

Shenzhen HUAK Testing Technology Co., Ltd. Report No.: HK2411207047-5E

FCC Test Report FCC CFR Title 47 Part 2, Part 27

Report Reference No	HK2411207047-5E
FCC ID	2A4FR-LS4G-6-G
Compiled by	or rule or rule or rule
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Date of issue	Dec. 23, 2024
Testing Laboratory Name	Shenzhen HUAK Testing Technology Co., Ltd.
Address	1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Applicant's name	IGEN TECH CO.,Ltd.
Address:	Block F4, No. 200, Linghu Avenue, Wuxi, Jiangsu, P. R. China 225400
Test specification	HUMETE
Standard	FCC CFR Title 47 Part 2, Part 27

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Test item description	Stick Logger(4G)	300
Trade Mark	N/A	
Manufacturer	IGEN TECH CO.,Ltd.	
Model/Type reference	LS4G-6-G	
Series Models	LS4G-6, LS4G-6-D, LS4G	G-6-C, LS4G-6K-D
Modulation Type	QPSK, 16QAM	
Rating	DC 5~12V 4W	
Hardware version:	V2.0	
Software version:	V2.0	
Result	PASS	

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TEST REPORT

Test Report No. :	HK2411207047-5E –	Dec. 23, 2024
Test Report No	HK2411207047-5E	Date of issue
Equipment under Test	: Stick Logger(4G)	
Model /Type	: LS4G-6-G	
Series Models	: LS4G-6, LS4G-6-D, LS4G-	6-C, LS4G-6K-D
Applicant	: IGEN TECH CO.,Ltd.	
Address	Block F4, No. 200, Linghu China 225400	Avenue, Wuxi, Jiangsu, P. R.
Manufacturer	: IGEN TECH CO.,Ltd.	
Address	Block F4, No. 200, Linghu China 225400	Avenue, Wuxi, Jiangsu, P. R.

Test result	Pass	TES
 		101

The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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** Modified History **

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	Revision	Description	Issued Data	Remark
	Revision 1.0	Initial Test Report Release	Dec. 23, 2024	Jason Zhou
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1 <u>Summary</u>

1.1 Test Standards

The tests were performed according to following standards: <u>FCC Part 27:</u> MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES 47 CFR FCC Part 15 Subpart B: - Unintentional Radiators.

FCC Part 2: FREQUENCY ALLOCA-TIONS AND RADIO TREATY MAT-TERS; GENERAL RULES AND REG-ULATIONS.

KDB971168 D01:v03r01: Measurement Guidance For Certification Of Licensed Digital Transmitters.

1.2 Test Description

- 101	103	
Test Item	Section in CFR 47	Result
RF Output Power	Part 2.1046 27.50 (b)(10)	Pass
Peak-to-Average Ratio	27.50 (d)(5)	Pass
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 27.53(h)	Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 27.53(h)	Pass
Field Strength of Spurious Radiation	Clause 7of KDB971168 D01 v02r02	Pass
Out of band emission, Band Edge	2.1051 27.53 (c)(2) and (5), (h)(1) and (3)(i)	Pass
Frequency stability	2.1055 27.54	Pass

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FICATION



1.3 Information of The Test Laboratory

Shenzhen HUAK Testing Technology Co., Ltd. Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01. FCC Designation Number is CN1229. Canada IC CAB identifier is CN0045. CNAS Registration Number is L9589.

1.4 Statement of The Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4:Uncertainty in EMC Measurements" and is documented in the Shenzhen HUAK Testing Technology Co., Ltd.quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen HUAK Testing Technology Co., Ltd.is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10dB	(1)
Radiated Emission	Above 1GHz	4.32dB	(1)
Conducted Disturbance	0.15~30MHz	3.20dB	(1)

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

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2 General Information

2.1 General Remarks

Date of receipt of test sample	:	Nov. 23, 2024
-mig		-mus
Testing commenced on	and the	Nov. 23, 2024
	103	
Testing concluded on	:2	Dec. 23, 2024

2.2 Product Description

Name of EUT	Stick Logger(4G)	
Model/Type reference:	LS4G-6-G	
Series Models:	LS4G-6, LS4G-6-D, LS4G-6-C, LS4G-6K-D	
Power supply:	DC 5~12V 4W	
Adapter Information	N/A	
Modilation Type	QPSK,16QAM	STING
Antenna Type	External Antenna	5×1
Operation Frequency Band	LTE Band 13	
Operation frequency	LTE Band 13: 777~787 MHz	
LTE Release	R8	
Extreme temp. Tolerance	-30°C to +50°C	
Extreme vol. Limits	3.15VDC to 4.26VDC (nominal: 3.7VDC)	

2.3 Equipment Under Test

Power supply system utilised

Power supply voltage	0	0	120V/ 60 Hz	0	115V/60Hz
		Ο	12 V DC	0	24 V DC
			Other (specified in blan	k below)

DC 5~12V 4W

Environmental Conditions During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	25°C	HUAN
Relative Humidity:	55 %	Huber
Air Pressure:	101 kPa	STING

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2.4 Description of Test Modes

The EUT has been tested under typical operating condition. The CMW500 used to control the EUT staying in continuous transmitting and receiving mode for testing. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report. Note:

- 1. For the ERP/EIRP and radiated emission test, every axis (X, Y, Z) was verified, and show the worst resulton this report.
- 2. Test method and refer to 3GPP TS136521.

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2.5 Equipments Used During The Test

	Equipments 030	and the second second	TEM			
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Du Date
1	L.I.S.N.	R&S	ENV216	HKE-002	2024/02/20	2025/02/19
2	L.I.S.N.	R&S	ENV216	HKE-059	2024/02/20	2025/02/19
3	EMI Test Receiver	R&S	ESR	HKE-005	2024/02/20	2025/02/19
4	Spectrum analyzer	Agilent	N9020A	HKE-117	2024/02/20	2025/02/19
5	Spectrum analyzer	R&S	FSV3044	HKE-126	2024/02/20	2025/02/19
6	Preamplifier	EMCI	EMC051845S	HKE-006	2024/02/20	2025/02/19
7	Preamplifier	Schwarzbeck	BBV 9743	HKE-016	2024/02/20	2025/02/19
8	Preamplifier	A.H. Systems	SAS-574	HKE-182	2024/02/20	2025/02/19
9	6d Attenuator	Pasternack	6db	HKE-184	2024/02/20	2025/02/19
10	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	2024/02/20	2025/02/19
11	Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	2024/02/21	2026/02/20
12	Loop Antenna	COM- POWER	AL-130R	HKE-014	2024/02/21	2026/02/20
13	Horn Antenna	Schwarzbeck	9120D	HKE-013	2024/02/21	2026/02/20
14	EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	01	· /
15	EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	1	/
16	RF Automatic control unit	Tonscend	JS0806-1	HKE-096	2024/02/20	2025/02/19
17	High pass filter unit	Tonscend	JS0806-F	HKE-055	2024/02/20	2025/02/19
18	Wireless Communication Test Set	R&S	CMU200	HKE-026	2024/02/20	2025/02/19
19	Wireless Communication Test Set	R&S	CMW500	HKE-027	2024/02/20	2025/02/19
20	High-low temperature chamber	Guangke	HT-80L	HKE-118	2024/06/10	2025/06/09
21	Temperature and humidity meter	Boyang	HTC-1	HKE-075	2024/06/10	2025/06/09
22	RF Test Software	Tonscend	JS1120 Version 3.1.46	HKE-183	HUAKTSTING	/ MARTIST
23	RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE-184	1	1

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2.6 Modifications

No modifications were implemented to meet testing criteria.

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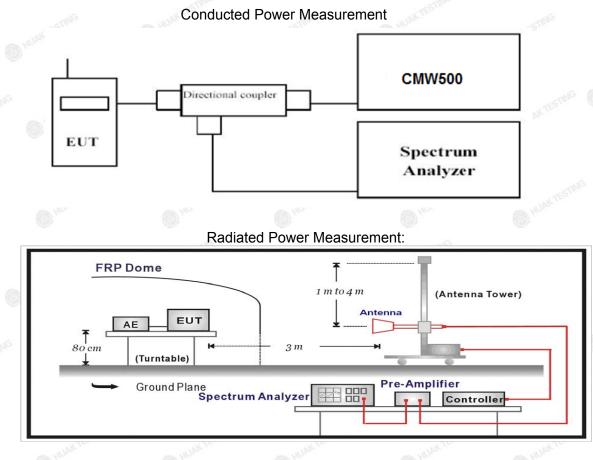
3 Test Conditions and Results

3.1 Output Power

<u>LIMIT</u>

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

TEST CONFIGURATION



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603D.

Conducted Power Measurement:

- a) Place the EUT on a bench and set it in transmitting mode.
- b) Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMW500 by a Directional Couple.
- c) EUT Communicate with CMW500, then select a channel for testing.
- d) Add a correction factor to the display of spectrum, and then test.

Radiated Power Measurement:

- a. The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.
- b. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter.
- c. The output of the test antenna shall be connected to the measuring receiver.
- d. The transmitter shall be switched on and the measuring receiver shall be tuned to the frequency of the transmitter under test.

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- e. The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
- f. The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- g. The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
- h. The maximum signal level detected by the measuring receiver shall be noted.
- i. The transmitter shall be replaced by a substitution antenna.
- j. The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
- k. The substitution antenna shall be connected to a calibrated signal generator.
- I. If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- m. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- n. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
- The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
- p. The measure of the effective radiated power is the larger of the two levels recorded at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.
- q. Test site anechoic chamber refer to ANSI C63.4.

TEST RESULTS

Conducted Measurement:

-65	LTE FDD	Band 13	HUAN	-CSTING
TX Channel		Frequency	Average F	Power [dBm]
Bandwidth	RB Size/Offset	(MHz)	QPSK	16QAM
	TESTIN	779.5	20.98	20.97
	1 RB low	782	20.97	20.94
un restrice	TESTING CONTESTING	784.5	21.61	19.54
	HUAKIL	779.5	21.05	21.32
	1 RB high	782	21.16	21.05
		784.5	19.77	19.77
5 MHz		779.5	21.08	20.78
TING	50% RB mid	782	21.02	20.72
TEST	all TES	784.5	19.64	19.67
O ¹⁴		779.5	20.93	20.68
	100% RB	782	21.02	20.73
NG	STING	784.5	20.70	19.55
1	1 RB low	782	20.07	21.24
10 MHz	1 RB high	782	20.08	21.19
	50% RB mid	782	19.71	19.60
~	100% RB	782	19.85	18.43

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3.2 Radiated Measurement

Remark:

- 1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 13; recorded worst case for each Channel Bandwidth of LTE FDD Band 13.
- 2. EIRP=P_{Mea}(dBm)-P_{cl}(dB)+P_{Ag}(dB)+G_a(dBi) Margin= Limit- EIRP

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
779.5	-16.99	3.06	9.68	34.8	24.43	22.28	34.77	10.34	V
782.0	-17.34	3.17	9.68	34.8	23.97	21.82	34.77	10.8	V
784.5	-15.78	3.22	9.75	34.8	25.55	23.4	34.77	9.22	V
779.5	-18.25	3.06	9.68	34.8	23.17	21.02	34.77	11.6	TESTIH W
782.0	-17.31	3.17	9.68	34.8	24	21.85	34.77	10.77	Pr H
784.5	-18.51	3.22	9.75	34.8	22.82	20.67	34.77	11.95	Н

LTE FDD Band 13_Channel Bandwidth 5MHz_QPSK

LTE FDD Band 13_Channel Bandwidth 10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	[≫] P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
782.0	-16.61	3.22	9.75	34.8 🔍	24.72	22.57	34.77	10.05	V
782.0	-14.97	3.06	9.68	34.8	26.45	24.3	34.77	8.32	Н

LTE FDD Band 13_Channel Bandwidth 5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
779.5	-17.06	3.06	9.68	34.8	24.36	22.21	34.77	10.41	V
782.0	-16.73	3.17	9.68	34.8	24.58	22.43	34.77	10.19	V
784.5	-15.89	3.22	9.75	34.8	25.44	23.29	34.77	9.33	V
779.5	-17.85	3.06	9.68	34.8	23.57	21.42	34.77	11.2	Н
782.0	-17.28	3.17	9.68	34.8	24.03	21.88	34.77	10.74	Н
784.5	-17.74	3.22	9.75	34.8	23.59	21.44	34.77	11.18	Н

LTE FDD Band 13_Channel Bandwidth 10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
782.0	-16.68	3.22	9.75	34.8	24.65	22.5	34.77	10.12	States V
782.0	-15.2	3.06	9.68	34.8	26.22	24.07	34.77	8.55	Н

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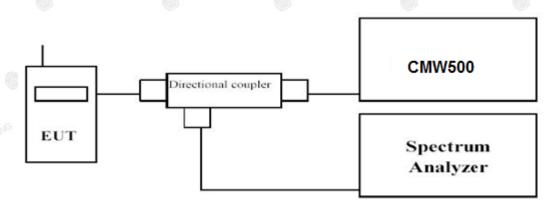


3.3 Peak-to-Average Ratio (PAR)

<u>LIMIT</u>

The Peak-to-Average Ratio (PAR) of the transmission may not exceed 13 dB.

TEST CONFIGURATION



TEST PROCEDURE

- 1. Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- 2. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- 3. Set the number of counts to a value that stabilizes the measured CCDF curve;
- 4. Set the measurement interval as follows:
 - 1). for continuous transmissions, set to 1 ms;

2). for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.

5. Record the maximum PAPR level associated with a probability of 0.1%.

TEST RESULTS

Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE Band 13; recorded worst case for each Channel Bandwidth of LTE Band 13.

STING	- HUAK I	LTE Band 13	HUAXIL	CTING
TX Channel	Frequency	RB Size/Offset	PAPI	R (dB)
Bandwidth	(MHz)	RB Size/Oliset	QPSK	16QAM
	779.5		7.75	7.69
5 MHz	782		9.29	9.75
TING	784.5	TING STING O	9.48	11.89
10 MHz	782	1RB#0	10.04	8.06

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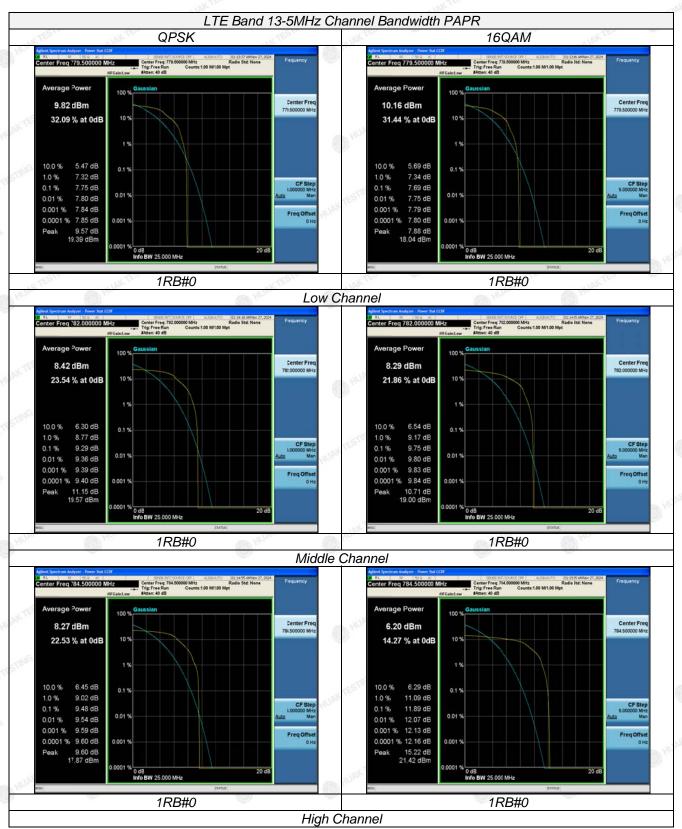


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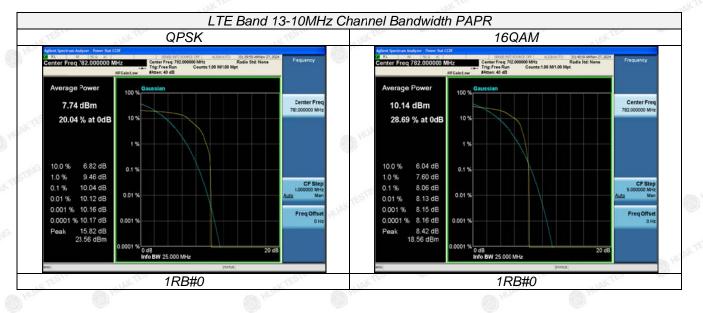
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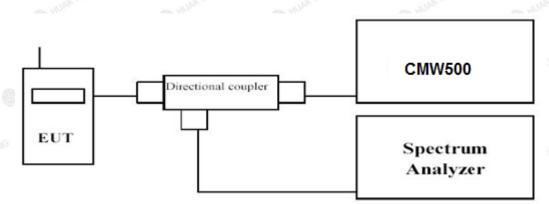


3.4 Occupied Bandwidth and Emission Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at low, middle and high channel in each band. The -26dBc Emission bandwidth was also measured and recorded. Set RBW was set to about 1% of emission BW, VBW≥3 times RBW.

-26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

TEST RESULTS

Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE Band 13; recorded worst case for each Channel Bandwidth of LTE Band 13.

	LTE Band 13											
-	FX annel	RB Size/Offset	Frequency (MHz)		Emission Ith (MHz)	99% Occupied bandwidth (MHz)						
Band	dwidth		(IVITZ)	QPSK	16QAM	QPSK	16QAM					
			779.5	1.277	1.293	1.0893	1.0878					
5 N	MHz	6RB#0	782	1.325	1.341	1.0982	1.1043					
		CSTING HUAR	784.5	1.308	1.301	1.0991	1.1011					
10	MHz	6RB#0	782	1.296	1.289	1.1053	1.1032					

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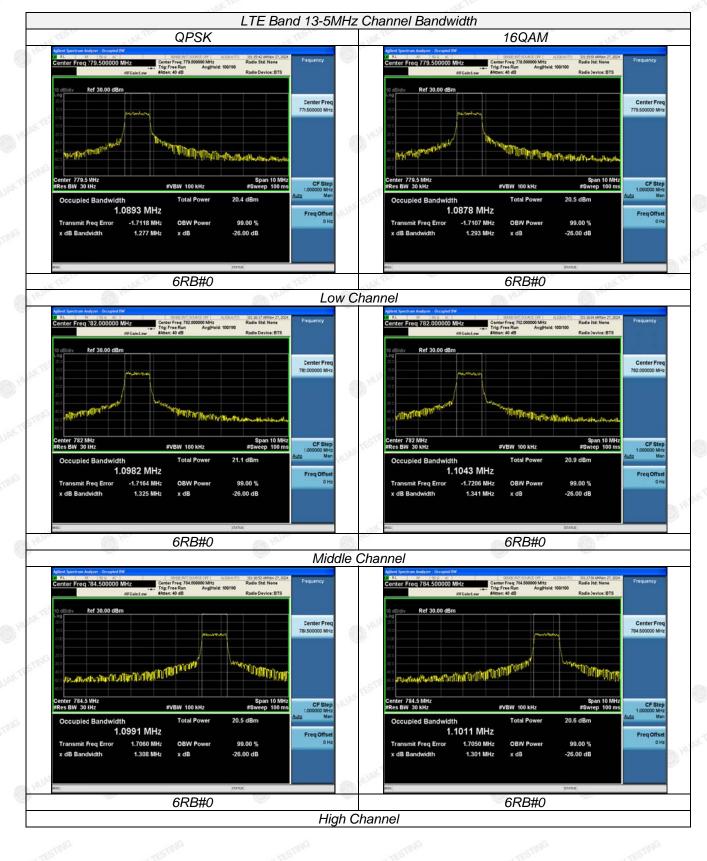
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ALEICATION.



LTE Band 13-10MHz Channel Bandwidth

QPSK

16QAM

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3.5 Band Edge Compliance

LIMIT

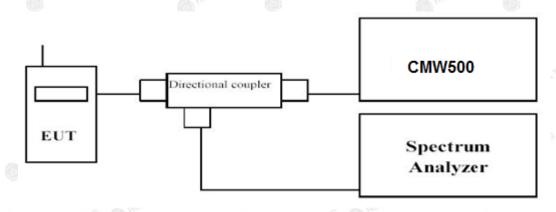
According to $\S27.53$ (c): For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following: (1) On any frequency outside the 746-758 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 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;

(3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;

(4) 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;

TEST CONFIGURATION



TEST PROCEDURE

- 1. The transmitter output port was connected to base station.
- 2. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement.
- 3. Set EUT at maximum power through base station.
- 4. Select lowest and highest channels for each band and different modulation.
- 5. Measure Band edge using RMS (Average) detector by spectrum.

TEST RESULTS

Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE Band 13; recorded worst case for each Channel Bandwidth of LTE Band 13.

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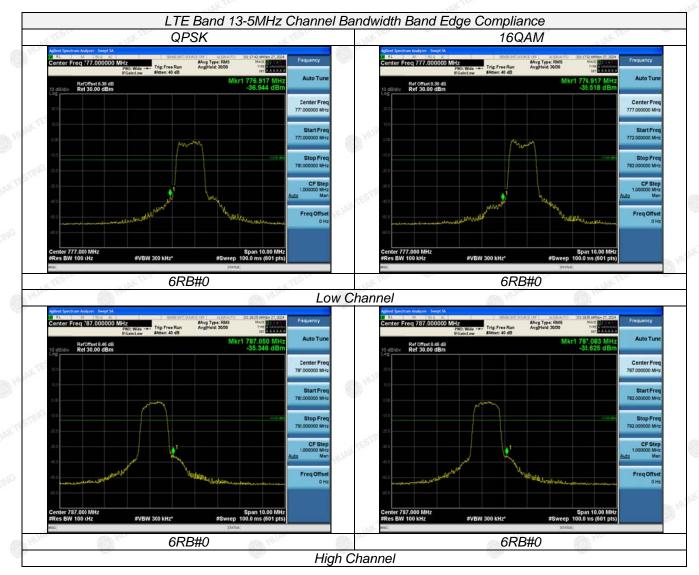
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3.6 Spurious Emission

HUAK TESTING

LIMIT

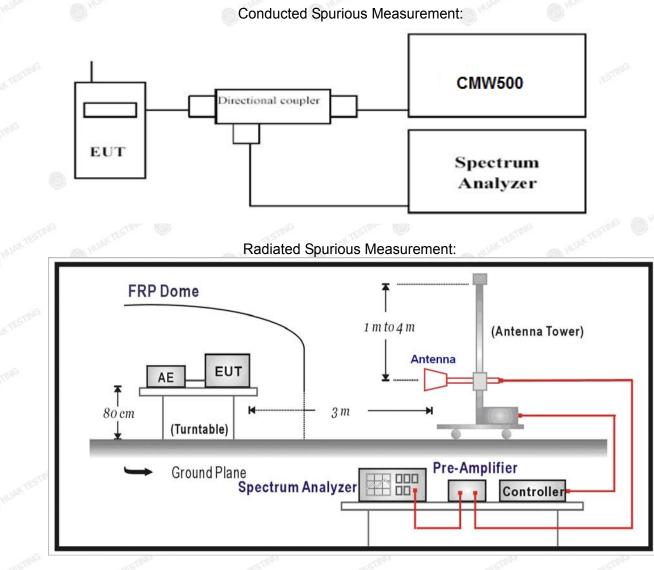
According to §27.53 (c): For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following: (1) On any frequency outside the 746-758 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 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;

(3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;

(4) 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;

TEST CONFIGURATION



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603D.

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HUAK TESTING

FICATION

Conducted Spurious Measurement:

- a. Place the EUT on a bench and set it in transmitting mode.
- b. Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMW500 by a Directional Couple.
- c. EUT Communicate with CMW500, then select a channel for testing.
- d. Add a correction factor to the display of spectrum, and then test.
- e. The resolution bandwidth of the spectrum analyzer was set sufficient scans were taken to show the out of band Emission if any up to10th harmonic.

Working Frequency	,	Sub range (GHz)	RBW	VBW	Sweep time (s)
40		0.000009~0.000015	1KHz	3KHz	Auto
LTE FDD Ban	113	0.000015~0.03	10KHz	30KHz	Auto
ILAK TES		0.03~26.5	1 MHz	3 MHz	Auto

Please refer to following tables for test antenna conducted emissions.

Radiated Spurious Measurement:

- a. The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.
- b. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter.
- c. The output of the test antenna shall be connected to the measuring receiver.
- d. The transmitter shall be switched on and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- e. The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
- f. The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- g. The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
- h. The maximum signal level detected by the measuring receiver shall be noted.
- i. The transmitter shall be replaced by a substitution antenna.
- j. The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
- k. The substitution antenna shall be connected to a calibrated signal generator.
- I. If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- m. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- n. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
- o. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
- p. The measure of the effective radiated power is the larger of the two levels recorded at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.
- q. The resolution bandwidth of the spectrum analyzer was set at 100 kHz for Part 22 and 1MHz for Part 24. The frequency range was checked up to 10th harmonic.
- r. Test site anechoic chamber refer to ANSI C63.

TEST RESULTS

Remark:

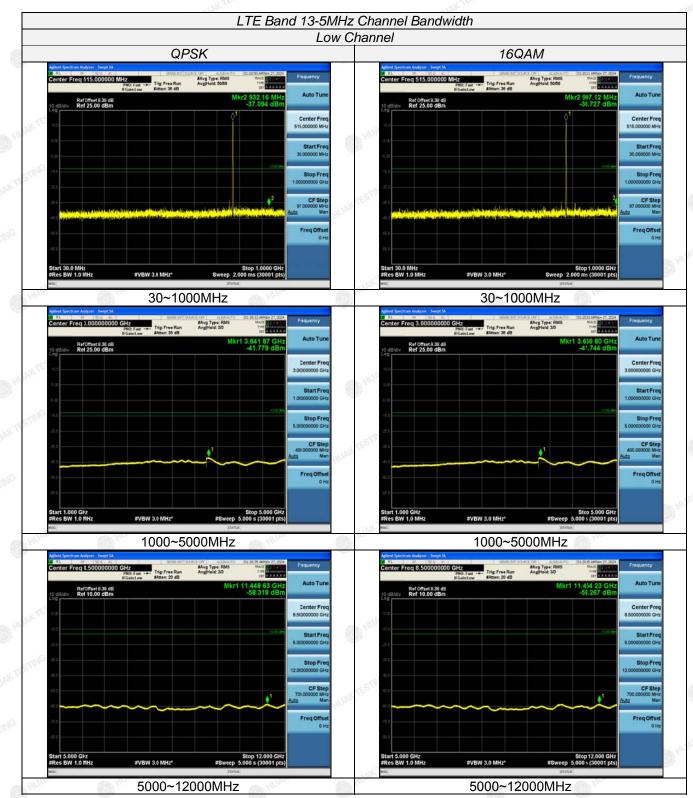
1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE Band 13; recorded worst case for each Channel Bandwidth of LTE Band 13.

Conducted Measurement:

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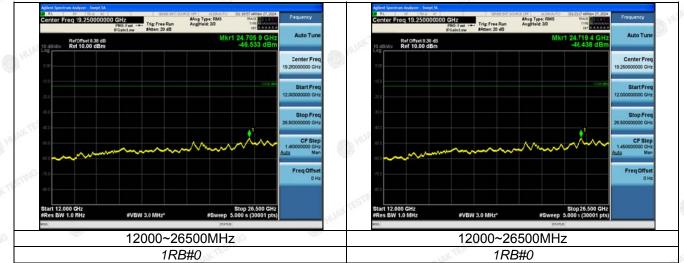


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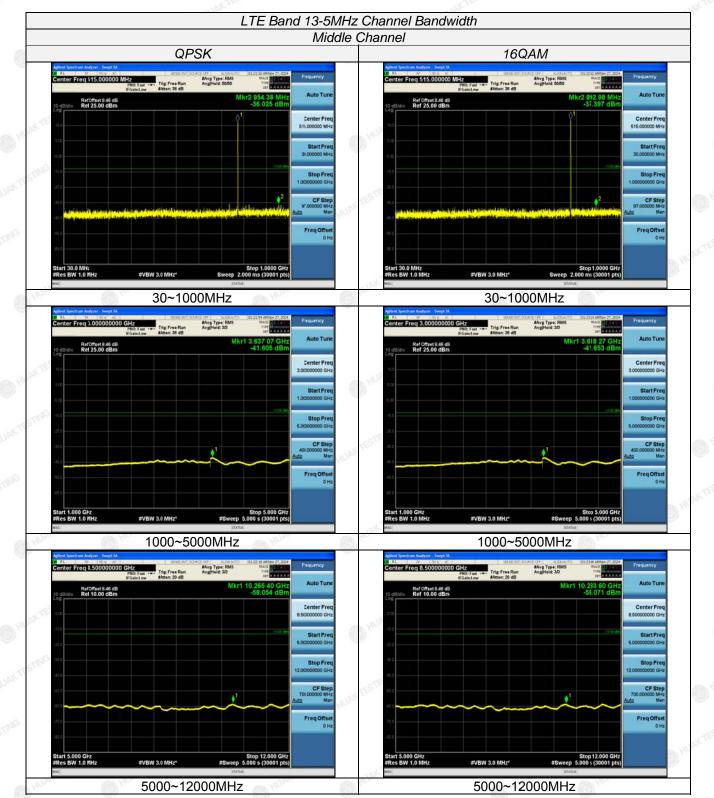
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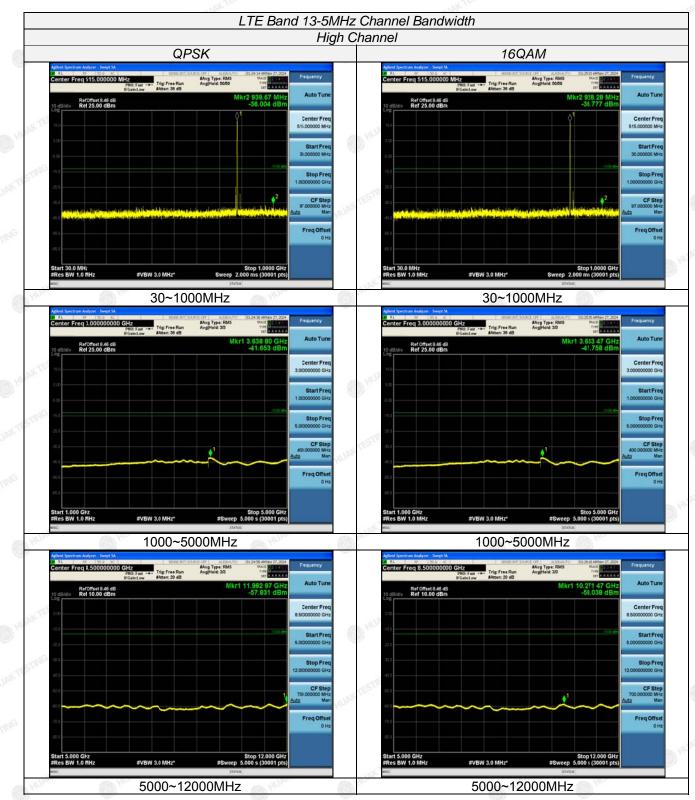


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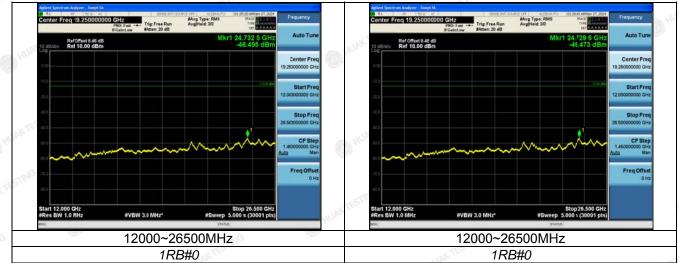
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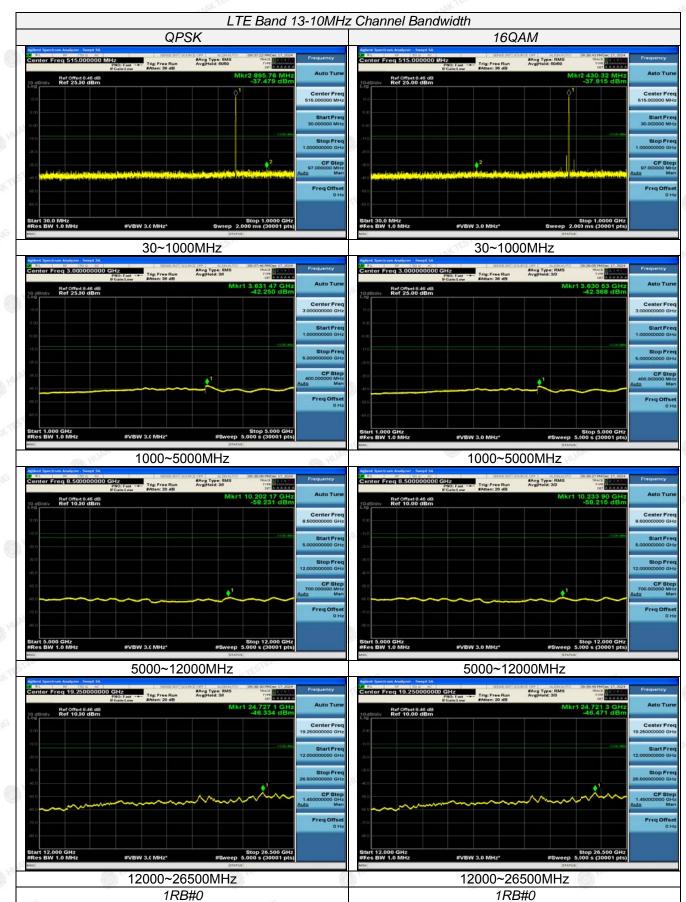


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Radiated Measurement:

Remark:

- 1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 13; recorded worst case for each Channel Bandwidth of LTE FDD Band 13.
- 2. $EIRP=P_{Mea}(dBm)-P_{cl}(dB)+G_{a}(dBi)$
- 3. We were not recorded other points as values lower than limits.
- 4. Margin = Limit EIRP

Radiated Measurement:

Remark:

- 1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band
- 13; recorded worst case for each Channel Bandwidth of LTE FDD Band 13.
- 2. $EIRP=P_{Mea}(dBm)-P_{cl}(dB)+G_a(dBi)$
- 3. We were not recorded other points as values lower than limits.
- 4. Margin = Limit EIRP

LTE FDD Band 13_Channel Bandwidth 5MHz_QPSK_ Lo	ow Channel
---	------------

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1559.0	-55.05	4.02	3	12.21	-46.86	-40.00	6.86	H
2338.5	-47.96	5.11	3	13.26	-39.81	-13.00	26.81	H
1559.0	-58.1	4.02	3	12.21	-49.91	-40.00	9.91	V
2338.5	-54.61	5.11	3	13.26	-46.46	-13.00	33.46	V

LTE FDD Band 13_Channel Bandwidth 5MHz_QPSK_ Middle Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1564.0	-53.57	4.02	3	12.21	-45.38	-40.00	5.38	H H
2346.0	-46.77	5.11	3	13.26	-38.62	-13.00	25.62	TESTIH W
1564.0	-58.67	4.02	3	12.21	-50.48	-40.00	10.48	V
2346.0	-54.39	5.11	3	13.26	-46.24	-13.00	33.24	V

LTE FDD Band 13_Channel Bandwidth 5MHz_QPSK_ High Channel

15	Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
ľ	1569.0	-54.14	4.02	3	12.21	-45.95	-40.00	5.95	Н
ĺ	2353.5	-47.39	5.11	3	13.26	-39.24	-13.00	26.24	Н
<	1569.0	-58.84	4.02	3	12.21	-50.65	-40.00	10.65	V
ĺ	2353.5	-53.92	5.11	3	13.26	-45.77	-13.00	32.77	V

		LIEFD	D Band 13_0	Channel Ban	awiath 101VI	HZ_QPSK		
Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1564.0	-55.09	4.02	3	12.21	-46.9	-40.00	6.9	Н
2346.0	-47.58	5.11	3	13.26	-39.43	-13.00	26.43	Н
1564.0	-59.05	4.02	3	12.21	-50.86	-40.00	10.86	V
2346.0	-54.32	5.11	3	13.26	-46.17	-13.00	33.17	V
TIMO	-70	10	TING	•	TING	2	and	TING

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2346.0

1564.0

2346.0

Frequency

-47.67

-57.84

-54.38

PMea

5.11

4.02

5.11

Pcl

Page 33 of 37

26.52

9.65

33.23

Margin

Н

V

V

Polarization

TIN

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1559.0	-54.71	4.02	3	12.21	-46.52	-40.00	6.52	Н
2338.5	-47.64	5.11	3	13.26	-39.49	-13.00	26.49	Н
1559.0	-58.54	4.02	3	12.21	-50.35	-40.00	10.35	V
2338.5	-55.04	5.11	3	13.26	-46.89	-13.00	33.89	N "MAN
		DD Band 1	3_Channel E	Bandwidth 5N	MHz_16QAN	/I _ Middle C	Channel	
Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1564.0	-54.43	4.02	3	12.21	-46.24	-40.00	6.24	H

13.26

12.21

13.26

LTE FDD Band 13_Channel Bandwidth 5MHz_16QAM _ High Channel Ga

Antenna

-39.52

-49.65

-46.23

EIRP

-13.00

-40.00

-13.00

Limit

3

3

3

Diatance

LTE FDD Band 13_Channel Bandwidth 5MHz_16QAM _ Low Channel

(MHz)	(dBm)	6 (dB)	Diatance	Antenna Gain(dB)	(dBm)	(dBm)	(dB)	Polarization
1569.0	-53.99	4.02	3	12.21	-45.8	-40.00	5.8	H
2353.5	-46.66	5.11	3	13.26	-38.51	-13.00	25.51	Н
1569.0	-58.99	4.02	3	12.21	-50.8	-40.00	10.8	V
2353.5	-53.88	5.11	3	13.26	-45.73	-13.00	32.73	V

LTE FDD Band 13 Channel Bandwidth 10MHz 16QAM

	Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
Γ	1564.0	-54.08	4.02	3 151	12.21	-45.89	-40.00	5.89	NKTES !"H
8	2346.0	-47.99	5.11	3	13.26	-39.84	-13.00	26.84	Н
87	1564.0	-58.53	4.02	3	12.21	-50.34	-40.00	10.34	V
	2346.0	-54.45	5.11	3	13.26	-46.3	-13.00	33.3	V

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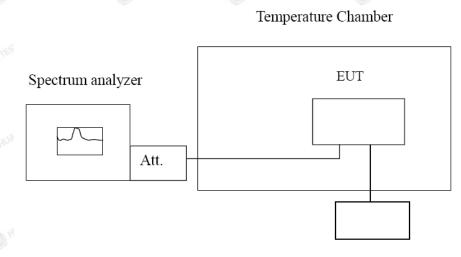


3.7 Frequency Stability Under Temperature & Voltage Variations

LIMIT

According to §27.54, §2.1055 requirement, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation and should not exceed 2.5ppm.

TEST CONFIGURATION



Variable Power Supply

TEST PROCEDURE

The EUT was setup according to EIA/TIA 603D.

Frequency Stability Under Temperature Variations:

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

1. Measure the carrier frequency at room temperature.

2. Subject the EUT to overnight soak at -30℃.

3. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on middle channel for LTE Band 13, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.

4. Repeat the above measurements at 10° C increments from -30° C to $+50^{\circ}$ C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.

5. Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1.5 hours unpowered, to allow any self-heating to stabilize, before continuing. 6. Subject the EUT to overnight soak at +50 °C.

7. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.

8. Repeat the above measurements at 10 $^\circ\!C$ increments from +50 $^\circ\!C$ to -30 $^\circ\!C$. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.

9. At all temperature levels hold the temperature to +/- 0.5 $^\circ \! \mathbb C$ during the measurement procedure.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20 $^{\circ}$ C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (±15%) and endpoint, record the maximum frequency change.

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TEST RESULTS

Remark:

1. We tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE Band 13; recorded worst case.

LTE Band 13, 10MHz bandwidth (worst case of all bandwidths)

Frequency Error vs Voltage

Voltage	Frequency e	rror (Hz)	Frequency error (ppm)		
(V)	QPSK	16QAM	QPSK	16QAM	
4.25	6.21	5.19	0.007967	0.006658	
5	3.99	-4.12	0.005119	-0.005285	
5.75	-2.82	4.88	-0.003618	0.006260	

Frequency Error vs Temperature

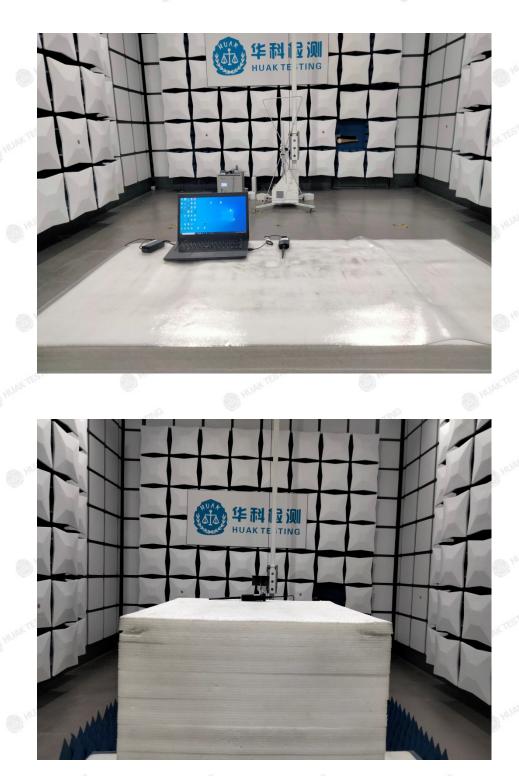
			_C'3 '	
Temperature	Frequency	y error (Hz)	Frequency	v error (ppm)
(°C)	QPSK	16QAM	QPSK	16QAM
-30°	5.19	-4.09	0.006658	-0.005247
-20°	5.24	-3.15	0.006722	-0.004041
-10°	3.16	3.29	0.004054	0.004221
0°	4.19	3.25	0.005375	0.004169
10°	-3.82	4.15	-0.004901	0.005324
20°	-3.63	4.68	-0.004657	0.006004
30°	-5.54	-4.35	-0.007084	-0.005563
40°	-4.15	-5.85	-0.005307	-0.007481
50°	-6.41	-6.28	-0.008197	-0.008031

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4 Test Setup Photos of the EUT



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5 Photos of the EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos.

.....End of Report.....

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