FCC Test Report

Report No.	:	**1812C50133012506**
Applicant	:	**Galooli LTD**
Address	:	**52 Menachem begin street, Tel Aviv, Israel**
Product Name	:	**UltraGate**
Report Date	:	**2025-05-16**

Shenzhen Anbotek Compliance Laboratory Limited

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TEST REPORT

Applicant	:	Galooli LTD
Manufacturer	:	Jinan USR IOT Technology Limited
Product Name	:	UltraGate
Model No.	:	100-RTUSRULT-020, USR-EG828
Trade Mark	:	PUSR®
Rating(s)	:	Input: 12V⎓2A

Test Standard(s)	:	**47 CFR Part 2, 47 CFR Part 22(H), 47 CFR Part 24(E), 47 CFR Part 27(C), 47 CFR Part 90(S)**
Test Method(s)	:	**ANSI C63.26-2015** **KDB 971168 D01 Power Meas License Digital Systems v03r01**

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the 47 CFR Part 22, 47 CFR Part 24, 47 CFR Part 27, 47 CFR Part 90 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt		2025-03-31
Date of Test :	:	2025-03-31 to 2025-04-27
Prepared by :	:	Cecilia Chen (Cecilia Chen)
Approved & Authorized Signer :	:	Hugo Chen (Hugo Chen)

Revision History

Report Version	Description	Issued Date
R00	Original Issue.	2025-05-16

Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
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1. General Information

1.1. Client Information

Applicant	:	Galooli LTD
Address	:	52 Menachem begin street, Tel Aviv, Israel
Manufacturer	:	Jinan USR IOT Technology Limited
Address	:	Floor F1 & Part of Floor F2, Building No.9, Diya Shuang Chuang Industrial Zone, No.2566, Century Main Road, Gaoxin District, Jinan, Shandong, China
Factory	:	Jinan USR IOT Technology Limited
Address	:	Floor F1 & Part of Floor F2, Building No.9, Diya Shuang Chuang Industrial Zone, No.2566, Century Main Road, Gaoxin District, Jinan, Shandong, China

1.2. Description of Device (EUT)

Product Name	:	UltraGate
Model No.	:	100-RTUSRULT-020, USR-EG828 (Note: All samples are the same except the model number and appearance color, so we prepare “100-RTUSRULT-020” for test only.)
Trade Mark	:	PUSR®
Test Power Supply	:	DC 12V
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A
RF Specification		
Support Band	:	☒FDD Band 2 ☒FDD Band 4 ☒FDD Band 5 ☒FDD Band 7 ☒FDD Band 12 ☒FDD Band 13 ☐FDD Band 14 ☐FDD Band 17 ☒FDD Band 25 ☒FDD Band 26 ☒TDD Band 38 ☒TDD Band 41 ☒FDD Band 66 ☐FDD Band 71
Transmit Frequency	:	FDD Band 2: 1850.7 MHz – 1909.3 MHz FDD Band 4: 1710.7 MHz – 1754.3 MHz FDD Band 5: 824.7 MHz – 848.3 MHz FDD Band 7: 2502.5 MHz – 2567.5 MHz FDD Band 12: 699.7 MHz – 715.3 MHz FDD Band 13: 779.5 MHz – 784.5 MHz FDD Band 25: 1850.7 MHz – 1914.3 MHz FDD Band 26: 814.7 MHz – 848.3 MHz TDD Band 38: 2572.5 MHz – 2617.5 MHz

		TDD Band 41: 2498.5 MHz – 2687.5 MHz FDD Band 66: 1710.7 MHz-1779.3 MHz
Receive Frequency	:	FDD Band 2: 1930.7 MHz – 1989.3 MHz FDD Band 4: 2110.7 MHz – 2154.3 MHz FDD Band 5: 869.7 MHz – 893.3 MHz FDD Band 7: 2622.5 MHz – 2687.5 MHz FDD Band 12: 729.7 MHz – 745.3 MHz FDD Band 13: 748.5 MHz – 753.5 MHz FDD Band 25: 1930.7 MHz – 1994.3 MHz FDD Band 26: 859.7 MHz – 893.3 MHz TDD Band 38: 2572.5 MHz – 2617.5 MHz TDD Band 41: 2498.5 MHz – 2687.5 MHz FDD Band 66: 2110.7 MHz – 2179.3 MHz
Modulation Type	:	QPSK, 16QAM
Power Class	:	Class 3
Antenna Type	:	External Antenna
Antenna Gain(Peak)	:	FDD Band 2: 5.5dBi FDD Band 4: 5.5dBi FDD Band 5: 5.5dBi FDD Band 7: 5.5dBi FDD Band 12: 5.5dBi FDD Band 13: 5.5dBi FDD Band 25: 5.5dBi FDD Band 26: 5.5dBi TDD Band 38: 5.5dBi TDD Band 41: 5.5dBi FDD Band 66: 5.5dBi
Remark: 1) All of the RF specification are provided by customer. 2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.		

1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
/	/	/	/

1.4. Operation State

Test frequency list:

Band	Frequency (MHz)

FDD Band 2

Test Frequency ID	Bandwidth [MHz]	N_{UL}	Frequency of Uplink [MHz]	N_{DL}	Frequency of Downlink [MHz]
Low Range	1.4	18607	1850.7	607	1930.7
	3	18615	1851.5	615	1931.5
	5	18625	1852.5	625	1932.5
	10	18650	1855	650	1935
	15 [1]	18675	1857.5	675	1937.5
	20 [1]	18700	1860	700	1940
Mid Range	1.4/3/5/10 15 [1]/20 [1]	18900	1880	900	1960
High Range	1.4	19193	1909.3	1193	1989.3
	3	19185	1908.5	1185	1988.5
	5	19175	1907.5	1175	1987.5
	10	19150	1905	1150	1985
	15 [1]	19125	1902.5	1125	1982.5
	20 [1]	19100	1900	1100	1980

FDD Band 4

Test Frequency ID	Bandwidth [MHz]	N_{UL}	Frequency of Uplink [MHz]	N_{DL}	Frequency of Downlink [MHz]
Low Range	1.4	19957	1710.7	1957	2110.7
	3	19965	1711.5	1965	2111.5
	5	19975	1712.5	1975	2112.5
	10	20000	1715	2000	2115
	15	20025	1717.5	2025	2117.5
	20	20050	1720	2050	2120
Mid Range	1.4/3/5/10/15/20	20175	1732.5	2175	2132.5
High Range	1.4	20393	1754.3	2393	2154.3
	3	20385	1753.5	2385	2153.5
	5	20375	1752.5	2375	2152.5
	10	20350	1750	2350	2150
	15	20325	1747.5	2325	2147.5
	20	20300	1745	2300	2145

FDD Band 5

Test Frequency ID	Bandwidth [MHz]	N_{UL}	Frequency of Uplink [MHz]	N_{DL}	Frequency of Downlink [MHz]
Low Range	1.4	20407	824.7	2407	869.7
	3	20415	825.5	2415	870.5
	5	20425	826.5	2425	871.5
	10 [1]	20450	829	2450	874
Mid Range	1.4/3/5 10 [1]	20525	836.5	2525	881.5
High Range	1.4	20643	848.3	2643	893.3
	3	20635	847.5	2635	892.5
	5	20625	846.5	2625	891.5
	10 [1]	20600	844	2600	889

FDD Band 7

Test Frequency ID	Bandwidth [MHz]	N_{UL}	Frequency of Uplink [MHz]	N_{DL}	Frequency of Downlink [MHz]
Low Range	5	20775	2502.5	2775	2622.5
	10	20800	2505	2800	2625
	15	20825	2507.5	2825	2627.5
	20 [1]	20850	2510	2850	2630
Mid Range	5/10/15 20 [1]	21100	2535	3100	2655
High Range	5	21425	2567.5	3425	2687.5
	10	21400	2565	3400	2685
	15	21375	2562.5	3375	2682.5
	20 [1]	21350	2560	3350	2680

FDD Band 12

Test Frequency ID	Bandwidth [MHz]	N_{UL}	Frequency of Uplink [MHz]	N_{DL}	Frequency of Downlink [MHz]
Low Range	1.4	23017	699.7	5017	729.7
	3	23025	700.5	5025	730.5
	5 [1]	23035	701.5	5035	731.5
	10 [1]	23060	704	5060	734
Mid Range	1.4/3 5 [1]/10 [1]	23095	707.5	5095	737.5
High Range	1.4	23173	715.3	5173	745.3
	3	23165	714.5	5165	744.5
	5 [1]	23155	713.5	5155	743.5
	10 [1]	23130	711	5130	741

FDD Band 13

Test Frequency ID	Bandwidth [MHz]	N_{UL}	Frequency of Uplink [MHz]	N_{DL}	Frequency of Downlink [MHz]
Low Range	5 [1]	23205	779.5	5205	748.5
	10 [1]	23230	782	5230	751
Mid Range	5 [1]/10 [1]	23230	782	5230	751
High Range	5 [1]	23255	784.5	5255	753.5
	10 [1]	23230	782	5230	751

FDD Band 25

Test Frequency ID	Bandwidth [MHz]	N_{UL}	Frequency of Uplink [MHz]	N_{DL}	Frequency of Downlink [MHz]
Low Range	1.4	26047	1850.7	8047	1930.7
	3	26055	1851.5	8055	1931.5
	5	26065	1852.5	8065	1932.5
	10	26090	1855	8090	1935
	15 [1]	26115	1857.5	8115	1937.5
	20 [1]	26140	1860	8140	1940
Mid Range	1.4/3/5/10 15 [1]/20 [1]	26365	1882,5	8365	1962.5
High Range	1.4	26683	1914.3	8683	1994.3
	3	26675	1913.5	8675	1993.5
	5	26665	1912.5	8665	1992.5
	10	26640	1910	8640	1990
	15 [1]	26615	1907.5	8615	1987.5
	20 [1]	26590	1905	8590	1985

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FDD Band 26 (814-824MHz)

Test Frequency ID	Bandwidth [MHz]	N_{UL}	Frequency of Uplink [MHz]	N_{DL}	Frequency of Downlink [MHz]
Low Range	1.4	26697	814.7	8697	859.7
	3	26705	815 5	8705	860.5
	5	26715	816.5	8715	861.5
Mid Range	1.4/3/5/10	26740	819	8740	864
High Range	1.4	26783	823 3	8783	868.3
	3	26775	822.5	8775	867.5
	5	26765	821.5	8765	866.5

NOTE 1: Bandwidth for which *a* relaxation of the specified UE receiver sensitivity requirement (TS 36/101 [27] Clause 7.3) is allowed.

FDD Band 26 (824-849MHz)

Test Frequency ID	Bandwidth [MHz]	N_{UL}	Frequency of Uplink [MHz]	N_{DL}	Frequency of Downlink [MHz]
Low Range	1.4	26797	824.7	8797	869.7
	3	26805	825.5	8805	870.5
	5	26815	826.5	8815	871.5
	10[1]	26840	829	8840	874
	15 [1]	26865	831.5	8865	876.5
Mid Range	1.4/3/5/10[1] 15 [1]	26915	836.5	8915	881.5
High Range	1.4	27033	848.3	9033	893.3
	3	27025	847.5	9025	892.5
	5	27015	846.5	9015	891.5
	10[1]	26990	844	8990	889
	15 [1]	26965	841.5	8965	886.5

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

TDD Band 38

Test Frequency ID	Bandwidth [MHz]	EARFCN	Frequency (UL and DL) [MHz]
Low Range	5	37775	2572.5
	10	37800	2575
	15	37825	2577.5
	20	37850	2580
Mid Range	5/10/15/20	38000	2595
High Range	5	38225	2617.5
	10	38200	2615
	15	38175	2612.5
	20	38150	2610

TDD Band 41

Test Frequency ID	Bandwidth [MHz]	EARFCN	Frequency (UL and DL) [MHz]
Low Range	5	39675	2498.5
	10	39700	2501
	15	39725	2503.5
	20	39750	2506
Mid Range	5/10/15/20	40620	2593
High Range	5	41565	2687.5
	10	41540	2685
	15	41515	2682.5
	20	41490	2680

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FDD Band 66	Test Frequency ID	Bandwidth [MHz]	N_{UL}	Frequency of Uplink [MHz]	N_{DL}	Frequency of Downlink [MHz]
	Low Range	1.4	131979	1710.7	66443	2110.7
		3	131987	1711.5	66451	2111.5
		5	131997	1712.5	66461	2112.5
		10	132022	1715	66486	2115
		15	132047	1717.5	66511	2117.5
		20	132072	1720	66536	2120
	Mid Range	1.4/3/5/10/15/20	132197	1732.5	66661	2132.5
	High Range	1.4	132415	1754.3	66879	2154.3
		3	132407	1753.5	66871	2153.5
		5	132397	1752.5	66861	2152.5
		10	132372	1750	66836	2150
		15	132347	1747.5	66811	2147.5
		20	132322	1745	66786	2145

1.5. Environmental Conditions

Temperature range:	21-25℃
Humidity range:	40-75%
Pressure range:	86-106kPa

1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Preamplifier	SKET Electronic	LNPA-0118G-45	SKET-PA-002	2025-01-13	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2025-01-14	1 Year
3.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	3 Year
4.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	3 Year
5.	Pre-amplifier	SONOMA	310N	186860	2025-01-14	1 Year
6.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
7.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	2024-09-09	1 Year
8.	MXG RF Vector Signal Generator	Agilent	N5182A	MY47420822	2025-02-21	1 Year
9.	DC Power Supply	LW	TPR-6420D	374470	2024-10-17	1 Year
10.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	2024-10-14	1 Year
11.	Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	167336	2025-02-21	1 Year
12.	High-Pass Filter	CDKMV	ZHPF-BM1100-4000-0730	B2015094550	2024-10-17	1 Year
13.	High-Pass Filter	CDKMV	ZHPF-M3.5-18G-3834	1307006523	2024-10-17	1 Year
14.	Bilog Broadband Antenna	SCHWARZBECK	VULB 9163	01109	2022-10-16	3 Year
15.	Double Ridged Horn Antenna	Chengyi Electronics Co., Ltd.	GTH-0118	351600	2024-11-01	2 Year
16.	Horn Antenna	A-INFO	LB-180400-KF	J211060628	2024-01-22	3 Year

1.7. Measurement Uncertainty

Parameter	Uncertainty
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB
Conducted Spurious Emission	1.24dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.70dB; Vertical: 4.42dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.64dB 6G-18GHz: 4.82dB 18G-40GHz: 5.62dB
The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

1.8. Description of Test Facility

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

FCC-Registration No.: 279531

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 279531.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.
Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

1.9. Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.
7. The data in this report will be synchronized with the corresponding national market supervision and management departments and cross-border e-commerce platforms as required by regulatory agencies.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

2. Summary of Test

2.1. Summary of test result

Description of Test	FCC Rules	Requirements	Result
Conducted Output Power	Part 2.1046 Part 22.913(a) Part 24.232(b) Part 27.50(b) Part 27.50(c) Part 27.50(d) Part 27.50(h) Part 90.635	N/A	Compliance
Peak-Average Ratio	Part 22.913 Part 24.232 Part 27.50	≤13dB	Compliance
Modulation Characteristics	§ 2.1047	Digital modulation	N/A
99% Occupied Bandwidth & 26 dB Bandwidth	Part 2.1049	OBW: No limit EBW: No limit	Compliance
Conducted Spurious Emission	Part 2.1051 Part 22.917 Part 24.238 Part 27.53(c)(f) Part 27.53(g) Part 27.53(h) Part 27.53(m) Part 90.691	≤ -13dBm(LTE Band5,26(824-849MHz)) ≤ -13dBm(LTE Band2,25) Refer to clause 7.1 for LTE Band13 ≤ -13dBm(LTE Band12) ≤ -13dBm(LTE Band4,66) ≤ -25dBm(LTE Band7,38,41) ≤ -13dBm(LTE Band26(814-824MHz))	Compliance
Band Edge	Part 2.1051 Part 22.917 Part 24.238 Part 27.53(c)(f) Part 27.53(g) Part 27.53(h) Part 27.53(m) Part 90.691	≤ -13dBm (LTE Band5, 26(824-849MHz)) ≤ -13dBm (LTE Band2,25) Refer to clause 8.1 for LTE Band13 ≤ -13dBm (LTE Band12) ≤ -13dBm (LTE Band4,66) Refer to clause 8.1 for LTE Band7,38, 41) Refer to clause 8.1 for LTE Band26 (814-824MHz))	Compliance
Frequency stability VS. temperature	Part 2.1055(a)(1)(b) Part 22.355 Part 24.235 Part 27.54 Part 90.213	≤ ±2.5ppm	Compliance
Frequency stability VS. voltage	Part 2.1055(d)(1)(2) Part 22.355	≤ ±2.5ppm	Compliance

	Part 24.235 Part 27.54 Part 90.213		
ERP and EIRP	Part 2.1046 Part 22.913(a) Part 24.232(c) Part 27.50(b) Part 27.50(c) Part 27.50(d) Part 27.50(h) Part 90.635	ERP≤ 7W(LTE Band 5,26(824-849MHz)) EIRP≤ 2W(LTE Band 2,25) ERP≤ 3W(LTE Band 13) ERP≤ 3W(LTE Band 12) EIRP≤ 1W(LTE Band 4, 66) EIRP≤ 2W(LTE Band 7,38,41) ERP≤ 100W(LTE Band 26(814-824MHz))	Compliance
Radiated Spurious Emission	Part 2.1053 Part 22.917 Part 24.238 Part 27.53(c)(f) Part 27.53(g) Part 27.53(h) Part 27.53(m) Part 90.691	≤ -13dBm(LTE Band5,26(824-849MHz)) ≤ -13dBm(LTE Band2,25) Refer to clause 9.1 for LTE Band13 ≤ -13dBm(LTE Band12) ≤ -13dBm(LTE Band4,66) ≤ -25dBm(LTE Band7,38,41) ≤ -13dBm(LTE Band26(814-824MHz))	Compliance

Note:

1.“N/A” is an abbreviation for Not Applicable.

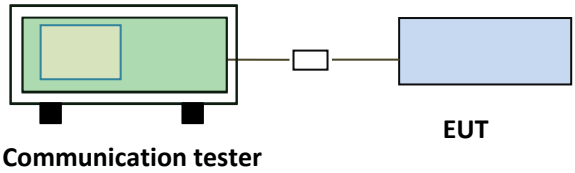
2. Testing was performed by configuring EUT to maximum output power status, the declared output power class for different

3. Conducted Output Power Test

3.1. Test Standard and Limit

Applicable Standard:	Part 2.1046 Part 22.913(a) Part 24.232(c) Part 27.50(b) Part 27.50(c) Part 27.50(d) Part 27.50(h) Part 90.635
Limit:	N/A

3.2. Test Setup



3.3. Test Procedure

1. The EUT output port was connected to communication tester.
2. Set EUT at maximum power through communication tester.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure the maximum burst average power.

3.4. Test Data

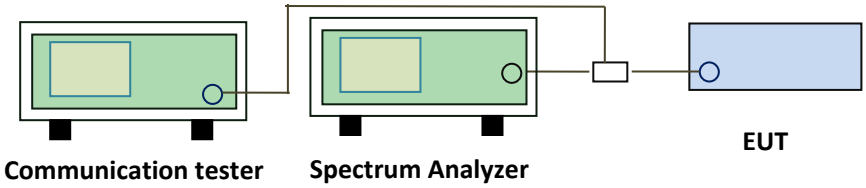
Pass
Please refer to Appendix A of the Appendix Test Data.

4. Peak-Average Ratio

4.1. Test Standard and Limit

Applicable Standard:	Part 22.913 Part 24.232 Part 27.50
Limit:	≤13dB

4.2. Test Setup



4.3. Test Procedure

According with KDB 971168 D01 Section 5.7:

1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter.
2. Set EUT in maximum power output.
3. Center Frequency = Carrier frequency, RBW > Emission bandwidth of signal.
4. The signal analyzer was set to collect one million samples to generate the CCDF curve.
5. The measurement interval was set depending on the type of signal analyzed.
   i. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms.
   ii. For burst transmissions, the spectrum analyzer is set to use an internal " RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power
6. Record the maximum PAPR level associated with a probability of 0.1%.

4.4. Test Data

Pass

Please refer to Appendix B of the Appendix Test Data.

5. Modulation Characteristic

According to FCC § 2.1047, Part 22H, Part 24E, Part 27C, Part 90S there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

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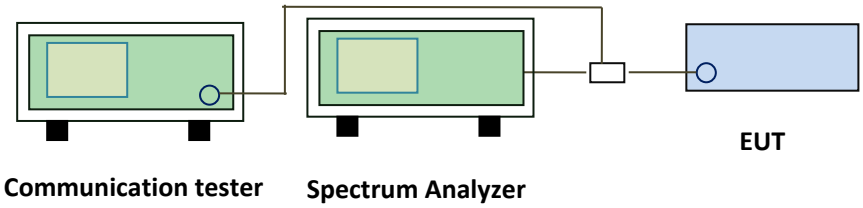
6. 99% Occupied Bandwidth & 26 dB Bandwidth

6.1. Test Standard and Limit

Applicable Standard:	Part 2.1049
Limit:	N/A

6.2. Test Setup



6.3. Test Procedure

1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter.
2. Set EUT in maximum power output.
3. Spectrum analyzer setting as follow:
   Center Frequency= Carrier frequency, RBW=1% to 5% of anticipated OBW, VBW= 3 * RBW, Detector=Peak,
   Trace maximum hold.
4. Record the value of 99% Occupied bandwidth and -26dB bandwidth.

6.4. Test Data

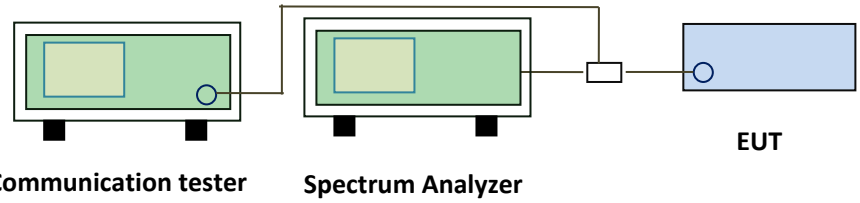
Pass
Please refer to Appendix C of the Appendix Test Data.

7. Conducted Spurious Emission

7.1. Test Standard and Limit

Applicable Standard:	Part 2.1051 Part 22.917 Part 24.238 Part 27.53(c)(f) Part 27.53(g) Part 27.53(h) Part 27.53(m) Part 90.691
Limit:	≤ -13dBm(LTE Band 5,26(824-849MHz)) ≤ -13dBm(LTE Band 2,25) ≤ -13dBm(LTE Band 12) ≤ -13dBm(LTE Band 4,66) ≤ -25dBm(LTE Band 7,38,41) ≤ -13dBm(LTE Band 26(814-824MHz)) For LTE Band 13: (1) 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; (2) For operations in the 775-788 MHz, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz. The limit of emissions is equal to -40 dBm.

7.2. Test Setup



7.3. Test Procedure

1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter.
2. Set EUT in maximum power output.
3. Spectrum analyzer setting as follow:
   Below 1GHz, RBW=100KHz, VBW = 300KHz, Detector=Peak, Sweep time= Auto
   Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peak, Sweep time= Auto
   Scan frequency range up to 10th harmonic.
4. Record the test plot.

7.4. Test Data

Pass

Please refer to Appendix E of the Appendix Test Data.

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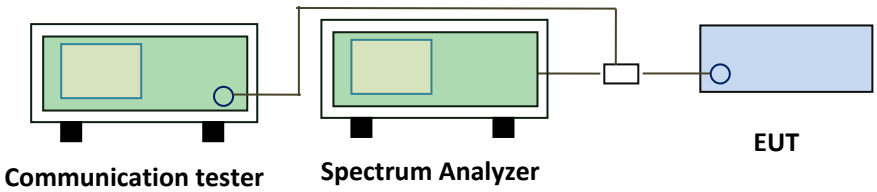
8. Band Edge

8.1. Test Standard and Limit

Applicable Standard:	Part 2.1051 Part 22.917 Part 24.238 Part 27.53(c)(f) Part 27.53(g) Part 27.53(h) Part 27.53(m) Part 90.691
Limit:	≤ -13dBm (LTE Band 5,26(824-849MHz)) ≤ -13dBm (LTE Band 2,25) ≤ -13dBm (LTE Band 12) ≤ -13dBm (LTE Band 4,66) For LTE Band 13: (1) 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; (2) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations. For LTE Band 26(814-824MHz): (1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz. (2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz. For LTE Band 7, 38, 41: For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all

	frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

8.2. Test Setup



8.3. Test Procedure

1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter.
2. Set EUT in maximum power output.
3. The band edges of low and high channels were measured.
4. Spectrum analyzer setting as follow:
   RBW=3KHz, VBW = 10KHz, Sweep time= Auto
5. Record the test plot.

8.4. Test Data

Pass

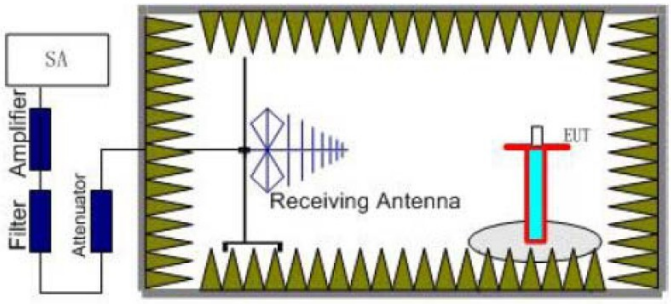
Please refer to Appendix D of the Appendix Test Data.

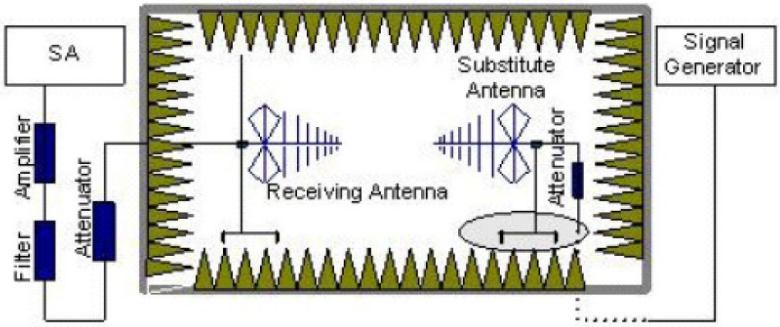
9. Radiated Spurious Emission

9.1. Test Standard and Limit

Applicable Standard:	Part 2.1053 Part 22.917 Part 24.238 Part 27.53(c)(f) Part 27.53(g) Part 27.53(h) Part 27.53(m) Part 90.691
Limit:	≤ -13dBm(LTE Band 5,26(824-849MHz)) ≤ -13dBm(LTE Band 2,25) ≤ -13dBm(LTE Band 12) ≤ -13dBm(LTE Band 4,66) ≤ -25dBm(LTE Band 7, 38, 41) ≤ -13dBm(LTE Band 26(814-824MHz)) For LTE Band 13: (1) 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; (2) For operations in the 775-788 MHz, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz. The limit of emissions is equal to -40 dBm.

9.2. Test Setup





9.3. Test Procedure

1. Place the EUT in the center of the turntable.
   a) For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table at a nominal height of 80 cm above the reference ground plane
   b) For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table at a nominal height of 1.5 m above the ground plane.
2. Unless the EUT uses an integral antenna, the EUT shall be terminated with a non-radiating transmitter load. In cases where the EUT uses an adjustable antenna, the antenna shall be adjusted through typical positions and lengths to maximize emissions levels.
3. The EUT shall be tested while operating on the frequency per manufacturer specification. Set the transmitter to operate in continuous transmit mode.
4. Receiver or Spectrum set as follow:

   Below 1GHz, RBW=100kHz, VBW=300kHz, Detector=Peak, Sweep time=Auto
   Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peck, Sweep time=Auto
5. Each emission under consideration shall be evaluated:
   a) Raise and lower the measurement antenna from 1 m to 4 m, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
   b) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
   c) Return the turntable to the azimuth where the highest emission amplitude level was observed.
   d) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
   e) Record the measured emission amplitude level and frequency
6. Repeat step 5 for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.
7. Set-up the substitution measurement with the reference point of the substitution antenna located as near as possible to where the center of the EUT radiating element was located during the initial EUT measurement.
8. Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.
9. Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by the measurement instrument, with sufficient dynamic range relative to the noise floor.
10. For each emission that was detected and measured in the initial test
    a) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.
    b) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step 5 and step 6.
    c) Record the output power level of the signal generator when equivalence is achieved in step b).
11. Repeat step 8 through step 10 with the measurement antenna oriented in the opposite polarization.
12. Calculate the emission power in dBm referenced to a half-wave dipole using the following equation:

    Pe = Ps(dBm) − cable loss (dB) + antenna gain (dBd)

where

Pe = equivalent emission power in dBm

Ps = source (signal generator) power in dBm

NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.

13. Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from:

    gain (dBd) = gain (dBi) − 2.15 dB.

    If necessary, the antenna gain can be calculated from calibrated antenna factor information

14. Provide the complete measurement results as a part of the test report.

9.4. 7Test Data

Pass

Please to see the following pages

All mode are tested, and the report only shows the worst mode of QPSK.

Test frequency through the range from 30MHz to the 10th harmonic, all noise floor will not be recorded in the report.

LTE Band 2								
Bandwidth	Channel	Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
			Polarization	reading (dBm)	factor (dB)	Level (dBm)		
1.4MHz	Low	3701.40	Vertical	-49.57	13.21	-36.36	-13.00	PASS
		5552.10	V	-56.77	16.61	-40.16		
		7402.80	V	-59.01	18.03	-40.98		
		3701.40	Horizontal	-50.12	13.21	-36.91	-13.00	PASS
		5552.10	H	-57.29	16.61	-40.68		
		7402.80	H	-59.45	18.03	-41.42		
	Mid	3760.00	Vertical	-48.31	12.36	-35.95	-13.00	PASS
		5640.00	V	-56.80	17.03	-39.77		
		7520.00	V	-58.46	17.85	-40.61		
		3760.00	Horizontal	-48.76	12.36	-36.40	-13.00	PASS
		5640.00	H	-57.30	17.03	-40.27		
		7520.00	H	-58.88	17.85	-41.03		
	High	3818.60	Vertical	-48.02	12.78	-35.24	-13.00	PASS
		5727.90	V	-56.99	17.86	-39.13		
		7637.20	V	-58.56	18.56	-40.00		
		3818.60	Horizontal	-48.93	12.78	-36.15	-13.00	PASS
		5727.90	H	-57.90	17.86	-40.04		
		7637.20	H	-59.39	18.56	-40.83		
3MHz	Low	3703.00	Vertical	-47.56	12.78	-34.78	-13.00	PASS
		5554.50	V	-54.53	16.69	-37.84		
		7406.00	V	-57.24	18.18	-39.06		
		3703.00	Horizontal	-47.81	12.78	-35.03	-13.00	PASS
		5554.50	H	-55.40	16.69	-38.71		
		7406.00	H	-58.32	18.18	-40.14		
	Mid	3760.00	Vertical	-46.31	12.79	-33.52	-13.00	PASS
		5640.00	V	-53.37	16.72	-36.65		
		7520.00	V	-55.98	18.22	-37.76		
		3760.00	Horizontal	-46.77	12.79	-33.98	-13.00	PASS
		5640.00	H	-54.69	16.72	-37.97		
		7520.00	H	-57.51	18.22	-39.29		
	High	3817.00	Vertical	-45.29	12.93	-32.36	-13.00	PASS
		5725.50	V	-52.82	17.01	-35.81		
		7634.00	V	-55.62	18.41	-37.21		
		3817.00	Horizontal	-45.80	12.93	-32.87	-13.00	PASS

		5725.50	H	-54.14	17.01	-37.13		
		7634.00	H	-56.21	18.41	-37.80		
5MHz	Low	3705.00	Vertical	-44.37	13.25	**-31.12**	-13.00	PASS
		5557.50	V	-50.51	16.59	-33.92		
		7410.00	V	-53.91	18.12	-35.79		
		3705.00	Horizontal	-47.07	13.25	-33.82	-13.00	PASS
		5557.50	H	-55.40	16.59	-38.81		
		7410.00	H	-56.75	18.12	-38.63		
	Mid	3760.00	Vertical	-44.04	12.31	-31.73	-13.00	PASS
		5640.00	V	-52.19	17.14	-35.05		
		7520.00	V	-54.72	17.96	-36.76		
		3760.00	Horizontal	-47.54	12.31	-35.23	-13.00	PASS
		5640.00	H	-56.90	17.14	-39.76		
		7520.00	H	-57.32	17.96	-39.36		
	High	3815.00	Vertical	-46.03	12.77	-33.26	-13.00	PASS
		5722.50	V	-53.96	17.82	-36.14		
		7630.00	V	-56.29	18.59	-37.70		
		3815.00	Horizontal	-49.10	12.77	-36.33	-13.00	PASS
		5722.50	H	-58.60	17.82	-40.78		
		7630.00	H	-58.73	18.59	-40.14		
10MHz	Low	3710.00	Vertical	-44.83	12.59	-32.24	-13.00	PASS
		5565.00	V	-52.20	16.61	-35.59		
		7420.00	V	-55.39	18.35	-37.04		
		3710.00	Horizontal	-50.48	12.59	-37.89	-13.00	PASS
		5565.00	H	-58.46	16.61	-41.85		
		7420.00	H	-59.72	18.35	-41.37		
	Mid	3760.00	Vertical	-46.16	12.71	-33.45	-13.00	PASS
		5640.00	V	-53.25	16.65	-36.60		
		7520.00	V	-56.53	18.27	-38.26		
		3760.00	Horizontal	-51.40	12.71	-38.69	-13.00	PASS
		5640.00	H	-59.69	16.65	-43.04		
		7520.00	H	-60.58	18.27	-42.31		
	High	3810.00	Vertical	-46.81	12.91	-33.90	-13.00	PASS
		5715.00	V	-54.84	17.23	-37.61		
		7620.00	V	-58.02	18.59	-39.43		
		3810.00	Horizontal	-50.64	12.91	-37.73	-13.00	PASS
		5715.00	H	-59.71	17.23	-42.48		

		7620.00	H	-60.15	18.59	-41.56		
15MHz	Low	3715.00	Vertical	-46.29	13.21	-33.08	-13.00	PASS
		5572.50	V	-53.52	16.65	-36.87		
		7430.00	V	-56.93	18.29	-38.64		
		3715.00	Horizontal	-51.72	13.21	-38.51	-13.00	PASS
		5572.50	H	-59.86	16.65	-43.21		
		7430.00	H	-60.47	18.29	-42.18		
	Mid	3760.00	Vertical	-46.05	12.39	-33.66	-13.00	PASS
		5640.00	V	-54.60	17.18	-37.42		
		7520.00	V	-57.15	17.99	-39.16		
		3760.00	Horizontal	-50.16	12.39	-37.77	-13.00	PASS
		5640.00	H	-59.62	17.18	-42.44		
		7520.00	H	-59.74	17.99	-41.75		
	High	3805.00	Vertical	-45.91	12.86	-33.05	-13.00	PASS
		5707.50	V	-54.17	17.89	-36.28		
		7610.00	V	-56.72	18.69	-38.03		
		3805.00	Horizontal	-51.60	12.86	-38.74	-13.00	PASS
		5707.50	H	-61.90	17.89	-44.01		
		7610.00	H	-62.05	18.69	-43.36		
20MHz	Low	3720.00	Vertical	-46.58	12.57	-34.01	-13.00	PASS
		5580.00	V	-53.96	16.59	-37.37		
		7440.00	V	-57.52	18.67	-38.85		
		3720.00	Horizontal	-51.75	12.57	-39.18	-13.00	PASS
		5580.00	H	-61.02	16.59	-44.43		
		7440.00	H	-62.38	18.67	-43.71		
	Mid	3760.00	Vertical	-47.10	12.76	-34.34	-13.00	PASS
		5640.00	V	-54.37	16.69	-37.68		
		7520.00	V	-57.52	18.38	-39.14		
		3760.00	Horizontal	-52.23	12.76	-39.47	-13.00	PASS
		5640.00	H	-61.36	16.69	-44.67		
		7520.00	H	-62.31	18.38	-43.93		
	High	3800.00	Vertical	-46.61	12.97	-33.64	-13.00	PASS
		5700.00	V	-53.93	17.19	-36.74		
		7600.00	V	-56.74	18.28	-38.46		
		3800.00	Horizontal	-52.75	12.97	-39.78	-13.00	PASS
		5700.00	H	-62.15	17.19	-44.96		
		7600.00	H	-62.46	18.28	-44.18		

LTE Band 4								
Bandwidth	Channel	Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
			Polarization	reading (dBm)	factor (dB)	Level (dBm)		
1.4MHz	Low	3421.40	Vertical	-47.60	12.89	-34.71	-13.00	PASS
		5132.10	V	-55.43	15.86	-39.57		
		6842.80	V	-59.42	18.92	-40.50		
		3421.40	Horizontal	-48.09	12.89	-35.20	-13.00	PASS
		5132.10	H	-55.89	15.86	-40.03		
		6842.80	H	-59.81	18.92	-40.89		
	Mid	3465.00	Vertical	-46.83	12.49	-34.34	-13.00	PASS
		5197.50	V	-54.93	15.71	-39.22		
		6930.00	V	-58.44	18.26	-40.18		
		3465.00	Horizontal	-47.24	12.49	-34.75	-13.00	PASS
		5197.50	H	-55.38	15.71	-39.67		
		6930.00	H	-58.80	18.26	-40.54		
	High	3508.60	Vertical	-46.72	13.01	**-33.71**	-13.00	PASS
		5262.90	V	-54.54	15.89	-38.65		
		7017.20	V	-58.31	18.67	-39.64		
		3508.60	Horizontal	-47.25	13.01	-34.24	-13.00	PASS
		5262.90	H	-55.07	15.89	-39.18		
		7017.20	H	-58.75	18.67	-40.08		
3MHz	Low	3423.00	Vertical	-47.24	12.74	-34.50	-13.00	PASS
		5134.50	V	-55.03	15.68	-39.35		
		6846.00	V	-58.92	18.59	-40.33		
		3423.00	Horizontal	-47.60	12.74	-34.86	-13.00	PASS
		5134.50	H	-55.85	15.68	-40.17		
		6846.00	H	-59.42	18.59	-40.83		
	Mid	3465.00	Vertical	-47.81	12.49	-35.32	-13.00	PASS
		5197.50	V	-56.06	15.89	-40.17		
		6930.00	V	-59.62	18.66	-40.96		
		3465.00	Horizontal	-48.92	12.49	-36.43	-13.00	PASS
		5197.50	H	-57.17	15.89	-41.28		
		6930.00	H	-60.78	18.66	-42.12		
	High	3507.00	Vertical	-49.31	13.44	-35.87	-13.00	PASS
		5260.50	V	-56.56	15.89	-40.67		
		7014.00	V	-59.83	18.39	-41.44		

		3507.00	Horizontal	-50.63	13.44	-37.19	-13.00	PASS
		5260.50	H	-58.03	15.89	-42.14		
		7014.00	H	-61.14	18.39	-42.75		
5MHz	Low	3425.00	Vertical	-47.73	12.87	-34.86	-13.00	PASS
		5137.50	V	-55.78	15.85	-39.93		
		6850.00	V	-59.37	18.93	-40.44		
		3425.00	Horizontal	-49.66	12.87	-36.79	-13.00	PASS
		5137.50	H	-58.37	15.85	-42.52		
		6850.00	H	-61.36	18.93	-42.43		
	Mid	3465.00	Vertical	-47.63	12.47	-35.16	-13.00	PASS
		5197.50	V	-55.35	15.7	-39.65		
		6930.00	V	-59.00	18.29	-40.71		
		3465.00	Horizontal	-49.61	12.47	-37.14	-13.00	PASS
		5197.50	H	-57.93	15.7	-42.23		
		6930.00	H	-60.51	18.29	-42.22		
	High	3505.00	Vertical	-48.01	13.29	-34.72	-13.00	PASS
		5257.50	V	-55.91	15.86	-40.05		
		7010.00	V	-58.96	18.63	-40.33		
		3505.00	Horizontal	-50.15	13.29	-36.86	-13.00	PASS
		5257.50	H	-57.82	15.86	-41.96		
		7010.00	H	-60.62	18.63	-41.99		
10MHz	Low	3430.00	Vertical	-46.67	12.72	-33.95	-13.00	PASS
		5145.00	V	-56.13	15.61	-40.52		
		6860.00	V	-58.66	18.62	-40.04		
		3430.00	Horizontal	-49.84	12.72	-37.12	-13.00	PASS
		5145.00	H	-57.81	15.61	-42.20		
		6860.00	H	-60.82	18.62	-42.20		
	Mid	3465.00	Vertical	-46.55	12.41	-34.14	-13.00	PASS
		5197.50	V	-56.62	15.92	-40.70		
		6930.00	V	-59.20	18.63	-40.57		
		3465.00	Horizontal	-49.74	12.41	-37.33	-13.00	PASS
		5197.50	H	-58.29	15.92	-42.37		
		6930.00	H	-60.99	18.63	-42.36		
	High	3500.00	Vertical	-47.81	13.41	-34.40	-13.00	PASS
		5250.00	V	-56.53	15.59	-40.94		
		7000.00	V	-59.11	18.31	-40.80		
		3500.00	Horizontal	-50.94	13.41	-37.53	-13.00	PASS

		5250.00	H	-58.15	15.59	-42.56		
		7000.00	H	-60.83	18.31	-42.52		
15MHz	Low	3435.00	Vertical	-47.98	12.89	-35.09	-13.00	PASS
		5152.50	V	-56.10	15.86	-40.24		
		6870.00	V	-60.30	18.95	-41.35		
		3435.00	Horizontal	-49.81	12.89	-36.92	-13.00	PASS
		5152.50	H	-59.00	15.86	-43.14		
		6870.00	H	-60.40	18.95	-41.45		
	Mid	3465.00	Vertical	-48.58	12.49	-36.09	-13.00	PASS
		5197.50	V	-55.03	15.73	-39.30		
		6930.00	V	-60.55	18.31	-42.24		
		3465.00	Horizontal	-48.63	12.49	-36.14	-13.00	PASS
		5197.50	H	-59.50	15.73	-43.77		
		6930.00	H	-59.16	18.31	-40.85		
	High	3495.00	Vertical	-50.15	13.32	-36.83	-13.00	PASS
		5242.50	V	-54.51	15.88	-38.63		
		6990.00	V	-60.25	18.65	-41.60		
		3495.00	Horizontal	-48.73	13.32	-35.41	-13.00	PASS
		5242.50	H	-58.24	15.88	-42.36		
		6990.00	H	-59.15	18.65	-40.50		
20MHz	Low	3440.00	Vertical	-48.45	12.74	-35.71	-13.00	PASS
		5160.00	V	-54.03	15.65	-38.38		
		6880.00	V	-60.02	18.64	-41.38		
		3440.00	Horizontal	-48.85	12.74	-36.11	-13.00	PASS
		5160.00	H	-58.56	15.65	-42.91		
		6880.00	H	-59.30	18.64	-40.66		
	Mid	3465.00	Vertical	-48.33	12.44	-35.89	-13.00	PASS
		5197.50	V	-54.39	15.93	-38.46		
		6930.00	V	-60.10	18.64	-41.46		
		3465.00	Horizontal	-48.66	12.44	-36.22	-13.00	PASS
		5197.50	H	-58.95	15.93	-43.02		
		6930.00	H	-60.43	18.64	-41.79		
	High	3490.00	Vertical	-50.05	13.43	-36.62	-13.00	PASS
		5235.00	V	-54.67	15.61	-39.06		
		6980.00	V	-60.34	18.34	-42.00		
		3490.00	Horizontal	-50.16	13.43	-36.73	-13.00	PASS
		5235.00	H	-58.76	15.61	-43.15		

		6980.00	H	-60.59	18.34	-42.25		

LTE Band 5								
Bandwidth	Channel	Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
			Polarization	reading (dBm)	factor (dB)	Level (dBm)		
1.4MHz	Low	1649.40	Vertical	-43.39	7.29	-36.10	-13.00	PASS
		2474.10	V	-52.90	9.41	-43.49		
		3298.80	V	-56.98	12.69	-44.29		
		1649.40	Horizontal	-44.55	7.29	-37.26	-13.00	PASS
		2474.10	H	-54.26	9.41	-44.85		
		3298.80	H	-58.22	12.69	-45.53		
	Mid	1673.00	Vertical	-43.08	7.32	-35.76	-13.00	PASS
		2509.50	V	-52.56	9.39	-43.17		
		3346.00	V	-56.70	12.78	-43.92		
		1673.00	Horizontal	-44.23	7.32	-36.91	-13.00	PASS
		2509.50	H	-53.91	9.39	-44.52		
		3346.00	H	-58.00	12.78	-45.22		
	High	1696.60	Vertical	-42.70	7.33	-35.37	-13.00	PASS
		2544.90	V	-52.31	9.46	-42.85		
		3393.20	V	-56.33	12.71	-43.62		
		1696.60	Horizontal	-42.87	7.33	-35.54	-13.00	PASS
		2544.90	H	-52.15	9.46	-42.69		
		3393.20	H	-56.61	12.71	-43.90		
3MHz	Low	1651.00	Vertical	-42.02	7.36	-34.66	-13.00	PASS
		2476.50	V	-51.69	9.51	-42.18		
		3302.00	V	-55.77	12.72	-43.05		
		1651.00	Horizontal	-42.43	7.36	-35.07	-13.00	PASS
		2476.50	H	-51.76	9.51	-42.25		
		3302.00	H	-56.25	12.72	-43.53		
	Mid	1673.00	Vertical	-41.72	7.41	-34.31	-13.00	PASS
		2509.50	V	-51.37	9.52	-41.85		
		3346.00	V	-55.47	12.73	-42.74		
		1673.00	Horizontal	-41.85	7.41	-34.44	-13.00	PASS
		2509.50	H	-51.26	9.52	-41.74		
		3346.00	H	-55.78	12.73	-43.05		
	High	1695.00	Vertical	-41.06	7.52	-33.54	-13.00	PASS

		2542.50	V	-50.61	9.46	-41.15		
		3390.00	V	-54.88	12.81	-42.07		
		1695.00	Horizontal	-41.39	7.52	-33.87	-13.00	PASS
		2542.50	H	-50.66	9.46	-41.20		
		3390.00	H	-55.40	12.81	-42.59		
5MHz	Low	1653.00	Vertical	-39.72	7.61	**-32.11**	-13.00	PASS
		2479.50	V	-49.75	9.49	-40.26		
		3306.00	V	-53.76	12.86	-40.90		
		1653.00	Horizontal	-41.82	7.61	-34.21	-13.00	PASS
		2479.50	H	-51.01	9.49	-41.52		
		3306.00	H	-55.72	12.86	-42.86		
	Mid	1673.00	Vertical	-40.09	7.72	-32.37	-13.00	PASS
		2509.50	V	-50.03	9.53	-40.50		
		3346.00	V	-53.97	12.84	-41.13		
		1673.00	Horizontal	-42.08	7.72	-34.36	-13.00	PASS
		2509.50	H	-51.17	9.53	-41.64		
		3346.00	H	-55.82	12.84	-42.98		
	High	1693.00	Vertical	-40.48	7.79	-32.69	-13.00	PASS
		2539.50	V	-50.32	9.53	-40.79		
		3386.00	V	-54.29	12.89	-41.40		
		1693.00	Horizontal	-41.56	7.79	-33.77	-13.00	PASS
		2539.50	H	-50.61	9.53	-41.08		
		3386.00	H	-55.40	12.89	-42.51		
10MHz	Low	1658.00	Vertical	-40.10	7.81	-32.29	-13.00	PASS
		2487.00	V	-50.01	9.56	-40.45		
		3316.00	V	-54.02	12.91	-41.11		
		1658.00	Horizontal	-42.04	7.81	-34.23	-13.00	PASS
		2487.00	H	-51.07	9.56	-41.51		
		3316.00	H	-55.79	12.91	-42.88		
	Mid	1673.00	Vertical	-40.47	7.83	-32.64	-13.00	PASS
		2509.50	V	-50.37	9.59	-40.78		
		3346.00	V	-54.36	12.94	-41.42		
		1673.00	Horizontal	-42.25	7.83	-34.42	-13.00	PASS
		2509.50	H	-51.25	9.59	-41.66		
		3346.00	H	-55.97	12.94	-43.03		
	High	1688.00	Vertical	-40.76	7.89	-32.87	-13.00	PASS
		2532.00	V	-50.61	9.62	-40.99		

		3376.00	V	-54.58	12.96	-41.62		
		1688.00	Horizontal	-42.49	7.89	-34.60	-13.00	PASS
		2532.00	H	-51.45	9.62	-41.83		
		3376.00	H	-56.13	12.96	-43.17		

LTE Band 7								
Bandwidth	Channel	Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
			Polarization	reading (dBm)	factor (dB)	Level (dBm)		
5MHz	Low	5005.00	Vertical	-55.73	15.62	-40.11	-25.00	PASS
		7507.50	V	-58.42	17.86	-40.56		
		10010.00	V	-66.02	23.84	-42.18		
		5005.00	Horizontal	-57.09	15.62	-41.47	-25.00	PASS
		7507.50	H	-60.09	17.86	-42.23		
		10010.00	H	-67.01	23.84	-43.17		
	Mid	5070.00	Vertical	-55.08	15.66	-39.42	-25.00	PASS
		7605.00	V	-57.41	17.87	-39.54		
		10140.00	V	-65.21	23.88	-41.33		
		5070.00	Horizontal	-55.25	15.66	-39.59	-25.00	PASS
		7605.00	H	-58.51	17.87	-40.64		
		10140.00	H	-65.98	23.88	-42.10		
	High	5135.00	Vertical	-53.17	15.69	-37.48	-25.00	PASS
		7702.50	V	-55.66	17.88	-37.78		
		10270.00	V	-63.57	23.91	-39.66		
		5135.00	Horizontal	-53.99	15.69	-38.30	-25.00	PASS
		7702.50	H	-57.31	17.88	-39.43		
		10270.00	H	-64.98	23.91	-41.07		
10MHz	Low	5010.00	Vertical	-52.31	15.71	-36.60	-25.00	PASS
		7515.00	V	-54.96	17.92	-37.04		
		10020.00	V	-62.97	23.94	-39.03		
		5010.00	Horizontal	-54.74	15.71	-39.03	-25.00	PASS
		7515.00	H	-58.04	17.92	-40.12		
		10020.00	H	-65.59	23.94	-41.65		
	Mid	5070.00	Vertical	-52.81	15.66	-37.15	-25.00	PASS
		7605.00	V	-55.42	17.87	-37.55		
		10140.00	V	-63.39	23.88	-39.51		
		5070.00	Horizontal	-55.57	15.66	-39.91	-25.00	PASS

		7605.00	H	-58.7	17.87	-40.83		
		10140.00	H	-66.21	23.88	-42.33		
	High	5130.00	Vertical	-53.84	15.79	-38.05	-25.00	PASS
		7695.00	V	-56.35	17.98	-38.37		
		10260.00	V	-64.3	24.02	-40.28		
		5130.00	Horizontal	-56.28	15.79	-40.49	-25.00	PASS
		7695.00	H	-59.36	17.98	-41.38		
		10260.00	H	-66.81	24.02	-42.79		
15MHz	Low	5015.00	Vertical	-50.75	15.81	-34.94	-25.00	PASS
		7522.50	V	-57.30	17.96	-39.34		
		10030.00	V	-61.67	24.11	-37.56		
		5015.00	Horizontal	-56.10	15.81	-40.29	-25.00	PASS
		7522.50	H	-56.03	17.96	-38.07		
		10030.00	H	-66.62	24.11	-42.51		
	Mid	5070.00	Vertical	-51.15	15.66	-35.49	-25.00	PASS
		7605.00	V	-52.87	17.87	-35.00		
		10140.00	V	-61.19	23.88	-37.31		
		5070.00	Horizontal	-57.44	15.66	-41.78	-25.00	PASS
		7605.00	H	-59.97	17.87	-42.10		
		10140.00	H	-67.18	23.88	-43.30		
	High	5125.00	Vertical	-50.46	15.88	-34.58	-25.00	PASS
		7687.50	V	-53.93	18.03	-35.90		
		10250.00	V	-62.31	24.16	-38.15		
		5125.00	Horizontal	-53.88	15.88	-38.00	-25.00	PASS
		7687.50	H	-57.10	18.03	-39.07		
		10250.00	H	-65.20	24.16	-41.04		
20MHz	Low	5020.00	Vertical	-52.22	16.03	-36.19	-25.00	PASS
		7530.00	V	-58.12	18.11	-40.01		
		10040.00	V	-61.94	24.19	-37.75		
		5020.00	Horizontal	-54.42	16.03	-38.39	-25.00	PASS
		7530.00	H	-54.88	18.11	-36.77		
		10040.00	H	-65.20	24.19	-41.01		
	Mid	5070.00	Vertical	-50.93	15.66	-35.27	-25.00	PASS
		7605.00	V	-52.69	17.87	-34.82		
		10140.00	V	-61.09	23.88	-37.21		
		5070.00	Horizontal	-56.47	15.66	-40.81	-25.00	PASS
		7605.00	H	-58.52	17.87	-40.65		
		10140.00	H	-66.03	23.88	-42.15		

	High	5120.00	Vertical	-50.47	16.15	**-34.32**	-25.00	PASS
		7680.00	V	-54.03	18.19	-35.84		
		10240.00	V	-62.34	24.26	-38.08		
		5120.00	Horizontal	-55.32	16.15	-39.17	-25.00	PASS
		7680.00	H	-57.94	18.19	-39.75		
		10240.00	H	-66.21	24.26	-41.95		

LTE Band 12								
Bandwidth	Channel	Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
			Polarization	reading (dBm)	factor (dB)	Level (dBm)		
1.4MHz	Low	1399.40	Vertical	-40.02	4.21	-35.81	-13.00	PASS
		2099.10	V	-48.56	9.12	-39.44		
		2798.80	V	-51.83	11.36	-40.47		
		1399.40	Horizontal	-41.31	4.21	-37.10	-13.00	PASS
		2099.10	H	-49.77	9.12	-40.65		
		2798.80	H	-52.86	11.36	-41.50		
	Mid	1415.00	Vertical	-39.10	4.26	-34.84	-13.00	PASS
		2122.50	V	-47.68	9.15	-38.53		
		2830.00	V	-51.00	11.39	-39.61		
		1415.00	Horizontal	-40.18	4.26	-35.92	-13.00	PASS
		2122.50	H	-48.84	9.15	-39.69		
		2830.00	H	-51.98	11.39	-40.59		
	High	1430.60	Vertical	-37.48	4.29	-33.19	-13.00	PASS
		2145.90	V	-46.14	9.11	-37.03		
		2861.20	V	-49.49	11.31	-38.18		
		1430.60	Horizontal	-39.63	4.29	-35.34	-13.00	PASS
		2145.90	H	-48.26	9.11	-39.15		
		2861.20	H	-51.44	11.31	-40.13		
3MHz	Low	1401.00	Vertical	-36.44	4.32	-32.12	-13.00	PASS
		2101.50	V	-43.17	9.16	-34.01		
		2802.00	V	-47.33	11.35	-35.98		
		1401.00	Horizontal	-37.05	4.32	-32.73	-13.00	PASS
		2101.50	H	-45.21	9.16	-36.05		
		2802.00	H	-49.86	11.35	-38.51		
	Mid	1415.00	Vertical	-33.43	4.26	-29.17	-13.00	PASS
		2122.50	V	-40.38	9.15	-31.23		

		2830.00	V	-44.33	11.39	-32.94		
		1415.00	Horizontal	-34.53	4.26	-30.27	-13.00	PASS
		2122.50	H	-43.48	9.15	-34.33		
		2830.00	H	-47.92	11.39	-36.53		
	High	1429.00	Vertical	-30.89	4.42	-26.47	-13.00	PASS
		2143.50	V	-38.52	9.25	-29.27		
		2858.00	V	-43.12	11.46	-31.66		
		1429.00	Horizontal	-32.10	4.42	-27.68	-13.00	PASS
		2143.50	H	-41.61	9.25	-32.36		
		2858.00	H	-44.52	11.46	-33.06		
5MHz	Low	1403.00	Vertical	-27.70	4.13	**-23.57**	-13.00	PASS
		2104.50	V	-33.92	9.06	-24.86		
		2806.00	V	-39.62	11.27	-28.35		
		1403.00	Horizontal	-34.02	4.13	-29.89	-13.00	PASS
		2104.50	H	-45.35	9.06	-36.29		
		2806.00	H	-46.26	11.27	-34.99		
	Mid	1415.00	Vertical	-29.25	4.26	-24.99	-13.00	PASS
		2122.50	V	-36.64	9.15	-27.49		
		2830.00	V	-42.02	11.39	-30.63		
		1415.00	Horizontal	-37.43	4.26	-33.17	-13.00	PASS
		2122.50	H	-47.67	9.15	-38.52		
		2830.00	H	-48.08	11.39	-36.69		
	High	1427.00	Vertical	-32.79	4.22	-28.57	-13.00	PASS
		2140.50	V	-39.20	9.16	-30.04		
		2854.00	V	-44.14	11.32	-32.82		
		1427.00	Horizontal	-39.96	4.22	-35.74	-13.00	PASS
		2140.50	H	-50.06	9.16	-40.90		
		2854.00	H	-49.82	11.32	-38.50		
10MHz	Low	1408.00	Vertical	-30.48	4.29	-26.19	-13.00	PASS
		2112.00	V	-37.94	9.19	-28.75		
		2816.00	V	-42.62	11.35	-31.27		
		1408.00	Horizontal	-43.67	4.29	-39.38	-13.00	PASS
		2112.00	H	-52.58	9.19	-43.39		
		2816.00	H	-52.71	11.35	-41.36		
	Mid	1415.00	Vertical	-33.27	4.26	-29.01	-13.00	PASS
		2122.50	V	-40.26	9.15	-31.11		
		2830.00	V	-45.50	11.39	-34.11		

		1415.00	Horizontal	-45.50	4.26	-41.24	-13.00	PASS
		2122.50	H	-55.31	9.15	-46.16		
		2830.00	H	-54.94	11.39	-43.55		
	High	1422.00	Vertical	-34.42	4.36	-30.06	-13.00	PASS
		2133.00	V	-42.74	9.27	-33.47		
		2844.00	V	-48.24	11.39	-36.85		
		1422.00	Horizontal	-43.35	4.36	-38.99	-13.00	PASS
		2133.00	H	-54.12	9.27	-44.85		
		2844.00	H	-53.20	11.39	-41.81		

LTE Band 13								
Bandwidth	Channel	Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
			Polarization	reading (dBm)	factor (dB)	Level (dBm)		
5MHz	Low	1559.00	Vertical	-59.53	4.98	-54.55	-40.00	PASS
		2338.50	V	-49.20	9.12	-40.08	-13.00	
		3118.00	V	-53.20	12.46	-40.74		
		1559.00	Horizontal	-60.59	4.98	-55.61	-40.00	PASS
		2338.50	H	-50.20	9.12	-41.08	-13.00	
		3118.00	H	-54.05	12.46	-41.59		
	Mid	1564.00	Vertical	-58.78	5.03	-53.75	-40.00	PASS
		2346.00	V	-48.52	9.19	-39.33	-13.00	
		3128.00	V	-52.51	12.47	-40.04		
		1564.00	Horizontal	-59.67	5.03	-54.64	-40.00	PASS
		2346.00	H	-49.48	9.19	-40.29	-13.00	
		3128.00	H	-53.31	12.47	-40.84		
	High	1569.00	Vertical	-57.48	5.09	-52.39	-40.00	PASS
		2353.50	V	-47.32	9.22	-38.10	-13.00	
		3138.00	V	-51.40	12.53	-38.87		
		1569.00	Horizontal	-59.26	5.09	-54.17	-40.00	PASS
		2353.50	H	-49.06	9.22	-39.84	-13.00	
		3138.00	H	-52.99	12.53	-40.46		
10MHz	Mid	1564.00	Vertical	-56.54	5.03	-51.51	-40.00	PASS
		2346.00	V	-44.81	9.19	**-35.62**	-13.00	
		3128.00	V	-49.53	12.47	-37.06		
		1564.00	Horizontal	-57.05	5.03	-52.02	-40.00	PASS
		2346.00	H	-46.48	9.19	-37.29	-13.00	
		3128.00	H	-51.60	12.47	-39.13		

LTE Band 25								
Bandwidth	Channel	Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
			Polarization	reading (dBm)	factor (dB)	Level (dBm)		
1.4MHz	Low	3701.40	Vertical	-49.71	13.44	-36.27	-13.00	PASS
		5552.10	V	-56.71	16.65	-40.06		
		7402.80	V	-58.70	17.79	-40.91		
		3701.40	Horizontal	-50.37	13.44	-36.93	-13.00	PASS
		5552.10	H	-57.33	16.65	-40.68		
		7402.80	H	-59.23	17.79	-41.44		
	Mid	3765.00	Vertical	-49.29	13.52	-35.77	-13.00	PASS
		5647.50	V	-56.26	16.67	-39.59		
		7530.00	V	-58.32	17.85	-40.47		
		3765.00	Horizontal	-49.84	13.52	-36.32	-13.00	PASS
		5647.50	H	-56.86	16.67	-40.19		
		7530.00	H	-58.82	17.85	-40.97		
	High	3828.60	Vertical	-48.53	13.61	-34.92	-13.00	PASS
		5742.90	V	-55.52	16.70	-38.82		
		7657.20	V	-57.62	17.88	-39.74		
		3828.60	Horizontal	-49.63	13.61	-36.02	-13.00	PASS
		5742.90	H	-56.61	16.70	-39.91		
		7657.20	H	-58.61	17.88	-40.73		
3MHz	Low	3703.00	Vertical	-47.86	13.49	-34.37	-13.00	PASS
		5554.50	V	-53.90	16.63	-37.27		
		7406.00	V	-56.41	17.80	-38.61		
		3703.00	Horizontal	-48.17	13.49	-34.68	-13.00	PASS
		5554.50	H	-54.95	16.63	-38.32		
		7406.00	H	-57.70	17.80	-39.90		
	Mid	3765.00	Vertical	-46.37	13.52	-32.85	-13.00	PASS
		5647.50	V	-52.51	16.67	-35.84		
		7530.00	V	-54.90	17.85	-37.05		
		3765.00	Horizontal	-46.93	13.52	-33.41	-13.00	PASS
		5647.50	H	-54.10	16.67	-37.43		
		7530.00	H	-56.73	17.85	-38.88		
	High	3827.00	Vertical	-45.09	13.63	-31.46	-13.00	PASS
		5740.50	V	-51.54	16.71	-34.83		
		7654.00	V	-54.24	17.85	-36.39		
		3827.00	Horizontal	-45.71	13.63	-32.08	-13.00	PASS
		5740.50	H	-53.13	16.71	-36.42		
		7654.00	H	-54.94	17.85	-37.09		

5MHz	Low	3705.00	Vertical	-43.49	13.52	**-29.97**	-13.00	PASS
		5557.50	V	-49.22	16.66	-32.56		
		7410.00	V	-52.51	17.82	-34.69		
		3705.00	Horizontal	-46.74	13.52	-33.22	-13.00	PASS
		5557.50	H	-55.10	16.66	-38.44		
		7410.00	H	-55.90	17.82	-38.08		
	Mid	3765.00	Vertical	-44.22	13.52	-30.70	-13.00	PASS
		5647.50	V	-50.59	16.67	-33.92		
		7530.00	V	-53.71	17.85	-35.86		
		3765.00	Horizontal	-48.43	13.52	-34.91	-13.00	PASS
		5647.50	H	-56.26	16.67	-39.59		
		7530.00	H	-56.81	17.85	-38.96		
	High	17330.00	Vertical	-46.20	13.66	-32.54	-13.00	PASS
		5737.50	V	-52.03	16.80	-35.23		
		7650.00	V	-54.89	17.90	-36.99		
		3825.00	Horizontal	-49.89	13.66	-36.23	-13.00	PASS
		5737.50	H	-57.62	16.80	-40.82		
		7650.00	H	-57.79	17.90	-39.89		
10MHz	Low	3710.00	Vertical	-44.86	13.55	-31.31	-13.00	PASS
		5565.00	V	-51.17	16.60	-34.57		
		7420.00	V	-54.04	17.85	-36.19		
		3710.00	Horizontal	-51.65	13.55	-38.10	-13.00	PASS
		5565.00	H	-58.70	16.60	-42.10		
		7420.00	H	-59.21	17.85	-41.36		
	Mid	3765.00	Vertical	-46.28	13.52	-32.76	-13.00	PASS
		5647.50	V	-52.46	16.67	-35.79		
		7530.00	V	-55.50	17.85	-37.65		
		3765.00	Horizontal	-52.58	13.52	-39.06	-13.00	PASS
		5647.50	H	-60.20	16.67	-43.53		
		7530.00	H	-60.34	17.85	-42.49		
	High	3820.00	Vertical	-46.99	13.69	-33.30	-13.00	PASS
		5730.00	V	-53.84	16.84	-37.00		
		7640.00	V	-56.94	17.88	-39.06		
		3820.00	Horizontal	-51.59	13.69	-37.90	-13.00	PASS
		5730.00	H	-59.70	16.84	-42.86		
		7640.00	H	-59.47	17.88	-41.59		
15MHz	Low	3715.00	Vertical	-45.92	13.61	-32.31	-13.00	PASS
		5572.50	V	-52.72	16.61	-36.11		
		7430.00	V	-55.99	17.88	-38.11		
		3715.00	Horizontal	-52.44	13.61	-38.83	-13.00	PASS
		5572.50	H	-60.35	16.61	-43.74		

		7430.00	H	-60.22	17.88	-42.34		
	Mid	3765.00	Vertical	-46.53	13.52	-33.01	-13.00	PASS
		5647.50	V	-53.44	16.67	-36.77		
		7530.00	V	-56.58	17.85	-38.73		
		3765.00	Horizontal	-51.46	13.52	-37.94	-13.00	PASS
		5647.50	H	-59.49	16.67	-42.82		
		7530.00	H	-59.67	17.85	-41.82		
	High	3815.00	Vertical	-46.05	13.77	-32.28	-13.00	PASS
		5722.50	V	-52.27	16.87	-35.40		
		7630.00	V	-55.21	17.84	-37.37		
		3815.00	Horizontal	-52.87	13.77	-39.10	-13.00	PASS
		5722.50	H	-61.57	16.87	-44.70		
		7630.00	H	-61.59	17.84	-43.75		
20MHz	Low	3720.00	Vertical	-47.10	13.67	-33.43	-13.00	PASS
		5580.00	V	-53.31	16.60	-36.71		
		7440.00	V	-56.27	17.91	-38.36		
		3720.00	Horizontal	-53.21	13.67	-39.54	-13.00	PASS
		5580.00	H	-61.72	16.60	-45.12		
		7440.00	H	-62.01	17.91	-44.10		
	Mid	3765.00	Vertical	-47.28	13.52	-33.76	-13.00	PASS
		5647.50	V	-53.69	16.67	-37.02		
		7530.00	V	-56.50	17.85	-38.65		
		3765.00	Horizontal	-53.35	13.52	-39.83	-13.00	PASS
		5647.50	H	-62.03	16.67	-45.36		
		7530.00	H	-62.17	17.85	-44.32		
	High	3810.00	Vertical	-46.73	13.81	-32.92	-13.00	PASS
		5715.00	V	-52.74	16.85	-35.89		
		7620.00	V	-55.71	17.87	-37.84		
		3810.00	Horizontal	-53.95	13.81	-40.14	-13.00	PASS
		5715.00	H	-62.50	16.85	-45.65		
		7620.00	H	-62.44	17.87	-44.57		

LTE Band 26 (814-824MHz)								
Bandwidth	Channel	Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
			Polarization	reading (dBm)	factor (dB)	Level (dBm)		
1.4MHz	Low	1629.40	Vertical	-40.51	4.15	-36.36	-13.00	PASS
		2444.10	V	-49.35	9.19	-40.16		
		3258.80	V	-53.77	12.79	-40.98		
		1629.40	Horizontal	-41.06	4.15	-36.91	-13.00	PASS

		2444.10	H	-49.87	9.19	-40.68		
		3258.80	H	-54.21	12.79	-41.42		
	Mid	1638.00	Vertical	-40.31	4.36	-35.95	-13.00	PASS
		2457.00	V	-49.01	9.24	-39.77		
		3276.00	V	-53.46	12.85	-40.61		
		1638.00	Horizontal	-40.76	4.36	-36.40	-13.00	PASS
		2457.00	H	-49.51	9.24	-40.27		
		3276.00	H	-53.88	12.85	-41.03		
	High	1646.60	Vertical	-39.46	4.22	-35.24	-13.00	PASS
		2469.90	V	-48.38	9.25	-39.13		
		3293.20	V	-52.83	12.83	-40.00		
		1646.60	Horizontal	-40.37	4.22	-36.15	-13.00	PASS
		2469.90	H	-49.29	9.25	-40.04		
		3293.20	H	-53.66	12.83	-40.83		
3MHz	Low	1631.00	Vertical	-38.96	4.18	-34.78	-13.00	PASS
		2446.50	V	-47.05	9.21	-37.84		
		3262.00	V	-51.88	12.82	-39.06		
		1631.00	Horizontal	-39.21	4.18	-35.03	-13.00	PASS
		2446.50	H	-47.92	9.21	-38.71		
		3262.00	H	-52.96	12.82	-40.14		
	Mid	1638.00	Vertical	-37.88	4.36	-33.52	-13.00	PASS
		2457.00	V	-45.89	9.24	-36.65		
		3276.00	V	-50.60	12.84	-37.76		
		1638.00	Horizontal	-38.33	4.36	-33.97	-13.00	PASS
		2457.00	H	-47.21	9.24	-37.97		
		3276.00	H	-52.13	12.84	-39.29		
	High	1645.00	Vertical	-36.57	4.21	-32.36	-13.00	PASS
		2467.50	V	-45.10	9.29	-35.81		
		3290.00	V	-50.04	12.83	-37.21		
		1645.00	Horizontal	-37.07	4.21	-32.86	-13.00	PASS
		2467.50	H	-46.42	9.29	-37.13		
		3290.00	H	-50.63	12.83	-37.80		
5MHz	Low	1633.00	Vertical	-35.34	4.22	**-31.12**	-13.00	PASS
		2449.50	V	-43.12	9.2	-33.92		
		3266.00	V	-48.60	12.81	-35.79		
		1633.00	Horizontal	-38.03	4.22	-33.81	-13.00	PASS
		2449.50	H	-48.01	9.2	-38.81		

		3266.00	H	-51.44	12.81	-38.63		
	Mid	1638.00	Vertical	-36.09	4.36	-31.73	-13.00	PASS
		2457.00	V	-44.29	9.24	-35.05		
		3276.00	V	-49.60	12.84	-36.76		
		1638.00	Horizontal	-39.58	4.36	-35.22	-13.00	PASS
		2457.00	H	-49.00	9.24	-39.76		
		3276.00	H	-52.20	12.84	-39.36		
	High	1643.00	Vertical	-37.42	4.16	-33.26	-13.00	PASS
		2464.50	V	-45.42	9.28	-36.14		
		3286.00	V	-50.49	12.79	-37.70		
		1643.00	Horizontal	-40.48	4.16	-36.32	-13.00	PASS
		2464.50	H	-50.06	9.28	-40.78		
		3286.00	H	-52.93	12.79	-40.14		
10MHz	Mid	1638.00	Vertical	-36.49	4.25	-32.24	-13.00	PASS
		2457.00	V	-44.82	9.23	-35.59		
		3276.00	V	-49.81	12.77	-37.04		
		1638.00	Horizontal	-42.13	4.25	-37.88	-13.00	PASS
		2457.00	H	-51.08	9.23	-41.85		
		3276.00	H	-54.14	12.77	-41.37		

LTE Band 26 (824-849MHz)								
Bandwidth	Channel	Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
			Polarization	reading (dBm)	factor (dB)	Level (dBm)		
1.4MHz	Low	1649.40	Vertical	-40.66	4.31	-36.35	-13.00	PASS
		2474.10	V	-49.51	9.35	-40.16		
		3298.80	V	-53.93	12.95	-40.98		
		1649.40	Horizontal	-41.21	4.31	-36.90	-13.00	PASS
		2474.10	H	-50.03	9.35	-40.68		
		3298.80	H	-54.37	12.95	-41.42		
	Mid	1673.00	Vertical	-40.45	4.52	-35.93	-13.00	PASS
		2509.50	V	-49.17	9.40	-39.77		
		3346.00	V	-53.62	13.01	-40.61		
		1673.00	Horizontal	-40.91	4.52	-36.39	-13.00	PASS
		2509.50	H	-49.67	9.40	-40.27		
		3346.00	H	-54.04	13.01	-41.03		
	High	1696.60	Vertical	-39.60	4.38	-35.22	-13.00	PASS

		2544.90	V	-48.53	9.41	-39.12		
		3393.20	V	-52.99	12.99	-40.00		
		1696.60	Horizontal	-40.52	4.38	-36.14	-13.00	PASS
		2544.90	H	-49.45	9.41	-40.04		
		3393.20	H	-53.82	12.99	-40.83		
3MHz	Low	1651.00	Vertical	-39.10	4.34	-34.76	-13.00	PASS
		2476.50	V	-47.19	9.37	-37.82		
		3302.00	V	-52.03	12.98	-39.05		
		1651.00	Horizontal	-39.36	4.34	-35.02	-13.00	PASS
		2476.50	H	-48.08	9.37	-38.71		
		3302.00	H	-53.11	12.98	-40.13		
	Mid	1673.00	Vertical	-38.01	4.52	-33.49	-13.00	PASS
		2509.50	V	-46.02	9.40	-36.62		
		3346.00	V	-50.74	13.00	-37.74		
		1673.00	Horizontal	-38.48	4.52	-33.96	-13.00	PASS
		2509.50	H	-47.37	9.40	-37.97		
		3346.00	H	-52.28	13.00	-39.28		
	High	1695.00	Vertical	-36.70	4.37	-32.33	-13.00	PASS
		2542.50	V	-45.23	9.45	-35.78		
		3390.00	V	-50.18	12.99	-37.19		
		1695.00	Horizontal	-37.22	4.37	-32.85	-13.00	PASS
		2542.50	H	-46.57	9.45	-37.12		
		3390.00	H	-50.78	12.99	-37.79		
5MHz	Low	1653.00	Vertical	-35.46	4.38	**-31.08**	-13.00	PASS
		2479.50	V	-43.24	9.36	-33.88		
		3306.00	V	-48.74	12.97	-35.77		
		1653.00	Horizontal	-38.18	4.38	-33.80	-13.00	PASS
		2479.50	H	-48.17	9.36	-38.81		
		3306.00	H	-51.59	12.97	-38.62		
	Mid	1673.00	Vertical	-36.21	4.52	-31.69	-13.00	PASS
		2509.50	V	-44.41	9.40	-35.01		
		3346.00	V	-49.75	13.00	-36.75		
		1673.00	Horizontal	-39.73	4.52	-35.21	-13.00	PASS
		2509.50	H	-49.17	9.40	-39.77		
		3346.00	H	-52.35	13.00	-39.35		
	High	1693.00	Vertical	-37.55	4.32	-33.23	-13.00	PASS
		2539.50	V	-45.55	9.44	-36.11		

		3386.00	V	-50.64	12.95	-37.69		
		1693.00	Horizontal	-40.63	4.32	-36.31	-13.00	PASS
		2539.50	H	-50.23	9.44	-40.79		
		3386.00	H	-53.08	12.95	-40.13		
10MHz	Low	1658.00	Vertical	-36.61	4.41	-32.20	-13.00	PASS
		2487.00	V	-44.95	9.39	-35.56		
		3316.00	V	-49.95	12.93	-37.02		
		1658.00	Horizontal	-42.29	4.41	-37.88	-13.00	PASS
		2487.00	H	-51.25	9.39	-41.86		
		3316.00	H	-54.29	12.93	-41.36		
	Mid	1673.00	Vertical	-37.93	4.52	-33.41	-13.00	PASS
		2509.50	V	-45.98	9.40	-36.58		
		3346.00	V	-51.24	13.00	-38.24		
		1673.00	Horizontal	-43.20	4.52	-38.68	-13.00	PASS
		2509.50	H	-52.45	9.40	-43.05		
		3346.00	H	-55.30	13.00	-42.30		
	High	1688.00	Vertical	-38.28	4.42	-33.86	-13.00	PASS
		2532.00	V	-47.04	9.45	-37.59		
		3376.00	V	-52.33	12.91	-39.42		
		1688.00	Horizontal	-42.13	4.42	-37.71	-13.00	PASS
		2532.00	H	-51.94	9.45	-42.49		
		3376.00	H	-54.46	12.91	-41.55		
15MHz	Low	1663.00	Vertical	-37.46	4.42	-33.04	-13.00	PASS
		2494.50	V	-46.20	9.35	-36.85		
		3326.00	V	-51.57	12.95	-38.62		
		1663.00	Horizontal	-42.91	4.42	-38.49	-13.00	PASS
		2494.50	H	-52.57	9.35	-43.22		
		3326.00	H	-55.12	12.95	-42.17		
	Mid	1673.00	Vertical	-38.15	4.52	-33.63	-13.00	PASS
		2509.50	V	-46.80	9.40	-37.40		
		3346.00	V	-52.14	13.00	-39.14		
		1673.00	Horizontal	-42.27	4.52	-37.75	-13.00	PASS
		2509.50	H	-51.85	9.40	-42.45		
		3346.00	H	-54.74	13.00	-41.74		
	High	1683.00	Vertical	-37.47	4.45	-33.02	-13.00	PASS
		2524.50	V	-45.67	9.41	-36.26		
		3366.00	V	-50.91	12.90	-38.01		

		1683.00	Horizontal	-43.17	4.45	-38.72	-13.00	PASS
		2524.50	H	-53.43	9.41	-44.02		
		3366.00	H	-56.26	12.90	-43.36		

LTE Band 38								
Bandwidth	Channel	Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
			Polarization	reading (dBm)	factor (dB)	Level (dBm)		
5MHz	Low	5145.00	Vertical	-56.06	15.71	-40.35	-25.00	PASS
		7717.50	V	-58.97	17.88	-41.09		
		10290.00	V	-62.72	24.11	-38.61		
		5145.00	Horizontal	-56.7	15.71	-40.99	-25.00	PASS
		7717.50	H	-59.57	17.88	-41.69		
		10290.00	H	-63.23	24.11	-39.12		
	Mid	5190.00	Vertical	-55.56	15.69	-39.87	-25.00	PASS
		7785.00	V	-58.54	17.90	-40.64		
		10380.00	V	-63.12	24.93	-38.19		
		5190.00	Horizontal	-56.1	15.69	-40.41	-25.00	PASS
		7785.00	H	-59.12	17.90	-41.22		
		10380.00	H	-63.6	24.93	-38.67		
	High	5235.00	Vertical	-54.78	15.73	-39.05	-25.00	PASS
		7852.50	V	-57.86	17.96	-39.90		
		10470.00	V	-61.68	24.20	-37.48		
		5235.00	Horizontal	-55.85	15.73	-40.12	-25.00	PASS
		7852.50	H	-58.91	17.96	-40.95		
		10470.00	H	-62.64	24.20	-38.44		
10MHz	Low	5150.00	Vertical	-54.28	15.76	-38.52	-25.00	PASS
		7725.00	V	-56.31	17.90	-38.41		
		10300.00	V	-60.48	24.09	-36.39		
		5150.00	Horizontal	-54.59	15.76	-38.83	-25.00	PASS
		7725.00	H	-57.32	17.90	-39.42		
		10300.00	H	-61.73	24.09	-37.64		
	Mid	5190.00	Vertical	-52.75	15.69	-37.06	-25.00	PASS
		7785.00	V	-54.93	17.90	-37.03		
		10380.00	V	-59.82	24.93	-34.89		
		5190.00	Horizontal	-53.3	15.69	-37.61	-25.00	PASS
		7785.00	H	-56.47	17.90	-38.57		

		10380.00	H	-61.59	24.93	-36.66		
	High	5230.00	Vertical	-51.53	15.80	-35.73	-25.00	PASS
		7845.00	V	-55.01	17.98	-37.03		
		10460.00	V	-59.01	24.15	-34.86		
		5230.00	Horizontal	-52.41	15.80	-36.61	-25.00	PASS
		7845.00	H	-55.79	17.98	-37.81		
		10460.00	H	-59.47	24.15	-35.32		
15MHz	Low	5155.00	Vertical	-52.85	15.76	-37.09	-25.00	PASS
		7732.50	V	-54.19	17.96	-36.23		
		10310.00	V	-59.68	24.92	-34.76		
		5155.00	Horizontal	-55.68	15.76	-39.92	-25.00	PASS
		7732.50	H	-59.32	17.96	-41.36		
		10310.00	H	-63.51	24.92	-38.59		
	Mid	5190.00	Vertical	-53.45	15.69	-37.76	-25.00	PASS
		7785.00	V	-56.23	17.90	-38.33		
		10380.00	V	-59.88	24.93	-34.95		
		5190.00	Horizontal	-54.92	15.69	-39.23	-25.00	PASS
		7785.00	H	-57.57	17.90	-39.67		
		10380.00	H	-62.43	24.93	-37.50		
	High	5225.00	Vertical	-51.58	15.75	-35.83	-25.00	PASS
		7837.50	V	-55.04	17.94	-37.10		
		10450.00	V	-59.03	24.11	-34.92		
		5225.00	Horizontal	-53.63	15.75	-37.88	-25.00	PASS
		7837.50	H	-56.93	17.94	-38.99		
		10450.00	H	-60.33	24.11	-36.22		
20MHz	Low	5160.00	Vertical	-51.55	15.64	-35.91	-25.00	PASS
		7740.00	V	-53.45	17.85	-35.60		
		10320.00	V	-59.45	24.87	**-34.58**		
		5160.00	Horizontal	-57.36	15.64	-41.72	-25.00	PASS
		7740.00	H	-60.44	17.85	-42.59		
		10320.00	H	-64.87	24.87	-40.00		
	Mid	5190.00	Vertical	-54.84	15.69	-39.15	-25.00	PASS
		7785.00	V	-57.40	17.90	-39.50		
		10380.00	V	-61.28	24.93	-36.35		
		5190.00	Horizontal	-55.84	15.69	-40.15	-25.00	PASS
		7785.00	H	-58.94	17.90	-41.04		
		10380.00	H	-63.51	24.93	-38.58		
	High	5220.00	Vertical	-52.05	15.70	-36.35	-25.00	PASS

		7830.00	V	-56.14	17.88	-38.26		
		10440.00	V	-60.27	24.00	-36.27		
		5220.00	Horizontal	-52.47	15.70	-36.77	-25.00	PASS
		7830.00	H	-56.22	17.88	-38.34		
		10440.00	H	-59.36	24.00	-35.36		

LTE Band 41								
Bandwidth	Channel	Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
			Polarization	reading (dBm)	factor (dB)	Level (dBm)		
5MHz	Low	4997.00	Vertical	-55.91	15.64	-40.27	-25.00	PASS
		7495.50	V	-58.88	17.82	-41.06		
		9994.00	V	-61.74	23.83	-37.91		
		4997.00	Horizontal	-56.57	15.64	-40.93	-25.00	PASS
		7495.50	H	-59.5	17.82	-41.68		
		9994.00	H	-62.27	23.83	-38.44		
	Mid	5186.00	Vertical	-55.46	15.69	-39.77	-25.00	PASS
		7779.00	V	-58.55	17.96	-40.59		
		10372.00	V	-61.67	24.20	-37.47		
		5186.00	Horizontal	-56.01	15.69	-40.32	-25.00	PASS
		7779.00	H	-59.15	17.96	-41.19		
		10372.00	H	-62.17	24.20	-37.97		
	High	5375.00	Vertical	-54.88	15.96	-38.92	-25.00	PASS
		8062.50	V	-58.46	18.64	-39.82		
		10750.00	V	-61.02	24.29	-36.73		
		5375.00	Horizontal	-55.98	15.96	-40.02	-25.00	PASS
		8062.50	H	-59.55	18.64	-40.91		
		10750.00	H	-62.02	24.29	-37.73		
10MHz	Low	5002.00	Vertical	-54.02	15.65	-38.37	-25.00	PASS
		7503.00	V	-56.1	17.83	-38.27		
		10004.00	V	-59.45	23.85	-35.60		
		5002.00	Horizontal	-54.32	15.65	-38.67	-25.00	PASS
		7503.00	H	-57.14	17.83	-39.31		
		10004.00	H	-60.75	23.85	-36.90		
	Mid	5186.00	Vertical	-52.54	15.69	-36.85	-25.00	PASS

		7779.00	V	-54.8	17.96	-36.84		
		10372.00	V	-58.24	24.20	-34.04		
		5186.00	Horizontal	-53.09	15.69	-37.40	-25.00	PASS
		7779.00	H	-56.38	17.96	-38.42		
		10372.00	H	-60.08	24.20	-35.88		
	High	5370.00	Vertical	-51.26	15.80	-35.46	-25.00	PASS
		8055.00	V	-55.48	18.64	-36.84		
		10740.00	V	-58.29	24.29	-34.00		
		5370.00	Horizontal	-52.16	15.80	-36.36	-25.00	PASS
		8055.00	H	-56.27	18.64	-37.63		
		10740.00	H	-58.78	24.29	-34.49		
15MHz	Low	5007.00	Vertical	-52.54	15.67	-36.87	-25.00	PASS
		7510.50	V	-53.84	17.84	-36.00		
		10014.00	V	-57.75	23.85	-33.90		
		5007.00	Horizontal	-55.48	15.67	-39.81	-25.00	PASS
		7510.50	H	-59.18	17.84	-41.34		
		10014.00	H	-61.75	23.85	-37.90		
	Mid	5186.00	Vertical	-53.27	15.69	-37.58	-25.00	PASS
		7779.00	V	-56.16	17.96	-38.20		
		10372.00	V	-58.30	24.20	-34.10		
		5186.00	Horizontal	-54.78	15.69	-39.09	-25.00	PASS
		7779.00	H	-57.53	17.96	-39.57		
		10372.00	H	-60.96	24.20	-36.76		
	High	5365.00	Vertical	-51.07	15.51	-35.56	-25.00	PASS
		8047.50	V	-55.57	18.66	-36.91		
		10730.00	V	-58.36	24.30	-34.06		
		5365.00	Horizontal	-53.19	15.51	-37.68	-25.00	PASS
		8047.50	H	-57.52	18.66	-38.86		
		10730.00	H	-59.72	24.30	-35.42		
20MHz	Low	5012.00	Vertical	-51.31	15.67	-35.64	-25.00	PASS
		7518.00	V	-53.18	17.84	-35.34		
		10024.00	V	-57.58	23.86	**-33.72**		
		5012.00	Horizontal	-57.35	15.67	-41.68	-25.00	PASS
		7518.00	H	-60.46	17.84	-42.62		
		10024.00	H	-63.23	23.86	-39.37		

	Mid	5186.00	Vertical	-54.72	15.69	-39.03	-25.00	PASS
		7779.00	V	-57.38	17.96	-39.42		
		10372.00	V	-59.76	24.20	-35.56		
		5186.00	Horizontal	-55.74	15.69	-40.05	-25.00	PASS
		7779.00	H	-58.96	17.96	-41.00		
		10372.00	H	-62.09	24.20	-37.89		
	High	5360.00	Vertical	-52.08	15.98	-36.10	-25.00	PASS
		8040.00	V	-56.77	18.65	-38.12		
		10720.00	V	-59.81	24.34	-35.47		
		5360.00	Horizontal	-52.50	15.98	-36.52	-25.00	PASS
		8040.00	H	-56.84	18.65	-38.19		
		10720.00	H	-58.86	24.34	-34.52		

LTE Band 66								
Bandwidth	Channel	Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
			Polarization	reading (dBm)	factor (dB)	Level (dBm)		
1.4MHz	Low	3421.40	Vertical	-48.63	12.41	-36.22	-13.00	PASS
		5132.10	V	-55.69	15.69	-40.00		
		6842.80	V	-59.81	18.95	-40.86		
		3421.40	Horizontal	-49.36	12.41	-36.95	-13.00	PASS
		5132.10	H	-56.38	15.69	-40.69		
		6842.80	H	-60.39	18.95	-41.44		
	Mid	3465.00	Vertical	-48.13	12.46	-35.67	-13.00	PASS
		5197.50	V	-55.20	15.71	-39.49		
		6930.00	V	-59.35	18.97	-40.38		
		3465.00	Horizontal	-48.74	12.46	-36.28	-13.00	PASS
		5197.50	H	-55.86	15.71	-40.15		
		6930.00	H	-59.90	18.97	-40.93		
	High	3508.60	Vertical	-47.23	12.49	-34.74	-13.00	PASS
		5262.90	V	-54.40	15.76	-38.64		
		7017.20	V	-58.59	19.02	-39.57		
		3508.60	Horizontal	-48.44	12.49	-35.95	-13.00	PASS
		5262.90	H	-55.60	15.76	-39.84		
		7017.20	H	-59.69	19.02	-40.67		
3MHz	Low	3423.00	Vertical	-46.67	12.53	-34.14	-13.00	PASS

		5134.50	V	-52.72	15.79	-36.93		
		6846.00	V	-57.45	19.12	-38.33		
		3423.00	Horizontal	-47.00	12.53	-34.47	-13.00	PASS
		5134.50	H	-53.88	15.79	-38.09		
		6846.00	H	-58.87	19.12	-39.75		
	Mid	3465.00	Vertical	-44.93	12.46	-32.47	-13.00	PASS
		5197.50	V	-51.06	15.71	-35.35		
		6930.00	V	-55.58	18.97	-36.61		
		3465.00	Horizontal	-45.54	12.46	-33.08	-13.00	PASS
		5197.50	H	-52.82	15.71	-37.11		
		6930.00	H	-57.60	18.97	-38.63		
	High	3507.00	Vertical	-43.53	12.59	-30.94	-13.00	PASS
		5260.50	V	-50.08	15.84	-34.24		
		7014.00	V	-55.08	19.19	-35.89		
		3507.00	Horizontal	-44.20	12.59	-31.61	-13.00	PASS
		5260.50	H	-51.83	15.84	-35.99		
		7014.00	H	-55.85	19.19	-36.66		
5MHz	Low	3425.00	Vertical	-41.42	12.12	**-29.30**	-13.00	PASS
		5137.50	V	-47.47	15.72	-31.75		
		6850.00	V	-53.05	19.03	-34.02		
		3425.00	Horizontal	-44.98	12.12	-32.86	-13.00	PASS
		5137.50	H	-53.93	15.72	-38.21		
		6850.00	H	-56.78	19.03	-37.75		
	Mid	3465.00	Vertical	-42.56	12.46	-30.10	-13.00	PASS
		5197.50	V	-48.95	15.71	-33.24		
		6930.00	V	-54.28	18.97	-35.31		
		3465.00	Horizontal	-47.18	12.46	-34.72	-13.00	PASS
		5197.50	H	-55.18	15.71	-39.47		
		6930.00	H	-57.68	18.97	-38.71		
	High	3505.00	Vertical	-44.32	12.19	-32.13	-13.00	PASS
		5257.50	V	-50.47	15.79	-34.68		
		7010.00	V	-55.78	19.23	-36.55		
		3505.00	Horizontal	-48.36	12.19	-36.17	-13.00	PASS
		5257.50	H	-56.61	15.79	-40.82		
		7010.00	H	-58.97	19.23	-39.74		
10MHz	Low	3430.00	Vertical	-43.01	12.23	-30.78	-13.00	PASS
		5145.00	V	-49.77	15.82	-33.95		

		6860.00	V	-54.93	19.26	-35.67		
		3430.00	Horizontal	-50.46	12.23	-38.23	-13.00	PASS
		5145.00	H	-58.05	15.82	-42.23		
		6860.00	H	-60.62	19.26	-41.36		
	Mid	3465.00	Vertical	-44.84	12.46	-32.38	-13.00	PASS
		5197.50	V	-51.00	15.71	-35.29		
		6930.00	V	-56.25	18.97	-37.28		
		3465.00	Horizontal	-51.74	12.46	-39.28	-13.00	PASS
		5197.50	H	-59.51	15.71	-43.80		
		6930.00	H	-61.57	18.97	-42.60		
	High	3500.00	Vertical	-45.32	12.35	-32.97	-13.00	PASS
		5250.00	V	-52.51	15.89	-36.62		
		7000.00	V	-58.18	19.35	-38.83		
		3500.00	Horizontal	-50.36	12.35	-38.01	-13.00	PASS
		5250.00	H	-58.95	15.89	-43.06		
		7000.00	H	-60.96	19.35	-41.61		
15MHz	Low	3435.00	Vertical	-44.28	12.39	-31.89	-13.00	PASS
		5152.50	V	-51.56	15.92	-35.64		
		6870.00	V	-57.17	19.39	-37.78		
		3435.00	Horizontal	-51.43	12.39	-39.04	-13.00	PASS
		5152.50	H	-59.95	15.92	-44.03		
		6870.00	H	-61.82	19.39	-42.43		
	Mid	3465.00	Vertical	-45.12	12.46	-32.66	-13.00	PASS
		5197.50	V	-52.08	15.71	-36.37		
		6930.00	V	-57.43	18.97	-38.46		
		3465.00	Horizontal	-50.53	12.46	-38.07	-13.00	PASS
		5197.50	H	-58.73	15.71	-43.02		
		6930.00	H	-60.83	18.97	-41.86		
	High	3495.00	Vertical	-44.38	12.52	-31.86	-13.00	PASS
		5242.50	V	-50.40	15.53	-34.87		
		6990.00	V	-56.46	19.49	-36.97		
		3495.00	Horizontal	-51.87	12.52	-39.35	-13.00	PASS
		5242.50	H	-60.62	15.53	-45.09		
		6990.00	H	-63.48	19.49	-43.99		
20MHz	Low	3440.00	Vertical	-45.72	12.59	-33.13	-13.00	PASS
		5160.00	V	-51.89	15.58	-36.31		
		6880.00	V	-57.58	19.53	-38.05		

		3440.00	Horizontal	-52.38	12.59	-39.79	-13.00	PASS
		5160.00	H	-61.09	15.58	-45.51		
		6880.00	H	-63.87	19.53	-44.34		
	Mid	3465.00	Vertical	-45.92	12.46	-33.46	-13.00	PASS
		5197.50	V	-52.33	15.71	-36.62		
		6930.00	V	-57.31	18.97	-38.34		
		3465.00	Horizontal	-52.54	12.46	-40.08	-13.00	PASS
		5197.50	H	-61.46	15.71	-45.75		
		6930.00	H	-63.53	18.97	-44.56		
	High	3490.00	Vertical	-45.25	12.71	-32.54	-13.00	PASS
		5235.00	V	-51.10	15.72	-35.38		
		6980.00	V	-57.08	19.63	-37.45		
		3490.00	Horizontal	-53.10	12.71	-40.39	-13.00	PASS
		5235.00	H	-61.76	15.72	-46.04		
		6980.00	H	-64.44	19.63	-44.81		

Remark:
Level(dBm) = Reading(dBm)+ Factor(dB)

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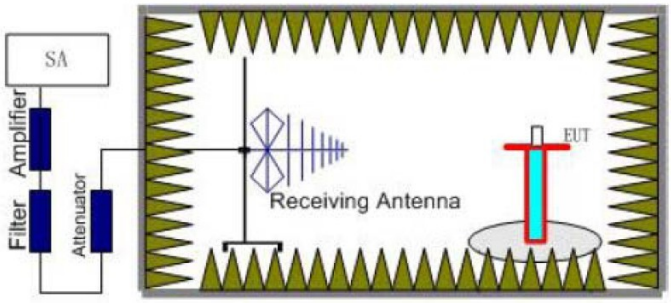
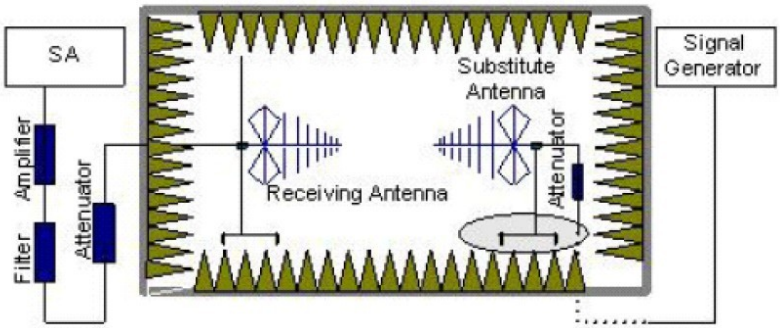
10. ERP and EIRP

10.1. Test Standard and Limit

Applicable Standard:	Part 2.1046 Part 22.913(a) Part 24.232(b) Part 27.50(b) Part 27.50(c) Part 27.50(d) Part 27.50(h) Part 90.635
Limit:	ERP≤ 7W(38.45dBm) (LTE Band 5,26(824-849MHz)) EIRP≤ 2W(33.00dBm) (LTE Band 2,25) ERP≤ 3W(34.77dBm) (LTE Band 13) ERP≤ 3W(34.77dBm) (LTE Band 12) EIRP≤ 1W(30.00dBm) (LTE Band 4,66) EIRP≤ 2W(33.00dBm) (LTE Band 7,38,41) ERP≤ 100W(50.00dBm) (LTE Band 26(814-824MHz))

10.2. Test Setup





10.3. Test Procedure

1. Place the EUT in the center of the turntable.

a) For radiated emissions measurements performed at frequencies less than or equal to 1 GHz,

the EUT shall be placed on a RF-transparent table at a nominal height of 80 cm above the reference ground plane

b) For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table at a nominal height of 1.5 m above the ground plane.

2. Unless the EUT uses an integral antenna, the EUT shall be terminated with a non-radiating transmitter load. In cases where the EUT uses an adjustable antenna, the antenna shall be adjusted through typical positions and lengths to maximize emissions levels.
3. The EUT shall be tested while operating on the frequency per manufacturer specification. Set the transmitter to operate in continuous transmit mode.

4. Receiver or Spectrum set as follow:

Below 1GHz, RBW=100kHz, VBW=300kHz, Detector=Peak, Sweep time=Auto

Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peck, Sweep time=Auto

5. Each emission under consideration shall be evaluated:

a) Raise and lower the measurement antenna from 1 m to 4 m, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.

b) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.

c) Return the turntable to the azimuth where the highest emission amplitude level was observed.

d) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.

e) Record the measured emission amplitude level and frequency

6. Repeat step 5 for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.
7. Set-up the substitution measurement with the reference point of the substitution antenna located as near as possible to where the center of the EUT radiating element was located during the initial EUT measurement.
8. Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.
9. Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by the measurement instrument, with sufficient dynamic range relative to the noise floor.
10. For each emission that was detected and measured in the initial test

a) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.

b) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step 5 and step 6.

c) Record the output power level of the signal generator when equivalence is achieved in step b).

11. Repeat step 8 through step 10 with the measurement antenna oriented in the opposite polarization.
12. Calculate the emission power in dBm referenced to a half-wave dipole using the following equation:

Pe = Ps(dBm) − cable loss (dB) + antenna gain (dBd)

where

Pe = equivalent emission power in dBm

Ps = source (signal generator) power in dBm

NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.

13. Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from:

    gain (dBd) = gain (dBi) − 2.15 dB.

    If necessary, the antenna gain can be calculated from calibrated antenna factor information

14. Provide the complete measurement results as a part of the test report.

10.4. Test Data

Pass

Please to see the following pages

LTE Band 2						
Bandwidth	Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result
			Vertical	Horizontal		
1.4MHz	QPSK	Low	22.54	19.78	33.00	PASS
		Mid	22.92	19.67		
		High	22.92	19.88		
	16QAM	Low	17.68	15.49		PASS
		Mid	18.24	15.87		
		High	18.00	16.34		
3MHz	QPSK	Low	21.94	18.65	33.00	PASS
		Mid	22.54	19.63		
		High	22.28	19.42		
	16QAM	Low	19.27	17.12		PASS
		Mid	19.12	16.70		
		High	18.07	16.71		
5MHz	QPSK	Low	24.54	21.12	33.00	PASS
		Mid	24.88	20.79		
		High	**25.31**	21.12		
	16QAM	Low	19.92	16.77		PASS
		Mid	20.15	17.03		
		High	19.79	17.38		
10MHz	QPSK	Low	24.44	21.34	33.00	PASS
		Mid	24.78	21.01		
		High	25.19	21.58		
	16QAM	Low	19.81	17.11		PASS
		Mid	20.05	17.54		

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		High	19.70	17.74		
15MHz	QPSK	Low	23.60	20.01	33.00	PASS
		Mid	24.16	20.80		
		High	24.25	20.90		
	16QAM	Low	21.12	18.53		PASS
		Mid	20.70	18.15		
		High	19.55	17.92		
20MHz	QPSK	Low	24.05	20.42	33.00	PASS
		Mid	24.85	21.34		
		High	24.95	21.34		
	16QAM	Low	21.78	19.43		PASS
		Mid	21.25	18.60		
		High	20.08	18.15		

LTE Band 4						
Bandwidth	Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result
			Vertical	Horizontal		
1.4MHz	QPSK	Low	22.53	20.66	30.00	PASS
		Mid	23.05	21.11		
		High	23.15	20.78		
	16QAM	Low	19.73	18.60		PASS
		Mid	20.18	19.10		
		High	20.12	18.94		
3MHz	QPSK	Low	23.05	20.66	30.00	PASS
		Mid	22.95	20.81		
		High	22.75	20.59		
	16QAM	Low	20.08	19.15		PASS
		Mid	20.45	18.46		
		High	20.49	19.20		
5MHz	QPSK	Low	23.80	21.33	30.00	PASS
		Mid	24.09	21.75		
		High	**24.15**	21.46		
	16QAM	Low	20.68	19.07		PASS
		Mid	21.02	20.22		
		High	20.81	19.30		
10MHz	QPSK	Low	23.26	21.13	30.00	PASS
		Mid	23.64	21.54		

		High	23.72	21.21		
	16QAM	Low	20.27	18.97		PASS
		Mid	20.66	19.42		
		High	20.52	19.21		
15MHz	QPSK	Low	23.81	21.06	30.00	PASS
		Mid	23.57	21.19		
		High	23.35	21.00		
	16QAM	Low	20.65	19.43		PASS
		Mid	20.95	19.13		
		High	20.91	19.42		
20MHz	QPSK	Low	23.89	21.13	30.00	PASS
		Mid	23.87	21.32		
		High	23.60	21.07		
	16QAM	Low	20.62	19.53		PASS
		Mid	21.23	19.05		
		High	21.21	19.62		

LTE Band 5						
Bandwidth	Modulation	Channel	ERP (dBm)		Limit (dBm)	Result
			Vertical	Horizontal		
1.4MHz	QPSK	Low	23.26	22.14	38.45	PASS
		Mid	24.07	22.42		
		High	24.01	22.47		
	16QAM	Low	19.11	18.01		PASS
		Mid	19.36	18.76		
		High	19.47	18.31		
3MHz	QPSK	Low	**25.95**	20.98	38.45	PASS
		Mid	25.27	21.19		
		High	24.25	20.82		
	16QAM	Low	18.87	19.42		PASS
		Mid	19.34	18.21		
		High	19.45	17.84		
5MHz	QPSK	Low	24.94	21.62	38.45	PASS
		Mid	24.58	21.84		
		High	23.60	21.24		

	16QAM	Low	20.29	19.48		PASS
		Mid	20.03	19.67		
		High	19.90	19.48		
10MHz	QPSK	Low	24.77	21.68	38.45	PASS
		Mid	24.43	21.90		
		High	23.49	21.27		
	16QAM	Low	20.31	18.63		PASS
		Mid	20.69	19.45		
		High	20.91	19.06		

LTE Band 7						
Bandwidth	Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result
			Vertical	Horizontal		
5MHz	QPSK	Low	22.29	19.76	33.00	PASS
		Mid	22.61	19.55		
		High	22.38	19.54		
	16QAM	Low	18.42	16.35		PASS
		Mid	18.76	16.45		
		High	18.60	16.82		
10MHz	QPSK	Low	22.01	18.91	33.00	PASS
		Mid	22.13	19.41		
		High	21.95	19.24		
	16QAM	Low	19.33	17.35		PASS
		Mid	19.20	16.89		
		High	19.14	17.38		
15MHz	QPSK	Low	23.86	20.81	33.00	PASS
		Mid	**24.42**	20.58		
		High	24.21	20.49		
	16QAM	Low	20.14	17.33		PASS
		Mid	20.22	17.34		
		High	19.98	17.62		
20MHz	QPSK	Low	23.77	20.97	33.00	PASS
		Mid	24.18	20.68		
		High	24.02	20.78		
	16QAM	Low	19.49	17.16		PASS
		Mid	19.97	17.57		
		High	19.62	17.66		

LTE Band 12						
Bandwidth	Modulation	Channel	ERP (dBm)		Limit (dBm)	Result
			Vertical	Horizontal		
1.4MHz	QPSK	Low	21.92	19.35	34.77	PASS
		Mid	22.07	19.23		
		High	22.20	19.35		
	16QAM	Low	18.48	16.31		PASS
		Mid	18.76	16.54		
		High	18.72	16.84		
3MHz	QPSK	Low	21.50	18.55	34.77	PASS
		Mid	21.80	19.21		
		High	21.75	19.03		
	16QAM	Low	19.61	17.46		PASS
		Mid	19.38	17.13		
		High	18.76	17.11		
5MHz	QPSK	Low	23.34	20.30	34.77	PASS
		Mid	23.46	20.02		
		High	**23.89**	20.23		
	16QAM	Low	20.07	17.22		PASS
		Mid	20.11	17.36		
		High	19.99	17.58		
10MHz	QPSK	Low	23.27	20.45	34.77	PASS
		Mid	23.39	20.18		
		High	23.80	20.56		
	16QAM	Low	19.99	17.46		PASS
		Mid	20.04	17.72		
		High	19.92	17.83		

LTE Band 13						
Bandwidth	Modulation	Channel	ERP (dBm)		Limit (dBm)	Result
			Vertical	Horizontal		
5MHz	QPSK	Low	21.57	19.90	34.77	PASS
		Mid	**21.80**	19.84		
		High	21.63	19.94		
	16QAM	Low	18.89	17.53		PASS
		Mid	19.22	17.75		

		High	18.91	17.98		
10MHz	QPSK	Mid	21.24	19.27	34.77	PASS
	16QAM	Mid	21.59	19.82		

LTE Band 25						
Bandwidth	Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result
			Vertical	Horizontal		
1.4MHz	QPSK	Low	21.69	19.07	33.00	PASS
		Mid	22.00	18.98		
		High	21.85	19.12		
	16QAM	Low	18.68	16.41		PASS
		Mid	19.10	16.63		
		High	18.80	16.92		
3MHz	QPSK	Low	21.32	18.37	33.00	PASS
		Mid	21.76	18.96		
		High	21.46	18.83		
	16QAM	Low	19.67	17.42		PASS
		Mid	19.64	17.14		
		High	18.84	17.15		
5MHz	QPSK	Low	22.93	19.90	33.00	PASS
		Mid	23.22	19.67		
		High	**23.33**	19.89		
	16QAM	Low	20.07	17.21		PASS
		Mid	20.28	17.35		
		High	19.91	17.57		
10MHz	QPSK	Low	22.87	20.04	33.00	PASS
		Mid	23.15	19.81		
		High	23.26	20.18		
	16QAM	Low	20.00	17.42		PASS
		Mid	20.22	17.66		
		High	19.86	17.79		
15MHz	QPSK	Low	22.35	19.21	33.00	PASS
		Mid	22.76	19.68		
		High	22.68	19.75		
	16QAM	Low	20.82	18.30		PASS
		Mid	20.62	18.04		
		High	19.76	17.90		

20MHz	QPSK	Low	22.63	19.47	33.00	PASS
		Mid	23.19	20.02		
		High	23.12	20.02		
	16QAM	Low	21.23	18.85		PASS
		Mid	20.96	18.32		
		High	20.08	18.05		

LTE Band 26 (814-824MHz)						
Bandwidth	Modulation	Channel	ERP (dBm)		Limit (dBm)	Result
			Vertical	Horizontal		
1.4MHz	QPSK	Low	22.93	20.11	50.00	PASS
		Mid	23.35	19.98		
		High	23.42	20.24		
	16QAM	Low	17.21	15.06		PASS
		Mid	17.85	15.52		
		High	17.62	16.07		
3MHz	QPSK	Low	22.23	18.78	50.00	PASS
		Mid	22.90	19.94		
		High	22.67	19.70		
	16QAM	Low	19.08	16.98		PASS
		Mid	18.88	16.49		
		High	17.71	16.51		
5MHz	QPSK	Low	25.29	21.69	50.00	PASS
		Mid	25.66	21.29		
		High	**26.23**	21.70		
	16QAM	Low	19.85	16.57		PASS
		Mid	20.09	16.89		
		High	19.73	17.30		
10MHz	QPSK	Mid	25.17	21.95	50.00	PASS
	16QAM	Mid	**25.54**	21.56		

LTE Band 26 (824-849MHz)						
Bandwidth	Modulation	Channel	ERP (dBm)		Limit (dBm)	Result
			Vertical	Horizontal		
1.4MHz	QPSK	Low	23.42	20.53	38.45	PASS

		Mid	23.90	20.43		
		High	24.10	20.75		
	16QAM	Low	16.56	14.47		PASS
		Mid	17.30	15.07		
		High	17.15	15.74		
3MHz	QPSK	Low	22.58	18.93	38.45	PASS
		Mid	23.36	20.38		
		High	23.20	20.10		
	16QAM	Low	18.80	16.77		PASS
		Mid	18.54	16.24		
		High	17.25	16.27		
5MHz	QPSK	Low	26.25	22.42	38.45	PASS
		Mid	26.67	22.01		
		High	**27.47**	22.50		
	16QAM	Low	19.73	16.28		PASS
		Mid	19.99	16.71		
		High	19.68	17.21		
10MHz	QPSK	Low	26.11	22.73	38.45	PASS
		Mid	26.53	22.32		
		High	27.30	23.16		
	16QAM	Low	19.57	16.76		PASS
		Mid	19.86	17.42		
		High	19.55	17.71		
15MHz	QPSK	Low	24.92	20.85	38.45	PASS
		Mid	25.65	22.03		
		High	25.98	22.19		
	16QAM	Low	21.42	18.76		PASS
		Mid	20.76	18.29		
		High	19.34	17.98		

LTE Band 38						
Bandwidth	Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result
			Vertical	Horizontal		
5MHz	QPSK	Low	23.11	20.32	33.00	PASS
		Mid	23.54	20.15		
		High	23.64	20.42		

	16QAM	Low	17.05	14.97		PASS
		Mid	17.71	15.42		
		High	17.50	15.99		
10MHz	QPSK	Low	22.37	18.91	33.00	PASS
		Mid	23.06	20.11		
		High	22.84	19.84		
	16QAM	Low	19.04	17.00		PASS
		Mid	18.80	16.45		
		High	17.58	16.46		
15MHz	QPSK	Low	25.61	21.99	33.00	PASS
		Mid	25.98	21.54		
		High	**26.62**	21.97		
	16QAM	Low	19.85	16.57		PASS
		Mid	20.09	16.87		
		High	19.74	17.29		
20MHz	QPSK	Low	25.48	22.27	33.00	PASS
		Mid	25.86	21.82		
		High	26.47	22.55		
	16QAM	Low	19.71	17.00		PASS
		Mid	19.97	17.50		
		High	19.62	17.73		

LTE Band 41						
Bandwidth	Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result
			Vertical	Horizontal		
5MHz	QPSK	Low	21.89	19.24	33.00	PASS
		Mid	22.21	19.14		
		High	22.10	19.29		
	16QAM	Low	18.45	16.20		PASS
		Mid	18.90	16.46		
		High	18.62	16.78		
10MHz	QPSK	Low	21.47	18.44	33.00	PASS
		Mid	21.94	19.12		
		High	21.65	18.97		
	16QAM	Low	19.58	17.35		PASS

		Mid	19.52	17.04		
		High	18.66	17.05		
15MHz	QPSK	Low	23.31	20.19	33.00	PASS
		Mid	23.60	19.93		
		High	**23.79**	20.17		
	16QAM	Low	20.04	17.11		PASS
		Mid	20.25	17.28		
		High	19.89	17.52		
20MHz	QPSK	Low	23.24	20.34	33.00	PASS
		Mid	23.53	20.09		
		High	23.70	20.50		
	16QAM	Low	19.96	17.35		PASS
		Mid	20.18	17.64		
		High	19.82	17.77		

LTE Band 66						
Bandwidth	Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result
			Vertical	Horizontal		
1.4MHz	QPSK	Low	21.89	19.24	30.00	PASS
		Mid	22.21	19.14		
		High	22.10	19.30		
	16QAM	Low	18.45	16.20		PASS
		Mid	18.90	16.45		
		High	18.61	16.78		
3MHz	QPSK	Low	21.47	18.44	30.00	PASS
		Mid	21.94	19.12		
		High	21.65	18.97		
	16QAM	Low	19.57	17.35		PASS
		Mid	19.52	17.04		
		High	18.66	17.05		
5MHz	QPSK	Low	23.31	20.19	30.00	PASS
		Mid	23.60	19.93		
		High	**23.79**	20.18		
	16QAM	Low	20.04	17.11		PASS
		Mid	20.25	17.27		

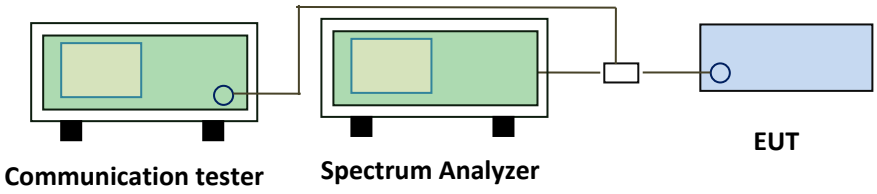
		High	19.88	17.52		
10MHz	QPSK	Low	23.24	20.35	30.00	PASS
		Mid	23.53	20.09		
		High	23.71	20.51		
	16QAM	Low	19.96	17.35		PASS
		Mid	20.18	17.63		
		High	19.82	17.77		
15MHz	QPSK	Low	22.64	19.40	30.00	PASS
		Mid	23.09	19.95		
		High	23.05	20.02		
	16QAM	Low	20.88	18.35		PASS
		Mid	20.64	18.07		
		High	19.71	17.91		
20MHz	QPSK	Low	22.96	19.69	30.00	PASS
		Mid	23.58	20.33		
		High	23.54	20.33		
	16QAM	Low	21.35	18.99		PASS
		Mid	21.03	18.39		
		High	20.08	18.07		

11. Frequency stability VS Voltage measurement

11.1. Test Standard and Limit

Applicable Standard:	Part 2.1055(d)(1)(2) Part 22.355 Part 24.235 Part 27.54 Part 90.213
Limit:	≤ ±2.5ppm or within authorization band

11.2. Test Setup



11.3. Test Procedure

1. The equipment under test was connected to an external DC power supply and input rated voltage.
2. The EUT output port was connected to communication tester.
3. The EUT was placed inside the temperature chamber at 25°C.
4. The power supply voltage to the EUT was varied ±15% of the nominal value measured at the input to the EUT.
5. Record the maximum frequency change.

11.4. Test Data

Pass

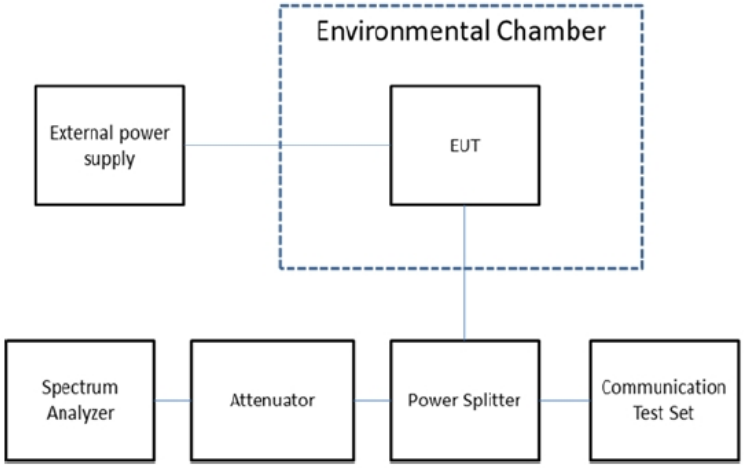
Please refer to Appendix F of the Appendix Test Data.

12. Frequency stability VS Temperature measurement

12.1. Test Standard and Limit

Applicable Standard:	Part 2.1055(a)(1)(b) Part 22.355 Part 24.235 Part 27.54 Part 90.213
Limit:	≤ ±2.5ppm or within authorization band

12.2. Test Setup



12.3. Test Procedure

1. The equipment under test was connected to an external DC power supply and input rated voltage.
2. The EUT output port was connected to communication tester.
3. The EUT was placed inside the temperature chamber.
4. Turn EUT off and set the chamber temperature to –30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.
5. Repeat step 4 measure with 10°C increased per stage until the highest temperature of +50°C reached.

12.4. Test Data

Pass

Please refer to Appendix G of the Appendix Test Data.

APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_Licensed

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

---------- End of Report ----------

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