

FCC Test Report

Client Name : Meferi Technologies Co.,Ltd.

Client Address : 4501, 45th Floor, Building A, No. 530, Middle
Tianfu Avenue, High-tech Zone, Chengdu,
China

Product Name : HANDHELD TERMINAL

Report Date : Mar. 07, 2023

Shenzhen Anbotech Compliance Laboratory Limited



Shenzhen Anbotech Compliance Laboratory Limited

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TEST REPORT

Applicant : Meferi Technologies Co.,Ltd.
Manufacturer : Meferi Technologies Co.,Ltd.
Product Name : HANDHELD TERMINAL
Model No. : ME40K, ME40M, ME40, ME40K_M, ME40M_EEA, ME40K_ROW, ME40L, ME41K, ME40S, ME40P
Trade Mark : MEFERI
Rating(s) : Input: 5V $\overline{=}$ 2A, 9V $\overline{=}$ 2A, (via adapter input: 100-240V~, 50/60Hz, 0.6A, Output: 3.6V-6.0Vdc, 3.0A; or 6.0-9.0Vdc, 2.0A; or 9.0-12.0Vdc, 1.5A)
Capacity: 3.85V, 5180mAh (BATME40K)

Test Standard(s) : FCC PART 2, FCC Part 22(H), FCC Part 24(E), FCC Part 27(C)

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 FCC Part 22, FCC Part 24, FCC Part 27 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

Nov. 30, 2022

Date of Test :

Nov. 30, 2022~Feb. 01, 2023

Prepared by :

Tu Tu Hong

(TuTu Hong)

Approved & Authorized Signer :

Kingkong Jin

(Kingkong Jin)



Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Mar. 07, 2023



1. General Information

1.1. Client Information

Applicant	:	Meferi Technologies Co.,Ltd.
Address	:	4501, 45th Floor, Building A, No. 530, Middle Tianfu Avenue, High-tech Zone, Chengdu, China
Manufacturer	:	Meferi Technologies Co.,Ltd.
Address	:	4501, 45th Floor, Building A, No. 530, Middle Tianfu Avenue, High-tech Zone, Chengdu, China
Factory	:	Dongguan Unicair Communication Tec. Co., Ltd.
Address	:	No. 49,Yinhu Road,Shishuikou Village,Qiaotou Town,Dongguan City,Guangdong Province,China

1.2. Description of Device (EUT)

Product Name	:	HANDHELD TERMINAL
Model No.	:	ME40K, ME40M, ME40, ME40K_M, ME40M_EEA, ME40K_ROW, ME40L, ME41K, ME40S, ME40P (Note: All samples are the same except the model number, so we prepare "ME40K" for test only.)
Trade Mark	:	MEFERI
Test Power Supply	:	DC 3.85V Battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	Model: TPA-10S120150UU01 Input: 100-240V~50/60Hz 0.6A Output: 3.6-6V= 3A/ 6-9V= 2A/ 9-12V= 1.5A

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 17: 706.5 MHz – 713.5 MHz FDD Band 25: 1850.7 MHz – 1914.3 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 17: 736.5 MHz – 743.5 MHz FDD Band 25: 1930.7 MHz – 1994.3 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	:	FPC Antenna
Antenna Gain(Peak):		FDD Band 2: -0.84dBi (Provided by customer) FDD Band 4: -2.27dBi (Provided by customer) FDD Band 5: -2.98dBi (Provided by customer) FDD Band 7: 2.92dBi (Provided by customer) FDD Band 12: -3.55dBi (Provided by customer) FDD Band 13: -3.81dBi (Provided by customer) FDD Band 17: -3.55dBi (Provided by customer) FDD Band 25: -0.84dBi (Provided by customer) TDD Band 41: 2.92dBi (Provided by customer) FDD Band 66: -1.36dBi (Provided by customer)
Remark: 1) 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

Description	Rating(s)
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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
	Mid Range	20 ^[1]	18700	1860	700	1940
		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
	Mid Range	20	20050	1720	2050	2120
		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 17	Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	Low Range	5 [1]	23755	706.5	5755	736.5
		10 [1]	23780	709	5780	739
	Mid Range	5 [1]/10 [1]	23790	710	5790	740
	High Range	5 [1]	23825	713.5	5825	743.5
		10 [1]	23800	711	5800	741
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



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	

FDD Band 66	Test Frequency ID	Bandwidth [MHz]	NuL	Frequency of Uplink [MHz]	NdL	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	Oct. 13, 2022	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Oct. 23, 2022	1 Year
3.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	Oct. 16, 2022	3 Year
4.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Oct. 23, 2022	2 Year
5.	Pre-amplifier	SONOMA	310N	186860	Oct. 23, 2022	1 Year
6.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
7.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 13, 2022	1 Year
8.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 13, 2022	1 Year
9.	DC Power Supply	LW	TPR-6420D	374470	Oct. 22, 2022	1 Year
10.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	Oct. 19, 2022	1 Year
11.	Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	167336	Oct. 13, 2022	1 Year
12.	High-Pass Filter	CDKMV	ZHPF-BM1100-4000-0730	B2015094550	Oct. 22, 2022	1 Year
13.	High-Pass Filter	CDKMV	ZHPF-M3.5-18G-3834	1307006523	Oct. 22, 2022	1 Year



1.7. Measurement Uncertainty

Maximum measurement uncertainty

Parameter	Uncertainty
RF output power, conducted	±1,5 dB
Power Spectral Density, conducted	±3 dB
Unwanted Emissions, conducted	±3 dB
All emissions, radiated	±6 dB
Temperature	±1 °C
Humidity	±5 %
DC and low frequency voltages	±3 %
Time	±5 %
Confidence interval: 95%. Confidence factor:k=2	

1.8. Description of Test Facility

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

FCC-Registration No.: 184111

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. 184111.

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.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102



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)	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)	≤ -13dBm(LTE Band 5) ≤ -13dBm(LTE Band 2,25) Refer to clause 7.1 for LTE Band 13 ≤ -13dBm(LTE Band 12,17) ≤ -13dBm(LTE Band 4,66) ≤ -25dBm(LTE Band7, 41)	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)	≤ -13dBm (LTE Band 5) ≤ -13dBm (LTE Band 2,25) Refer to clause 8.1 for LTE Band 13 ≤ -13dBm (LTE Band 12,17) ≤ -13dBm (LTE Band 4,66) Refer to clause 8.1 for LTE Band7, 41)	Compliance
Frequency stability VS. temperature	Part 2.1055(a)(1)(b) Part 22.355 Part 24.235 Part 27.54	≤ ±2.5ppm	Compliance
Frequency stability VS. voltage	Part 2.1055(d)(1)(2) Part 22.355 Part 24.235 Part 27.54	≤ ±2.5ppm	Compliance



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)	$ERP \leq 7W$ (LTE Band 5) $EIRP \leq 2W$ (LTE Band 2,25) $ERP \leq 3W$ (LTE Band 13) $ERP \leq 3W$ (LTE Band 12,17) $EIRP \leq 1W$ (LTE Band 4, 66) $EIRP \leq 2W$ (LTE Band7, 41)	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)	$\leq -13dBm$ (LTE Band 5) $\leq -13dBm$ (LTE Band 2,25) Refer to clause 9.1 for LTE Band 13 $\leq -13dBm$ (LTE Band 12,17) $\leq -13dBm$ (LTE Band 4,66) $\leq -25dBm$ (LTE Band7, 41)	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

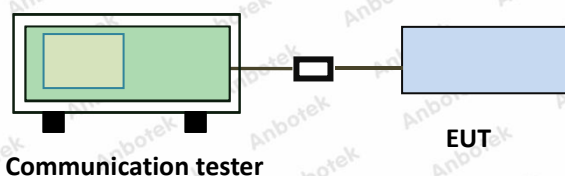


3. Conducted Output Power Test

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)
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.

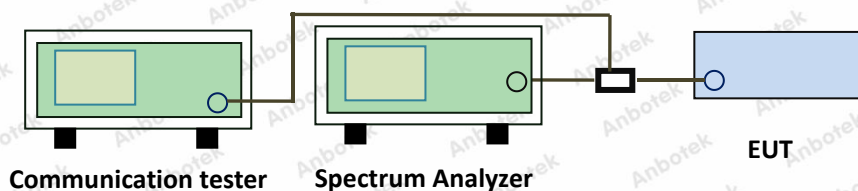


4. Peak-Average Ratio

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 there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

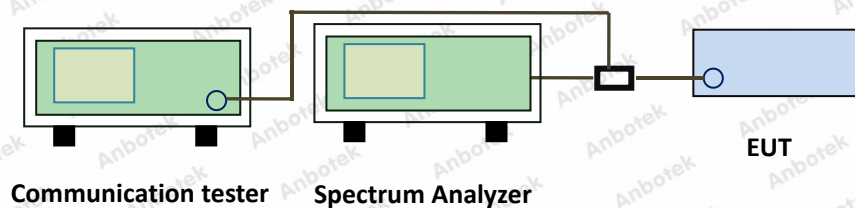


6. 99% Occupied Bandwidth & 26 dB Bandwidth

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.

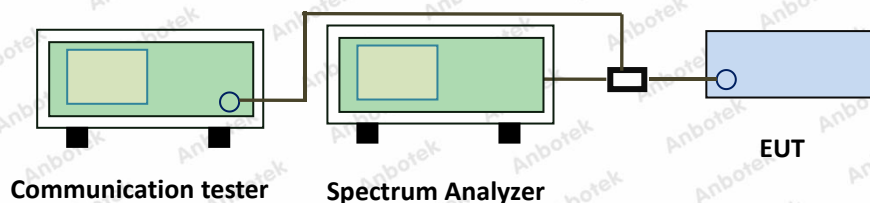


7. Conducted Spurious Emission

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)
Limit:	$\leq -13\text{dBm}$ (LTE Band 5) $\leq -13\text{dBm}$ (LTE Band 2,25) $\leq -13\text{dBm}$ (LTE Band 12,17) $\leq -13\text{dBm}$ (LTE Band 4,66) $\leq -25\text{dBm}$ (LTE Band 7,41) 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.



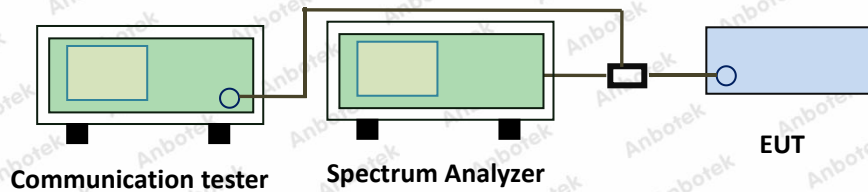
8. Band Edge

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)
Limit:	$\leq -13\text{dBm}$ (LTE Band 5,26(824-849MHz)) $\leq -13\text{dBm}$ (LTE Band 2,25) $\leq -13\text{dBm}$ (LTE Band 12,17) $\leq -13\text{dBm}$ (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 7,41: 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 than $43 + 10 \log (P)$ 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.

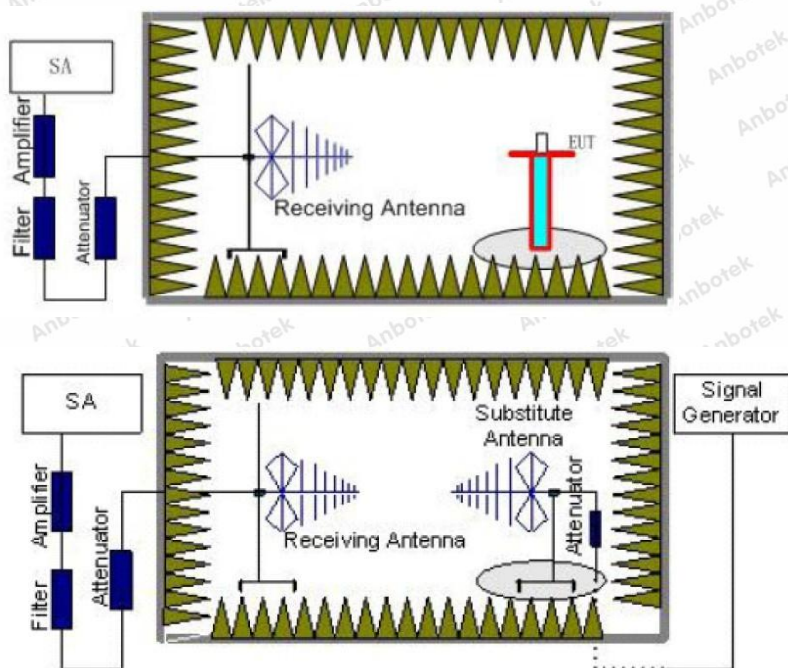


9. Radiated Spurious Emission

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)
Limit:	$\leq -13\text{dBm}$ (LTE Band 5) $\leq -13\text{dBm}$ (LTE Band 2,25) $\leq -13\text{dBm}$ (LTE Band 12,17) $\leq -13\text{dBm}$ (LTE Band 4,66) $\leq -25\text{dBm}$ (LTE Band 7,41) 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:

$$P_e = P_s(\text{dBm}) - \text{cable loss (dB)} + \text{antenna gain (dBd)}$$

where

P_e = equivalent emission power in dBm

P_s = 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:

$$\text{gain (dBd)} = \text{gain (dBi)} - 2.15 \text{ dB.}$$

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. Test Data

Pass

Please to see the following pages



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	-49.21	13.21	-36.00	-13.00	PASS
		5552.10	V	-56.35	16.61	-39.74		
		7402.80	V	-58.72	18.03	-40.69		
		3701.40	Horizontal	-50.21	13.21	-37.00	-13.00	PASS
		5552.10	H	-57.29	16.61	-40.68		
		7402.80	H	-59.52	18.03	-41.49		
	Mid	3760.00	Vertical	-47.61	12.36	-35.25	-13.00	PASS
		5640.00	V	-56.06	17.03	-39.03		
		7520.00	V	-57.87	17.85	-40.02		
		3760.00	Horizontal	-48.44	12.36	-36.08	-13.00	PASS
		5640.00	H	-56.97	17.03	-39.94		
		7520.00	H	-58.63	17.85	-40.78		
	High	3818.60	Vertical	-46.74	12.78	-33.96	-13.00	PASS
		5727.90	V	-55.72	17.86	-37.86		
		7637.20	V	-57.47	18.56	-38.91		
		3818.60	Horizontal	-48.41	12.78	-35.63	-13.00	PASS
		5727.90	H	-57.38	17.86	-39.52		
		7637.20	H	-58.98	18.56	-40.42		
3MHz	Low	3703.00	Vertical	-45.91	12.78	-33.13	-13.00	PASS
		5554.50	V	-52.20	16.69	-35.51		
		7406.00	V	-55.38	18.18	-37.20		
		3703.00	Horizontal	-46.38	12.78	-33.60	-13.00	PASS
		5554.50	H	-53.80	16.69	-37.11		
		7406.00	H	-57.34	18.18	-39.16		
	Mid	3760.00	Vertical	-43.62	12.79	-30.83	-13.00	PASS
		5640.00	V	-50.06	16.72	-33.34		
		7520.00	V	-53.06	18.22	-34.84		
		3760.00	Horizontal	-44.47	12.79	-31.68	-13.00	PASS
		5640.00	H	-52.49	16.72	-35.77		
		7520.00	H	-55.84	18.22	-37.62		
	High	3817.00	Vertical	-41.66	12.93	-28.73	-13.00	PASS
		5725.50	V	-48.82	17.01	-31.81		
		7634.00	V	-52.25	18.41	-33.84		
		3817.00	Horizontal	-42.59	12.93	-29.66	-13.00	PASS



		5725.50	H	-51.25	17.01	-34.24		
		7634.00	H	-53.33	18.41	-34.92		
5MHz	Low	3705.00	Vertical	-39.72	13.25	-26.47	-13.00	PASS
		5557.50	V	-44.97	16.59	-28.38		
		7410.00	V	-49.39	18.12	-31.27		
		3705.00	Horizontal	-44.63	13.25	-31.38		
		5557.50	H	-53.89	16.59	-37.30		
		7410.00	H	-54.54	18.12	-36.42		
	Mid	3760.00	Vertical	-39.88	12.31	-27.57	-13.00	PASS
		5640.00	V	-47.57	17.14	-30.43		
		7520.00	V	-51.00	17.96	-33.04		
		3760.00	Horizontal	-46.25	12.31	-33.94		
		5640.00	H	-56.17	17.14	-39.03		
		7520.00	H	-55.71	17.96	-37.75		
	High	3815.00	Vertical	-43.13	12.77	-30.36	-13.00	PASS
		5722.50	V	-50.23	17.82	-32.41		
		7630.00	V	-53.34	18.59	-34.75		
		3815.00	Horizontal	-48.71	12.77	-35.94		
		5722.50	H	-58.70	17.82	-40.88		
		7630.00	H	-57.75	18.59	-39.16		
10MHz	Low	3710.00	Vertical	-41.09	12.59	-28.50	-13.00	PASS
		5565.00	V	-48.02	16.61	-31.41		
		7420.00	V	-51.90	18.35	-33.55		
		3710.00	Horizontal	-51.36	12.59	-38.77		
		5565.00	H	-59.43	16.61	-42.82		
		7420.00	H	-59.74	18.35	-41.39		
	Mid	3760.00	Vertical	-43.41	12.71	-30.70	-13.00	PASS
		5640.00	V	-49.90	16.65	-33.25		
		7520.00	V	-54.03	18.27	-35.76		
		3760.00	Horizontal	-52.93	12.71	-40.22		
		5640.00	H	-61.63	16.65	-44.98		
		7520.00	H	-61.37	18.27	-43.10		
High	3810.00	Vertical	-44.43	12.91	-31.52	-13.00	PASS	
	5715.00	V	-52.32	17.23	-35.09			
	7620.00	V	-56.48	18.59	-37.89			



		3810.00	Horizontal	-51.38	12.91	-38.47		
		5715.00	H	-61.19	17.23	-43.96	-13.00	PASS
		7620.00	H	-60.33	18.59	-41.74		

15MHz	Low	3715.00	Vertical	-43.24	13.21	-30.03	-13.00	PASS
		5572.50	V	-50.39	16.65	-33.74		
		7430.00	V	-54.74	18.29	-36.45		
		3715.00	Horizontal	-53.09	13.21	-39.88	-13.00	PASS
		5572.50	H	-61.94	16.65	-45.29		
		7430.00	H	-61.16	18.29	-42.87		
	Mid	3760.00	Vertical	-43.48	12.39	-31.09	-13.00	PASS
		5640.00	V	-51.92	17.18	-34.74		
		7520.00	V	-55.38	17.99	-37.39		
		3760.00	Horizontal	-50.93	12.39	-38.54	-13.00	PASS
		5640.00	H	-61.07	17.18	-43.89		
		7520.00	H	-60.07	17.99	-42.08		
	High	3805.00	Vertical	-42.84	12.86	-29.98	-13.00	PASS
		5707.50	V	-50.56	17.89	-32.67		
		7610.00	V	-54.03	18.69	-35.34		
		3805.00	Horizontal	-53.16	12.86	-40.30	-13.00	PASS
		5707.50	H	-64.63	17.89	-46.74		
		7610.00	H	-63.70	18.69	-45.01		
20MHz	Low	3720.00	Vertical	-44.29	12.57	-31.72	-13.00	PASS
		5580.00	V	-51.24	16.59	-34.65		
		7440.00	V	-55.50	18.67	-36.83		
		3720.00	Horizontal	-53.31	12.57	-40.74	-13.00	PASS
		5580.00	H	-63.75	16.59	-47.16		
		7440.00	H	-64.03	18.67	-45.36		
	Mid	3760.00	Vertical	-44.81	12.76	-32.05	-13.00	PASS
		5640.00	V	-51.65	16.69	-34.96		
		7520.00	V	-55.50	18.38	-37.12		
		3760.00	Horizontal	-53.79	12.76	-41.03	-13.00	PASS
		5640.00	H	-64.09	16.69	-47.40		
		7520.00	H	-63.96	18.38	-45.58		
	High	3800.00	Vertical	-43.75	12.97	-30.78	-13.00	PASS



		5700.00	V	-50.45	17.19	-33.26	-13.00	PASS
		7600.00	V	-54.17	18.28	-35.89		
		3800.00	Horizontal	-54.31	12.97	-41.34		
		5700.00	H	-64.88	17.19	-47.69		
		7600.00	H	-64.11	18.28	-45.83		

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	-47.13	12.89	-34.24	-13.00	PASS
		5132.10	V	-55.17	15.86	-39.31		
		6842.80	V	-58.66	18.92	-39.74		
		3421.40	Horizontal	-47.93	12.89	-35.04	-13.00	PASS
		5132.10	H	-55.93	15.86	-40.07		
		6842.80	H	-59.30	18.92	-40.38		
	Mid	3465.00	Vertical	-46.13	12.49	-33.64	-13.00	PASS
		5197.50	V	-54.45	15.71	-38.74		
		6930.00	V	-57.47	18.26	-39.21		
		3465.00	Horizontal	-46.79	12.49	-34.30	-13.00	PASS
		5197.50	H	-55.18	15.71	-39.47		
		6930.00	H	-58.07	18.26	-39.81		
	High	3508.60	Vertical	-45.62	13.01	-32.61	-13.00	PASS
		5262.90	V	-53.69	15.89	-37.80		
		7017.20	V	-56.99	18.67	-38.32		
		3508.60	Horizontal	-46.46	13.01	-33.45	-13.00	PASS
		5262.90	H	-54.56	15.89	-38.67		
		7017.20	H	-57.72	18.67	-39.05		
3MHz	Low	3423.00	Vertical	-46.64	12.74	-33.90	-13.00	PASS
		5134.50	V	-54.63	15.68	-38.95		
		6846.00	V	-58.05	18.59	-39.46		
		3423.00	Horizontal	-47.22	12.74	-34.48	-13.00	PASS
		5134.50	H	-55.98	15.68	-40.30		
		6846.00	H	-58.88	18.59	-40.29		
	Mid	3465.00	Vertical	-47.74	12.49	-35.25	-13.00	PASS
		5197.50	V	-56.19	15.89	-40.30		
		6930.00	V	-59.16	18.66	-40.50		



		3465.00	Horizontal	-49.56	12.49	-37.07	-13.00	PASS
		5197.50	H	-58.02	15.89	-42.13		
		6930.00	H	-61.07	18.66	-42.41		
	High	3507.00	Vertical	-49.60	13.44	-36.16	-13.00	PASS
		5260.50	V	-57.02	15.89	-41.13		
		7014.00	V	-59.67	18.39	-41.28		
		3507.00	Horizontal	-51.76	13.44	-38.32	-13.00	PASS
		5260.50	H	-59.43	15.89	-43.54		
		7014.00	H	-61.83	18.39	-43.44		

5MHz	Low	3425.00	Vertical	-47.37	12.87	-34.50	-13.00	PASS
		5137.50	V	-55.76	15.85	-39.91		
		6850.00	V	-58.56	18.93	-39.63		
		3425.00	Horizontal	-50.53	12.87	-37.66	-13.00	PASS
		5137.50	H	-60.01	15.85	-44.16		
		6850.00	H	-61.84	18.93	-42.91		
	Mid	3465.00	Vertical	-47.47	12.47	-35.00	-13.00	PASS
		5197.50	V	-55.14	15.7	-39.44		
		6930.00	V	-58.36	18.29	-40.07		
		3465.00	Horizontal	-50.71	12.47	-38.24	-13.00	PASS
		5197.50	H	-59.39	15.7	-43.69		
		6930.00	H	-60.99	18.29	-42.70		
	High	3505.00	Vertical	-47.57	13.29	-34.28	-13.00	PASS
		5257.50	V	-55.95	15.86	-40.09		
		7010.00	V	-58.08	18.63	-39.45		
		3505.00	Horizontal	-51.06	13.29	-37.77	-13.00	PASS
		5257.50	H	-59.11	15.86	-43.25		
		7010.00	H	-60.96	18.63	-42.33		
10MHz	Low	3430.00	Vertical	-45.73	12.72	-33.01	-13.00	PASS
		5145.00	V	-56.47	15.61	-40.86		
		6860.00	V	-57.60	18.62	-38.98		
		3430.00	Horizontal	-50.75	12.72	-38.03	-13.00	PASS
		5145.00	H	-59.10	15.61	-43.49		
		6860.00	H	-61.16	18.62	-42.54		



	Mid	3465.00	Vertical	-45.61	12.41	-33.20	-13.00	PASS
		5197.50	V	-56.96	15.92	-41.04		
		6930.00	V	-58.14	18.63	-39.51		
		3465.00	Horizontal	-50.65	12.41	-38.24	-13.00	PASS
		5197.50	H	-59.58	15.92	-43.66		
		6930.00	H	-61.33	18.63	-42.70		
	High	3500.00	Vertical	-46.87	13.41	-33.46	-13.00	PASS
		5250.00	V	-56.87	15.59	-41.28		
		7000.00	V	-58.05	18.31	-39.74		
		3500.00	Horizontal	-51.85	13.41	-38.44	-13.00	PASS
		5250.00	H	-59.44	15.59	-43.85		
		7000.00	H	-61.17	18.31	-42.86		

15MHz	Low	3435.00	Vertical	-47.04	12.89	-34.15	-13.00	PASS
		5152.50	V	-56.44	15.86	-40.58		
		6870.00	V	-59.24	18.95	-40.29		
		3435.00	Horizontal	-50.32	12.89	-37.43	-13.00	PASS
		5152.50	H	-60.66	15.86	-44.80		
		6870.00	H	-60.05	18.95	-41.10		
	Mid	3465.00	Vertical	-48.29	12.49	-35.80	-13.00	PASS
		5197.50	V	-54.76	15.73	-39.03		
		6930.00	V	-60.06	18.31	-41.75		
		3465.00	Horizontal	-48.64	12.49	-36.15	-13.00	PASS
		5197.50	H	-61.57	15.73	-45.84		
		6930.00	H	-58.42	18.31	-40.11		
	High	3495.00	Vertical	-50.34	13.32	-37.02	-13.00	PASS
		5242.50	V	-53.80	15.88	-37.92		
		6990.00	V	-59.35	18.65	-40.70		
		3495.00	Horizontal	-48.31	13.32	-34.99	-13.00	PASS
		5242.50	H	-59.47	15.88	-43.59		
		6990.00	H	-58.20	18.65	-39.55		
20MHz	Low	3440.00	Vertical	-47.97	12.74	-35.23	-13.00	PASS
		5160.00	V	-53.16	15.65	-37.51		



		6880.00	V	-58.99	18.64	-40.35	-13.00	PASS
		3440.00	Horizontal	-48.88	12.74	-36.14		
		5160.00	H	-60.15	15.65	-44.50		
		6880.00	H	-58.46	18.64	-39.82		
	Mid	3465.00	Vertical	-47.96	12.44	-35.52	-13.00	PASS
		5197.50	V	-53.58	15.93	-37.65		
		6930.00	V	-59.12	18.64	-40.48		
		3465.00	Horizontal	-48.76	12.44	-36.32	-13.00	PASS
		5197.50	H	-60.62	15.93	-44.69		
		6930.00	H	-60.33	18.64	-41.69		
	High	3490.00	Vertical	-50.15	13.43	-36.72	-13.00	PASS
		5235.00	V	-54.24	15.61	-38.63		
		6980.00	V	-59.71	18.34	-41.37		
		3490.00	Horizontal	-50.60	13.43	-37.17	-13.00	PASS
		5235.00	H	-60.51	15.61	-44.90		
		6980.00	H	-60.79	18.34	-42.45		

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	-43.06	7.29	-35.77	-13.00	PASS
		2474.10	V	-52.69	9.41	-43.28		
		3298.80	V	-56.60	12.69	-43.91		
		1649.40	Horizontal	-45.41	7.29	-38.12	-13.00	PASS
		2474.10	H	-55.46	9.41	-46.05		
		3298.80	H	-59.12	12.69	-46.43		
	Mid	1673.00	Vertical	-42.39	7.32	-35.07	-13.00	PASS
		2509.50	V	-52.01	9.39	-42.62		
		3346.00	V	-55.93	12.78	-43.15		
		1673.00	Horizontal	-44.72	7.32	-37.40	-13.00	PASS
		2509.50	H	-54.77	9.39	-45.38		
		3346.00	H	-58.58	12.78	-45.80		
	High	1696.60	Vertical	-41.60	7.33	-34.27	-13.00	PASS
		2544.90	V	-51.43	9.46	-41.97		



3MHz		3393.20	V	-55.25	12.71	-42.54	-13.00	PASS
		1696.60	Horizontal	-41.95	7.33	-34.62		
		2544.90	H	-51.11	9.46	-41.65		
		3393.20	H	-55.82	12.71	-43.11		
	Low	1651.00	Vertical	-40.18	7.36	-32.82	-13.00	PASS
		2476.50	V	-50.12	9.51	-40.61		
		3302.00	V	-54.10	12.72	-41.38		
		1651.00	Horizontal	-41.03	7.36	-33.67	-13.00	PASS
		2476.50	H	-50.26	9.51	-40.75		
		3302.00	H	-55.07	12.72	-42.35		
	Mid	1673.00	Vertical	-39.51	7.41	-32.10	-13.00	PASS
		2509.50	V	-49.46	9.52	-39.94		
		3346.00	V	-53.48	12.73	-40.75		
		1673.00	Horizontal	-39.80	7.41	-32.39	-13.00	PASS
		2509.50	H	-49.24	9.52	-39.72		
		3346.00	H	-54.10	12.73	-41.37		
	High	1695.00	Vertical	-38.05	7.52	-30.53	-13.00	PASS
		2542.50	V	-47.97	9.46	-38.51		
		3390.00	V	-52.20	12.81	-39.39		
		1695.00	Horizontal	-38.74	7.52	-31.22	-13.00	PASS
		2542.50	H	-48.08	9.46	-38.62		
		3390.00	H	-53.25	12.81	-40.44		

5MHz	Low	1653.00	Vertical	-35.23	7.61	-27.62	-13.00	PASS
		2479.50	V	-46.19	9.49	-36.70		
		3306.00	V	-49.87	12.86	-37.01		
		1653.00	Horizontal	-39.53	7.61	-31.92	-13.00	PASS
		2479.50	H	-48.77	9.49	-39.28		
		3306.00	H	-53.86	12.86	-41.00		
	Mid	1673.00	Vertical	-35.87	7.72	-28.15	-13.00	PASS
		2509.50	V	-46.72	9.53	-37.19		
		3346.00	V	-50.31	12.84	-37.47		
		1673.00	Horizontal	-39.79	7.72	-32.07	-13.00	PASS
		2509.50	H	-48.93	9.53	-39.40		
		3346.00	H	-53.96	12.84	-41.12		



	High	1693.00	Vertical	-36.59	7.79	-28.80	-13.00	PASS
		2539.50	V	-47.31	9.53	-37.78		
		3386.00	V	-50.92	12.89	-38.03		
		1693.00	Horizontal	-38.65	7.79	-30.86	-13.00	PASS
		2539.50	H	-47.79	9.53	-38.26		
		3386.00	H	-53.04	12.89	-40.15		
10MHz	Low	1658.00	Vertical	-35.79	7.81	-27.98	-13.00	PASS
		2487.00	V	-46.64	9.56	-37.08		
		3316.00	V	-50.35	12.91	-37.44		
		1658.00	Horizontal	-39.61	7.81	-31.80	-13.00	PASS
		2487.00	H	-48.70	9.56	-39.14		
		3316.00	H	-53.81	12.91	-40.90		
	Mid	1673.00	Vertical	-36.51	7.83	-28.68	-13.00	PASS
		2509.50	V	-47.33	9.59	-37.74		
		3346.00	V	-51.00	12.94	-38.06		
		1673.00	Horizontal	-39.82	7.83	-31.99	-13.00	PASS
		2509.50	H	-48.88	9.59	-39.29		
		3346.00	H	-53.99	12.94	-41.05		
	High	1688.00	Vertical	-36.80	7.89	-28.91	-13.00	PASS
		2532.00	V	-47.57	9.62	-37.95		
		3376.00	V	-51.22	12.96	-38.26		
		1688.00	Horizontal	-40.06	7.89	-32.17	-13.00	PASS
		2532.00	H	-49.08	9.62	-39.46		
		3376.00	H	-54.15	12.96	-41.19		

LTE Band 7								
Bandwidth	Channel	Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
			Polarization	reading (dBm)	factor (dB)	Level (dBm)		
5MHz	Low	5005.00	Vertical	-55.34	15.62	-39.72	-25.00	PASS
		7507.50	V	-57.85	17.86	-39.99		
		10010.00	V	-65.4	23.84	-41.56		
		5005.00	Horizontal	-57.72	15.62	-42.10	-25.00	PASS
		7507.50	H	-60.77	17.86	-42.91		



10MHz	Mid	10010.00	H	-67.12	23.84	-43.28	-25.00	PASS	
		5070.00	Vertical	-54.17	15.66	-38.51			
		7605.00	V	-56.08	17.87	-38.21			
		10140.00	V	-63.95	23.88	-40.07			
		5070.00	Horizontal	-54.48	15.66	-38.82			
		7605.00	H	-58	17.87	-40.13			
		10140.00	H	-65.3	23.88	-41.42			
	High	5135.00	Vertical	-50.82	15.69	-35.13	-25.00	PASS	
		7702.50	V	-53.01	17.88	-35.13			
		10270.00	V	-61.06	23.91	-37.15			
		5135.00	Horizontal	-52.26	15.69	-36.57			
		7702.50	H	-55.89	17.88	-38.01			
		10270.00	H	-63.53	23.91	-39.62			
	10MHz	Low	5010.00	Vertical	-49.31	15.71	-33.60	-25.00	PASS
			7515.00	V	-51.75	17.92	-33.83		
			10020.00	V	-59.99	23.94	-36.05		
			5010.00	Horizontal	-53.55	15.71	-37.84		
			7515.00	H	-57.13	17.92	-39.21		
10020.00			H	-64.58	23.94	-40.64			
Mid		5070.00	Vertical	-50.22	15.66	-34.56	-25.00	PASS	
		7605.00	V	-52.6	17.87	-34.73			
		10140.00	V	-60.77	23.88	-36.89			
		5070.00	Horizontal	-55.04	15.66	-39.38			
		7605.00	H	-58.33	17.87	-40.46			
		10140.00	H	-65.7	23.88	-41.82			
High		5130.00	Vertical	-51.92	15.79	-36.13	-25.00	PASS	
		7695.00	V	-54.13	17.98	-36.15			
		10260.00	V	-62.26	24.02	-38.24			
		5130.00	Horizontal	-56.18	15.79	-40.39			
		7695.00	H	-59.39	17.98	-41.41			
		10260.00	H	-66.65	24.02	-42.63			

15MHz	Low	5015.00	Vertical	-46.52	15.81	-30.71	-25.00	PASS
		7522.50	V	-55.81	17.96	-37.85		
		10030.00	V	-57.59	24.11	-33.48		
		5015.00	Horizontal	-55.85	15.81	-40.04		



20MHz	Mid	7522.50	H	-53.58	17.96	-35.62	-25.00	PASS
		10030.00	H	-66.25	24.11	-42.14		
		5070.00	Vertical	-47.32	15.66	-31.66		
		7605.00	V	-48.15	17.87	-30.28		
		10140.00	V	-56.92	23.88	-33.04		
		5070.00	Horizontal	-58.31	15.66	-42.65		
	High	7605.00	H	-60.55	17.87	-42.68	-25.00	PASS
		10140.00	H	-67.40	23.88	-43.52		
		5125.00	Vertical	-45.96	15.88	-30.08		
		7687.50	V	-49.87	18.03	-31.84		
		10250.00	V	-58.69	24.16	-34.53		
		5125.00	Horizontal	-51.93	15.88	-36.05		
20MHz	Low	7687.50	H	-55.41	18.03	-37.38	-25.00	PASS
		10250.00	H	-63.73	24.16	-39.57		
		5020.00	Vertical	-48.92	16.03	-32.89		
		7530.00	V	-57.13	18.11	-39.02		
		10040.00	V	-58.00	24.19	-33.81		
		5020.00	Horizontal	-52.75	16.03	-36.72		
	Mid	7530.00	H	-51.46	18.11	-33.35	-25.00	PASS
		10040.00	H	-63.72	24.19	-39.53		
		5070.00	Vertical	-46.94	15.66	-31.28		
		7605.00	V	-47.83	17.87	-29.96		
		10140.00	V	-56.74	23.88	-32.86		
		5070.00	Horizontal	-56.61	15.66	-40.95		
	High	7605.00	H	-58.02	17.87	-40.15	-25.00	PASS
		10140.00	H	-65.40	23.88	-41.52		
		5120.00	Vertical	-45.77	16.15	-29.62		
		7680.00	V	-49.93	18.19	-31.74		
		10240.00	V	-58.68	24.26	-34.42		
		5120.00	Horizontal	-54.25	16.15	-38.10		
20MHz	High	7680.00	H	-56.76	18.19	-38.57	-25.00	PASS
		10240.00	H	-65.42	24.26	-41.16		



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	-40.59	4.21	-36.38	-13.00	PASS
		2099.10	V	-49.24	9.12	-40.12		
		2798.80	V	-52.30	11.36	-40.94		
		1399.40	Horizontal	-41.15	4.21	-36.94	-13.00	PASS
		2099.10	H	-49.76	9.12	-40.64		
		2798.80	H	-52.74	11.36	-41.38		
	Mid	1415.00	Vertical	-40.22	4.26	-35.96	-13.00	PASS
		2122.50	V	-48.88	9.15	-39.73		
		2830.00	V	-51.96	11.39	-40.57		
		1415.00	Horizontal	-40.69	4.26	-36.43	-13.00	PASS
		2122.50	H	-49.38	9.15	-40.23		
		2830.00	H	-52.38	11.39	-40.99		
	High	1430.60	Vertical	-39.54	4.29	-35.25	-13.00	PASS
		2145.90	V	-48.19	9.11	-39.08		
		2861.20	V	-51.26	11.31	-39.95		
		1430.60	Horizontal	-40.47	4.29	-36.18	-13.00	PASS
		2145.90	H	-49.11	9.11	-40.00		
		2861.20	H	-52.10	11.31	-40.79		
3MHz	Low	1401.00	Vertical	-39.11	4.32	-34.79	-13.00	PASS
		2101.50	V	-46.94	9.16	-37.78		
		2802.00	V	-50.35	11.35	-39.00		
		1401.00	Horizontal	-39.37	4.32	-35.05	-13.00	PASS
		2101.50	H	-47.82	9.16	-38.66		
		2802.00	H	-51.44	11.35	-40.09		
	Mid	1415.00	Vertical	-37.78	4.26	-33.52	-13.00	PASS
		2122.50	V	-45.73	9.15	-36.58		
		2830.00	V	-49.08	11.39	-37.69		
		1415.00	Horizontal	-38.25	4.26	-33.99	-13.00	PASS
		2122.50	H	-47.07	9.15	-37.92		
		2830.00	H	-50.63	11.39	-39.24		
	High	1429.00	Vertical	-36.78	4.42	-32.36	-13.00	PASS
		2143.50	V	-44.98	9.25	-35.73		
		2858.00	V	-48.60	11.46	-37.14		
		1429.00	Horizontal	-37.29	4.42	-32.87	-13.00	PASS
		2143.50	H	-46.32	9.25	-37.07		



		2858.00	H	-49.20	11.46	-37.74		
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5MHz	Low	1403.00	Vertical	-35.24	4.13	-31.11	-13.00	PASS
		2104.50	V	-42.89	9.06	-33.83		
		2806.00	V	-46.99	11.27	-35.72		
		1403.00	Horizontal	-37.95	4.13	-33.82		
		2104.50	H	-47.82	9.06	-38.76		
		2806.00	H	-49.84	11.27	-38.57		
	Mid	1415.00	Vertical	-35.98	4.26	-31.72	-13.00	PASS
		2122.50	V	-44.12	9.15	-34.97		
		2830.00	V	-48.09	11.39	-36.70		
		1415.00	Horizontal	-39.50	4.26	-35.24		
		2122.50	H	-48.87	9.15	-39.72		
		2830.00	H	-50.69	11.39	-39.30		
	High	1427.00	Vertical	-37.48	4.22	-33.26	-13.00	PASS
		2140.50	V	-45.23	9.16	-36.07		
		2854.00	V	-48.97	11.32	-37.65		
		1427.00	Horizontal	-40.57	4.22	-36.35		
		2140.50	H	-49.91	9.16	-40.75		
		2854.00	H	-51.40	11.32	-40.08		
10MHz	Low	1408.00	Vertical	-36.52	4.29	-32.23	-13.00	PASS
		2112.00	V	-44.71	9.19	-35.52		
		2816.00	V	-48.33	11.35	-36.98		
		1408.00	Horizontal	-42.21	4.29	-37.92		
		2112.00	H	-51.01	9.19	-41.82		
		2816.00	H	-52.66	11.35	-41.31		
	Mid	1415.00	Vertical	-37.71	4.26	-33.45	-13.00	PASS
		2122.50	V	-45.69	9.15	-36.54		
		2830.00	V	-49.60	11.39	-38.21		
		1415.00	Horizontal	-42.98	4.26	-38.72		
		2122.50	H	-52.17	9.15	-43.02		
		2830.00	H	-53.64	11.39	-42.25		
	High	1422.00	Vertical	-38.26	4.36	-33.90	-13.00	PASS
		2133.00	V	-46.83	9.27	-37.56		
		2844.00	V	-50.78	11.39	-39.39		
		1422.00	Horizontal	-42.11	4.36	-37.75		
		2133.00	H	-51.73	9.27	-42.46		
		2844.00	H	-52.89	11.39	-41.50		



LTE Band 13								
Bandwidth	Channel	Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
			Polarization	reading (dBm)	factor (dB)	Level (dBm)		
5MHz	Low	1559.00	Vertical	-59.38	4.98	-54.40	-40.00	PASS
		2338.50	V	-49.02	9.12	-39.90	-13.00	
		3118.00	V	-53.08	12.46	-40.62	-13.00	
		1559.00	Horizontal	-60.63	4.98	-55.65	-40.00	PASS
		2338.50	H	-50.20	9.12	-41.08	-13.00	
		3118.00	H	-54.08	12.46	-41.62	-13.00	
	Mid	1564.00	Vertical	-58.49	5.03	-53.46	-40.00	PASS
		2346.00	V	-48.21	9.19	-39.02	-13.00	
		3128.00	V	-52.26	12.47	-39.79	-13.00	
		1564.00	Horizontal	-59.53	5.03	-54.50	-40.00	PASS
		2346.00	H	-49.34	9.19	-40.15	-13.00	
		3128.00	H	-53.21	12.47	-40.74	-13.00	
	High	1569.00	Vertical	-56.95	5.09	-51.86	-40.00	PASS
		2353.50	V	-46.78	9.22	-37.56	-13.00	
		3138.00	V	-50.93	12.53	-38.40	-13.00	
		1569.00	Horizontal	-59.03	5.09	-53.94	-40.00	PASS
		2353.50	H	-48.84	9.22	-39.62	-13.00	
		3138.00	H	-52.82	12.53	-40.29	-13.00	
10MHz	Mid	1564.00	Vertical	-55.85	5.03	-50.82	-40.00	PASS
		2346.00	V	-43.82	9.19	-34.63	-13.00	
		3128.00	V	-48.73	12.47	-36.26	-13.00	
		1564.00	Horizontal	-56.43	5.03	-51.40	-40.00	PASS
		2346.00	H	-45.80	9.19	-36.61	-13.00	
		3128.00	H	-51.18	12.47	-38.71	-13.00	

LTE Band 17								
Bandwidth	Channel	Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
			Polarization	reading (dBm)	factor (dB)	Level (dBm)		
5MHz	Low	1413.00	Vertical	-39.97	4.26	-35.71	-13.00	PASS
		2119.50	V	-48.29	8.72	-39.57		
		2826.00	V	-51.94	11.36	-40.58		



10MHz		1413.00	Horizontal	-41.20	4.26	-36.94	-13.00	PASS
		2119.50	H	-49.45	8.72	-40.73		
		2826.00	H	-52.93	11.36	-41.57		
	Mid	1420.00	Vertical	-38.99	4.21	-34.78	-13.00	PASS
		2130.00	V	-47.96	9.26	-38.70		
		2840.00	V	-51.14	11.38	-39.76		
		1420.00	Horizontal	-40.02	4.21	-35.81	-13.00	PASS
		2130.00	H	-49.07	9.26	-39.81		
		2840.00	H	-52.08	11.38	-40.70		
	High	1427.00	Vertical	-37.46	4.26	-33.20	-13.00	PASS
		2140.50	V	-46.39	9.13	-37.26		
		2854.00	V	-49.74	11.35	-38.39		
		1427.00	Horizontal	-39.52	4.26	-35.26	-13.00	PASS
		2140.50	H	-48.42	9.13	-39.29		
		2854.00	H	-51.61	11.35	-40.26		
10MHz	Low	1418.00	Vertical	-36.31	4.13	-32.18	-13.00	PASS
		2127.00	V	-43.60	9.23	-34.37		
		2836.00	V	-48.13	11.85	-36.28		
		1418.00	Horizontal	-36.89	4.13	-32.76	-13.00	PASS
		2127.00	H	-45.55	9.23	-36.32		
		2836.00	H	-50.56	11.85	-38.71		
	Mid	1420.00	Vertical	-33.56	4.21	-29.35	-13.00	PASS
		2130.00	V	-40.97	9.26	-31.71		
		2840.00	V	-44.75	11.38	-33.37		
		1420.00	Horizontal	-34.61	4.21	-30.40	-13.00	PASS
		2130.00	H	-43.93	9.26	-34.67		
		2840.00	H	-48.20	11.38	-36.82		
	High	1422.00	Vertical	-30.94	4.18	-26.76	-13.00	PASS
		2133.00	V	-39.07	9.24	-29.83		
		2844.00	V	-43.96	11.82	-32.14		
		1422.00	Horizontal	-32.10	4.18	-27.92	-13.00	PASS
		2133.00	H	-42.02	9.24	-32.78		
		2844.00	H	-45.32	11.82	-33.50		



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	-49.19	13.44	-35.75	-13.00	PASS
		5552.10	V	-56.10	16.65	-39.45		
		7402.80	V	-58.28	17.79	-40.49		
		3701.40	Horizontal	-50.51	13.44	-37.07	-13.00	PASS
		5552.10	H	-57.34	16.65	-40.69		
		7402.80	H	-59.33	17.79	-41.54		
	Mid	3765.00	Vertical	-48.28	13.52	-34.76	-13.00	PASS
		5647.50	V	-55.19	16.67	-38.52		
		7530.00	V	-57.47	17.85	-39.62		
		3765.00	Horizontal	-49.38	13.52	-35.86	-13.00	PASS
		5647.50	H	-56.38	16.67	-39.71		
		7530.00	H	-58.46	17.85	-40.61		
	High	3828.60	Vertical	-46.68	13.61	-33.07	-13.00	PASS
		5742.90	V	-53.68	16.70	-36.98		
		7657.20	V	-56.04	17.88	-38.16		
		3828.60	Horizontal	-48.88	13.61	-35.27	-13.00	PASS
		5742.90	H	-55.85	16.70	-39.15		
		7657.20	H	-58.02	17.88	-40.14		
3MHz	Low	3703.00	Vertical	-45.47	13.49	-31.98	-13.00	PASS
		5554.50	V	-50.52	16.63	-33.89		
		7406.00	V	-53.71	17.80	-35.91		
		3703.00	Horizontal	-46.09	13.49	-32.60	-13.00	PASS
		5554.50	H	-52.61	16.63	-35.98		
		7406.00	H	-56.28	17.80	-38.48		
	Mid	3765.00	Vertical	-42.48	13.52	-28.96	-13.00	PASS
		5647.50	V	-47.71	16.67	-31.04		
		7530.00	V	-50.65	17.85	-32.80		
		3765.00	Horizontal	-43.60	13.52	-30.08	-13.00	PASS
		5647.50	H	-50.89	16.67	-34.22		
		7530.00	H	-54.31	17.85	-36.46		
	High	3827.00	Vertical	-39.83	13.63	-26.20	-13.00	PASS
		5740.50	V	-45.74	16.71	-29.03		



		7654.00	V	-49.34	17.85	-31.49		
		3827.00	Horizontal	-41.06	13.63	-27.43		
		5740.50	H	-48.91	16.71	-32.20	-13.00	PASS
		7654.00	H	-50.76	17.85	-32.91		

5MHz	Low	3705.00	Vertical	-36.75	13.52	-23.23	-13.00	PASS
		5557.50	V	-41.18	16.66	-24.52		
		7410.00	V	-45.93	17.82	-28.11		
		3705.00	Horizontal	-43.21	13.52	-29.69	-13.00	PASS
		5557.50	H	-52.88	16.66	-36.22		
		7410.00	H	-52.71	17.82	-34.89		
	Mid	3765.00	Vertical	-38.20	13.52	-24.68	-13.00	PASS
		5647.50	V	-43.88	16.67	-27.21		
		7530.00	V	-48.29	17.85	-30.44		
		3765.00	Horizontal	-46.57	13.52	-33.05	-13.00	PASS
		5647.50	H	-55.17	16.67	-38.50		
		7530.00	H	-54.48	17.85	-36.63		
	High	17330.00	Vertical	-42.00	13.66	-28.34	-13.00	PASS
		5737.50	V	-46.61	16.80	-29.81		
		7650.00	V	-50.58	17.90	-32.68		
		3825.00	Horizontal	-49.34	13.66	-35.68	-13.00	PASS
		5737.50	H	-57.74	16.80	-40.94		
		7650.00	H	-56.38	17.90	-38.48		
10MHz	Low	3710.00	Vertical	-39.45	13.55	-25.90	-13.00	PASS
		5565.00	V	-45.10	16.60	-28.50		
		7420.00	V	-48.95	17.85	-31.10		
		3710.00	Horizontal	-52.95	13.55	-39.40	-13.00	PASS
		5565.00	H	-60.08	16.60	-43.48		
		7420.00	H	-59.26	17.85	-41.41		
	Mid	3765.00	Vertical	-42.31	13.52	-28.79	-13.00	PASS
		5647.50	V	-47.59	16.67	-30.92		
		7530.00	V	-51.86	17.85	-34.01		
		3765.00	Horizontal	-54.82	13.52	-41.30	-13.00	PASS
		5647.50	H	-62.99	16.67	-46.32		
		7530.00	H	-61.50	17.85	-43.65		
	High	3820.00	Vertical	-43.55	13.69	-29.86	-13.00	PASS



		5730.00	V	-50.17	16.84	-33.33	-13.00	PASS
		7640.00	V	-54.69	17.88	-36.81		
		3820.00	Horizontal	-52.69	13.69	-39.00		
		5730.00	H	-61.82	16.84	-44.98		
		7640.00	H	-59.75	17.88	-41.87		

15MHz	Low	3715.00	Vertical	-41.51	13.61	-27.90	-13.00	PASS
		5572.50	V	-48.17	16.61	-31.56		
		7430.00	V	-52.80	17.88	-34.92		
		3715.00	Horizontal	-54.47	13.61	-40.86		
		5572.50	H	-63.34	16.61	-46.73		
		7430.00	H	-61.23	17.88	-43.35		
	Mid	3765.00	Vertical	-42.81	13.52	-29.29	-13.00	PASS
		5647.50	V	-49.54	16.67	-32.87		
		7530.00	V	-54.00	17.85	-36.15		
		3765.00	Horizontal	-52.62	13.52	-39.10		
		5647.50	H	-61.57	16.67	-44.90		
		7530.00	H	-60.17	17.85	-42.32		
	High	3815.00	Vertical	-41.61	13.77	-27.84	-13.00	PASS
		5722.50	V	-47.02	16.87	-30.15		
		7630.00	V	-51.30	17.84	-33.46		
		3815.00	Horizontal	-55.18	13.77	-41.41		
		5722.50	H	-65.51	16.87	-48.64		
		7630.00	H	-64.00	17.84	-46.16		
20MHz	Low	3720.00	Vertical	-43.80	13.67	-30.13	-13.00	PASS
		5580.00	V	-49.35	16.60	-32.75		
		7440.00	V	-53.33	17.91	-35.42		
		3720.00	Horizontal	-55.52	13.67	-41.85		
		5580.00	H	-65.66	16.60	-49.06		
		7440.00	H	-64.42	17.91	-46.51		
	Mid	3765.00	Vertical	-43.98	13.52	-30.46	-13.00	PASS
		5647.50	V	-49.73	16.67	-33.06		
		7530.00	V	-53.56	17.85	-35.71		
		3765.00	Horizontal	-55.66	13.52	-42.14		
		5647.50	H	-65.97	16.67	-49.30		
		7530.00	H	-64.58	17.85	-46.73		



	High	3810.00	Vertical	-42.60	13.81	-28.79	-13.00	PASS
		5715.00	V	-47.67	16.85	-30.82		
		7620.00	V	-51.97	17.87	-34.10		
		3810.00	Horizontal	-56.26	13.81	-42.45	-13.00	PASS
		5715.00	H	-66.44	16.85	-49.59		
		7620.00	H	-64.85	17.87	-46.98		

LTE Band 41								
Bandwidth	Channel	Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
			Polarization	reading (dBm)	factor (dB)	Level (dBm)		
5MHz	Low	4997.00	Vertical	-55.25	15.64	-39.61	-25.00	PASS
		7495.50	V	-58.1	17.82	-40.28		
		9994.00	V	-61.2	23.83	-37.37		
		4997.00	Horizontal	-56.75	15.64	-41.11	-25.00	PASS
		7495.50	H	-59.51	17.82	-41.69		
		9994.00	H	-62.4	23.83	-38.57		
	Mid	5186.00	Vertical	-54.17	15.69	-38.48	-25.00	PASS
		7779.00	V	-57.18	17.96	-39.22		
		10372.00	V	-60.57	24.20	-36.37		
		5186.00	Horizontal	-55.42	15.69	-39.73	-25.00	PASS
		7779.00	H	-58.54	17.96	-40.58		
		10372.00	H	-61.71	24.20	-37.51		
	High	5375.00	Vertical	-52.52	15.96	-36.56	-25.00	PASS
		8062.50	V	-56.11	18.64	-37.47		
		10750.00	V	-59	24.29	-34.71		
		5375.00	Horizontal	-55.02	15.96	-39.06	-25.00	PASS
		8062.50	H	-58.59	18.64	-39.95		
		10750.00	H	-61.26	24.29	-36.97		
10MHz	Low	5002.00	Vertical	-50.97	15.65	-35.32	-25.00	PASS
		7503.00	V	-51.78	17.83	-33.95		
		10004.00	V	-56	23.85	-32.15		
		5002.00	Horizontal	-51.67	15.65	-36.02	-25.00	PASS
		7503.00	H	-54.17	17.83	-36.34		
		10004.00	H	-58.93	23.85	-35.08		
	Mid	5186.00	Vertical	-47.57	15.69	-31.88	-25.00	PASS



		7779.00	V	-48.67	17.96	-30.71		PASS
		10372.00	V	-52.81	24.20	-28.61		
		5186.00	Horizontal	-48.84	15.69	-33.15		
		7779.00	H	-52.29	17.96	-34.33		
		10372.00	H	-56.97	24.20	-32.77		
	High	5370.00	Vertical	-44.53	15.80	-28.73	-25.00	PASS
		8055.00	V	-49.34	18.64	-30.70		
		10740.00	V	-52.82	24.29	-28.53		
		5370.00	Horizontal	-46.6	15.80	-30.80		
		8055.00	H	-51.18	18.64	-32.54		
		10740.00	H	-53.91	24.29	-29.62		

15MHz	Low	5007.00	Vertical	-47.61	15.67	-31.94	-25.00	PASS
		7510.50	V	-46.65	17.84	-28.81		
		10014.00	V	-52.15	23.85	-28.30		
		5007.00	Horizontal	-54.26	15.67	-38.59		
		7510.50	H	-58.76	17.84	-40.92		
		10014.00	H	-61.18	23.85	-37.33		
	Mid	5186.00	Vertical	-49.22	15.69	-33.53	-25.00	PASS
		7779.00	V	-51.74	17.96	-33.78		
		10372.00	V	-52.96	24.20	-28.76		
		5186.00	Horizontal	-52.67	15.69	-36.98		
		7779.00	H	-54.89	17.96	-36.93		
		10372.00	H	-58.95	24.20	-34.75		
	High	5365.00	Vertical	-44.47	15.51	-28.96	-25.00	PASS
		8047.50	V	-49.52	18.66	-30.86		
		10730.00	V	-52.97	24.30	-28.67		
		5365.00	Horizontal	-49.30	15.51	-33.79		
		8047.50	H	-53.98	18.66	-35.32		
		10730.00	H	-56.03	24.30	-31.73		
20MHz	Low	5012.00	Vertical	-44.83	15.67	-29.16	-25.00	PASS
		7518.00	V	-45.15	17.84	-27.31		
		10024.00	V	-51.74	23.86	-27.88		
		5012.00	Horizontal	-58.50	15.67	-42.83		



		7518.00	H	-61.66	17.84	-43.82		
		10024.00	H	-64.53	23.86	-40.67		
	Mid	5186.00	Vertical	-52.51	15.69	-36.82	-25.00	PASS
		7779.00	V	-54.50	17.96	-36.54		
		10372.00	V	-56.27	24.20	-32.07		
		5186.00	Horizontal	-54.84	15.69	-39.15	-25.00	PASS
		7779.00	H	-58.12	17.96	-40.16		
		10372.00	H	-61.50	24.20	-37.30		
	High	5360.00	Vertical	-46.16	15.98	-30.18	-25.00	PASS
		8040.00	V	-52.26	18.65	-33.61		
		10720.00	V	-56.20	24.34	-31.86		
		5360.00	Horizontal	-47.15	15.98	-31.17	-25.00	PASS
		8040.00	H	-52.45	18.65	-33.80		
		10720.00	H	-54.04	24.34	-29.70		

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	-48.16	12.41	-35.75	-13.00	PASS
		5132.10	V	-55.13	15.69	-39.44		
		6842.80	V	-59.43	18.95	-40.48		
		3421.40	Horizontal	-49.49	12.41	-37.08	-13.00	PASS
		5132.10	H	-56.38	15.69	-40.69		
		6842.80	H	-60.49	18.95	-41.54		
	Mid	3465.00	Vertical	-47.21	12.46	-34.75	-13.00	PASS
		5197.50	V	-54.21	15.71	-38.50		
		6930.00	V	-58.57	18.97	-39.60		
		3465.00	Horizontal	-48.32	12.46	-35.86	-13.00	PASS
		5197.50	H	-55.41	15.71	-39.70		
		6930.00	H	-59.57	18.97	-40.60		
	High	3508.60	Vertical	-45.54	12.49	-33.05	-13.00	PASS
		5262.90	V	-52.71	15.76	-36.95		
		7017.20	V	-57.15	19.02	-38.13		
		3508.60	Horizontal	-47.75	12.49	-35.26	-13.00	PASS



3MHz		5262.90	H	-54.90	15.76	-39.14		
		7017.20	H	-59.14	19.02	-40.12		
	Low	3423.00	Vertical	-44.48	12.53	-31.95	-13.00	PASS
		5134.50	V	-49.63	15.79	-33.84		
		6846.00	V	-54.98	19.12	-35.86		
		3423.00	Horizontal	-45.10	12.53	-32.57		
		5134.50	H	-51.74	15.79	-35.95		
		6846.00	H	-57.57	19.12	-38.45		
	Mid	3465.00	Vertical	-41.37	12.46	-28.91	-13.00	PASS
		5197.50	V	-46.68	15.71	-30.97		
		6930.00	V	-51.70	18.97	-32.73		
		3465.00	Horizontal	-42.49	12.46	-30.03		
		5197.50	H	-49.88	15.71	-34.17		
		6930.00	H	-55.38	18.97	-36.41		
	High	3507.00	Vertical	-38.71	12.59	-26.12	-13.00	PASS
		5260.50	V	-44.79	15.84	-28.95		
		7014.00	V	-50.60	19.19	-31.41		
		3507.00	Horizontal	-39.95	12.59	-27.36		
		5260.50	H	-47.98	15.84	-32.14		
		7014.00	H	-52.02	19.19	-32.83		

5MHz	Low	3425.00	Vertical	-35.25	12.12	-23.13	-13.00	PASS
		5137.50	V	-40.13	15.72	-24.41		
		6850.00	V	-47.03	19.03	-28.00		
		3425.00	Horizontal	-41.76	12.12	-29.64		
		5137.50	H	-51.91	15.72	-36.19		
		6850.00	H	-53.85	19.03	-34.82		
	Mid	3465.00	Vertical	-37.05	12.46	-24.59	-13.00	PASS
		5197.50	V	-42.83	15.71	-27.12		
		6930.00	V	-49.32	18.97	-30.35		
		3465.00	Horizontal	-45.48	12.46	-33.02		
		5197.50	H	-54.20	15.71	-38.49		
		6930.00	H	-55.54	18.97	-36.57		
	High	3505.00	Vertical	-40.47	12.19	-28.28	-13.00	PASS
		5257.50	V	-45.54	15.79	-29.75		
		7010.00	V	-51.84	19.23	-32.61		



10MHz		3505.00	Horizontal	-47.86	12.19	-35.67	-13.00	PASS
		5257.50	H	-56.74	15.79	-40.95		
		7010.00	H	-57.67	19.23	-38.44		
	Low	3430.00	Vertical	-38.05	12.23	-25.82	-13.00	PASS
		5145.00	V	-44.25	15.82	-28.43		
		6860.00	V	-50.28	19.26	-31.02		
		3430.00	Horizontal	-51.65	12.23	-39.42	-13.00	PASS
		5145.00	H	-59.33	15.82	-43.51		
		6860.00	H	-60.65	19.26	-41.39		
	Mid	3465.00	Vertical	-41.19	12.46	-28.73	-13.00	PASS
		5197.50	V	-46.58	15.71	-30.87		
		6930.00	V	-52.92	18.97	-33.95		
		3465.00	Horizontal	-53.80	12.46	-41.34	-13.00	PASS
		5197.50	H	-62.08	15.71	-46.37		
		6930.00	H	-62.62	18.97	-43.65		
	High	3500.00	Vertical	-42.16	12.35	-29.81	-13.00	PASS
		5250.00	V	-49.19	15.89	-33.30		
		7000.00	V	-56.12	19.35	-36.77		
		3500.00	Horizontal	-51.37	12.35	-39.02	-13.00	PASS
		5250.00	H	-60.91	15.89	-45.02		
		7000.00	H	-61.20	19.35	-41.85		

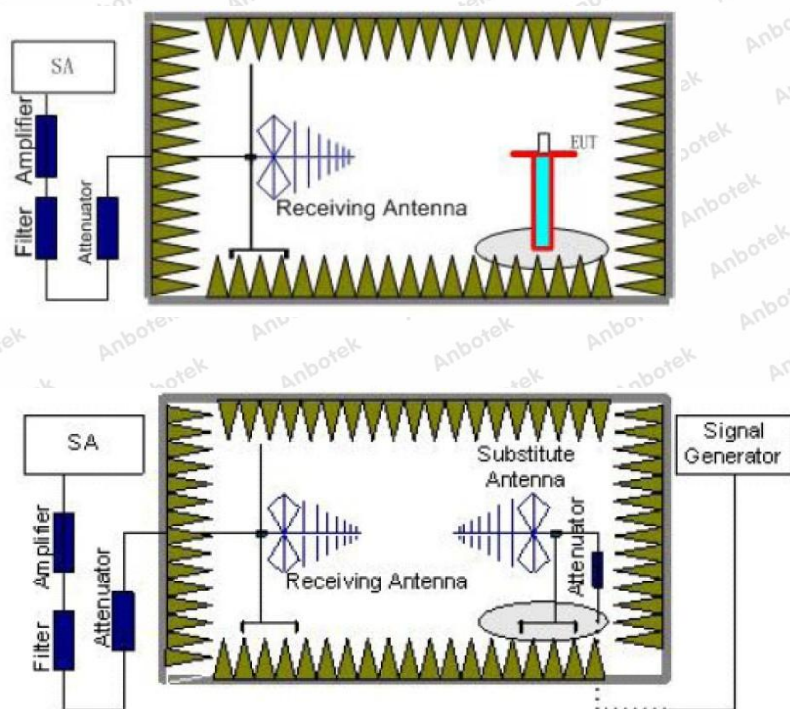


10. ERP and EIRP

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)
Limit:	$ERP \leq 7W(38.45dBm)$ (LTE Band 5) $EIRP \leq 2W(33.00dBm)$ (LTE Band 2,25) $ERP \leq 3W(34.77dBm)$ (LTE Band 13) $ERP \leq 3W(34.77dBm)$ (LTE Band 12,17) $EIRP \leq 1W(30.00dBm)$ (LTE Band 4,66) $EIRP \leq 2W(33.00dBm)$ (LTE Band 7,41)

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:
$$Pe = Ps(\text{dBm}) - \text{cable loss (dB)} + \text{antenna gain (dBd)}$$



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	21.22	18.68	33.00	PASS
		Mid	21.48	18.60		
		High	21.26	18.69		
	16QAM	Low	19.24	16.93		PASS
		Mid	19.57	17.05		
		High	19.25	17.24		
3MHz	QPSK	Low	20.98	18.22	33.00	PASS
		Mid	21.33	18.59		
		High	21.00	18.50		
	16QAM	Low	19.89	17.59		PASS
		Mid	19.93	17.39		
		High	19.28	17.39		
5MHz	QPSK	Low	22.04	19.23	33.00	PASS
		Mid	22.28	19.06		
		High	22.23	19.20		
	16QAM	Low	20.16	17.45		PASS
		Mid	20.35	17.52		
		High	19.98	17.67		
10MHz	QPSK	Low	22.00	19.32	33.00	PASS
		Mid	22.24	19.15		
		High	22.19	19.39		
	16QAM	Low	20.11	17.59		PASS
		Mid	20.31	17.73		
		High	19.95	17.81		
15MHz	QPSK	Low	21.66	18.77	33.00	PASS
		Mid	21.99	19.07		
		High	21.81	19.11		
	16QAM	Low	20.65	18.17		PASS
		Mid	20.57	17.98		
		High	19.88	17.89		
20MHz	QPSK	Low	21.84	18.94	33.00	PASS
		Mid	22.27	19.29		
		High	22.09	19.29		
	16QAM	Low	20.92	18.53		PASS
		Mid	20.80	18.17		



		High	20.10	17.98		
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LTE Band 4						
Bandwidth	Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result
			Vertical	Horizontal		
1.4MHz	QPSK	Low	22.30	20.49	30.00	PASS
		Mid	22.77	20.89		
		High	22.82	20.57		
	16QAM	Low	20.03	18.82		PASS
		Mid	20.44	19.26		
		High	20.37	19.08		
3MHz	QPSK	Low	22.73	20.49	30.00	PASS
		Mid	22.68	20.65		
		High	22.50	20.42		
	16QAM	Low	20.32	19.26		PASS
		Mid	20.66	18.75		
		High	20.67	19.29		
5MHz	QPSK	Low	23.33	21.03	30.00	PASS
		Mid	23.61	21.41		
		High	23.63	21.12		
	16QAM	Low	20.80	19.20		PASS
		Mid	21.12	20.17		
		High	20.93	19.37		
10MHz	QPSK	Low	22.89	20.87	30.00	PASS
		Mid	23.25	21.24		
		High	23.28	20.92		
	16QAM	Low	20.47	19.12		PASS
		Mid	20.83	19.52		
		High	20.69	19.30		
15MHz	QPSK	Low	23.35	20.81	30.00	PASS
		Mid	23.19	20.96		
		High	22.99	20.75		
	16QAM	Low	20.78	19.49		PASS
		Mid	21.07	19.30		
		High	21.01	19.47		
20MHz	QPSK	Low	23.41	20.87	30.00	PASS



	16QAM	Mid	23.42	21.07	PASS
		High	23.19	20.81	
		Low	20.76	19.56	
		Mid	21.29	19.23	
		High	21.26	19.63	

LTE Band 5						
Bandwidth	Modulation	Channel	ERP (dBm)		Limit (dBm)	Result
			Vertical	Horizontal		
1.4MHz	QPSK	Low	22.55	21.25	38.45	PASS
		Mid	22.97	21.56		
		High	22.93	21.52		
	16QAM	Low	20.13	18.84		PASS
		Mid	20.22	19.42		
		High	20.28	19.10		
3MHz	QPSK	Low	24.12	20.57	38.45	PASS
		Mid	23.67	20.83		
		High	23.07	20.56		
	16QAM	Low	19.99	19.67		PASS
		Mid	20.21	19.10		
		High	20.27	18.82		
5MHz	QPSK	Low	23.53	20.95	38.45	PASS
		Mid	23.27	21.21		
		High	22.69	20.80		
	16QAM	Low	20.81	19.70		PASS
		Mid	20.61	19.95		
		High	20.54	19.78		
10MHz	QPSK	Low	23.43	20.99	38.45	PASS
		Mid	23.18	21.25		
		High	22.62	20.83		
	16QAM	Low	20.83	19.20		PASS
		Mid	21.00	19.82		
		High	21.12	19.54		



LTE Band 7						
Bandwidth	Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result
			Vertical	Horizontal		
5MHz	QPSK	Low	21.33	18.95	33.00	PASS
		Mid	21.50	18.73		
		High	21.25	18.73		
	16QAM	Low	19.48	17.32		PASS
		Mid	19.65	17.24		
		High	19.44	17.43		
10MHz	QPSK	Low	21.20	18.55	33.00	PASS
		Mid	21.27	18.66		
		High	21.05	18.59		
	16QAM	Low	19.91	17.80		PASS
		Mid	19.87	17.46		
		High	19.70	17.70		
15MHz	QPSK	Low	22.08	19.45	33.00	PASS
		Mid	22.37	19.22		
		High	22.13	19.19		
	16QAM	Low	20.31	17.79		PASS
		Mid	20.35	17.67		
		High	20.10	17.81		
20MHz	QPSK	Low	22.04	19.53	33.00	PASS
		Mid	22.25	19.27		
		High	22.04	19.32		
	16QAM	Low	19.99	17.71		PASS
		Mid	20.23	17.77		
		High	19.93	17.83		

LTE Band 12						
Bandwidth	Modulation	Channel	ERP (dBm)		Limit (dBm)	Result
			Vertical	Horizontal		
1.4MHz	QPSK	Low	21.14	18.69	34.77	PASS
		Mid	21.22	18.60		
		High	21.21	18.64		
	16QAM	Low	19.41	17.16		PASS



3MHz	QPSK	Mid	19.55	17.25	34.77	PASS
		High	19.46	17.38		
		Low	20.93	18.29		
	16QAM	Mid	21.08	18.59		
		High	20.99	18.48		
		Low	19.97	17.74		
5MHz	QPSK	Mid	19.86	17.54	34.77	PASS
		High	19.48	17.51		
		Low	21.85	19.17		
	16QAM	Mid	21.92	19.00		
		High	22.06	19.08		
		Low	20.21	17.62		
10MHz	QPSK	Mid	20.23	17.66	34.77	PASS
		High	20.10	17.75		
		Low	21.82	19.25		
	16QAM	Mid	21.88	19.08		
		High	22.02	19.25		
		Low	20.17	17.74		
	QPSK	Mid	20.20	17.84	34.77	PASS
		High	20.07	17.88		
		Low	21.82	19.25		
	16QAM	Mid	21.88	19.08		
		High	22.02	19.25		
		Low	20.17	17.74		

LTE Band 13						
Bandwidth	Modulation	Channel	ERP (dBm)		Limit (dBm)	Result
			Vertical	Horizontal		
5MHz	QPSK	Low	21.82	20.11	34.77	PASS
		Mid	22.07	20.04		
		High	21.95	20.16		
	16QAM	Low	18.59	17.25		
		Mid	18.97	17.52		
		High	18.68	17.81		
10MHz	QPSK	Mid	21.43	19.35	34.77	PASS
	16QAM	Mid	21.82	20.02		



LTE Band 17						
Bandwidth	Modulation	Channel	ERP (dBm)		Limit (dBm)	Result
			Vertical	Horizontal		
5MHz	QPSK	Low	22.66	20.42	34.77	PASS
		Mid	23.15	20.24		
		High	22.42	20.99		
	16QAM	Low	18.90	17.62		PASS
		Mid	19.47	18.03		
		High	19.16	18.00		
10MHz	QPSK	Low	22.56	19.60	34.77	PASS
		Mid	23.04	19.92		
		High	22.33	19.64		
	16QAM	Low	18.99	17.77		PASS
		Mid	19.55	18.13		
		High	19.23	18.05		

LTE Band 25						
Bandwidth	Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result
			Vertical	Horizontal		
1.4MHz	QPSK	Low	20.62	18.17	33.00	PASS
		Mid	20.82	18.11		
		High	20.49	18.14		
	16QAM	Low	19.96	17.59		PASS
		Mid	20.18	17.60		
		High	19.82	17.65		
3MHz	QPSK	Low	20.54	18.02	33.00	PASS
		Mid	20.77	18.11		
		High	20.41	18.07		
	16QAM	Low	20.18	17.81		PASS
		Mid	20.30	17.71		
		High	19.83	17.70		
5MHz	QPSK	Low	20.89	18.35	33.00	PASS
		Mid	21.09	18.26		
		High	20.81	18.31		
	16QAM	Low	20.27	17.76		PASS



10MHz	QPSK	Mid	20.44	17.76	33.00	PASS
		High	20.06	17.79		
		Low	20.88	18.38		
	16QAM	Mid	21.07	18.29	33.00	PASS
		High	20.80	18.37		
		Low	20.25	17.81		
		Mid	20.43	17.83		
		High	20.05	17.84		
		Low	20.77	18.20		
		Mid	20.99	18.27		
15MHz	QPSK	High	20.68	18.27	33.00	PASS
		Low	20.43	18.00		
		Mid	20.51	17.91		
	16QAM	High	20.03	17.87		
		Low	20.83	18.26		
		Mid	21.08	18.34		
20MHz	QPSK	High	20.77	18.33	33.00	PASS
		Low	20.52	18.12		
		Mid	20.59	17.97		
	16QAM	High	20.10	17.90		
		Low	20.83	18.26		
		Mid	21.08	18.34		

LTE Band 41						
Bandwidth	Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result
			Vertical	Horizontal		
5MHz	QPSK	Low	20.68	18.22	33.00	PASS
		Mid	20.88	18.16		
		High	20.57	18.19		
	16QAM	Low	19.89	17.53		PASS
		Mid	20.13	17.55		
		High	19.77	17.61		
10MHz	QPSK	Low	20.58	18.04	33.00	PASS
		Mid	20.82	18.16		
		High	20.46	18.11		
	16QAM	Low	20.15	17.79		PASS



15MHz	QPSK	Mid	20.27	17.68	33.00	PASS
		High	19.78	17.67		
		Low	21.00	18.44		
	16QAM	Mid	21.20	18.34		
		High	20.96	18.39		
		Low	20.25	17.74		
20MHz	QPSK	Low	20.99	18.47	33.00	PASS
		Mid	21.18	18.38		
		High	20.94	18.47		
	16QAM	Low	20.24	17.79		
		Mid	20.42	17.82		
		High	20.05	17.84		

LTE Band 66						
Bandwidth	Modulation	Channel	EIRP (dBm)		Limit (dBm)	Result
			Vertical	Horizontal		
1.4MHz	QPSK	Low	21.18	18.65	30.00	PASS
		Mid	21.44	18.57		
		High	21.21	18.65		
	16QAM	Low	19.29	16.97		
		Mid	19.61	17.09		
		High	19.29	17.27		
3MHz	QPSK	Low	20.95	18.20	30.00	PASS
		Mid	21.29	18.56		
		High	20.96	18.47		
	16QAM	Low	19.91	17.61		
		Mid	19.96	17.41		
		High	19.31	17.41		
5MHz	QPSK	Low	21.96	19.17	30.00	PASS
		Mid	22.20	19.01		
		High	22.14	19.13		



10MHz	16QAM	Low	20.16	17.47		PASS
		Mid	20.35	17.54		
		High	19.99	17.68		
	QPSK	Low	21.92	19.26	30.00	PASS
		Mid	22.17	19.09		
		High	22.09	19.31		
	16QAM	Low	20.12	17.60		PASS
		Mid	20.32	17.74		
		High	19.95	17.81		
15MHz	QPSK	Low	21.59	18.73	30.00	PASS
		Mid	21.92	19.01		
		High	21.73	19.05		
	16QAM	Low	20.63	18.16		PASS
		Mid	20.57	17.97		
		High	19.89	17.88		
20MHz	QPSK	Low	21.77	18.89	30.00	PASS
		Mid	22.19	19.23		
		High	22.00	19.22		
	16QAM	Low	20.89	18.51		PASS
		Mid	20.79	18.15		
		High	20.09	17.97		

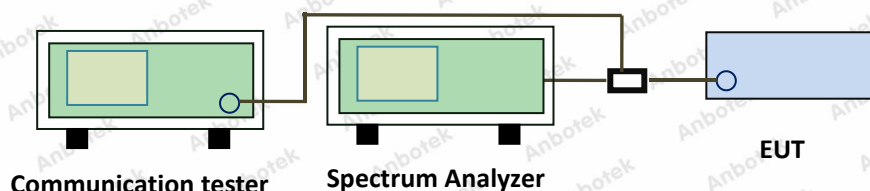


11. Frequency stability VS Voltage measurement

11.1. Test Standard and Limit

Applicable Standard:	Part 2.1055(d)(1)(2) Part 22.355 Part 24.235 Part 27.54
Limit:	$\leq \pm 2.5\text{ppm}$

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 $\pm 15\%$ 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.

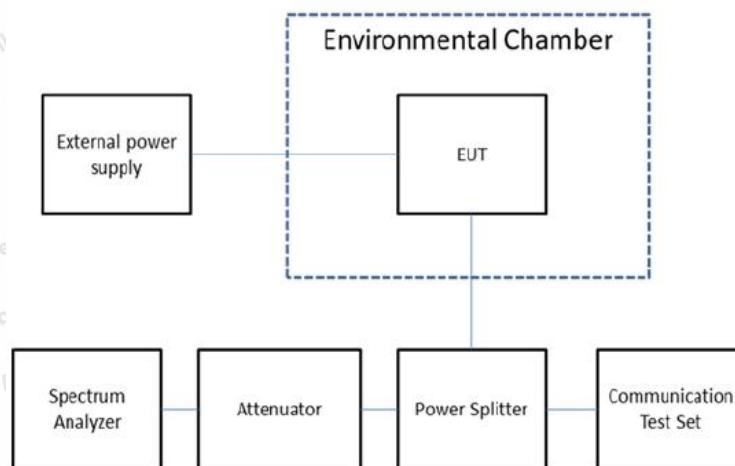


12. Frequency stability VS Temperature measurement

12.1. Test Standard and Limit

Applicable Standard:	Part 2.1055(a)(1)(b) Part 22.355 Part 24.235 Part 27.54
Limit:	$\leq \pm 2.5\text{ppm}$

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 $+50^{\circ}\text{C}$ 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

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 -----

