 27.50(d)(5)	KDB 971168 D01v03r01	PASS
99%&26dB Bandwidth	FCC 47 CFR Part 2.1049(h) FCC 47 CFR Part 27.53(g)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Band Edge at antenna terminals	FCC 47 CFR Part 27.53(g)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 27.53(g)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Field strength of spurious radiation	FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 27.53(g)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Frequency stability	FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 27.54	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS

FCC 47 CFR Part 27 Test Cases (LTE Band 13)			
Test Item	**Test Requirement**	**Test Method**	**Result**
Effective Radiated Power (ERP)	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(b)(10)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Conducted Output Power	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(b)(10)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Peak-to-average ratio	FCC 47 CFR Part 27.50(d)(5)	KDB 971168 D01v03r01	PASS
99%&26dB Bandwidth	FCC 47 CFR Part 2.1049(h)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Band Edge at antenna terminals	FCC 47 CFR Part 27.53	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 27.53	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Field strength of spurious radiation	FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 27.53	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Frequency stability	FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 27.54	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS

Disclaimer and Explanations:
The declared of product specification and data (e.g. antenna gain, RF specification, etc) for EUT presented in the report are provided by the customer, and the customer takes all the responsibilities for the accuracy of product specification.

3. EQUIPMENT LIST

Radiated Emission Test Equipment List						
Used	**Equipment**	**Manufacturer**	**Model No.**	**Serial Number**	**Cal. date**	**Cal. Due date**
☒	3m SAC	ETS-LINDGREN	3M	Euroshiedpn-CT001270-1317	11-Nov-2023	10-Nov-2026
☒	Receiver	R&S	ESIB26	100114	27-Oct-2023	26-Oct-2024
☒	Broadband Antenna	ETS-LINDGREN	3142E	00201566	30-Oct-2023	29-Oct-2024
☒	6dB Attenuator	Talent	RA6A5-N-18	18103001	30-Oct-2023	29-Oct-2024
☒	Preamplifier	HP	8447F	2805A02960	31-Oct-2023	30-Oct-2024
☒	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3117-PA	00201541	16-Apr-2023	15-Apr-2025
☒	Pre-amplifier	ETS-LINDGREN	00118385	00201874	31-Oct-2023	30-Oct-2024
☒	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3116C-PA	00202652	31-Oct-2023	30-Oct-2024
☒	Pre-amplifier	ETS-LINDGREN	00118384	00202652	30-Oct-2023	29-Oct-2024
☒	Multi device Controller	ETS-LINDGREN	7006-001	00160105	N/A	N/A
☒	Test Software	Audix	e3	Software Version: 9.160323		

RF Conducted Test Equipment List						
Used	**Equipment**	**Manufacturer**	**Model No.**	**Serial Number**	**Cal. date**	**Cal. Due date**
☒	EXA Signal Analyzer	KEYSIGHT	N9010B	MY62060155	29-Mar-2024	28-Mar-2025
☒	DC Source	KIKUSUI	PWR400L	LK003024	N/A	N/A
☒	Digital multimeter	FLUKE	15B+	30701460WS15	31-Oct-2023	30-Oct-2024
☒	Temp & Humidity chamber	Votisch	VT4002	58566133290020	29-Mar-2024	28-Mar-2025
☒	Wideband Radio Communication Tester	R&S	CMW500	119583	29-Mar-2024	28-Mar-2025
☒	Wideband Radio Communication Tester	R&S	CMW500	120932	29-Mar-2024	28-Mar-2025

4. TEST CONFIGURATION

4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

Test Environment	Selected Values During Tests		
Test Condition	Ambient		
	Temperature (°C)	Voltage (V)	Relative Humidity (%)
TN/VN	+15 to +35	3.85	20 to 75
TL/VL	-30	3.4	20 to 75
TH/VL	+50	3.4	20 to 75
TL/VH	-30	4.45	20 to 75
TH/VH	+50	4.45	20 to 75

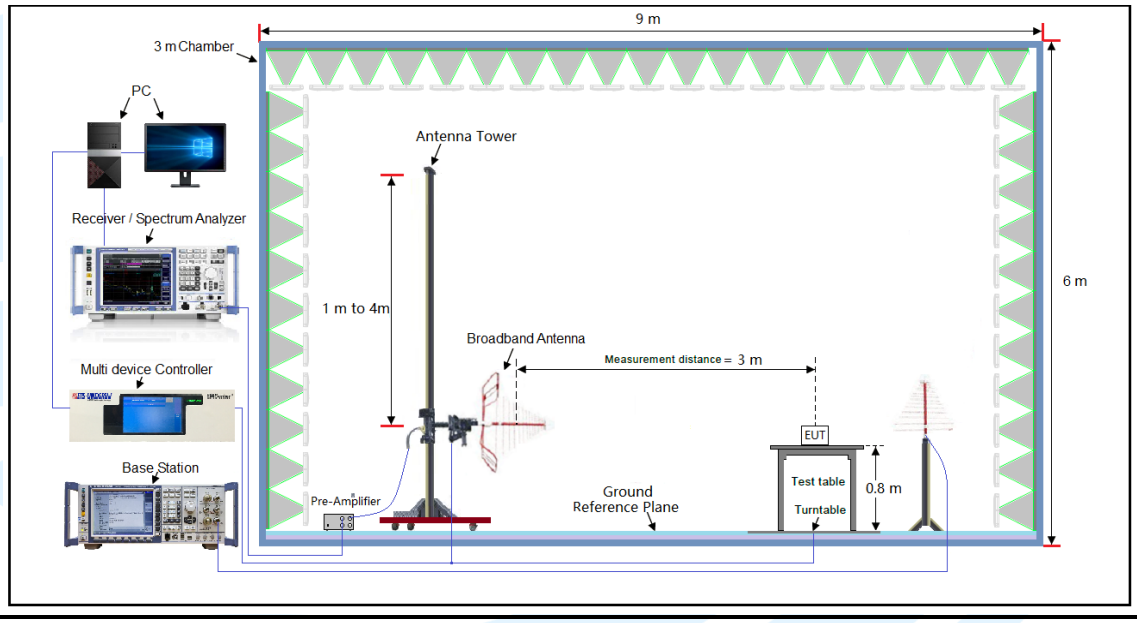
Remark:

1) The EUT just work in such extreme temperature of -30 °C to +50 °C and the extreme voltage of 3.4 V to 4.45 V, so here the EUT is tested in the temperature of -30 °C to +50 °C and the voltage of 3.4 V to 4.45 V.
2) VN: Normal Voltage; TN: Normal Temperature;
   TL: Low Extreme Test Temperature; TH: High Extreme Test Temperature;
   VL: Low Extreme Test Voltage; VH: High Extreme Test Voltage.

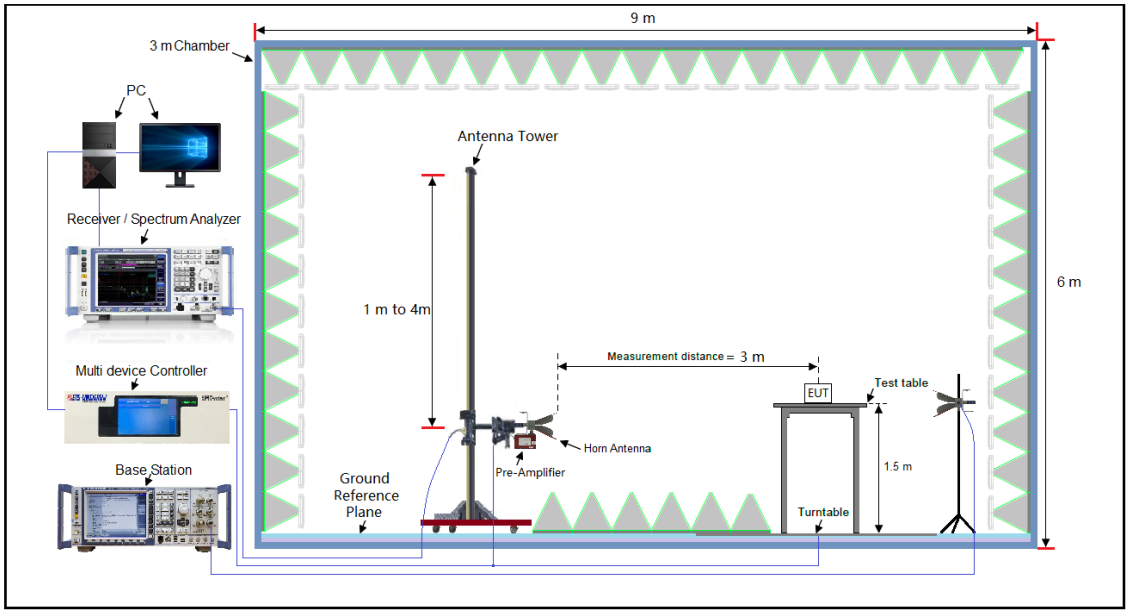
4.2 TEST SETUP

4.2.1 For Radiated Emissions test setup

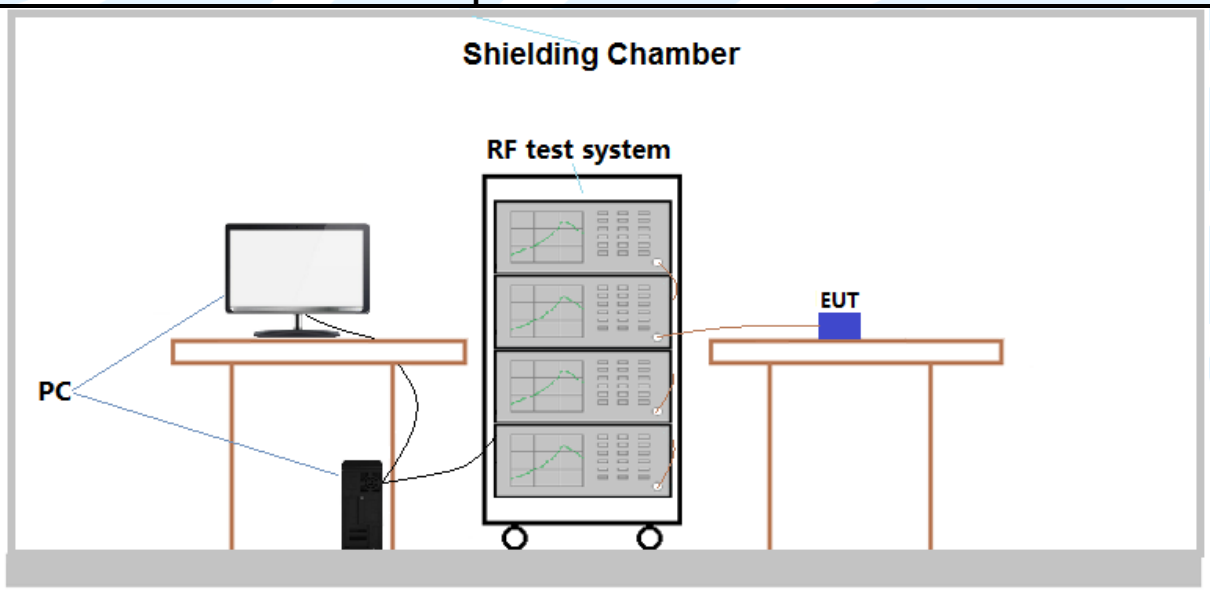
Radiated Emissions 30MHz to 1GHz Test setup



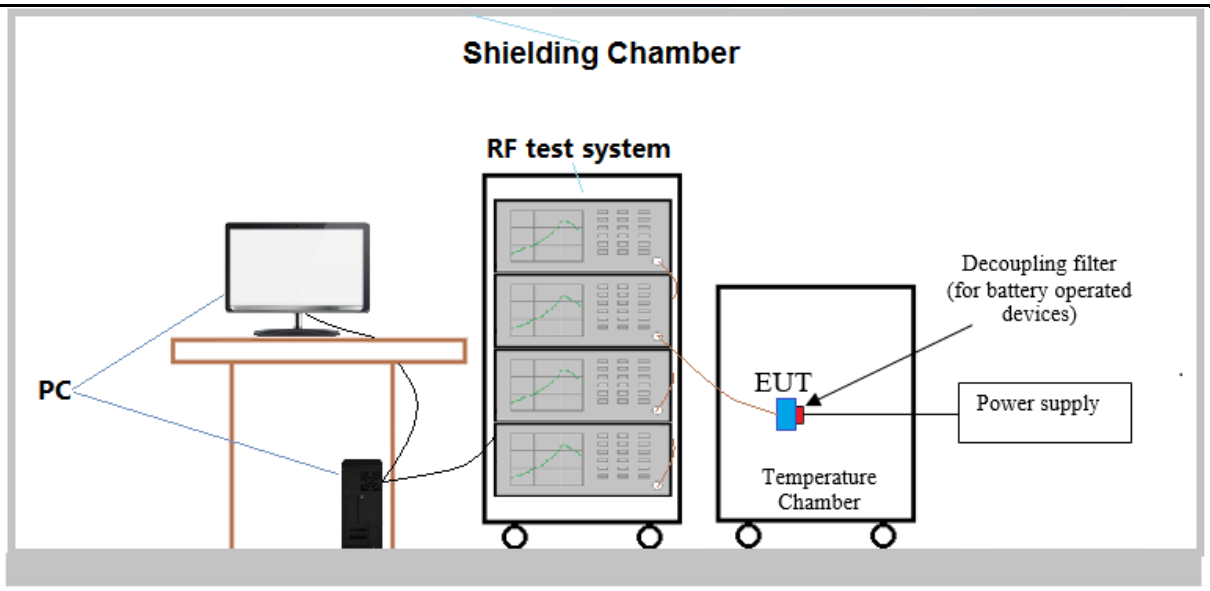
Radiated Emissions Above 1GHz Test setup



4.2.2 For Conducted RF test setup



Normal Environment



Extreme Environment

4.3 TEST CHANNELS

Band	Test Frequency ID	Bandwidth (MHz)	Number [UL]	Frequency of Uplink (MHz)
LTE Band 2 TX: 1850-1910MHz	Low Range	1.4	18607	1850.7
		3	18615	1851.5
		5	18625	1852.5
		10	18650	1855
		15	18675	1857.5
		20	18700	1860
	Middle Range	1.4/3/5/10/15/20	18900	1880
	High Range	1.4	19193	1909.3
		3	19185	1908.5
		5	19175	1907.5
		10	19150	1905
		15	19125	1902.5
		20	19100	1900
LTE Band 4 TX: 1710-1755MHz	Low Range	1.4	19957	1710.7
		3	19965	1711.5
		5	19975	1712.5
		10	20000	1715
		15	20025	1717.5
		20	20050	1720
	Middle Range	1.4/3/5/10/ 15/20	20175	1732.5
	High Range	1.4	20393	1754.3
		3	20385	1753.5
		5	20375	1752.5
		10	20350	1750
		15	20325	1747.5
		20	20300	1745
LTE band 5 TX: 824–849MHz	Low Range	1.4	20407	824.7
		3	20415	825.5
		5	20425	826.5
		10	20450	829
	Middle Range	1.4/3/5/10	20525	836.5
	High Range	1.4	20643	848.3
		3	20635	847.5
		5	20625	846.5
		10	20600	844
LTE Band 12 TX: 699-716MHz	Low Range	1.4	23017	699.7
		3	23025	700.5
		5	23035	701.5
		10	23060	704
	Middle Range	1.4/3/5/10	23095	707.5
	High Range	1.4	23173	715.3
		3	23165	714.5
		5	23155	713.5

		10	23130	711
LTE Band 13 TX: 777-787MHz	Low Range	5	23205	779.5
		10	23230	782
	Middle Range	5/10	23230	782
	High Range	5	23255	784.5
		10	23230	782
LTE Band 17 TX:704-716MHz	Low Range	5	23755	706.5
		10	23780	709
	Middle Range	5/10	23790	710
	High Range	5	23825	713.5
		10	23800	711

4.4 SYSTEM TEST CONFIGURATION

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, radiated emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario. It was powered by a 3.85Vdc battery. Only the worst case data were recorded in this test report.

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X/Y/Z axis, and antenna ports.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000MHz. The resolution is 1 MHz or greater for frequencies above 1000MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

4.5 PRE-SCAN

Pre-scan all bandwidth and RB, find worse case mode are chosen to the report, the LTE worse case mode applicability and tested channel detail as below:

Item	Band	Bandwidth(MHz)						Modulation			RB			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Conducted output power	2	☒	☒	☒	☒	☒	☒	☒	☒	☐	☒	☒	☒	☒	☒	☒
	4	☒	☒	☒	☒	☒	☒	☒	☒	☐	☒	☒	☒	☒	☒	☒
	5	☒	☒	☒	☒	--	--	☒	☒	☐	☒	☒	☒	☒	☒	☒
	12	☒	☒	☒	☒	-	-	☒	☒	☐	☒	☒	☒	☒	☒	☒
	13	-	-	☒	☒	-	-	☒	☒	☐	☒	☒	☒	☒	☒	☒
	17	-	-	☒	☒	-	-	☒	☒	☐	☒	☒	☒	☒	☒	☒
99%&26dB Bandwidth	2	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☒	☒	☒	☒
	4	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☒	☒	☒	☒
	5	☒	☒	☒	☒	--	--	☒	☒	☐	☐	☐	☒	☒	☒	☒
	12	☒	☒	☒	☒	-	-	☒	☒	☐	☐	☐	☒	☒	☒	☒
	13	-	-	☒	☒	-	-	☒	☒	☐	☐	☐	☒	☒	☒	☒
	17	-	-	☒	☒	-	-	☒	☒	☐	☐	☐	☒	☒	☒	☒
peak-to-average ratio	2	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☒	☐	☒	☐
	4	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☐	☒	☐	☒	☐
	5	☒	☒	☒	☒	--	--	☒	☒	☐	☐	☐	☒	☐	☒	☐
	12	☒	☒	☒	☒	-	-	☒	☒	☐	☐	☐	☒	☐	☒	☐
	13	-	-	☐	☒	-	-	☒	☒	☐	☐	☐	☒	☐	☒	☐
	17	-	-	☒	☒	-	-	☒	☒	☐	☐	☐	☒	☐	☒	☐
Band Edge at antenna terminals	2	☒	☒	☒	☒	☒	☒	☒	☒	☐	☒	☐	☒	☒	☐	☒
	4	☒	☒	☒	☒	☒	☒	☒	☒	☐	☒	☐	☒	☒	☐	☒
	5	☒	☒	☒	☒	--	--	☒	☒	☐	☒	☐	☒	☒	☐	☒
	12	☒	☒	☒	☒	-	-	☒	☒	☐	☒	☐	☒	☒	☐	☒
	13	-	-	☒	☒	-	-	☒	☒	☐	☒	☐	☐	☒	☒	☒
	17	-	-	☒	☒	-	-	☒	☒	☐	☒	☐	☒	☒	☐	☒

Item	Band	Bandwidth(MHz)						Modulation			RB			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Spurious emissions at antenna terminals	2	☒	☒	☒	☒	☒	☒	☒	☒	☐	☒	☐	☐	☒	☒	☒
	4	☒	☒	☒	☒	☒	☒	☒	☒	☐	☒	☐	☐	☒	☒	☒
	5	☒	☒	☒	☒	--	--	☒	☒	☐	☒	☐	☐	☒	☒	☒
	12	☒	☒	☒	☒	-	-	☒	☒	☐	☒	☐	☐	☒	☒	☒
	13	-	-	☒	☒	-	-	☒	☒	☐	☒	☐	☐	☒	☒	☒
	17	-	-	☒	☒	-	-	☒	☒	☐	☒	☐	☐	☒	☒	☒
Field strength of spurious radiation	2	☐	☐	☐	☐	☐	☒	☒	☐	☐	☒	☐	☐	☒	☒	☒
	4	☐	☐	☐	☐	☐	☒	☒	☐	☐	☒	☐	☐	☒	☒	☒
	5	☐	☐	☐	☒	--	--	☒	☐	☐	☒	☐	☐	☒	☒	☒
	12	☐	☐	☐	☒	-	-	☒	☐	☐	☒	☐	☐	☒	☒	☒
	13	-	-	☐	☒	-	-	☒	☐	☐	☒	☐	☐	☒	☒	☒
	17	-	-	☐	☒	-	-	☒	☐	☐	☒	☐	☐	☒	☒	☒
Frequency stability	2	☐	☐	☐	☐	☐	☒	☒	☐	☐	☐	☐	☒	☐	☒	☐
	4	☐	☐	☐	☐	☐	☒	☒	☐	☐	☐	☐	☒	☐	☒	☐
	5	☐	☐	☐	☒	--	--	☒	☐	☐	☐	☐	☒	☐	☒	☐
	12	☐	☐	☐	☒	-	-	☒	☐	☐	☐	☐	☒	☐	☒	☐
	13	-	-	☐	☒	-	-	☒	☐	☐	☐	☐	☒	☐	☒	☐
	17	-	-	☐	☒	-	-	☒	☐	☐	☐	☐	☒	☐	☒	☐

Remark:
The mark "☒" means is chosen for testing; The mark "☐" means is not chosen for testing;
The mark "-" means is not supported bandwidth

5. RADIO TECHNICAL REQUIREMENTS SPECIFICATION

5.1 REFERENCE DOCUMENTS FOR TESTING

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 22	Public Mobile Services
3	FCC 47 CFR Part 27	Miscellaneous Wireless Communications Services
4	FCC 47 CFR Part 24	Personal Communications Services
5	ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
6	KDB 971168 D01	KDB 971168 D01 Power Meas License Digital Systems v03r01

5.2 CONDUCTED OUTPUT POWER

Test Requirement: FCC 47 CFR Part 2.1046(a)
LTE Band 2: FCC 47 CFR Part 24.232(c)
LTE Band 4: FCC 47 CFR Part 27.50(d)(4)
LTE Band 5: FCC 47 CFR Part 22.913(a)
LTE Band 12 & Band 17: FCC 47 CFR Part 27.50(c)(10)
LTE Band 13: FCC 47 CFR Part 27.50(b)(10)

Test Method: KDB 971168 D01v03r01 & ANSI C63.26-2015

Limit:

FCC 47 CFR Part 22.913(a):
The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

FCC 47 CFR Part 24.232(c):
Mobile and portable stations are limited to 2 watts EIRP.

FCC 47 CFR Part 27.50(d)(4):
Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

FCC 47 CFR Part 27.50(c)(10):
Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

FCC 47 CFR Part 27.50(b)(10):
Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

Test Procedure:
The EUT was set up for the maximum power with CMW500, and LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details.
Instruments Used: Refer to section 3 for details
Test Mode: Link mode
Test Results: Pass

5.2.1 LTE Band 2

Conducted Power(dBm)								
Modulation			QPSK			16QAM		
Band	Bandwidth (MHz)	RB	18607	18900	19193	18607	18900	19193
			1850.7	1880	1909.3	1850.7	1880	1909.3
2	1.4	1RB#0	21.73	21.73	21.53	20.90	20.95	20.24
		1RB#2	21.82	21.78	21.66	20.97	21.14	20.46
		1RB#5	21.79	21.66	21.48	20.93	20.98	20.28
		3RB#0	20.84	20.66	20.56	21.05	20.75	20.33
		3RB#1	20.78	20.65	20.55	21.04	20.51	20.31
		3RB#3	20.80	20.72	20.51	21.00	20.58	20.32
		6RB#0	20.80	20.67	20.54	20.18	19.91	19.35
Band	Bandwidth (MHz)	RB	18615	18900	19185	18615	18900	19185
			1851.5	1880	1908.5	1851.5	1880	1908.5
2	3	1RB#0	21.70	21.65	21.52	20.74	20.53	20.26
		1RB#8	21.70	21.67	21.48	20.67	20.46	20.30
		1RB#14	21.72	21.64	21.47	20.77	20.46	20.26
		8RB#0	21.21	20.58	20.55	20.26	19.58	19.53
		8RB#4	21.22	20.63	20.54	20.25	19.57	19.53
		8RB#7	21.25	20.58	20.51	20.16	19.56	19.46
		15RB#0	21.10	20.59	20.46	20.01	19.49	19.32
Band	Bandwidth (MHz)	RB	18625	18900	19175	18625	18900	19175
			1852.5	1880	1907.5	1852.5	1880	1907.5
2	5	1RB#0	21.72	21.57	21.51	20.63	20.66	20.44
		1RB#12	21.81	21.66	21.64	20.81	20.66	20.48
		1RB#24	21.77	21.61	21.53	20.69	20.62	20.37
		12RB#0	20.67	20.64	20.43	19.64	19.61	19.43
		12RB#6	20.71	20.60	20.41	19.64	20.09	19.40
		12RB#13	20.71	20.60	20.38	19.66	19.62	19.34
		25RB#0	20.74	20.67	20.44	19.73	19.61	19.47
Band	Bandwidth (MHz)	RB	18650	18900	19150	18650	18900	19150
			1855	1880	1905	1855	1880	1905
2	10	1RB#0	22.13	22.05	21.80	20.74	20.54	20.54
		1RB#24	22.36	22.16	21.56	20.96	20.65	20.65
		1RB#49	22.13	21.87	21.48	20.81	20.62	20.47
		25RB#0	22.24	21.86	21.55	19.77	19.68	19.53
		25RB#12	22.26	21.86	21.53	19.78	19.68	19.50
		25RB#25	22.30	21.62	21.55	19.75	19.73	19.48
		50RB#0	21.24	20.97	20.51	19.78	19.71	19.46
Band	Bandwidth (MHz)	RB	18675	18900	19125	18675	18900	19125
			1857.5	1880	1902.5	1857.5	1880	1902.5
2	15	1RB#0	21.68	21.56	21.52	20.69	20.67	20.26
		1RB#38	21.82	21.63	21.59	20.80	20.74	20.34
		1RB#74	21.66	21.58	21.38	20.63	20.68	20.16
		38RB#0	20.82	20.66	20.60	20.80	20.66	20.66
		38RB#18	20.74	20.67	20.63	20.81	20.70	20.63
		38RB#37	20.80	20.67	20.60	20.78	20.67	20.63
		75RB#0	20.80	20.71	20.63	19.71	19.68	19.59
Band	Bandwidth (MHz)	RB	18700	18900	19100	18700	18900	19100
			1860	1880	1900	1860	1880	1900
2	20	1RB#0	22.13	22.05	21.80	20.44	20.58	20.17
		1RB#49	22.36	22.16	21.56	20.82	20.92	20.49
		1RB#99	22.13	21.87	21.48	20.38	20.55	20.10
		50RB#0	22.24	21.86	21.55	19.84	19.67	19.79
		50RB#25	22.26	21.86	21.53	19.81	19.67	19.81
		50RB#50	22.30	21.62	21.55	19.74	19.62	19.74
		100RB#0	21.24	20.97	20.51	19.71	19.63	19.68

5.2.2 LTE Band 4

Conducted Power(dBm)								
Modulation			QPSK			16QAM		
Band	Bandwidth	RB	19957	20175	20393	19957	20175	20393
	(MHz)		1710.7	1732.5	1754.3	1710.7	1732.5	1754.3
4	1.4	1RB#0	21.55	21.69	21.76	20.46	20.46	20.48
		1RB#2	21.72	21.80	21.90	20.60	20.60	20.69
		1RB#5	21.57	21.70	21.78	20.47	20.49	20.48
		3RB#0	21.66	21.69	21.85	20.43	20.52	20.59
		3RB#1	21.66	21.67	21.85	20.43	20.55	20.59
		3RB#3	21.69	21.68	21.89	20.41	20.52	20.60
		6RB#0	20.57	20.68	20.76	19.62	19.56	19.74
Band	Bandwidth	RB	19965	20175	20385	19965	20175	20385
	(MHz)		1711.5	1732.5	1753.5	1711.5	1732.5	1753.5
4	3	1RB#0	21.64	21.75	21.82	20.62	20.62	20.55
		1RB#8	21.72	21.76	21.88	20.68	20.59	20.62
		1RB#14	21.69	21.73	21.84	20.65	20.62	20.59
		8RB#0	20.67	20.70	20.86	19.71	19.74	19.83
		8RB#4	20.60	20.70	20.76	19.72	19.75	19.82
		8RB#7	20.66	20.65	20.79	19.70	19.75	19.83
		15RB#0	20.64	20.70	20.77	19.71	19.64	19.72
Band	Bandwidth	RB	19975	20175	20375	19975	20175	20375
	(MHz)		1712.5	1732.5	1752.5	1712.5	1732.5	1752.5
4	5	1RB#0	21.55	21.63	21.76	20.56	20.74	20.63
		1RB#12	21.76	21.76	21.86	20.68	20.88	20.79
		1RB#24	21.68	21.69	21.75	20.60	20.76	20.68
		12RB#0	20.60	20.70	20.74	19.60	19.81	19.74
		12RB#6	20.62	20.70	20.72	19.63	19.80	19.77
		12RB#13	20.63	20.73	20.67	19.70	19.79	19.71
		25RB#0	20.61	20.72	20.75	19.70	19.72	19.80
Band	Bandwidth	RB	20000	20175	20350	20000	20175	20350
	(MHz)		1715	1732.5	1750	1715	1732.5	1750
4	10	1RB#0	21.65	21.75	21.77	20.64	20.58	20.53
		1RB#24	21.79	21.93	21.89	20.75	20.69	20.66
		1RB#49	21.64	21.76	21.83	20.69	20.67	20.57
		25RB#0	20.59	20.72	20.78	19.67	19.84	19.88
		25RB#12	20.57	20.75	20.79	19.68	19.81	19.85
		25RB#25	20.74	20.72	20.76	19.80	19.79	19.81
		50RB#0	20.65	20.73	20.75	19.75	19.77	19.79
Band	Bandwidth	RB	20025	20175	20325	20025	20175	20325
	(MHz)		1717.5	1732.5	1747.5	1717.5	1732.5	1747.5
4	15	1RB#0	21.55	21.58	21.70	20.54	20.69	20.45
		1RB#38	21.69	21.65	21.80	20.66	20.81	20.55
		1RB#74	21.62	21.57	21.76	20.58	20.73	20.48
		38RB#0	20.65	20.74	20.74	20.66	20.73	20.71
		38RB#18	20.69	20.69	20.76	20.70	20.71	20.77
		38RB#37	20.70	20.71	20.74	20.73	20.70	20.72
		75RB#0	20.65	20.71	20.73	19.66	19.75	19.82
Band	Bandwidth	RB	20050	20175	20300	20050	20175	20300
	(MHz)		1720	1732.5	1745	1720	1732.5	1745
4	20	1RB#0	21.44	21.50	21.49	20.32	20.59	20.24
		1RB#49	21.75	21.85	21.95	20.70	20.97	20.68
		1RB#99	21.56	21.57	21.56	20.44	20.71	20.34
		50RB#0	20.55	20.78	20.82	19.62	19.83	19.91
		50RB#25	20.60	20.73	20.77	19.64	19.86	19.90
		50RB#50	20.71	20.72	20.76	19.76	19.77	19.85
		100RB#0	20.64	20.69	20.77	19.70	19.74	19.84

5.2.3 LTE Band 5

Conducted Power(dBm)								
Modulation			QPSK			16QAM		
Band	Bandwidth (MHz)	RB	20407	20525	20643	20407	20525	20643
			824.7	836.5	848.3	824.7	836.5	848.3
5	1.4	1RB#0	22.34	22.35	22.07	21.22	21.11	20.93
		1RB#2	22.41	22.36	22.22	21.39	21.26	21.22
		1RB#5	22.31	22.27	22.11	21.18	21.13	20.90
		3RB#0	22.42	22.25	22.27	21.18	21.10	20.99
		3RB#1	22.40	22.24	22.26	21.18	21.11	21.00
		3RB#3	22.40	22.31	22.24	21.17	21.12	21.11
		6RB#0	21.35	21.33	21.23	20.36	20.15	20.17
Band	Bandwidth (MHz)	RB	20415	20525	20635	20415	20525	20635
			825.5	836.5	847.5	825.5	836.5	847.5
5	3	1RB#0	22.37	22.27	22.17	21.36	21.16	20.90
		1RB#8	22.34	22.30	22.15	21.46	21.15	20.93
		1RB#14	22.35	22.32	22.18	21.39	21.13	20.99
		8RB#0	21.34	21.26	21.21	20.42	20.20	20.20
		8RB#4	21.32	21.25	21.22	20.35	20.23	20.21
		8RB#7	21.35	21.25	21.18	20.34	20.22	20.17
		15RB#0	21.33	21.22	21.14	20.29	20.16	20.07
Band	Bandwidth (MHz)	RB	20425	20525	20625	20425	20525	20625
			826.5	836.5	846.5	826.5	836.5	846.5
5	5	1RB#0	22.35	22.18	22.15	21.27	21.33	21.09
		1RB#12	22.49	22.23	22.16	21.42	21.36	21.09
		1RB#24	22.32	22.20	22.15	21.28	21.24	21.11
		12RB#0	21.34	21.27	21.26	20.28	20.28	20.30
		12RB#6	21.32	21.28	21.27	20.28	20.32	20.27
		12RB#13	21.34	21.30	21.15	20.31	20.28	20.14
		25RB#0	21.34	21.31	21.23	20.33	20.26	20.25
Band	Bandwidth (MHz)	RB	20450	20525	20600	20450	20525	20600
			829	836.5	844	829	836.5	844
5	10	1RB#0	22.36	22.71	22.28	21.41	21.60	21.09
		1RB#25	22.54	22.74	22.26	21.48	21.33	21.11
		1RB#49	22.33	22.30	22.21	21.38	21.22	21.03
		25RB#0	21.37	21.38	21.38	20.39	20.43	20.43
		25RB#12	21.40	21.36	21.41	20.35	20.41	20.44
		25RB#25	21.42	21.40	21.16	20.38	20.37	20.20
		50RB#0	21.39	21.36	21.27	20.41	20.34	20.32

5.2.4 LTE Band 12

Conducted Power(dBm)								
Modulation			QPSK			16QAM		
Band	Bandwidth (MHz)	RB	23017	23095	23173	23017	23095	23173
			699.7	707.5	715.3	699.7	707.5	715.3
12	1.4	1RB#0	21.84	21.87	21.83	21.15	20.66	20.82
		1RB#2	22.02	22.09	22.02	21.37	20.88	20.96
		1RB#5	21.95	21.89	21.84	21.23	20.63	20.85
		3RB#0	22.35	21.98	21.98	20.70	20.76	20.83
		3RB#1	21.83	21.94	22.01	20.69	20.75	20.85
		3RB#3	21.92	22.02	21.98	20.67	20.74	20.80
		6RB#0	20.87	20.88	20.93	19.72	19.91	20.03
Band	Bandwidth (MHz)	RB	23025	23095	23165	23025	23095	23165
			700.5	707.5	714.5	700.5	707.5	714.5
12	3	1RB#0	21.83	21.90	21.97	20.81	20.83	20.68
		1RB#8	21.80	21.94	21.99	20.84	20.80	20.71
		1RB#14	21.86	21.90	21.96	20.89	20.76	20.79
		8RB#0	20.79	20.86	20.96	19.87	19.93	20.07
		8RB#4	20.83	20.85	20.98	19.91	19.87	20.03
		8RB#7	20.86	20.86	21.02	19.90	19.96	20.03
		15RB#0	20.81	20.84	20.94	19.84	19.82	19.95
Band	Bandwidth (MHz)	RB	23035	23095	23155	23035	23095	23155
			701.5	707.5	713.5	701.5	707.5	713.5
12	5	1RB#0	21.74	21.80	21.80	20.73	20.92	20.70
		1RB#12	21.98	22.01	21.95	20.84	21.03	20.87
		1RB#24	21.89	21.79	21.93	20.87	20.94	20.80
		12RB#0	20.92	20.87	20.99	19.87	19.92	20.11
		12RB#6	20.89	20.86	20.99	19.89	19.97	20.07
		12RB#13	20.80	21.07	20.92	19.85	20.05	19.91
		25RB#0	20.89	20.94	21.02	19.93	20.00	20.07
Band	Bandwidth (MHz)	RB	23060	23095	23130	23060	23095	23130
			704	707.5	711	704	707.5	711
12	10	1RB#0	22.37	21.95	21.90	20.81	20.74	20.69
		1RB#24	22.56	22.01	22.00	21.09	20.89	20.83
		1RB#49	22.39	21.97	22.07	20.95	20.81	20.77
		25RB#0	21.12	21.03	20.81	20.16	20.08	19.96
		25RB#12	21.12	21.03	20.82	20.15	20.05	19.91
		25RB#25	21.03	21.16	20.88	20.09	20.21	19.92
		50RB#0	21.05	21.08	20.84	20.11	20.11	19.92

5.2.5 LTE Band 13

Conducted Power(dBm)								
Modulation			QPSK			16QAM		
Band	Bandwidth (MHz)	RB	23205	23230	23255	23205	23230	23255
			779.5	782	784.5	779.5	782	784.5
13	5	1RB#0	22.29	22.22	22.21	21.26	21.40	21.18
		1RB#12	22.39	22.35	22.36	21.37	21.46	21.38
		1RB#24	22.37	22.25	22.25	21.31	21.39	21.18
		12RB#0	21.23	21.31	21.37	20.25	20.33	20.44
		12RB#6	21.30	21.35	21.35	20.28	20.39	20.36
		12RB#13	21.30	21.20	21.32	20.40	20.34	20.36
		25RB#0	21.31	21.32	21.35	20.36	20.30	20.43
Band	Bandwidth (MHz)	RB	0	23230	0	0	23230	0
			0	782	0	0	782	0
3	10	1RB#0	/	22.26	/	/	21.38	/
		1RB#25	/	22.40	/	/	21.44	/
		1RB#49	/	22.34	/	/	21.41	/
		25RB#0	/	21.32	/	/	20.32	/
		25RB#12	/	21.31	/	/	20.33	/
		25RB#25	/	21.36	/	/	20.35	/
		50RB#0	/	21.32	/	/	20.31	/

5.2.6 LTE Band 17

Conducted Power(dBm)								
Modulation			QPSK			16QAM		
Band	Bandwidth (MHz)	RB	23755	23790	23825	23755	23790	23825
			706.5	710	713.5	706.5	710	713.5
17	5	1RB#0	21.89	21.82	21.82	20.82	20.94	20.77
		1RB#12	22.02	21.96	21.96	20.93	21.03	20.93
		1RB#24	21.94	21.86	21.87	20.88	20.94	20.81
		12RB#0	20.93	20.83	20.98	19.95	19.89	20.03
		12RB#6	20.87	20.82	21.03	19.98	19.91	20.02
		12RB#13	20.99	20.94	20.90	20.00	20.01	20.01
		25RB#0	20.96	20.94	21.01	20.07	20.01	20.07
Band	Bandwidth (MHz)	RB	23780	23790	23800	23780	23790	23800
			709	710	711	709	710	711
17	10	1RB#0	21.88	21.92	21.92	20.92	20.78	20.67
		1RB#24	22.04	22.13	22.05	21.06	20.96	20.79
		1RB#49	21.96	21.95	21.95	20.96	20.83	20.68
		25RB#0	20.86	20.83	20.81	19.88	19.90	19.89
		25RB#12	20.84	20.87	20.82	19.96	19.93	19.94
		25RB#25	21.00	20.92	20.90	20.03	19.96	19.98
		50RB#0	20.95	20.84	20.83	20.04	19.96	19.92

5.2.7 ERP or EIRP

Test Requirement: FCC 47 CFR Part 2.1046(a)
LTE Band 2: FCC 47 CFR Part 24.232(c)
LTE Band 4: FCC 47 CFR Part 27.50(d)(4)
LTE Band 5: FCC 47 CFR Part 22.913(a)
LTE Band 12 & Band 17: FCC 47 CFR Part 27.50(c)(10)
LTE Band 13: FCC 47 CFR Part 27.50(b)(10)

Test Method: KDB 971168 D01v03r01 Section 5.6 & ANSI C63.26-2015

Limit:

FCC 47 CFR Part 22.913(a):
The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

FCC 47 CFR Part 24.232(c):
Mobile and portable stations are limited to 2 watts EIRP.

FCC 47 CFR Part 27.50(d)(4):
Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

FCC 47 CFR Part 27.50(c)(10):
Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

FCC 47 CFR Part 27.50(b)(10):
Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

Test Procedure:
According to KDB 412172 D01 Power Approach,

- **ERP or EIRP = $P_T + G_T - L_C$**
- **ERP = EIRP - 2.15**

where

- **P_T** = transmitter output power, expressed in dBW, dBm, or PSD;
- **G_T** = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);
- **L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.**

Test Setup: Refer to section 4.2.1 for details.
Instruments Used: Refer to section 3 for details
Test Mode: Link mode
Test Results: Pass
Test Data: See table below

Note: The maximum ERP/EIRP is calculated from max output power and antenna gain, the antenna gain provided by the customer, and the customer takes all the responsibilities for the accuracy of antenna gain.

5.3.1 LTE Band 2

Channel	Maximum EIRP (dBm)			Maximum EIRP (W)			Result
	QPSK	16QAM	Limit (dBm)	QPSK	16QAM	Limit (W)	
Channel Bandwidth: 1.4MHz							
Lowest	20.18	19.41	33.01	0.1042	0.0873	2	Pass
Middle	20.14	19.50	33.01	0.1033	0.0891	2	Pass
Highest	20.02	18.82	33.01	0.1005	0.0762	2	Pass
Channel Bandwidth: 3MHz							
Lowest	20.08	19.13	33.01	0.1019	0.0818	2	Pass
Middle	20.03	18.89	33.01	0.1007	0.0774	2	Pass
Highest	19.88	18.66	33.01	0.0973	0.0735	2	Pass
Channel Bandwidth: 5MHz							
Lowest	20.17	19.17	33.01	0.1040	0.0826	2	Pass
Middle	20.02	19.02	33.01	0.1005	0.0798	2	Pass
Highest	20.00	18.84	33.01	0.1000	0.0766	2	Pass
Channel Bandwidth: 10MHz							
Lowest	20.72	19.32	33.01	0.1180	0.0855	2	Pass
Middle	20.52	19.01	33.01	0.1127	0.0796	2	Pass
Highest	20.16	19.01	33.01	0.1038	0.0796	2	Pass
Channel Bandwidth: 15MHz							
Lowest	20.18	19.17	33.01	0.1042	0.0826	2	Pass
Middle	19.99	19.10	33.01	0.0998	0.0813	2	Pass
Highest	19.95	19.02	33.01	0.0989	0.0798	2	Pass
Channel Bandwidth: 20MHz							
Lowest	20.72	19.18	33.01	0.1180	0.0828	2	Pass
Middle	20.52	19.28	33.01	0.1127	0.0847	2	Pass
Highest	20.16	18.85	33.01	0.1038	0.0767	2	Pass

5.3.2 LTE Band 4

Channel	Maximum EIRP (dBm)			Maximum EIRP (W)			Result
	QPSK	16QAM	Limit (dBm)	QPSK	16QAM	Limit (W)	
Channel Bandwidth: 1.4MHz							
Lowest	19.74	18.62	30.00	0.0942	0.0728	1	Pass
Middle	19.82	18.62	30.00	0.0959	0.0728	1	Pass
Highest	19.92	18.71	30.00	0.0982	0.0743	1	Pass
Channel Bandwidth: 3MHz							
Lowest	19.74	18.70	30.00	0.0942	0.0741	1	Pass
Middle	19.78	18.64	30.00	0.0951	0.0731	1	Pass
Highest	19.90	18.64	30.00	0.0977	0.0731	1	Pass
Channel Bandwidth: 5MHz							
Lowest	19.78	18.70	30.00	0.0951	0.0741	1	Pass
Middle	19.78	18.90	30.00	0.0951	0.0776	1	Pass
Highest	19.88	18.81	30.00	0.0973	0.0760	1	Pass
Channel Bandwidth: 10MHz							
Lowest	19.81	18.77	30.00	0.0957	0.0753	1	Pass
Middle	19.95	18.71	30.00	0.0989	0.0743	1	Pass
Highest	19.91	18.68	30.00	0.0979	0.0738	1	Pass
Channel Bandwidth: 15MHz							
Lowest	19.71	18.75	30.00	0.0935	0.0750	1	Pass
Middle	19.67	18.83	30.00	0.0927	0.0764	1	Pass
Highest	19.82	18.79	30.00	0.0959	0.0757	1	Pass
Channel Bandwidth: 20MHz							
Lowest	19.77	18.72	30.00	0.0948	0.0745	1	Pass
Middle	19.87	18.99	30.00	0.0971	0.0793	1	Pass
Highest	19.97	18.70	30.00	0.0993	0.0741	1	Pass

5.3.3 LTE Band 5

Channel	Maximum EIRP (dBm)			Maximum EIRP (W)			Result
	QPSK	16QAM	Limit (dBm)	QPSK	16QAM	Limit (W)	
Channel Bandwidth: 1.4MHz							
Lowest	19.33	18.30	38.45	0.0857	0.0676	7	Pass
Middle	19.27	18.17	38.45	0.0845	0.0656	7	Pass
Highest	19.18	18.13	38.45	0.0828	0.0650	7	Pass
Channel Bandwidth: 3MHz							
Lowest	19.28	18.37	38.45	0.0847	0.0687	7	Pass
Middle	19.23	18.07	38.45	0.0838	0.0641	7	Pass
Highest	19.09	17.90	38.45	0.0811	0.0617	7	Pass
Channel Bandwidth: 5MHz							
Lowest	19.40	18.33	38.45	0.0871	0.0681	7	Pass
Middle	19.14	18.27	38.45	0.0820	0.0671	7	Pass
Highest	19.07	18.02	38.45	0.0807	0.0634	7	Pass
Channel Bandwidth: 10MHz							
Lowest	19.45	18.39	38.45	0.0881	0.0690	7	Pass
Middle	19.65	18.51	38.45	0.0923	0.0710	7	Pass
Highest	19.19	18.02	38.45	0.0830	0.0634	7	Pass

5.3.4 LTE Band 12

Channel	Maximum EIRP (dBm)			Maximum EIRP (W)			Result
	QPSK	16QAM	Limit (dBm)	QPSK	16QAM	Limit (W)	
Channel Bandwidth: 1.4MHz							
Lowest	9.17	8.19	34.77	0.0083	0.0066	3	Pass
Middle	8.91	7.70	34.77	0.0078	0.0059	3	Pass
Highest	8.84	7.78	34.77	0.0077	0.0060	3	Pass
Channel Bandwidth: 3MHz							
Lowest	8.68	7.71	34.77	0.0074	0.0059	3	Pass
Middle	8.76	7.65	34.77	0.0075	0.0058	3	Pass
Highest	8.81	7.61	34.77	0.0076	0.0058	3	Pass
Channel Bandwidth: 5MHz							
Lowest	8.80	7.69	34.77	0.0076	0.0059	3	Pass
Middle	8.83	7.85	34.77	0.0076	0.0061	3	Pass
Highest	8.77	7.69	34.77	0.0075	0.0059	3	Pass
Channel Bandwidth: 10MHz							
Lowest	9.38	7.91	34.77	0.0087	0.0062	3	Pass
Middle	8.83	7.71	34.77	0.0076	0.0059	3	Pass
Highest	8.89	7.65	34.77	0.0077	0.0058	3	Pass

5.3.5 LTE Band 13

Channel	Maximum EIRP (dBm)			Maximum EIRP (W)			Result
	QPSK	16QAM	Limit (dBm)	QPSK	16QAM	Limit (W)	
Channel Bandwidth: 5MHz							
Lowest	17.23	16.21	34.77	0.0528	0.0418	3	Pass
Middle	17.19	16.30	34.77	0.0524	0.0427	3	Pass
Highest	17.20	16.22	34.77	0.0525	0.0419	3	Pass
Channel Bandwidth: 10MHz							
Lowest	/	/	34.77	/	/	3	Pass
Middle	17.24	16.28	34.77	0.0530	0.0425	3	Pass
Highest	/	/	34.77	/	/	3	Pass

5.3.6 LTE Band 17

Channel	Maximum EIRP (dBm)			Maximum EIRP (W)			Result
	QPSK	16QAM	Limit (dBm)	QPSK	16QAM	Limit (W)	
Channel Bandwidth: 5MHz							
Lowest	8.84	7.75	34.77	0.0077	0.0060	3	Pass
Middle	8.78	7.85	34.77	0.0076	0.0061	3	Pass
Highest	8.78	7.75	34.77	0.0076	0.0060	3	Pass
Channel Bandwidth: 10MHz							
Lowest	8.86	7.88	34.77	0.0077	0.0061	3	Pass
Middle	8.95	7.78	34.77	0.0079	0.0060	3	Pass
Highest	8.87	7.61	34.77	0.0077	0.0058	3	Pass

5.3 PEAK-TO-AVERAGE RATIO

Test Requirement:	**LTE Band 2:** FCC 47 CFR Part 24.232(d) **LTE Band 4:** FCC 47 CFR Part 27.50(d)(5) **LTE Band 5:** FCC 47 CFR Part 22.913(a) **LTE Band 12 & Band 17:** FCC 47 CFR Part 27.50(d)(5) **LTE Band 13:** FCC 47 CFR Part 27.50(d)(5)
Test Method:	KDB 971168 D01v03r01 Section 5.7
Limit:	In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB

Test Procedure:

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer.

a) Set resolution/measurement bandwidth ≥ signal's occupied bandwidth
b) Set the number of counts to a value that stabilizes the measured CCDF curve
c) Record the maximum PAPR level associated with a probability of 0.1 %

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup:	Refer to section 4.2.2 for details.
Instruments Used:	Refer to section 3 for details
Test Mode:	Link mode
Test Results:	Pass
Test Data:	**Please refer to Appendix A**

5.499%&26DB BANDWIDTH

Test Requirement: FCC 47 CFR Part 2.1049(h)

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01 Section 4

Limit: No Limit, for reporting purposes only.

Test Procedure:

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in each band. The 99% and -26dB bandwidths was also measured and recorded.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Link mode

Test Results: Pass

Test Data: **Please refer to Appendix A**

5.5 BAND EDGE AT ANTENNA TERMINALS

Test Requirement: **LTE Band 2:** FCC 47 CFR Part 24.238(a)
LTE Band 4: FCC 47 CFR Part 27.53(h)(1)
LTE Band 5: FCC 47 CFR Part 22.917(a)
LTE Band 12 & Band 17: FCC 47 CFR Part 27.53(g)
LTE Band 13: FCC 47 CFR Part 27.53(c)(2)

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Limit:

FCC 47 CFR Part 24.238(a), 27.53(h)(1), 22.917(a):
The 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. The emission limit equal to -13 dBm.

FCC 47 CFR Part 27.53(g):
For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC 47 CFR Part 27.53(c)(2):
On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;

Test Procedure:
The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer.
For each band edge measurement:
1) Set the spectrum analyzer span to include the block edge frequency.
2) Set a marker to point the corresponding band edge frequency in each test case.
3) Set display line at -13 dBm
4) Set resolution bandwidth to at least 1% of emission bandwidth.
5) Set spectrum analyzer with RMS detector.
6) Record the max trace plot into the test report

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details.
Instruments Used: Refer to section 3 for details
Test Mode: Link mode
Test Results: Pass
Test Data: **Please refer to Appendix A**

5.6 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Test Requirement: **LTE Band 2:** FCC 47 CFR Part 24.238(a)
LTE Band 4: FCC 47 CFR Part 27.53(h)
LTE Band 5: FCC 47 CFR Part 22.917(a)
LTE Band 12 & Band 17: FCC 47 CFR Part 27.53(g)
LTE Band 13: FCC 47 CFR Part 27.53

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Limit:

FCC 47 CFR Part 24.238(a), 27.53(h)(1), 22.917(a), 27.53(g), 27.53(c)(2):
The 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. The emission limit equal to -13 dBm.

Test Procedure:
The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range. b. Measuring frequency range is from 30 MHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower. Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details.
Instruments Used: Refer to section 3 for details
Test Mode: Link mode
Test Results: Pass
Test Data: **Please refer to Appendix A**

5.7 FIELD STRENGTH OF SPURIOUS RADIATION

Test Requirement: **LTE Band 2:** FCC 47 CFR Part 24.238(a)
LTE Band 4: FCC 47 CFR Part 27.53(h)
LTE Band 5: FCC 47 CFR Part 22.917(a)
LTE Band 12 & Band 17: FCC 47 CFR Part 27.53(g)
LTE Band 13: FCC 47 CFR Part 27.53

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
0.009 MHz-30 MHz	Peak	10 kHz	30 KHz	Peak
30 MHz-1 GHz	Quasi-peak	100 kHz	300 KHz	Peak
Above 1 GHz	Peak	1 MHz	3 MHz	Peak

Limits:

FCC 47 CFR Part 24.238(a), 27.53(h)(1), 22.917(a), 27.53(g):
The 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. The emission limit equal to -13 dBm.

FCC 47 CFR Part 27.53:
(c) The 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.
(f) Emissions in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals. (-70 dBW/MHz = -40dBm/MHz).

Test Setup: Refer to section 4.2.1 for details.

Test Procedures: KDB 971168 D01v03r01 Section 7

Equipment Used: Refer to section 3 for details.

Test Result: Pass

The worst measurement data as follows:

5.8.1 LTE Band 2

LTE Band 2_ 20 MHz_ QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	854.242	-79.26	13.63	-65.63	-13.00	-52.63	Horizontal
2	950.450	-79.89	14.82	-65.07	-13.00	-52.07	Horizontal
3	984.870	-80.14	15.41	-64.73	-13.00	-51.73	Horizontal
4	3711.771	-36.82	7.51	-29.31	-13.00	-16.31	Horizontal
5	5566.657	-39.83	11.00	-28.83	-13.00	-15.83	Horizontal
6	7440.000	-58.05	13.06	-44.99	-13.00	-31.99	Horizontal
7	577.612	-68.29	8.24	-60.05	-13.00	-47.05	Vertical
8	791.543	-79.03	12.43	-66.60	-13.00	-53.60	Vertical
9	965.052	-79.98	14.90	-65.08	-13.00	-52.08	Vertical
10	3710.071	-36.55	7.50	-29.05	-13.00	-16.05	Vertical
11	5566.657	-42.02	11.00	-31.02	-13.00	-18.02	Vertical
12	7440.000	-58.72	13.06	-45.66	-13.00	-32.66	Vertical
Middle Channel							
1	828.588	-79.31	13.16	-66.15	-13.00	-53.15	Horizontal
2	867.365	-79.72	13.80	-65.92	-13.00	-52.92	Horizontal
3	979.877	-79.86	15.28	-64.58	-13.00	-51.58	Horizontal
4	3750.875	-37.80	7.68	-30.12	-13.00	-17.12	Horizontal
5	5626.163	-42.57	11.15	-31.42	-13.00	-18.42	Horizontal
6	803.704	-79.13	12.73	-66.40	-13.00	-53.40	Vertical
7	912.584	-79.32	14.49	-64.83	-13.00	-51.83	Vertical
8	945.632	-78.76	14.70	-64.06	-13.00	-51.06	Vertical
9	3750.875	-36.74	7.68	-29.06	-13.00	-16.06	Vertical
10	5626.163	-41.55	11.15	-30.40	-13.00	-17.40	Vertical
Highest Channel							
1	816.051	-79.75	13.05	-66.70	-13.00	-53.70	Horizontal
2	912.584	-80.00	14.49	-65.51	-13.00	-52.51	Horizontal
3	989.888	-79.00	15.54	-63.46	-13.00	-50.46	Horizontal
4	3791.679	-38.12	7.88	-30.24	-13.00	-17.24	Horizontal
5	5687.369	-42.69	11.29	-31.40	-13.00	-18.40	Horizontal
6	756.156	-78.62	11.60	-67.02	-13.00	-54.02	Vertical
7	889.687	-79.44	14.18	-65.26	-13.00	-52.26	Vertical
8	989.888	-80.23	15.54	-64.69	-13.00	-51.69	Vertical
9	3789.979	-35.47	7.87	-27.60	-13.00	-14.60	Vertical
10	5687.369	-42.25	11.29	-30.96	-13.00	-17.96	Vertical

5.8.2 LTE Band 4

LTE Band 4_ 20 MHz_ QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	726.030	-79.59	11.60	-67.99	-13.00	-54.99	Horizontal
2	828.588	-79.48	13.16	-66.32	-13.00	-53.32	Horizontal
3	907.958	-79.31	14.50	-64.81	-13.00	-51.81	Horizontal
4	3431.243	-58.02	6.41	-51.61	-13.00	-38.61	Horizontal
5	5146.715	-51.71	10.07	-41.64	-13.00	-28.64	Horizontal
6	820.208	-79.35	13.23	-66.12	-13.00	-53.12	Vertical
7	903.355	-79.42	14.47	-64.95	-13.00	-51.95	Vertical
8	969.968	-78.87	15.02	-63.85	-13.00	-50.85	Vertical
9	3431.243	-57.42	6.41	-51.01	-13.00	-38.01	Vertical
10	5146.715	-51.22	10.07	-41.15	-13.00	-28.15	Vertical
Middle Channel							
1	711.420	-79.37	11.48	-67.89	-13.00	-54.89	Horizontal
2	811.914	-79.23	12.95	-66.28	-13.00	-53.28	Horizontal
3	926.604	-79.34	14.44	-64.90	-13.00	-51.90	Horizontal
4	3465.000	-61.00	6.46	-54.54	-13.00	-41.54	Horizontal
5	5184.119	-52.57	10.15	-42.42	-13.00	-29.42	Horizontal
6	816.051	-78.99	13.05	-65.94	-13.00	-52.94	Vertical
7	926.604	-79.87	14.44	-65.43	-13.00	-52.43	Vertical
8	950.450	-79.86	14.82	-65.04	-13.00	-52.04	Vertical
9	3465.000	-60.48	6.46	-54.02	-13.00	-41.02	Vertical
10	5184.119	-53.06	10.15	-42.91	-13.00	-29.91	Vertical
Highest Channel							
1	854.242	-79.48	13.63	-65.85	-13.00	-52.85	Horizontal
2	907.958	-78.91	14.50	-64.41	-13.00	-51.41	Horizontal
3	984.870	-79.26	15.41	-63.85	-13.00	-50.85	Horizontal
4	3490.000	-60.85	6.50	-54.35	-13.00	-41.35	Horizontal
5	5235.000	-60.14	10.26	-49.88	-13.00	-36.88	Horizontal
6	885.177	-79.86	14.17	-65.69	-13.00	-52.69	Vertical
7	912.584	-79.71	14.49	-65.22	-13.00	-52.22	Vertical
8	960.160	-80.47	14.97	-65.50	-13.00	-52.50	Vertical
9	3490.000	-60.80	6.50	-54.30	-13.00	-41.30	Vertical
10	5235.000	-60.43	10.26	-50.17	-13.00	-37.17	Vertical

5.8.3 LTE Band 5

LTE Band 5_ 10 MHz_ QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	655.863	-79.69	39.42	-40.27	-13.00	-27.27	Horizontal
2	733.447	-78.90	41.00	-37.90	-13.00	-24.90	Horizontal
3	984.870	-79.86	44.33	-35.53	-13.00	-22.53	Horizontal
4	1658.000	-59.18	-0.23	-59.41	-13.00	-46.41	Horizontal
5	2487.000	-60.70	3.50	-57.20	-13.00	-44.20	Horizontal
6	652.538	-80.07	39.31	-40.76	-13.00	-27.76	Vertical
7	715.045	-80.02	40.89	-39.13	-13.00	-26.13	Vertical
8	989.888	-81.42	44.46	-36.96	-13.00	-23.96	Vertical
9	1658.000	-59.81	-0.23	-60.04	-13.00	-47.04	Vertical
10	2487.000	-60.56	3.50	-57.06	-13.00	-44.06	Vertical
Middle Channel							
1	623.365	-80.58	38.78	-41.80	-13.00	-28.80	Horizontal
2	707.814	-78.95	40.78	-38.17	-13.00	-25.17	Horizontal
3	945.632	-80.20	43.68	-36.52	-13.00	-23.52	Horizontal
4	1673.000	-59.60	-0.12	-59.72	-13.00	-46.72	Horizontal
5	2509.500	-61.56	3.58	-57.98	-13.00	-44.98	Horizontal
6	707.814	-79.99	40.78	-39.21	-13.00	-26.21	Vertical
7	917.233	-79.48	43.54	-35.94	-13.00	-22.94	Vertical
8	979.877	-80.17	44.21	-35.96	-13.00	-22.96	Vertical
9	1673.000	-60.61	-0.12	-60.73	-13.00	-47.73	Vertical
10	2509.500	-60.96	3.58	-57.38	-13.00	-44.38	Vertical
Highest Channel							
1	693.571	-80.59	40.52	-40.07	-13.00	-27.07	Horizontal
2	722.350	-79.91	40.85	-39.06	-13.00	-26.06	Horizontal
3	936.069	-79.56	43.45	-36.11	-13.00	-23.11	Horizontal
4	1688.000	-60.26	-0.01	-60.27	-13.00	-47.27	Horizontal
5	2532.000	-61.19	3.68	-57.51	-13.00	-44.51	Horizontal
6	737.184	-80.57	40.94	-39.63	-13.00	-26.63	Vertical
7	783.539	-79.72	41.37	-38.35	-13.00	-25.35	Vertical
8	917.233	-80.16	43.54	-36.62	-13.00	-23.62	Vertical
9	1688.000	-60.30	-0.01	-60.31	-13.00	-47.31	Vertical
10	2532.000	-60.82	3.68	-57.14	-13.00	-44.14	Vertical

5.8.4 LTE Band 12

LTE Band 12_ 10 MHz_ QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	795.576	-79.70	41.66	-38.04	-13.00	-25.04	Horizontal
2	921.906	-80.13	43.52	-36.61	-13.00	-23.61	Horizontal
3	969.968	-80.38	43.97	-36.41	-13.00	-23.41	Horizontal
4	1408.000	-58.43	-1.31	-59.74	-13.00	-46.74	Horizontal
5	2112.000	-60.09	2.49	-57.60	-13.00	-44.60	Horizontal
6	532.504	-78.62	37.22	-41.40	-13.00	-28.40	Vertical
7	876.226	-79.08	43.04	-36.04	-13.00	-23.04	Vertical
8	965.052	-80.30	43.85	-36.45	-13.00	-23.45	Vertical
9	1408.000	-57.97	-1.31	-59.28	-13.00	-46.28	Vertical
10	2112.000	-60.60	2.49	-58.11	-13.00	-45.11	Vertical
Middle Channel							
1	795.576	-78.83	41.66	-37.17	-13.00	-24.17	Horizontal
2	917.233	-80.78	43.54	-37.24	-13.00	-24.24	Horizontal
3	965.052	-80.07	43.85	-36.22	-13.00	-23.22	Horizontal
4	1415.000	-58.10	-1.32	-59.42	-13.00	-46.42	Horizontal
5	2122.500	-59.98	2.52	-57.46	-13.00	-44.46	Horizontal
6	841.317	-79.57	42.48	-37.09	-13.00	-24.09	Vertical
7	907.958	-79.84	43.54	-36.30	-13.00	-23.30	Vertical
8	994.931	-80.31	44.48	-35.83	-13.00	-22.83	Vertical
9	1415.000	-59.68	-1.32	-61.00	-13.00	-48.00	Vertical
10	2122.500	-62.61	2.52	-60.09	-13.00	-47.09	Vertical
Highest Channel							
1	862.969	-79.78	42.85	-36.93	-13.00	-23.93	Horizontal
2	921.906	-79.73	43.52	-36.21	-13.00	-23.21	Horizontal
3	984.870	-80.19	44.33	-35.86	-13.00	-22.86	Horizontal
4	1422.000	-58.14	-1.32	-59.46	-13.00	-46.46	Horizontal
5	2133.000	-61.01	2.55	-58.46	-13.00	-45.46	Horizontal
6	779.567	-78.45	41.21	-37.24	-13.00	-24.24	Vertical
7	876.226	-80.09	43.04	-37.05	-13.00	-24.05	Vertical
8	989.888	-79.74	44.46	-35.28	-13.00	-22.28	Vertical
9	1422.000	-58.76	-1.32	-60.08	-13.00	-47.08	Vertical
10	2133.000	-60.77	2.55	-58.22	-13.00	-45.22	Vertical

5.8.5 LTE Band 13

LTE Band 13_ 10 MHz_ QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Middle Channel							
1	697.105	-79.49	40.69	-38.80	-13.00	-25.80	Horizontal
2	880.690	-80.40	43.14	-37.26	-13.00	-24.26	Horizontal
3	945.632	-80.13	43.68	-36.45	-13.00	-23.45	Horizontal
4	1564.000	-60.43	-0.88	-61.31	-40.00	-21.31	Horizontal
5	2346.000	-61.53	3.12	-58.41	-13.00	-45.41	Horizontal
6	862.969	-80.08	42.85	-37.23	-13.00	-24.23	Vertical
7	921.906	-79.76	43.52	-36.24	-13.00	-23.24	Vertical
8	994.931	-80.67	44.48	-36.19	-13.00	-23.19	Vertical
9	1564.000	-60.33	-0.88	-61.21	-40.00	-21.21	Vertical
10	2346.000	-61.35	3.12	-58.23	-13.00	-45.23	Vertical

5.8.6 LTE Band 17

LTE Band 17_ 5 MHz_ QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	816.051	-79.47	42.23	-37.24	-13.00	-24.24	Horizontal
2	894.220	-78.94	43.26	-35.68	-13.00	-22.68	Horizontal
3	1000.000	-80.42	44.50	-35.92	-13.00	-22.92	Horizontal
4	1418.000	-59.74	-1.31	-61.05	-13.00	-48.05	Horizontal
5	2127.000	-60.61	2.53	-58.08	-13.00	-45.08	Horizontal
6	4228.623	-49.71	9.16	-40.55	-13.00	-27.55	Horizontal
7	820.208	-80.12	42.40	-37.72	-13.00	-24.72	Vertical
8	876.226	-78.70	43.04	-35.66	-13.00	-22.66	Vertical
9	955.292	-79.68	43.82	-35.86	-13.00	-22.86	Vertical
10	1418.000	-59.65	-1.31	-60.96	-13.00	-47.96	Vertical
11	2127.000	-61.16	2.53	-58.63	-13.00	-45.63	Vertical
12	4228.623	-47.95	9.16	-38.79	-13.00	-25.79	Vertical
Middle Channel							
1	811.914	-79.88	42.13	-37.75	-13.00	-24.75	Horizontal
2	867.365	-79.64	42.90	-36.74	-13.00	-23.74	Horizontal
3	912.584	-80.15	43.52	-36.63	-13.00	-23.63	Horizontal
4	1420.000	-59.63	-1.32	-60.95	-13.00	-47.95	Horizontal
5	2130.000	-60.86	2.54	-58.32	-13.00	-45.32	Horizontal
6	4233.723	-50.18	9.17	-41.01	-13.00	-28.01	Horizontal
7	824.387	-80.16	42.32	-37.84	-13.00	-24.84	Vertical
8	907.958	-78.33	43.54	-34.79	-13.00	-21.79	Vertical
9	989.888	-80.67	44.46	-36.21	-13.00	-23.21	Vertical
10	1420.000	-59.67	-1.32	-60.99	-13.00	-47.99	Vertical
11	2130.000	-60.69	2.54	-58.15	-13.00	-45.15	Vertical
12	4233.723	-48.44	9.17	-39.27	-13.00	-26.27	Vertical
Highest Channel							
1	655.863	-80.31	39.42	-40.89	-13.00	-27.89	Horizontal
2	903.355	-80.66	43.51	-37.15	-13.00	-24.15	Horizontal
3	979.877	-80.70	44.21	-36.49	-13.00	-23.49	Horizontal
4	1422.000	-59.33	-1.32	-60.65	-13.00	-47.65	Horizontal
5	2133.000	-60.97	2.55	-58.42	-13.00	-45.42	Horizontal
6	4240.524	-50.54	9.18	-41.36	-13.00	-28.36	Horizontal
7	623.365	-79.35	38.78	-40.57	-13.00	-27.57	Vertical
8	917.233	-79.20	43.54	-35.66	-13.00	-22.66	Vertical
9	979.877	-79.99	44.21	-35.78	-13.00	-22.78	Vertical
10	1422.000	-59.45	-1.32	-60.77	-13.00	-47.77	Vertical
11	2133.000	-59.47	2.55	-56.92	-13.00	-43.92	Vertical
12	4240.524	-51.11	9.18	-41.93	-13.00	-28.93	Vertical