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# FCC Test Report


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Report No.: AGC14499230608FE08

**FCC ID** : 2APPZ-AP6256

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION** : IP Phone

**BRAND NAME** : 

**MODEL NAME** : X305

**APPLICANT** : Fanvil Technology Co., Ltd.

**DATE OF ISSUE** : Jul. 17, 2023

**STANDARD(S)** : FCC Part 15.247

**REPORT VERSION** : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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### REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jul. 17, 2023	Valid	Initial Release

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### 1. VERIFICATION OF COMPLIANCE

<b>Applicant</b>	Fanvil Technology Co., Ltd.
<b>Address</b>	10/F Block A, Dualshine Global Science Innovation , Honglang North 2nd Road, Bao'an District, Shenzhen, China
<b>Manufacturer</b>	Fanvil Technology Co., Ltd.
<b>Address</b>	10/F Block A, Dualshine Global Science Innovation , Honglang North 2nd Road, Bao'an District, Shenzhen, China
<b>Factory</b>	Fanvil Technology Co., Ltd.
<b>Address</b>	10/F Block A, Dualshine Global Science Innovation , Honglang North 2nd Road, Bao'an District, Shenzhen, China
<b>Product Designation</b>	IP Phone
<b>Brand Name</b>	
<b>Test Model</b>	X305
<b>Date of receipt of test item</b>	Jun. 30, 2023
<b>Date of Test</b>	Jun. 30, 2023~Jul. 17, 2023
<b>Deviation</b>	No any deviation from the test method
<b>Condition of Test Sample</b>	Normal
<b>Test Result</b>	Pass
<b>Report Template</b>	AGCRT-US-BLE/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC part 15.247.

Prepared By	 <hr/> Bibo Zhang (Project Engineer)	Jul. 17, 2023
Reviewed By	 <hr/> Calvin Liu (Reviewer)	Jul. 17, 2023
Approved By	 <hr/> Max Zhang Authorized Officer	Jul. 17, 2023

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## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

The EUT is designed as a “IP Phone”. It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

<b>Operation Frequency</b>	2.402 GHz to 2.480GHz
<b>RF Output Power</b>	1Mbps: 4.582dBm 2Mbps: 4.628dBm
<b>Bluetooth Version</b>	V5.0
<b>Modulation</b>	BR <input type="checkbox"/> GFSK, EDR <input type="checkbox"/> π/4-DQPSK, <input type="checkbox"/> 8DPSK BLE <input checked="" type="checkbox"/> GFSK 1Mbps <input checked="" type="checkbox"/> GFSK 2Mbps
<b>Number of channels</b>	40 Channel
<b>Antenna Designation</b>	PIFA Antenna (Comply with requirements of the FCC part 15.203)
<b>Antenna Gain</b>	4.2dBi
<b>Hardware Version</b>	V2.0
<b>Software Version</b>	2.12.0.7.3
<b>Power Supply</b>	DC 5V by adapter or DC 48V by PoE

### 2.2. TABLE OF CARRIER FREQUENCIES

Frequency Band	Channel Number	Frequency
2400~2483.5MHz	0	2402 MHz
	1	2404 MHz
	:	:
	38	2478 MHz
	39	2480 MHz

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### **2.3. RELATED SUBMITTAL(S)/GRANT(S)**

This submittal(s) (test report) is intended for **FCC ID: 2APPZ-AP6256** filing to comply with the FCC Part 15.247 requirements.

### **2.4. TEST METHODOLOGY**

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

### **2.5. SPECIAL ACCESSORIES**

Refer to section 5.2.

### **2.6. EQUIPMENT MODIFICATIONS**

Not available for this EUT intended for grant.

### **2.7. ANTENNA REQUIREMENT**

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device. For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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### 3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 3.1$ dB
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 4.0$ dB
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.8$ dB
Uncertainty of total RF power, conducted	$U_c = \pm 0.8$ dB
Uncertainty of RF power density, conducted	$U_c = \pm 2.6$ dB
Uncertainty of spurious emissions, conducted	$U_c = \pm 2$ %
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2$ %

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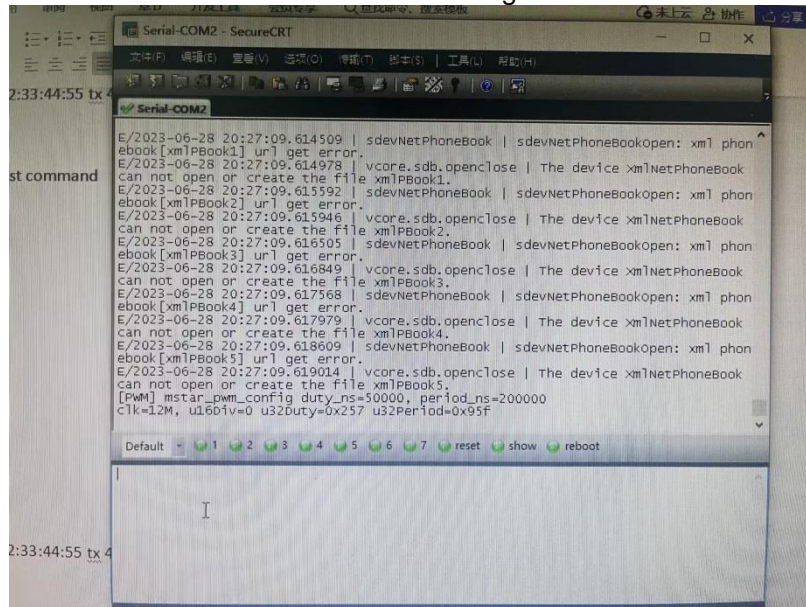
#### 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX_CH00 by DC 5V adapter
2	Middle channel TX_CH19 by DC 5V adapter
3	High channel TX_CH39 by DC 5V adapter
4	Low channel TX_CH00 by DC 48V PoE
5	Middle channel TX_CH19 by DC 48V PoE
6	High channel TX_CH39 by DC 48V PoE

Note:

1. Only the result of the worst case was recorded in the report, if no other cases.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.

#### Software Setting

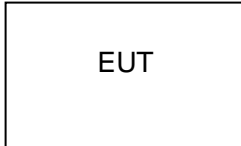


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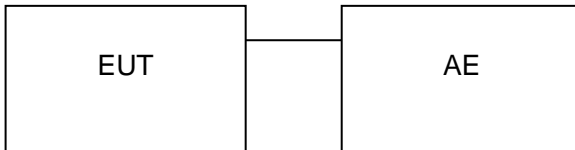
## 5. SYSTEM TEST CONFIGURATION

### 5.1. CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:



Conducted Emission Configure:



### 5.2. EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	IP Phone	X305	FCC ID: 2APPZ-AP6256	EUT
2	Adapter	GQ12-050200-AU	Input: AC 100-240V 50/60Hz, 0.4A Output: DC 5.0V 2A	AE
3	Ethernet Cable	N/A	N/A	AE
4	Handset Wire	N/A	1.5m Unshielded	AE
5	Handset	N/A	N/A	AE
6	Wall Stand	N/A	N/A	AE
7	Stand	N/A	N/A	AE
8	PoE	ADS-120HK-48-1 520120E	DC 12V 1A (IEEE 802.3af)	AE

### 5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(3)	Peak Output Power	Compliant
15.247 (a)(2)	6 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.247 (e)	Maximum Conducted Output Power Density	Compliant
15.209	Radiated Emission	Compliant
15.207	Conducted Emission	Compliant

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## 6. TEST FACILITY

<b>Test Site</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location</b>	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
<b>Designation Number</b>	CN1259
<b>FCC Test Firm Registration Number</b>	975832
<b>A2LA Cert. No.</b>	5054.02
<b>Description</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd is accredited by A2LA

### TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun. 03, 2023	Jun. 02, 2024
LISN	R&S	ESH2-Z5	100086	Jun. 03, 2023	Jun. 02, 2024
Test software	R&S	ES-K1 (Ver.V1.71)	N/A	N/A	N/A

### TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Feb. 18, 2023	Feb. 17, 2024
EXA Signal Analyzer	Aglient	N9010A	MY53470 504	Jun. 01, 2023	May 31, 2024
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	N/A	N/A
Attenuator	ZHINAN	E-002	N/A	Sep. 01, 2022	Aug. 31, 2023
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Oct. 31, 2021	Oct. 30, 2023
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Mar. 12, 2022	Mar. 11, 2024
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Mar. 03, 2023	Mar. 02, 2024
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	N/A	N/A
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 05, 2023	Jan. 04, 2025
Test software	FARA	EZ-EMC (Ver.AGC-CON03A1)	N/A	N/A	N/A

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## 7. PEAK OUTPUT POWER

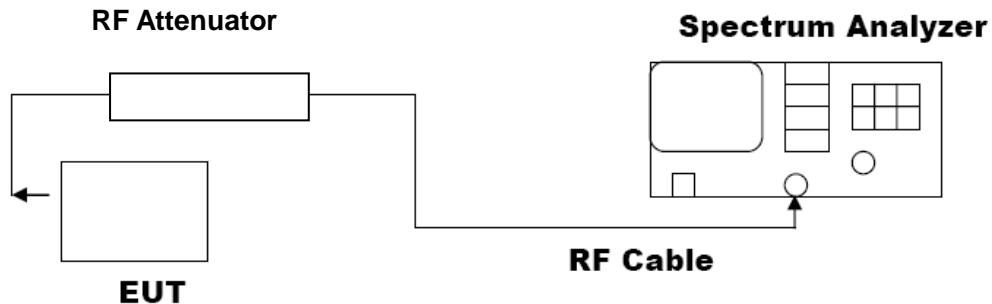
### 7.1. MEASUREMENT PROCEDURE

For peak power test:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2.  $RBW \geq DTS$  bandwidth
3.  $VBW \geq 3 * RBW$ .
4.  $SPAN \geq VBW$ .
5. Sweep: Auto.
6. Detector function: Peak.
7. Trace: Max hold.

Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

### 7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) PEAK POWER TEST SETUP



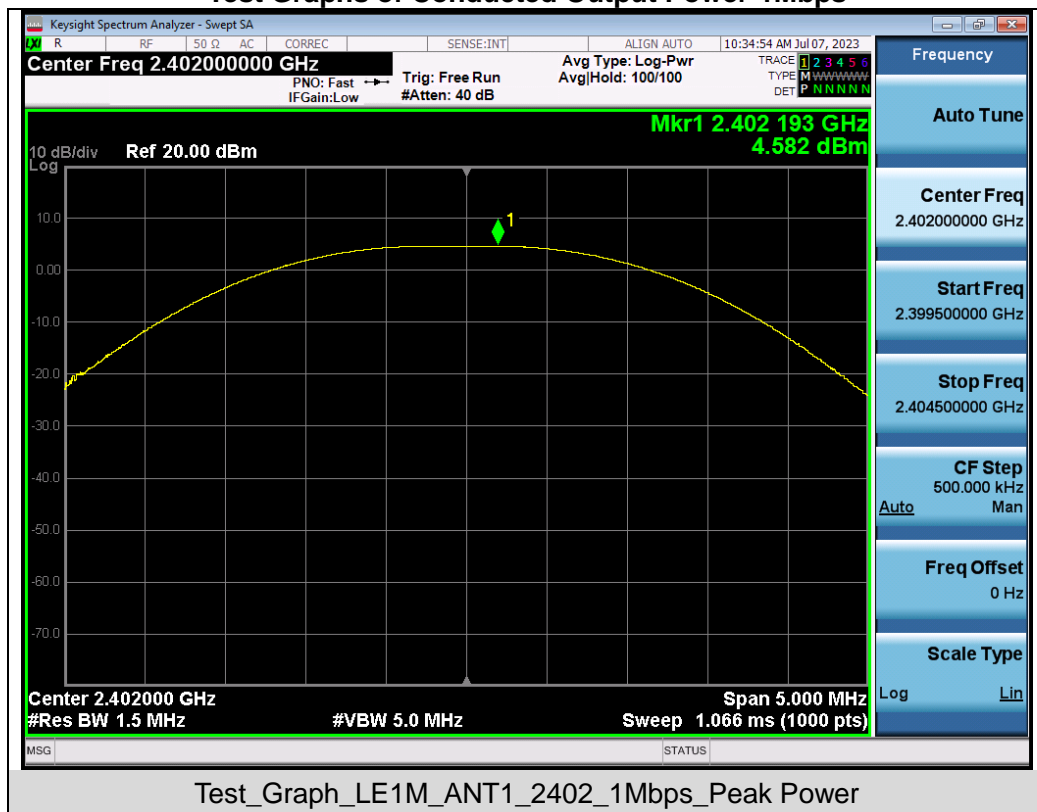
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### 7.3. LIMITS AND MEASUREMENT RESULT

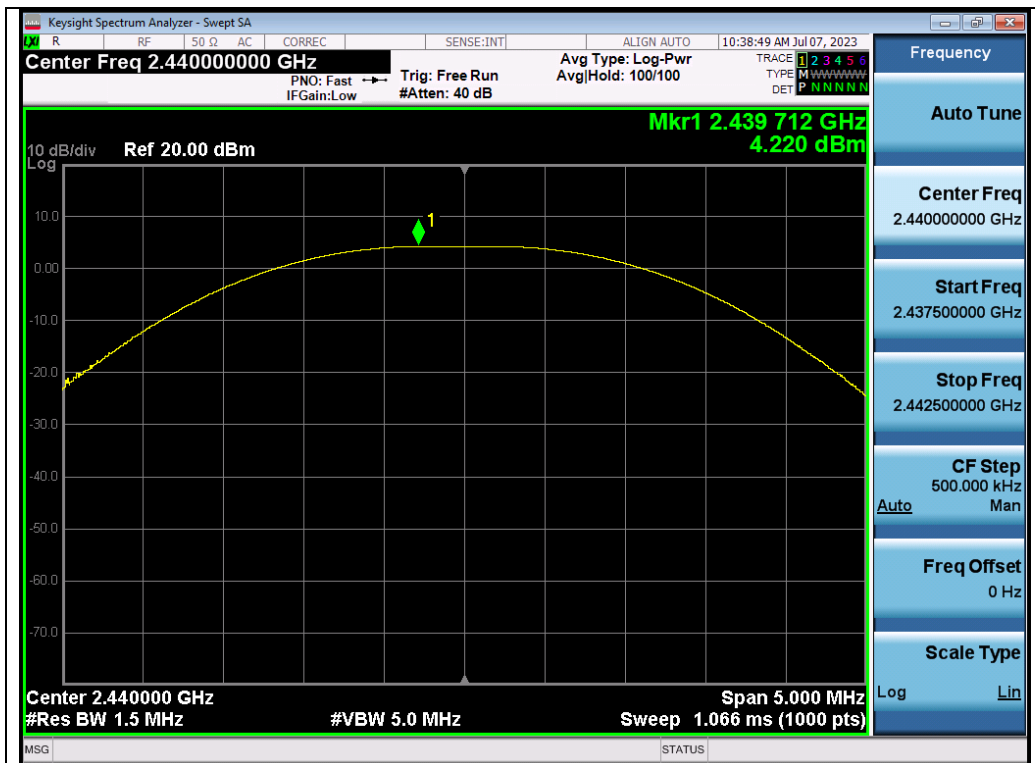
Test Data of Conducted Output Power				
Test Mode	Test Channel (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
GFSK 1M	2402	<b>4.582</b>	≤30	Pass
	2440	4.220	≤30	Pass
	2480	3.583	≤30	Pass

Test Data of Conducted Output Power				
Test Mode	Test Channel (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
GFSK 2M	2402	<b>4.628</b>	≤30	Pass
	2440	4.231	≤30	Pass
	2480	3.604	≤30	Pass

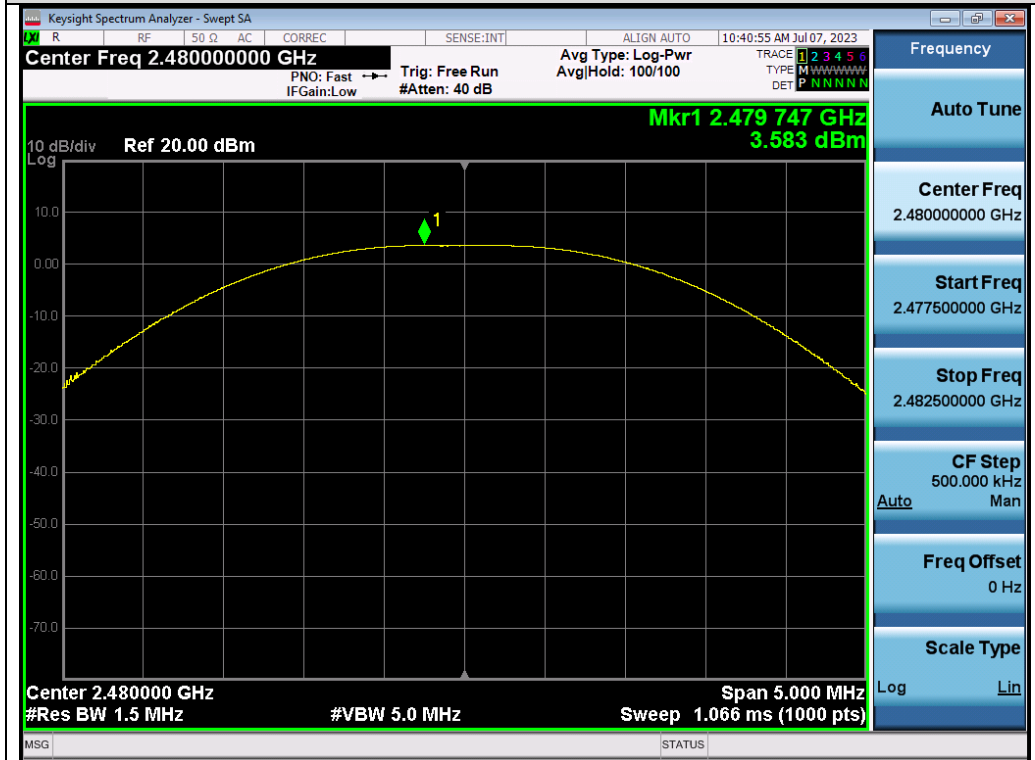
### Test Graphs of Conducted Output Power-1Mbps



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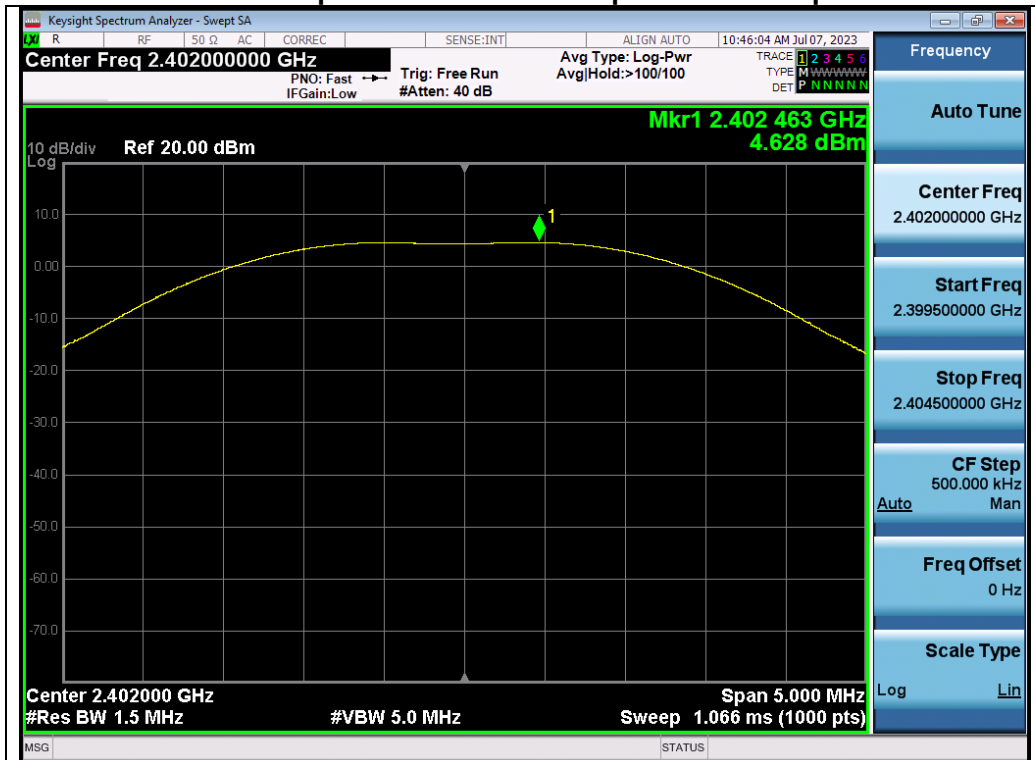
Test\_Graph\_LE1M\_ANT1\_2440\_1Mbps\_Peak Power



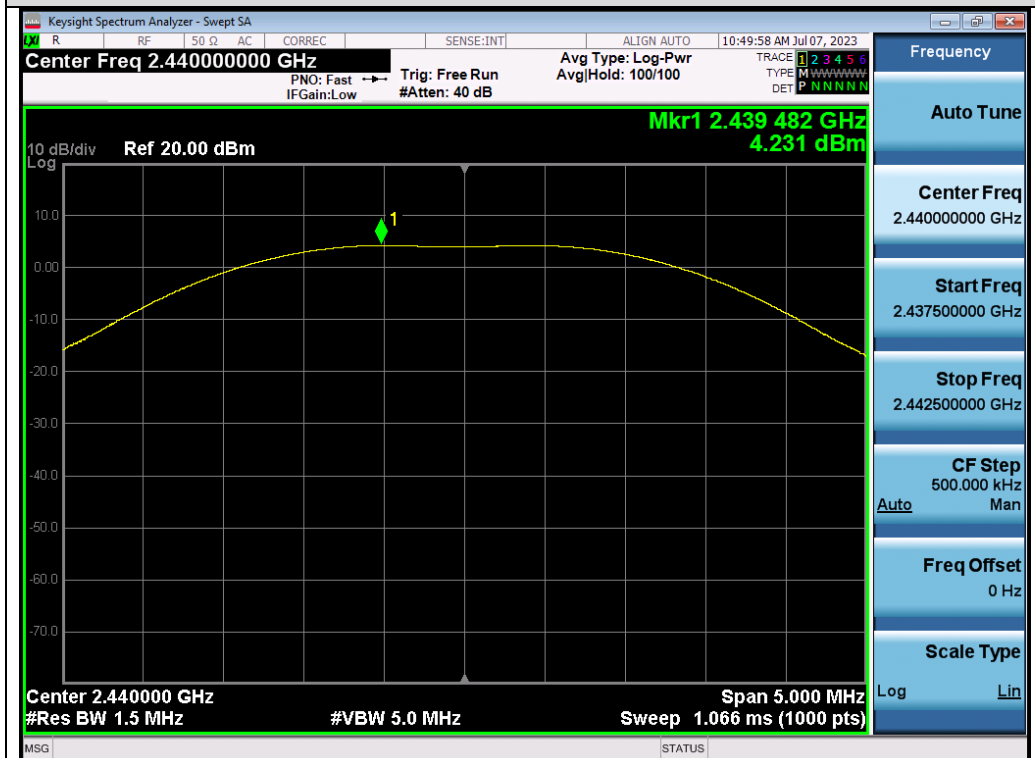
Test\_Graph\_LE1M\_ANT1\_2480\_1Mbps\_Peak Power

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### Test Graphs of Conducted Output Power-2Mbps

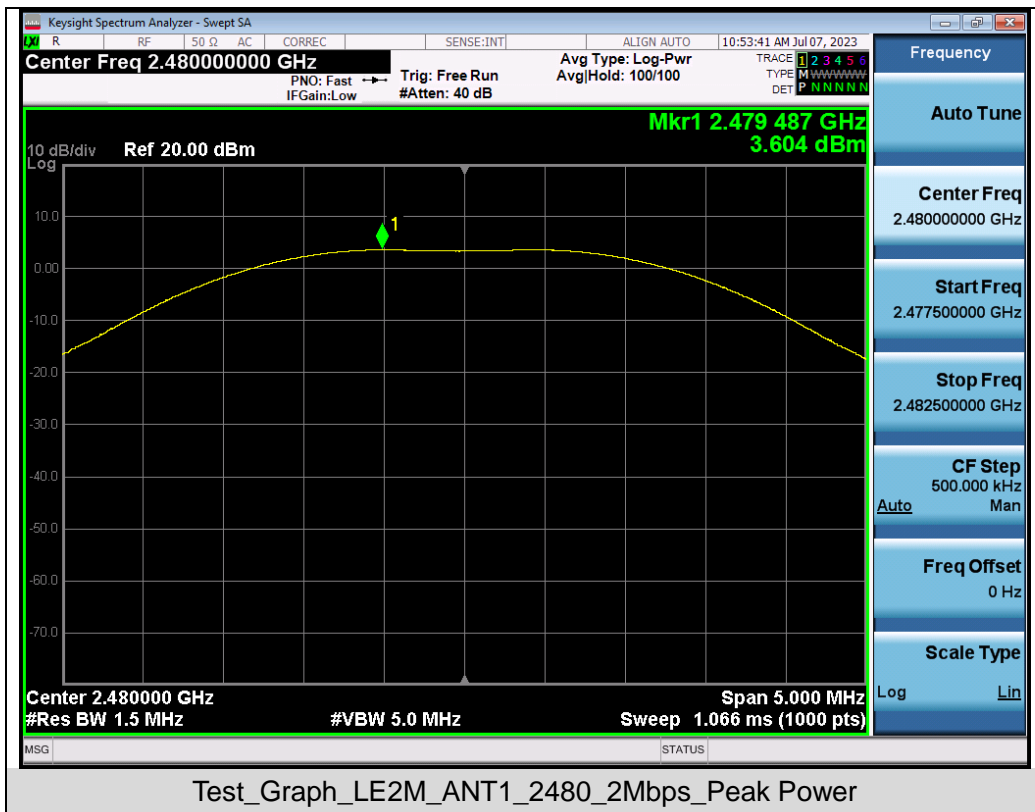


Test\_Graph\_LE2M\_ANT1\_2402\_2Mbps\_Peak Power



Test\_Graph\_LE2M\_ANT1\_2440\_2Mbps\_Peak Power

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## 8. BANDWIDTH

### 8.1. MEASUREMENT PROCEDURE

6dB bandwidth:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 kHz, VBW  $\geq 3 \times$  RBW.
4. Set SPA Trace 1 Max hold, then View.

Occupied bandwidth:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel  
The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
4. Set SPA Trace 1 Max hold, then View.

**Note:** The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

### 8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

### 8.3. LIMITS AND MEASUREMENT RESULTS

Test Data of Occupied Bandwidth and DTS Bandwidth					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-6dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
GFSK 1M	2402	1.059	0.672	$\geq 0.5$	Pass
	2440	1.060	0.674	$\geq 0.5$	Pass
	2480	1.060	0.675	$\geq 0.5$	Pass

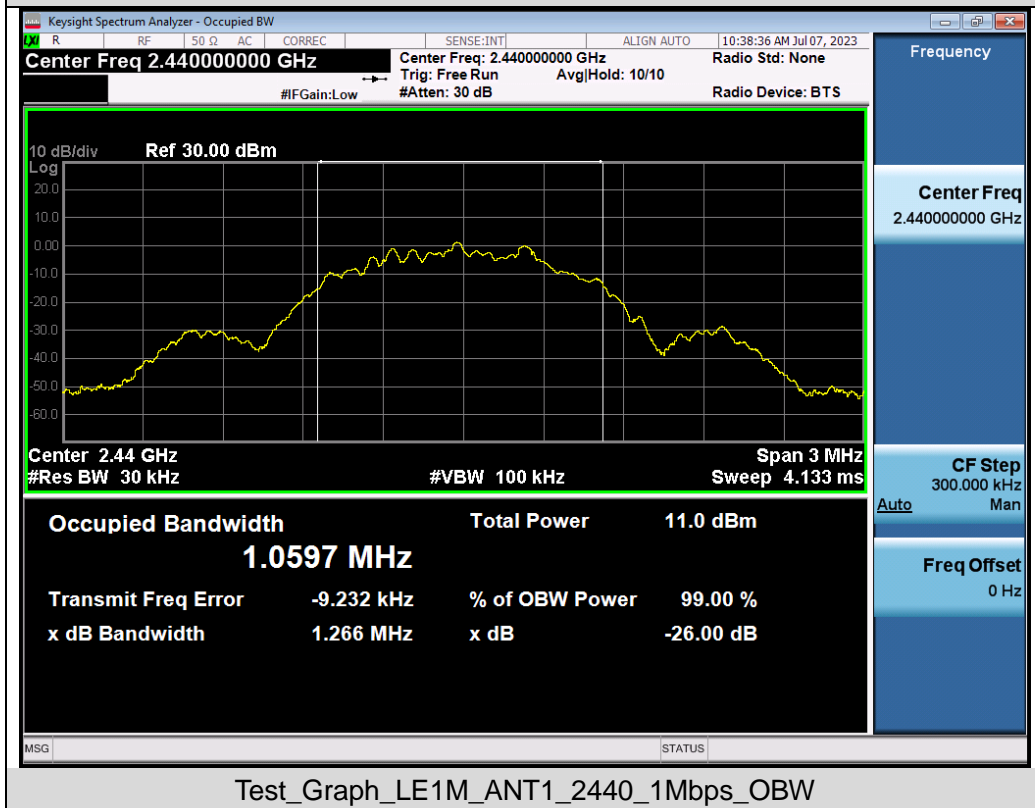
Test Data of Occupied Bandwidth and DTS Bandwidth					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-6dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
GFSK 2M	2402	2.095	1.115	$\geq 0.5$	Pass
	2440	2.096	1.107	$\geq 0.5$	Pass
	2480	2.095	1.109	$\geq 0.5$	Pass

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### Test Graphs of Occupied Bandwidth-1Mbps

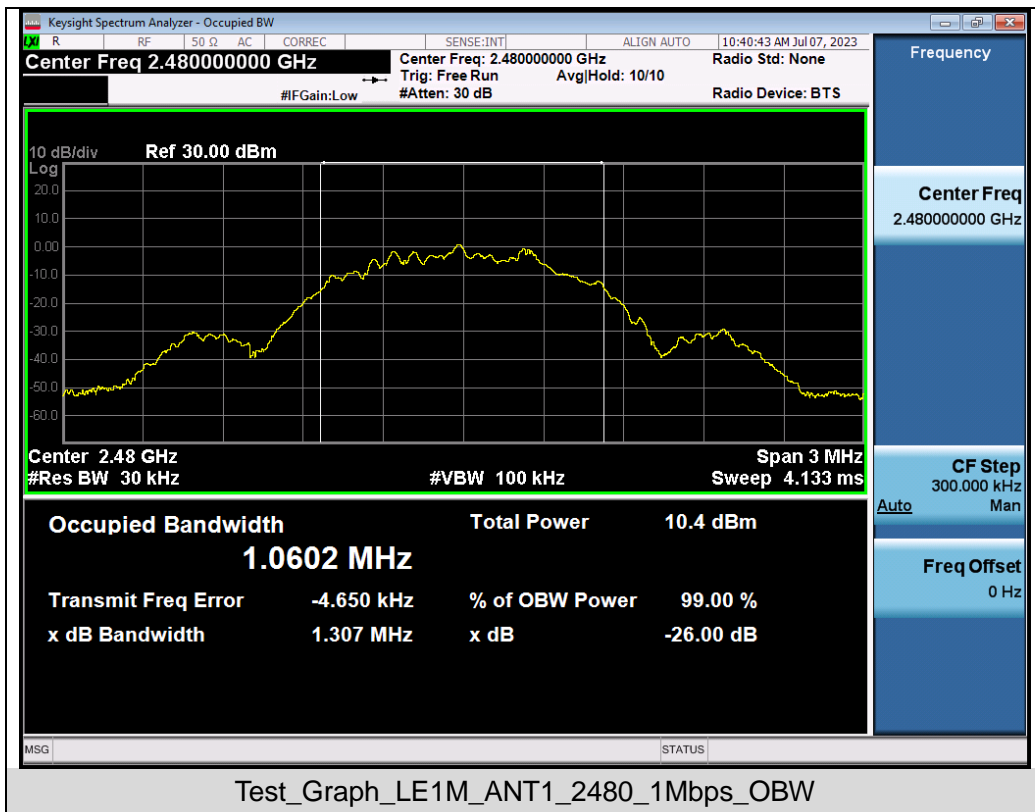


Test\_Graph\_LE1M\_ANT1\_2402\_1Mbps\_OBW

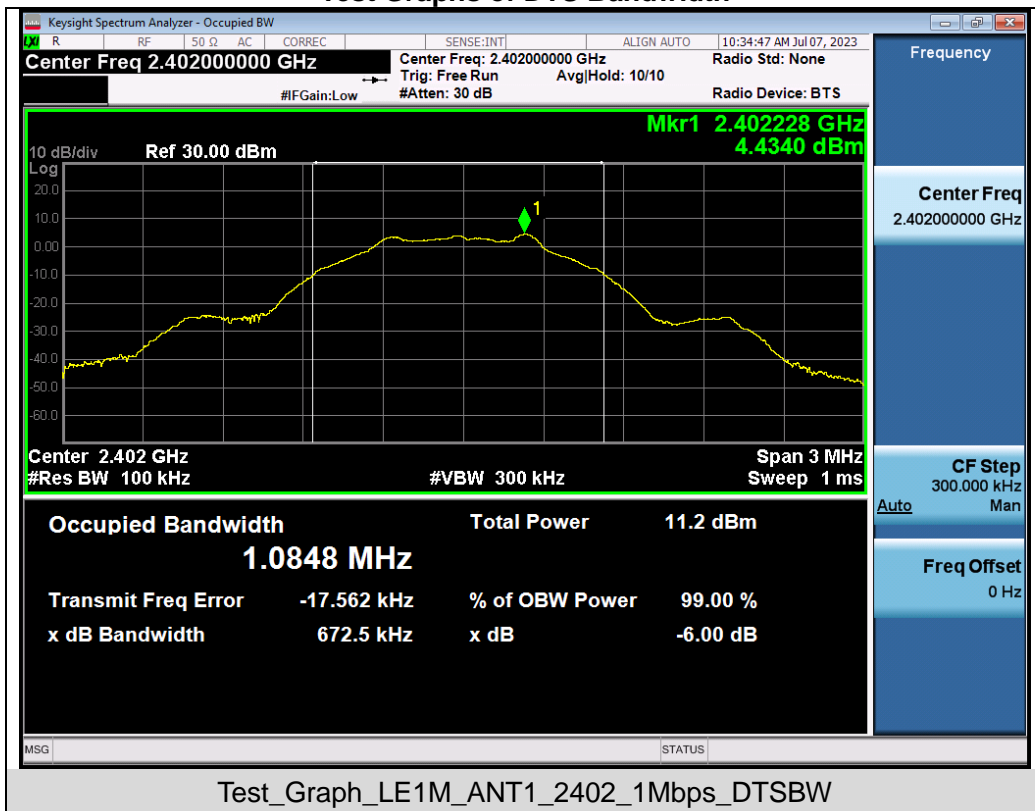


Test\_Graph\_LE1M\_ANT1\_2440\_1Mbps\_OBW

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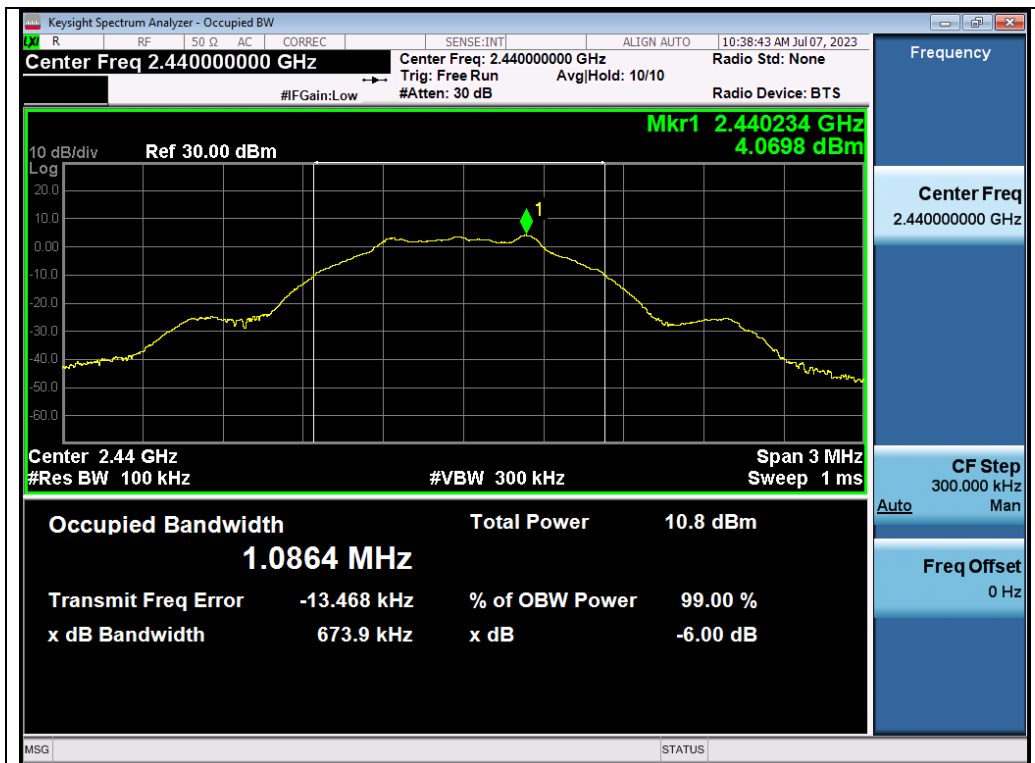


Test\_Graph\_LE1M\_ANT1\_2480\_1Mbps\_OBW

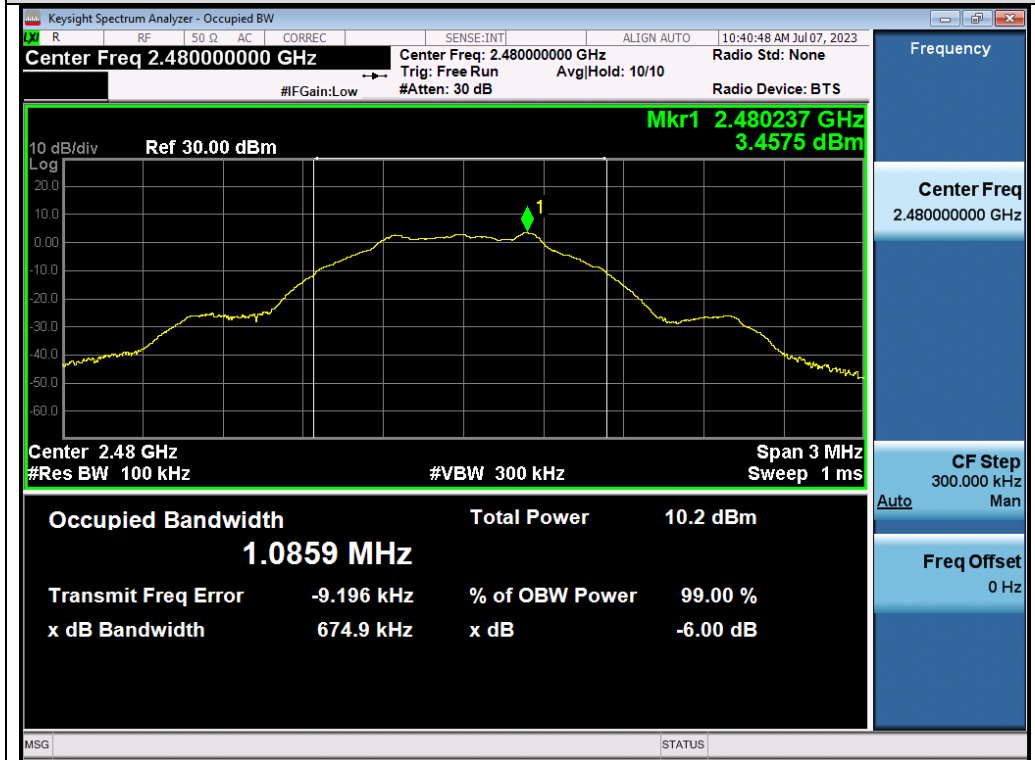


Test\_Graph\_LE1M\_ANT1\_2402\_1Mbps\_DTSBW

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Test\_Graph\_LE1M\_ANT1\_2440\_1Mbps\_DTSBW



Test\_Graph\_LE1M\_ANT1\_2480\_1Mbps\_DTSBW

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### Test Graphs of Occupied Bandwidth-2Mbps

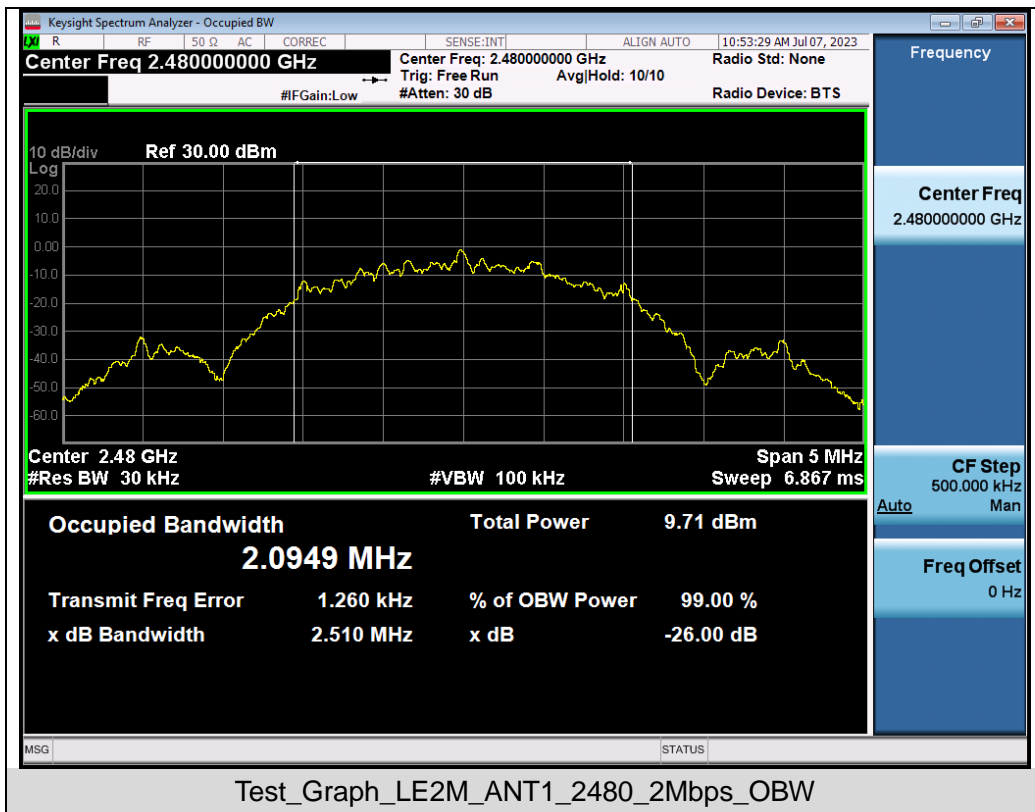


### Test\_Graph\_LE2M\_ANT1\_2402\_2Mbps\_OBW

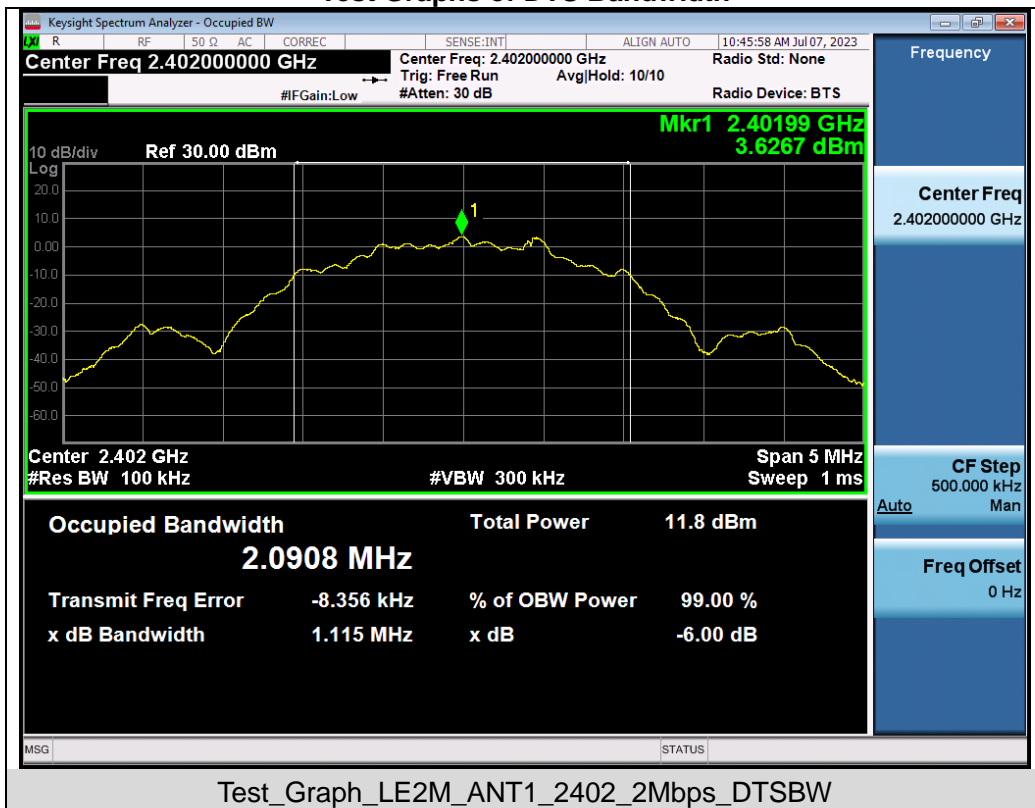


### Test\_Graph\_LE2M\_ANT1\_2440\_2Mbps\_OBW

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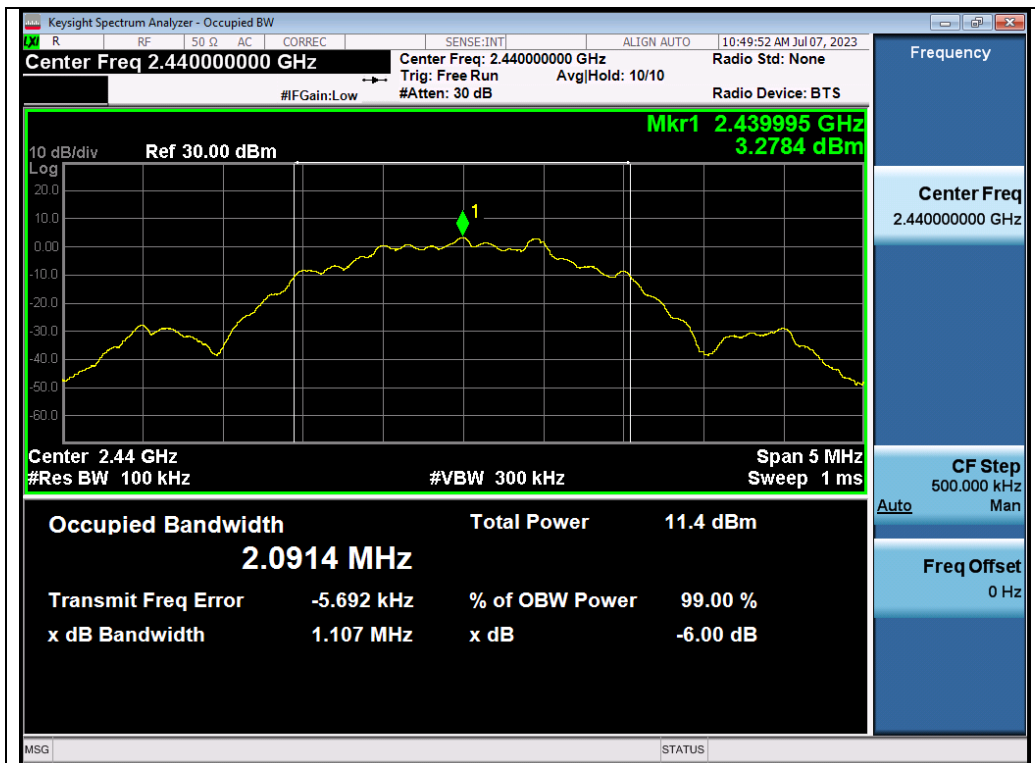


Test Graphs of DTS Bandwidth

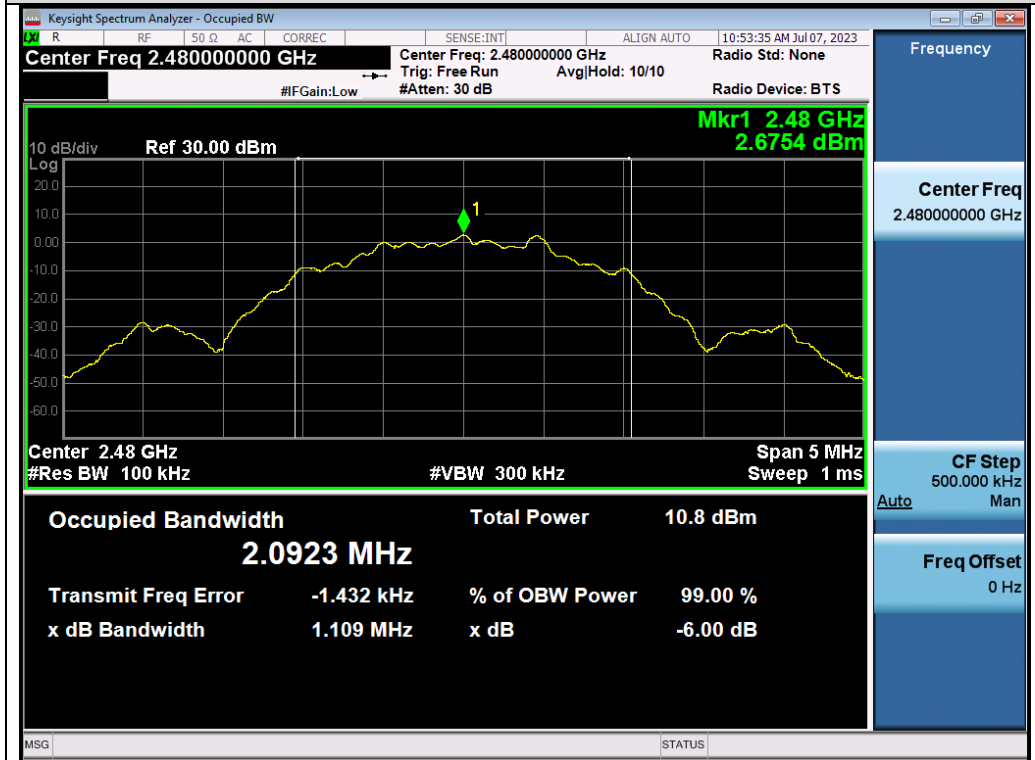


Test\_Graph\_LE2M\_ANT1\_2402\_2Mbps\_DTSBW

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Test\_Graph\_LE2M\_ANT1\_2440\_2Mbps\_DTSBW



Test\_Graph\_LE2M\_ANT1\_2480\_2Mbps\_DTSBW

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## 9. CONDUCTED SPURIOUS EMISSION

### 9.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Trace 1 Max hold, then View.

**Note:** The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

### 9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

### 9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

### 9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test Data	Criteria
In any 100 kHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.	At least -20dBc than the reference level	PASS

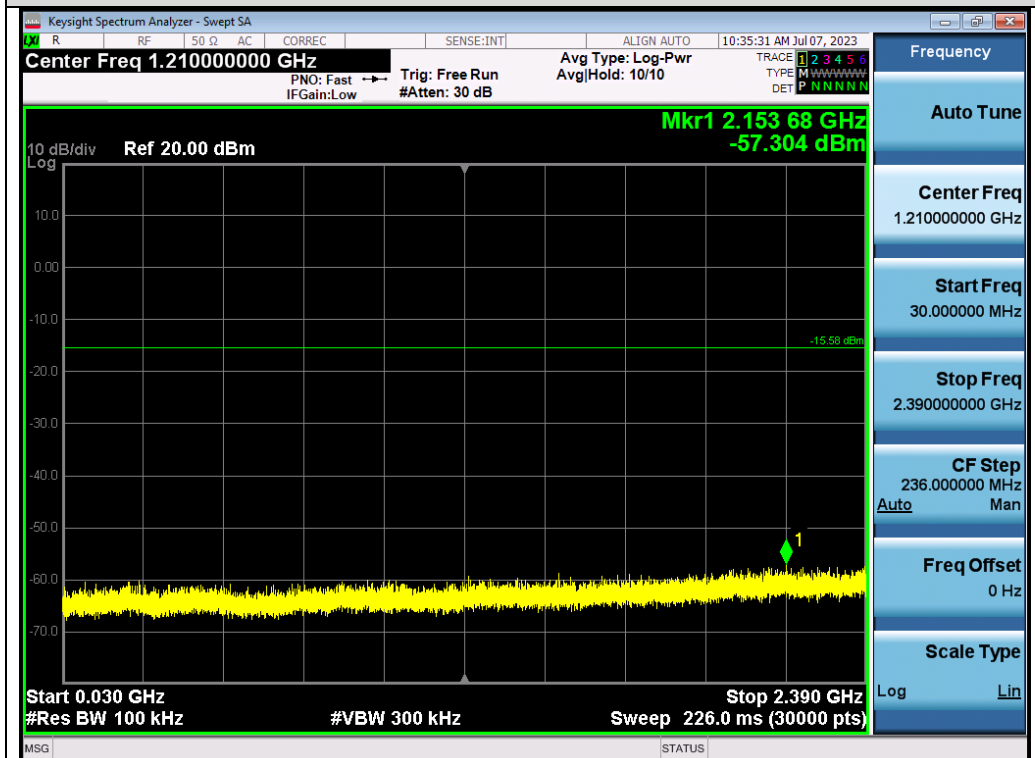
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### Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands-1Mbps

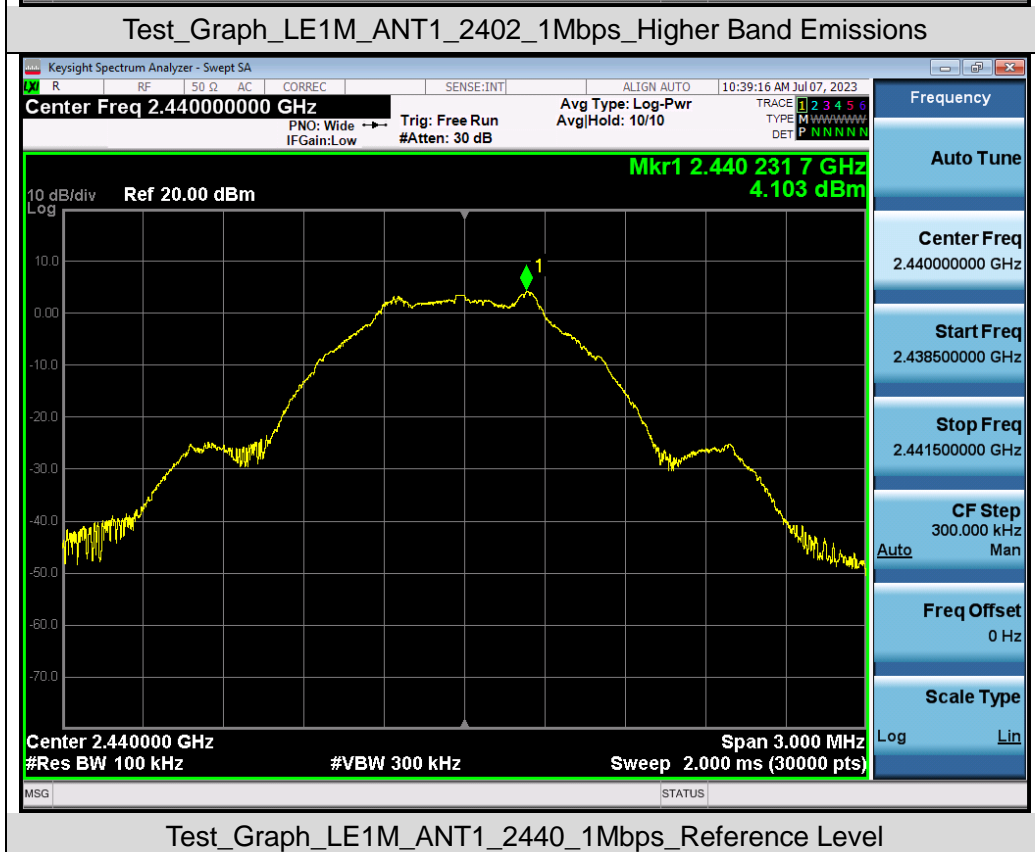
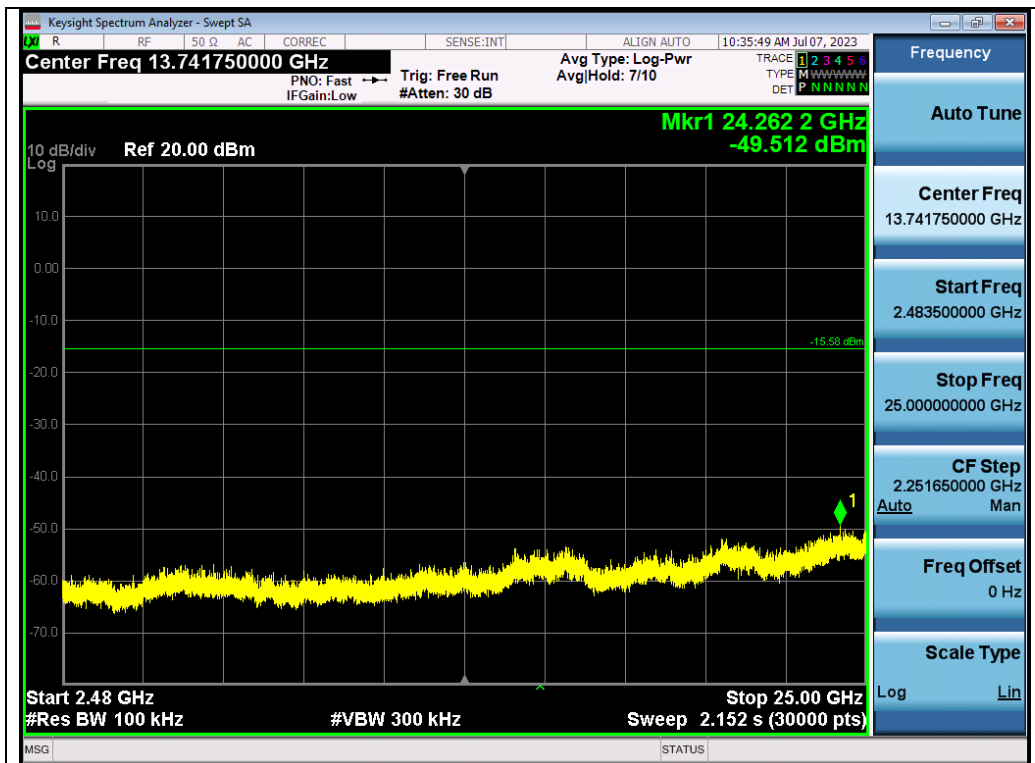


Test\_Graph\_LE1M\_ANT1\_2402\_1Mbps\_Reference Level

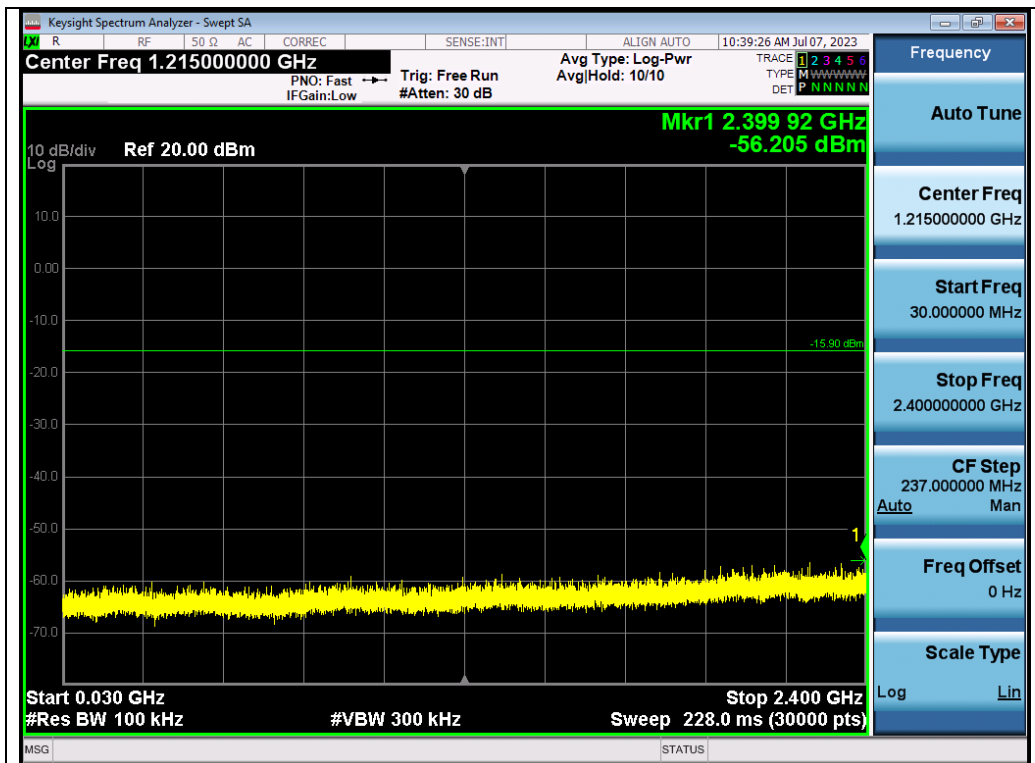


Test\_Graph\_LE1M\_ANT1\_2402\_1Mbps\_Lower Band Emissions

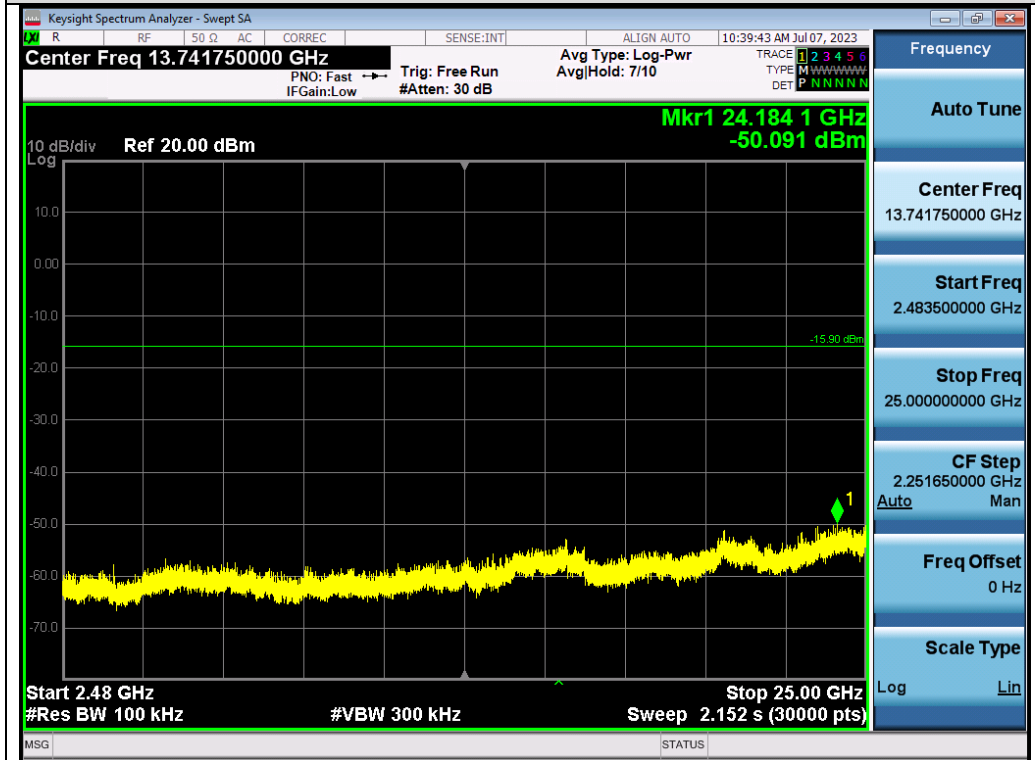
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Test\_Graph\_LE1M\_ANT1\_2440\_1Mbps\_Lower Band Emissions

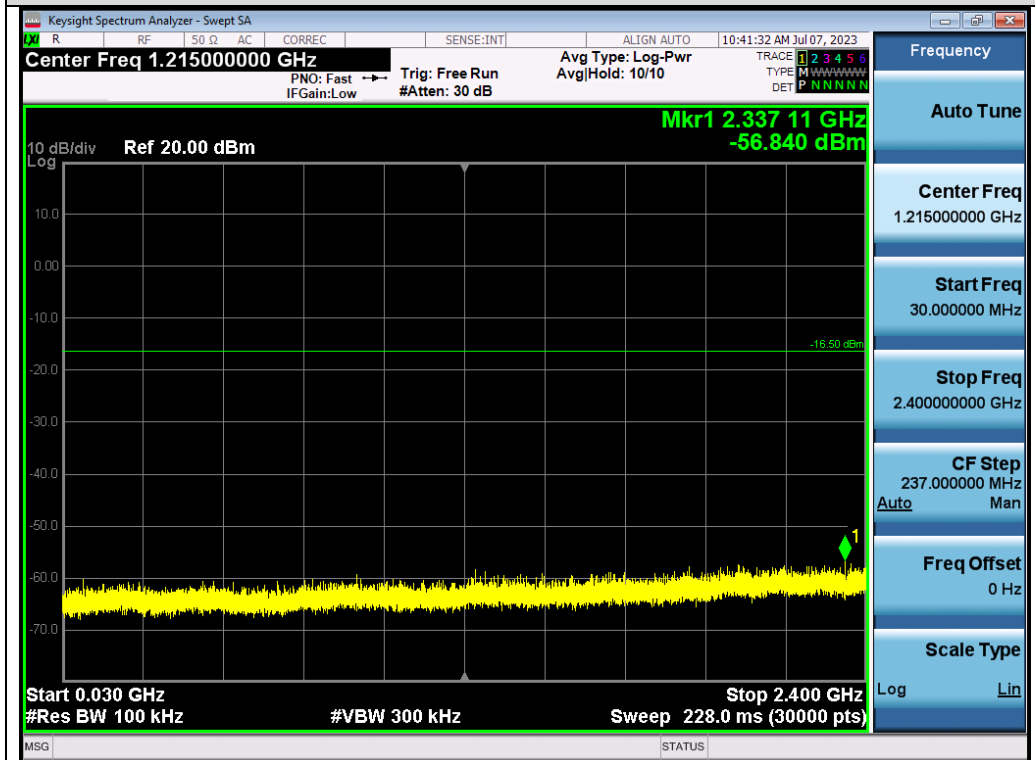


Test\_Graph\_LE1M\_ANT1\_2440\_1Mbps\_Higher Band Emissions

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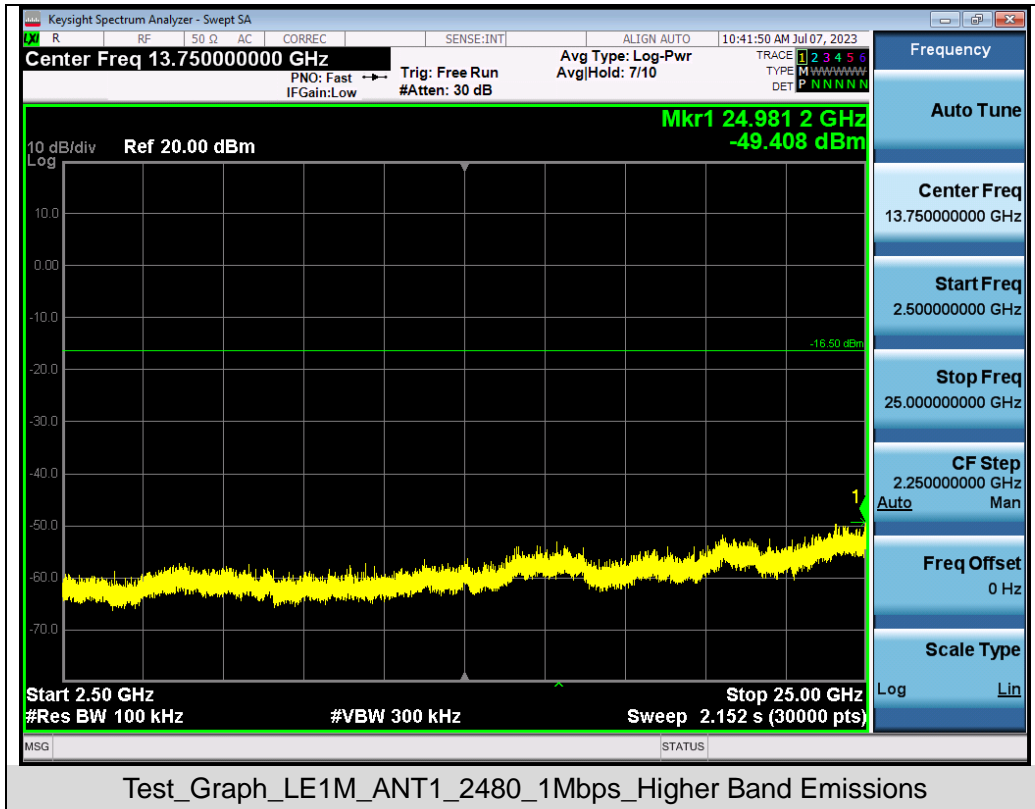


Test\_Graph\_LE1M\_ANT1\_2480\_1Mbps\_Reference Level



Test\_Graph\_LE1M\_ANT1\_2480\_1Mbps\_Lower Band Emissions

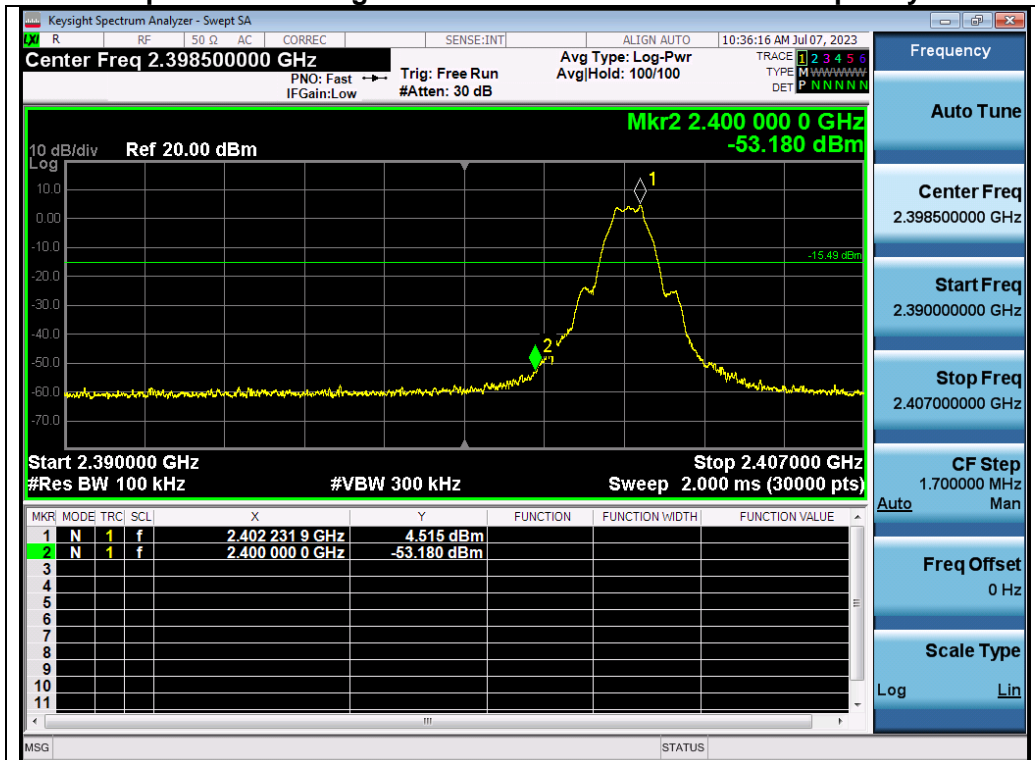
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.



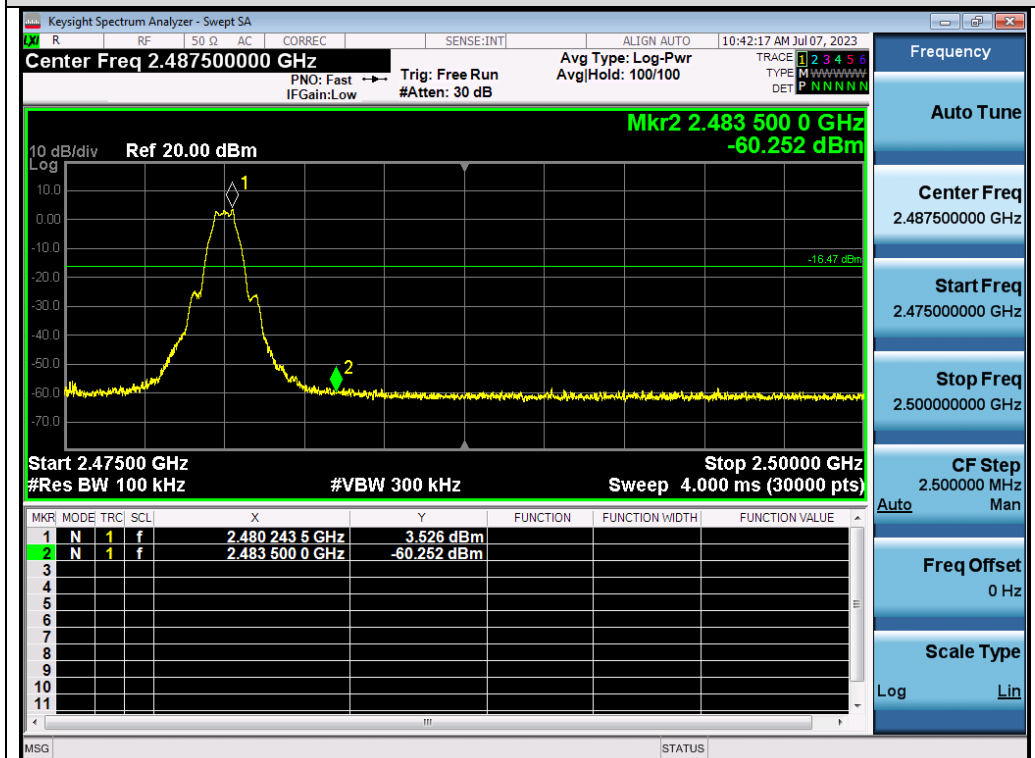
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### Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands



Test\_Graph\_LE1M\_ANT1\_2402\_1Mbps\_Lower Band Edge Emissions



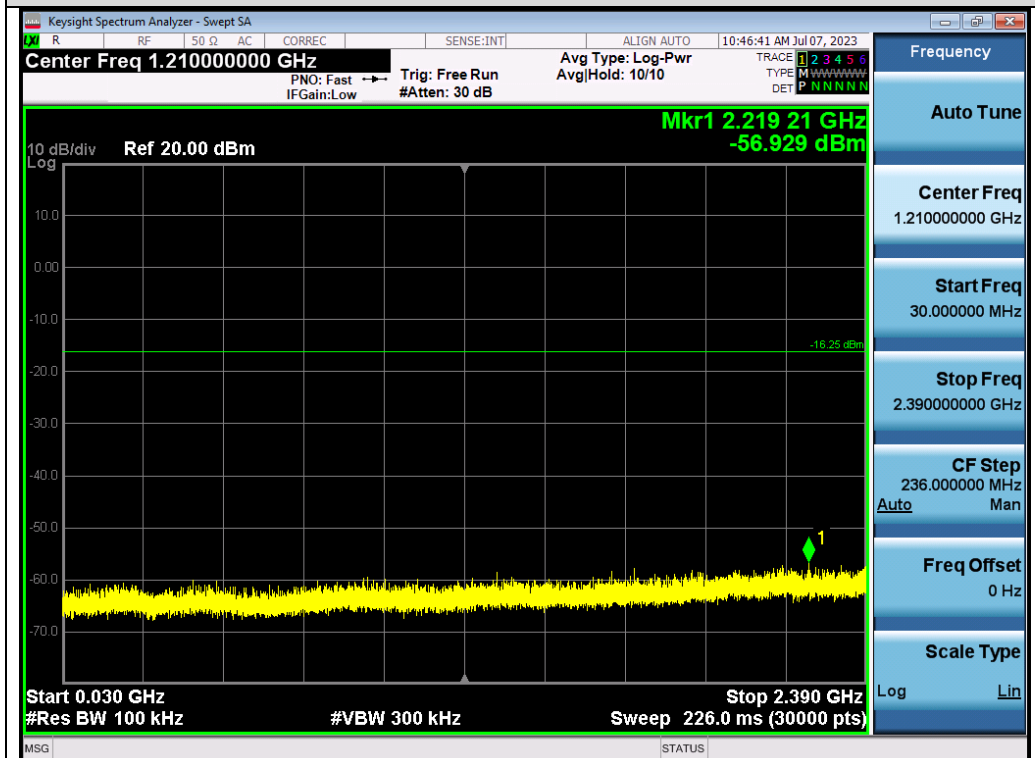
Test\_Graph\_LE1M\_ANT1\_2480\_1Mbps\_Higher Band Edge Emissions

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### Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands-2Mbps

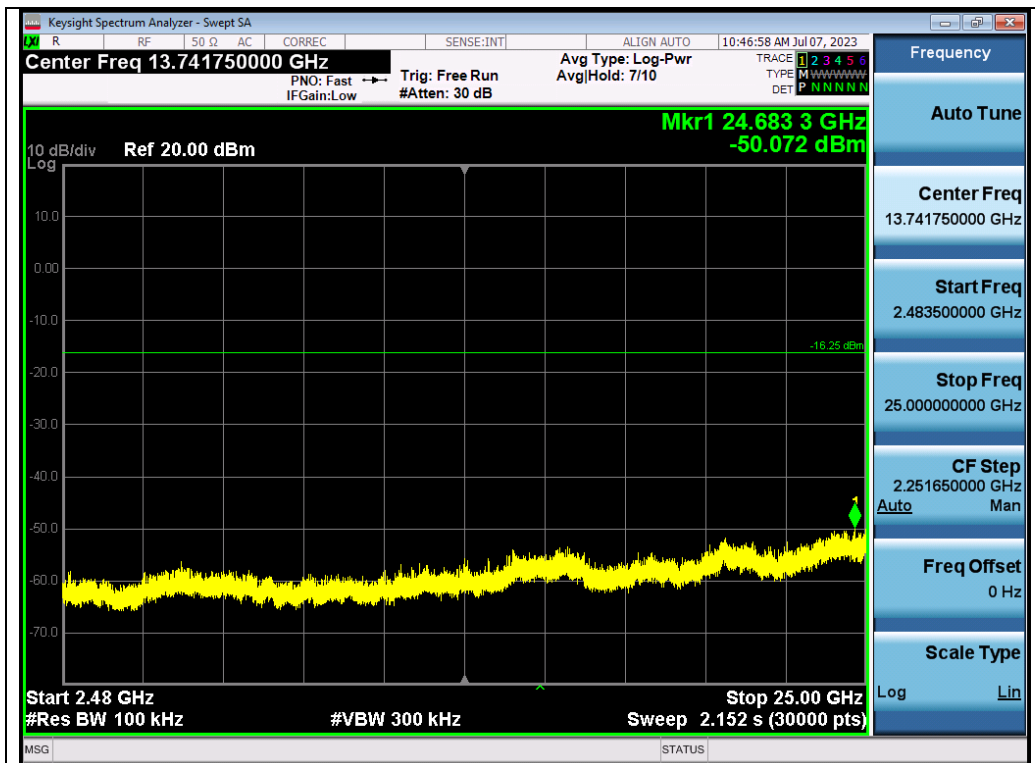


Test\_Graph\_LE2M\_ANT1\_2402\_2Mbps\_Reference Level



Test\_Graph\_LE2M\_ANT1\_2402\_2Mbps\_Lower Band Emissions

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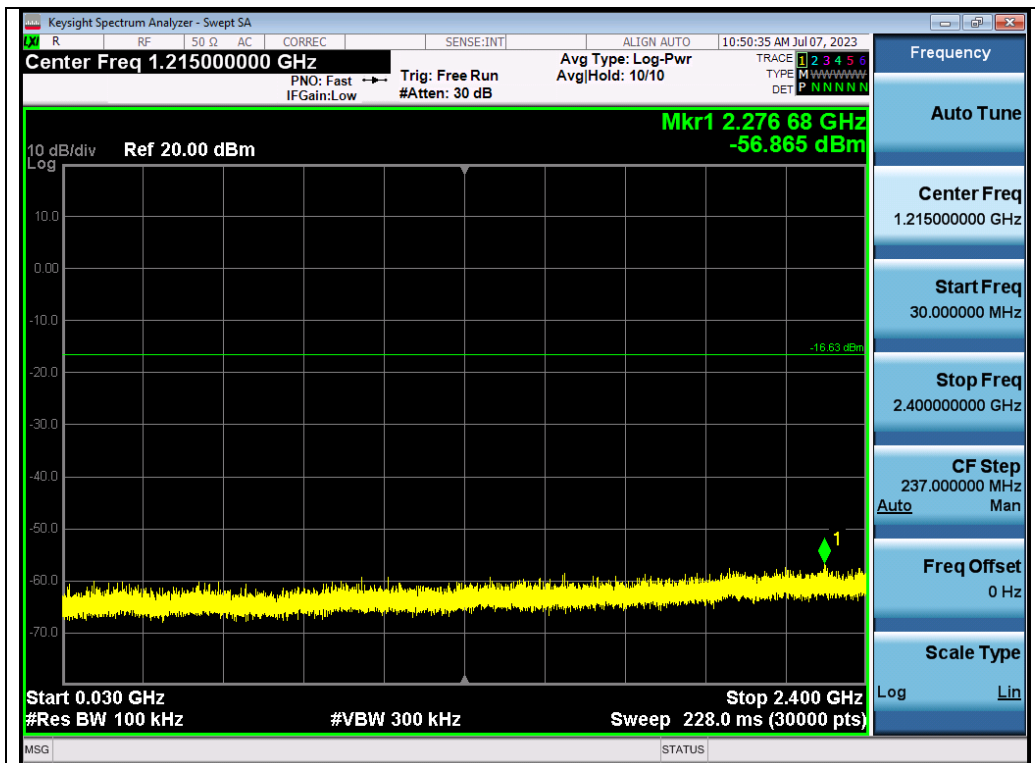
Test\_Graph\_LE2M\_ANT1\_2402\_2Mbps\_Higher Band Emissions



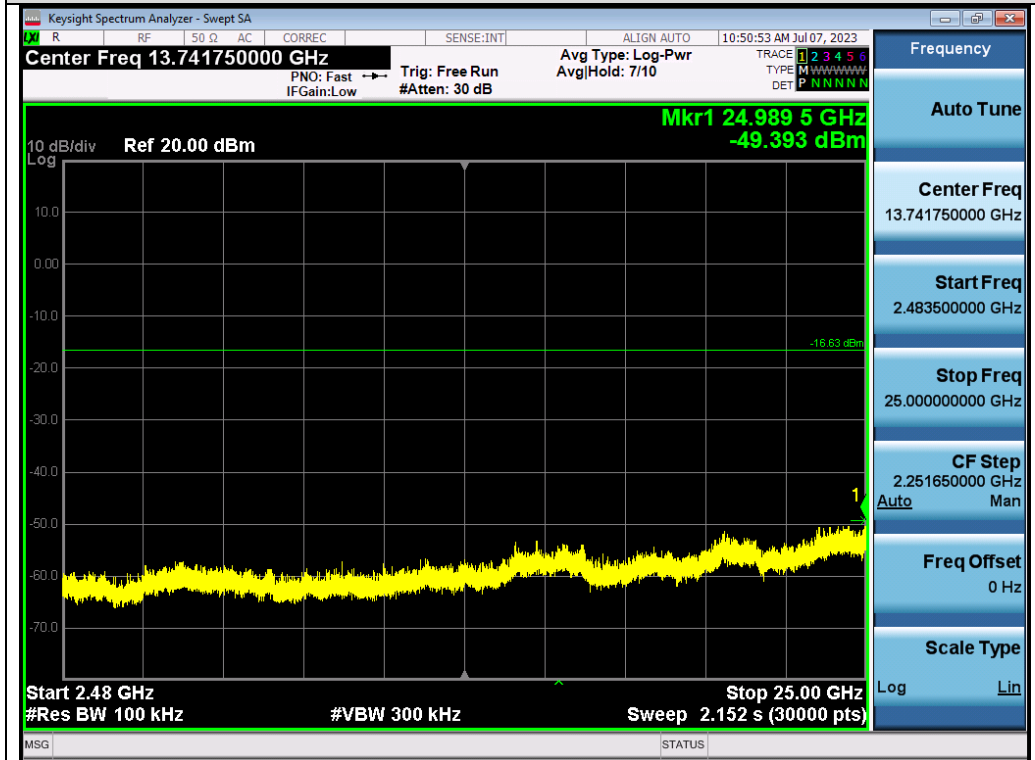
Test\_Graph\_LE2M\_ANT1\_2440\_2Mbps\_Reference Level

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Test\_Graph\_LE2M\_ANT1\_2440\_2Mbps\_Lower Band Emissions

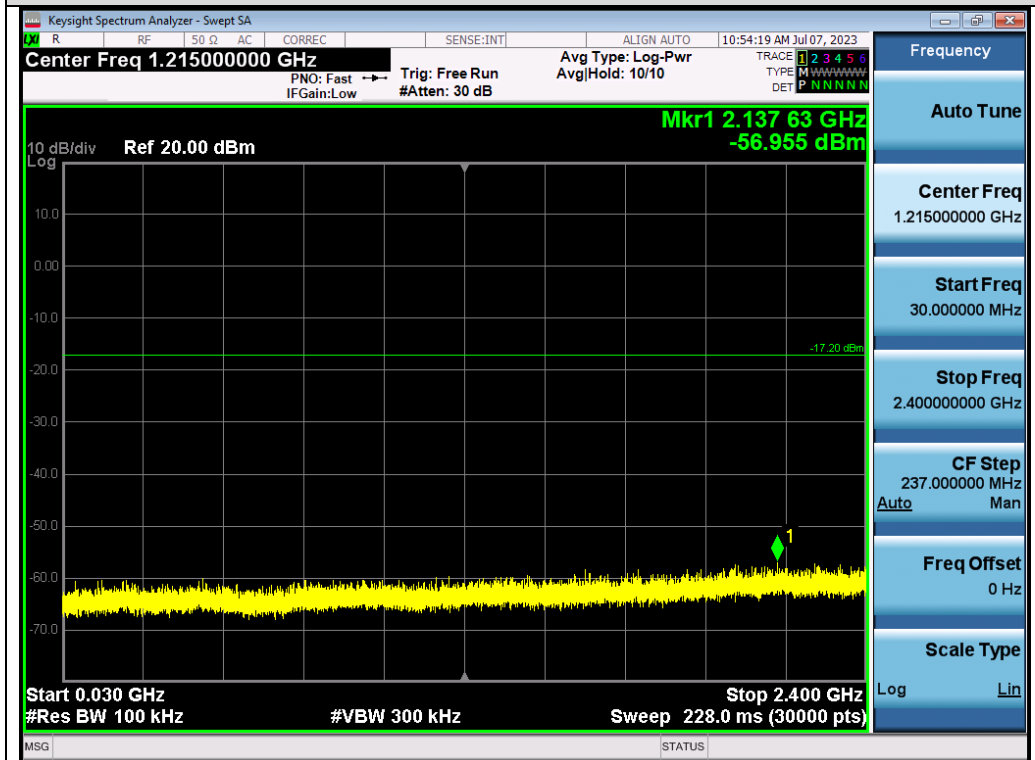


Test\_Graph\_LE2M\_ANT1\_2440\_2Mbps\_Higher Band Emissions

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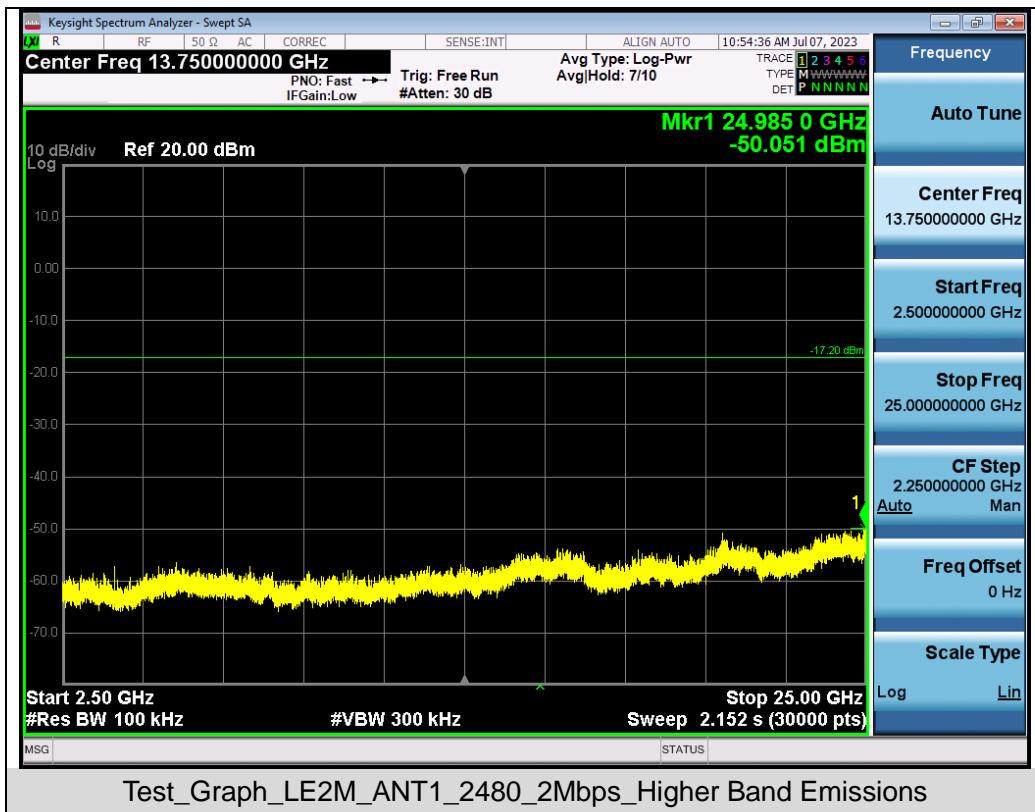


Test\_Graph\_LE2M\_ANT1\_2480\_2Mbps\_Reference Level



Test\_Graph\_LE2M\_ANT1\_2480\_2Mbps\_Lower Band Emissions

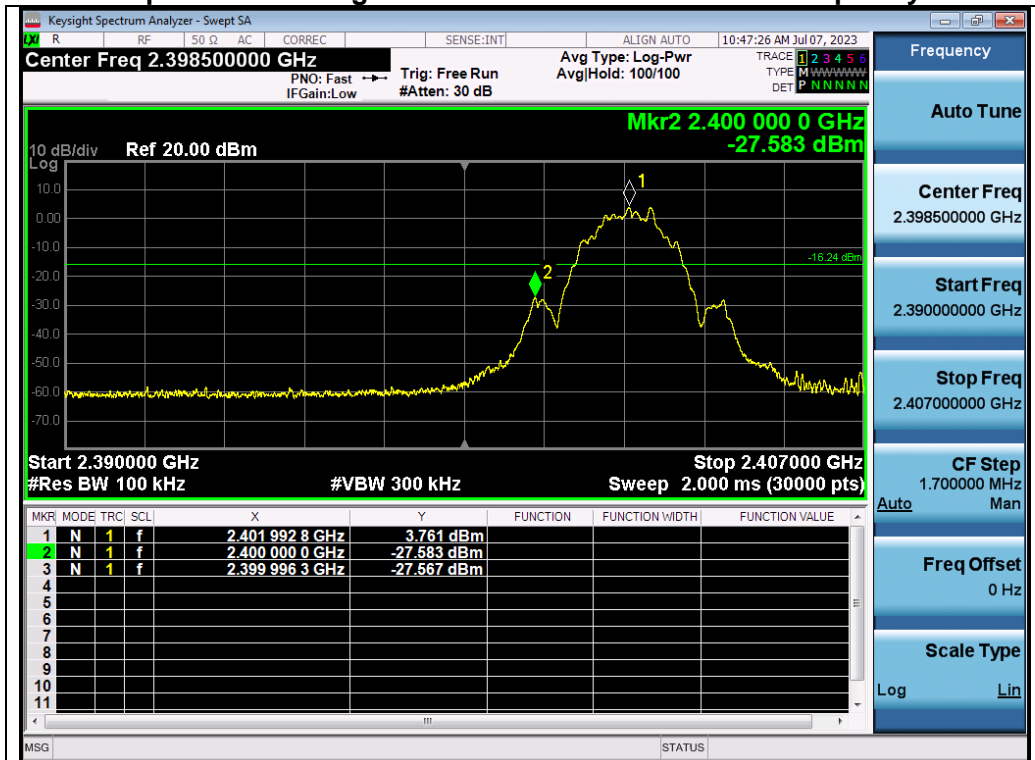
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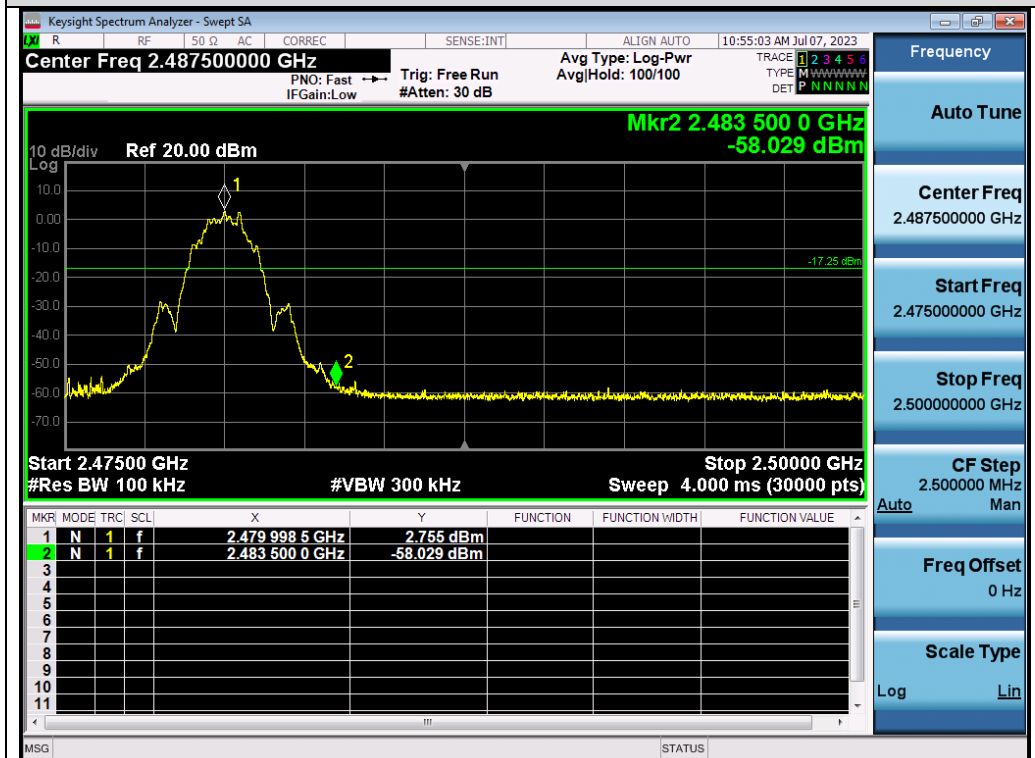
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### Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands



Test\_Graph\_LE2M\_ANT1\_2402\_2Mbps\_Lower Band Edge Emissions



Test\_Graph\_LE2M\_ANT1\_2480\_2Mbps\_Higher Band Edge Emissions

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## 10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

### 10.1. MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set the SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 8.4 was used in this testing.

### 10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer to Section 7.2.

### 10.3. MEASUREMENT EQUIPMENT USED

Refer to Section 6.

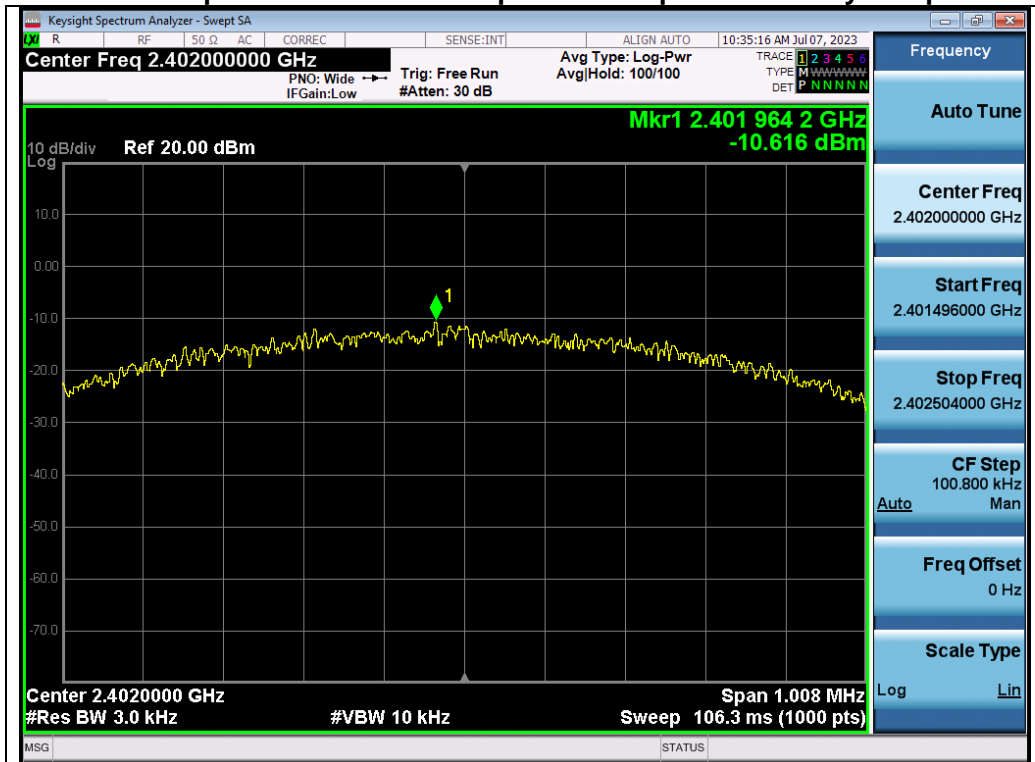
### 10.4. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power Spectral Density				
Test Mode	Test Channel (MHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail
GFSK 1M	2402	-10.616	≤8	Pass
	2440	-11.092	≤8	Pass
	2480	-11.999	≤8	Pass

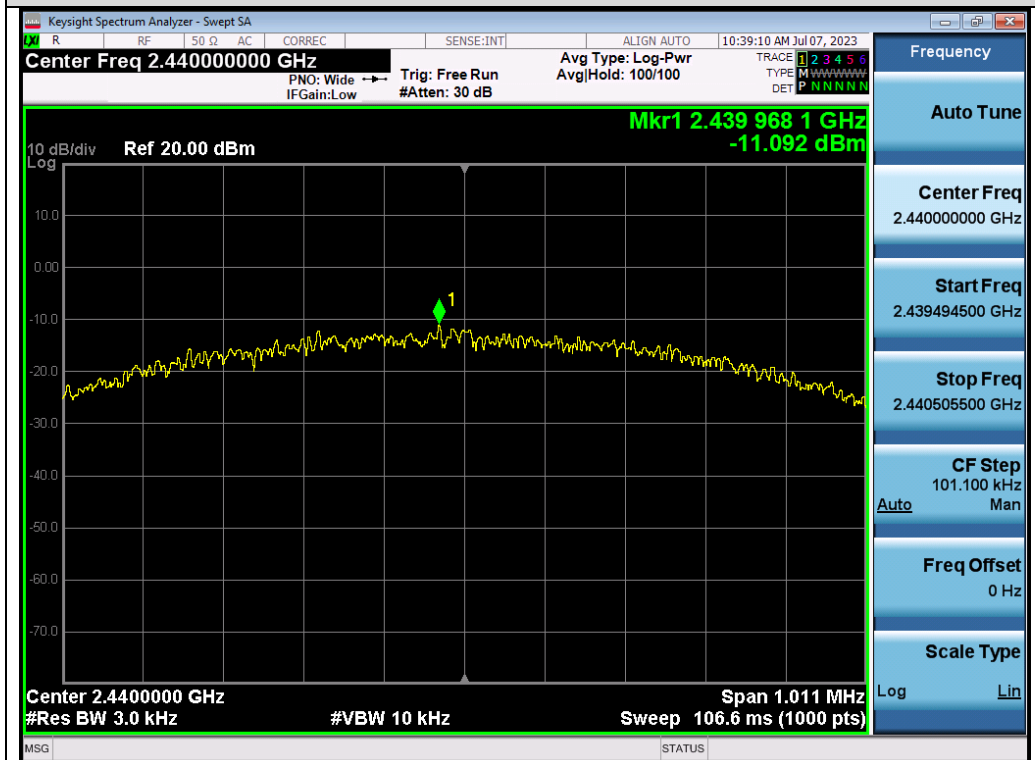
Test Data of Conducted Output Power Spectral Density				
Test Mode	Test Channel (MHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail
GFSK 2M	2402	-11.889	≤8	Pass
	2440	-12.306	≤8	Pass
	2480	-12.986	≤8	Pass

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### Test Graphs of Conducted Output Power Spectral Density-1Mbps

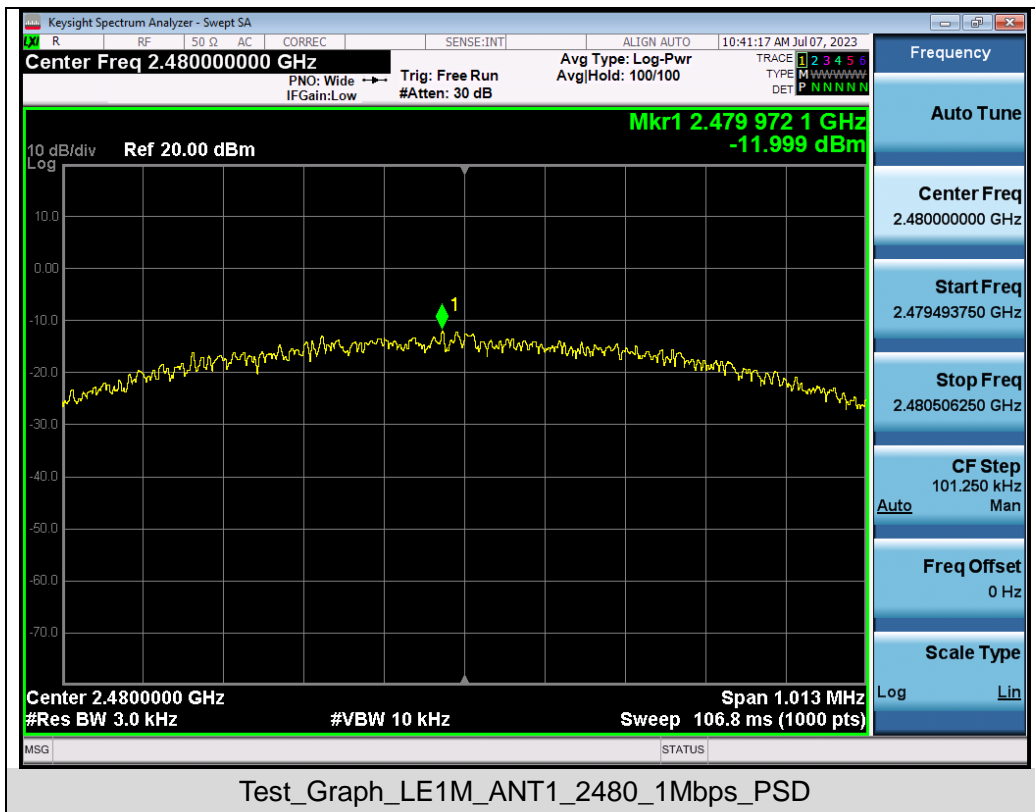


Test\_Graph\_LE1M\_ANT1\_2402\_1Mbps\_PSD

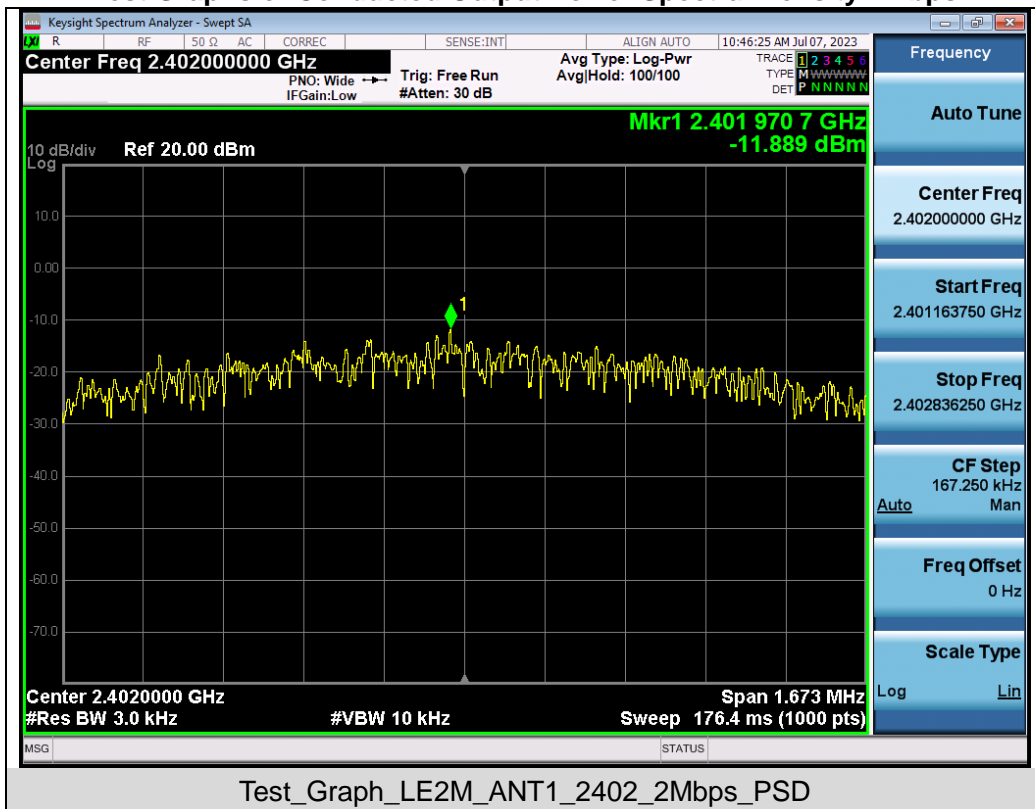


Test\_Graph\_LE1M\_ANT1\_2440\_1Mbps\_PSD

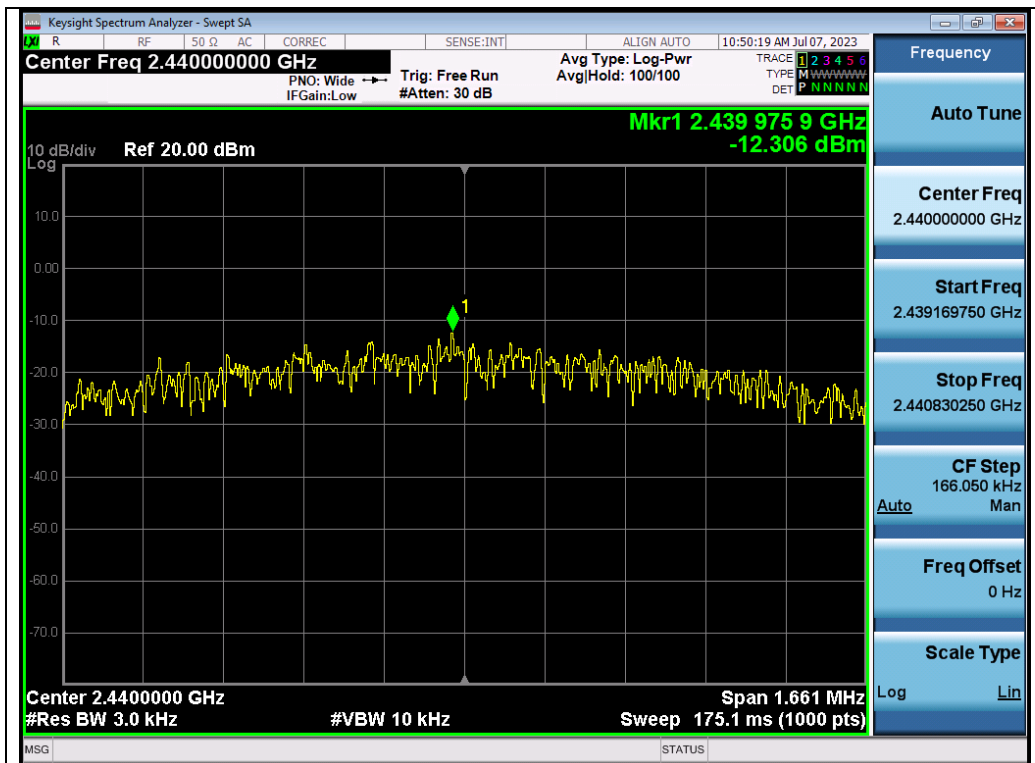
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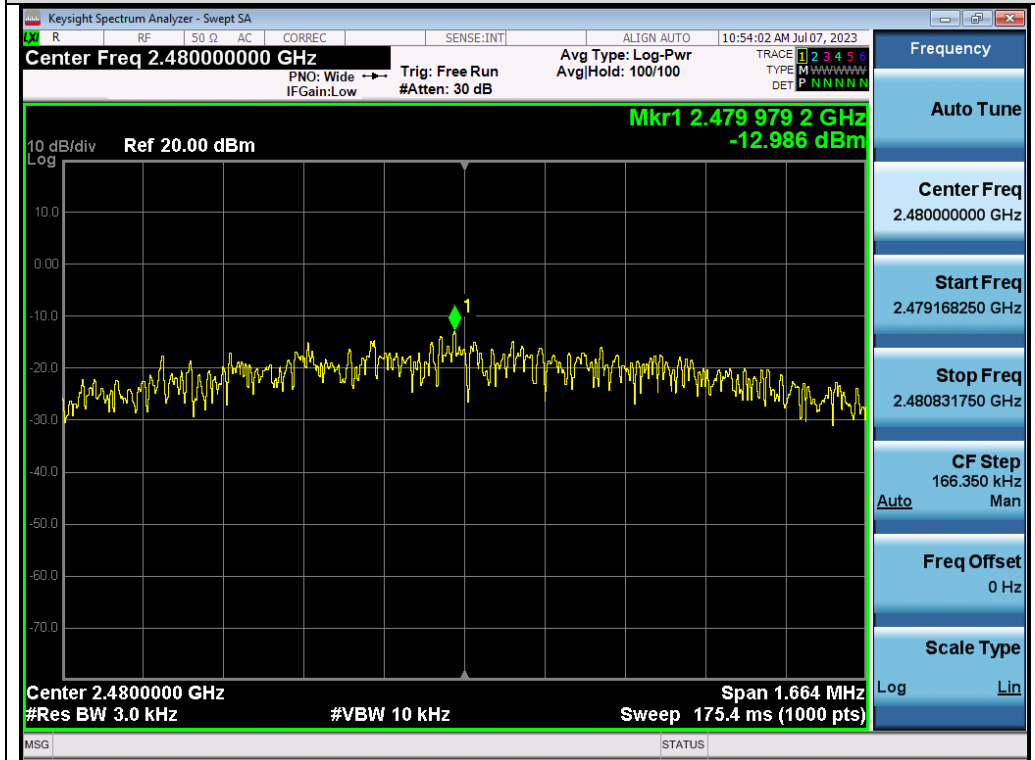
### Test Graphs of Conducted Output Power Spectral Density-2Mbps



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Test\_Graph\_LE2M\_ANT1\_2440\_2Mbps\_PSD



Test\_Graph\_LE2M\_ANT1\_2480\_2Mbps\_PSD

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## 11. RADIATED EMISSION

### 11.1. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

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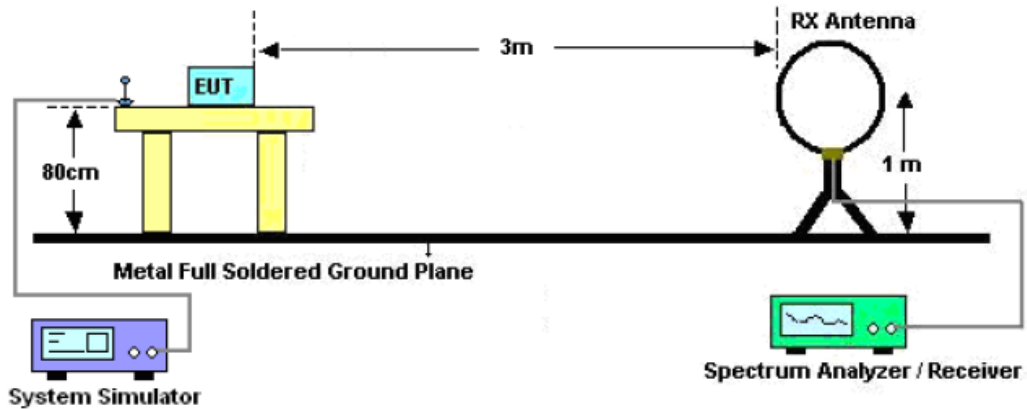
Attestation of Global Compliance(Shenzhen)Co., Ltd

Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

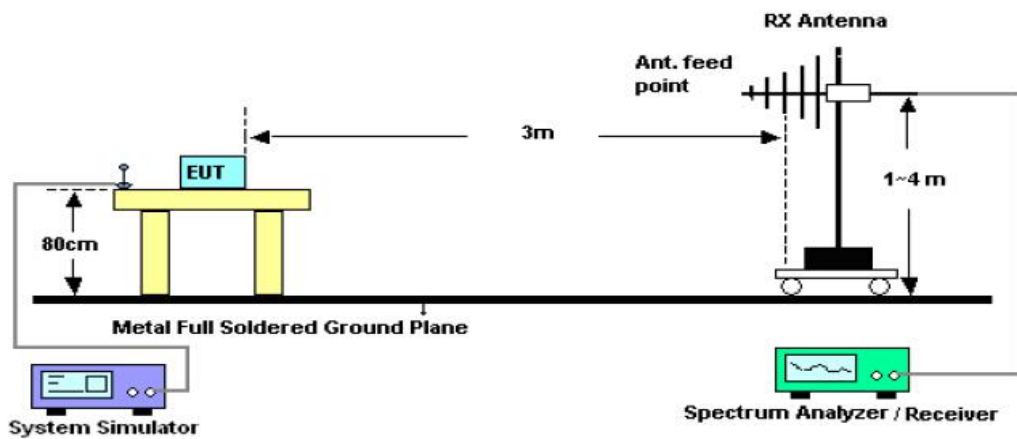
Tel: +86-755 2523 4088 E-mail: [agc@agccert.com](mailto:agc@agccert.com) Web: <http://www.agccert.com/>

### 11.2. TEST SETUP

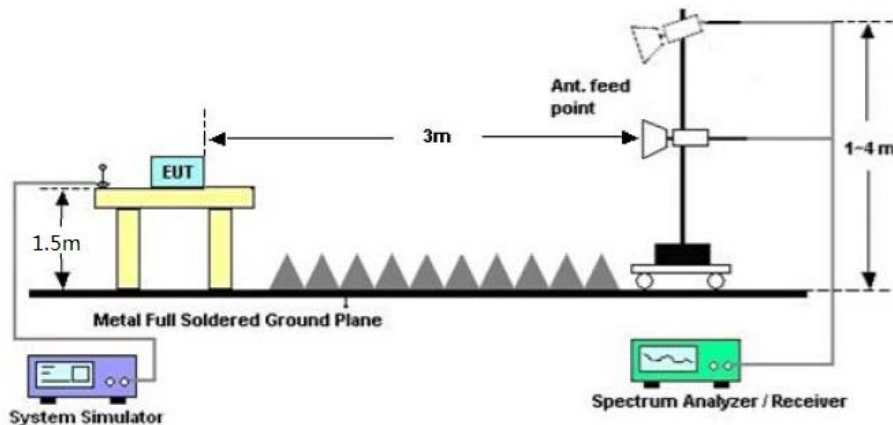
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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**11.3. LIMITS AND MEASUREMENT RESULT**

15.209 Limit in the below table has to be followed

<b>Frequencies (MHz)</b>	<b>Field Strength (microvolts/meter)</b>	<b>Measurement Distance (meters)</b>
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

**11.4. TEST RESULT**

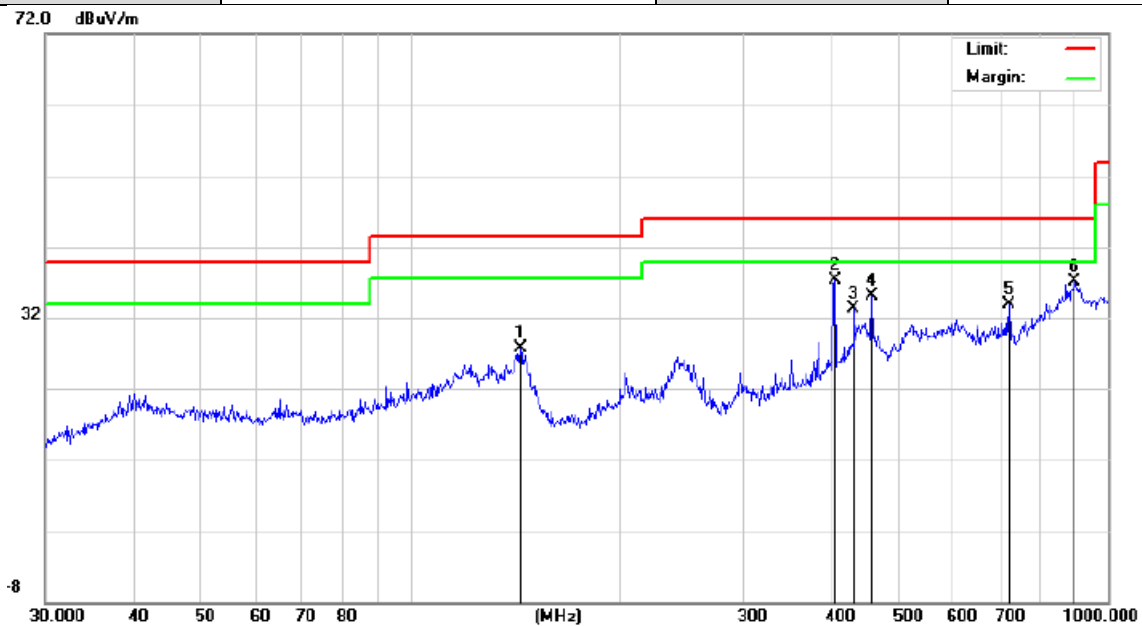
**Radiated emission below 30MHz**

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

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**Radiated emission from 30MHz to 1000MHz-1Mbps**

<b>EUT</b>	IP Phone	<b>Model Name</b>	X305
<b>Temperature</b>	23.5° C	<b>Relative Humidity</b>	60.7%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 5V
<b>Test Mode</b>	Mode 3	<b>Antenna</b>	Horizontal

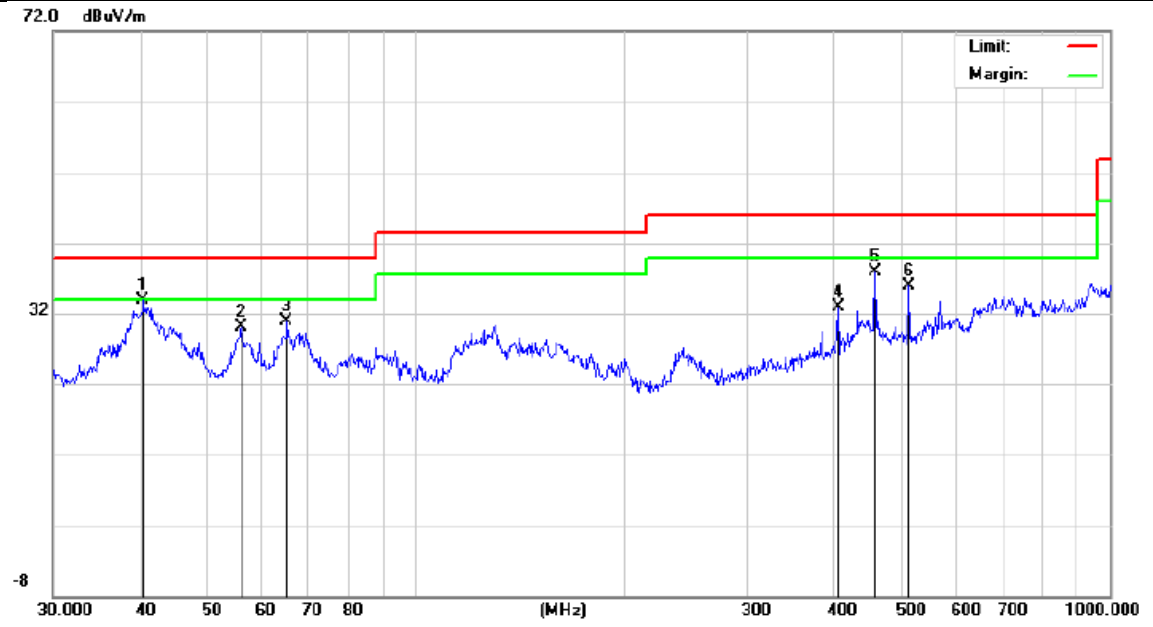


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		143.8295	13.05	14.63	27.68	43.50	-15.82	peak
2	*	406.0880	16.83	20.52	37.35	46.00	-8.65	peak
3		432.5457	9.87	23.50	33.37	46.00	-12.63	peak
4		459.1144	10.59	24.43	35.02	46.00	-10.98	peak
5		721.7259	9.27	24.64	33.91	46.00	-12.09	peak
6		896.9965	5.72	31.42	37.14	46.00	-8.86	peak

**RESULT: PASS**

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EUT	IP Phone	Model Name	X305
Temperature	23.5° C	Relative Humidity	60.7%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	Mode 3	Antenna	Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1	*	40.4172	16.98	16.90	33.88	40.00	-6.12	peak
2		56.0007	13.07	17.06	30.13	40.00	-9.87	peak
3		65.1145	13.86	17.05	30.91	40.00	-9.09	peak
4		406.0880	10.42	22.41	32.83	46.00	-13.17	peak
5		459.1144	12.75	25.24	37.99	46.00	-8.01	peak
6		513.6331	12.39	23.49	35.88	46.00	-10.12	peak

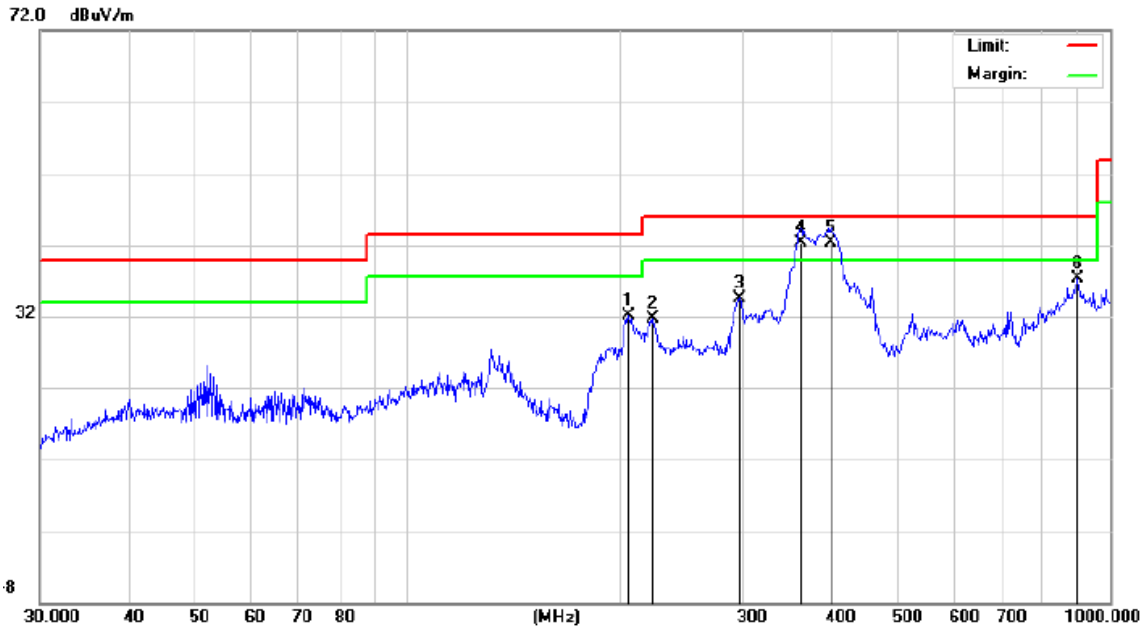
**RESULT: PASS**

**Note:**

- Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
- All test modes had been tested. The mode 3 is the worst case and recorded in the report.

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EUT	IP Phone	Model Name	X305
Temperature	23.5° C	Relative Humidity	60.7%
Pressure	960hPa	Test Voltage	DC 48V
Test Mode	Mode 6	Antenna	Horizontal

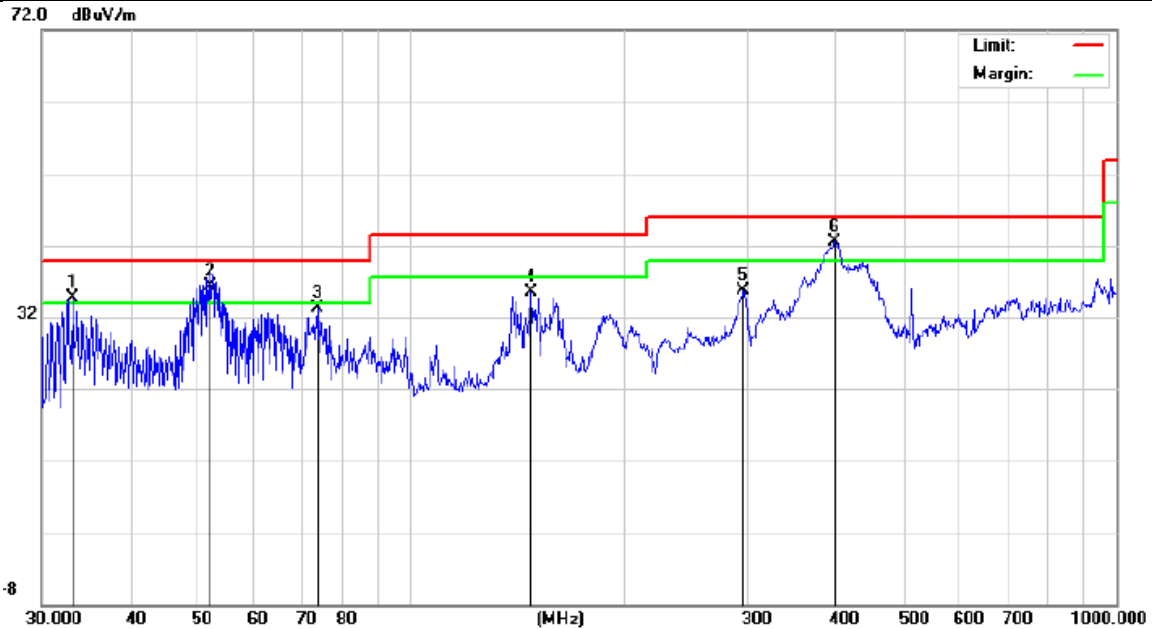


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		206.3976	17.54	14.47	32.01	43.50	-11.49	peak
2		223.7334	17.12	14.59	31.71	46.00	-14.29	peak
3		297.2241	19.32	15.28	34.60	46.00	-11.40	peak
4	!	362.9844	24.52	17.69	42.21	46.00	-3.79	QP
5	*	400.4319	21.87	20.41	42.28	46.00	-3.72	QP
6		900.1474	5.44	31.78	37.22	46.00	-8.78	peak

**RESULT: PASS**

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<b>EUT</b>	IP Phone	<b>Model Name</b>	X305
<b>Temperature</b>	23.5° C	<b>Relative Humidity</b>	60.7%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 48V
<b>Test Mode</b>	Mode 6	<b>Antenna</b>	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dB/m	dB	
1	!	33.0950	20.14	14.62	34.76	40.00	-5.24	peak
2	!	51.8430	19.21	17.02	36.23	40.00	-3.77	QP
3		73.8756	16.30	16.96	33.26	40.00	-6.74	peak
4		147.9214	17.28	18.20	35.48	43.50	-8.02	peak
5		296.1836	16.95	18.80	35.75	46.00	-10.25	peak
6	*	399.0302	20.39	22.16	42.55	46.00	-3.45	peak

**RESULT: PASS**

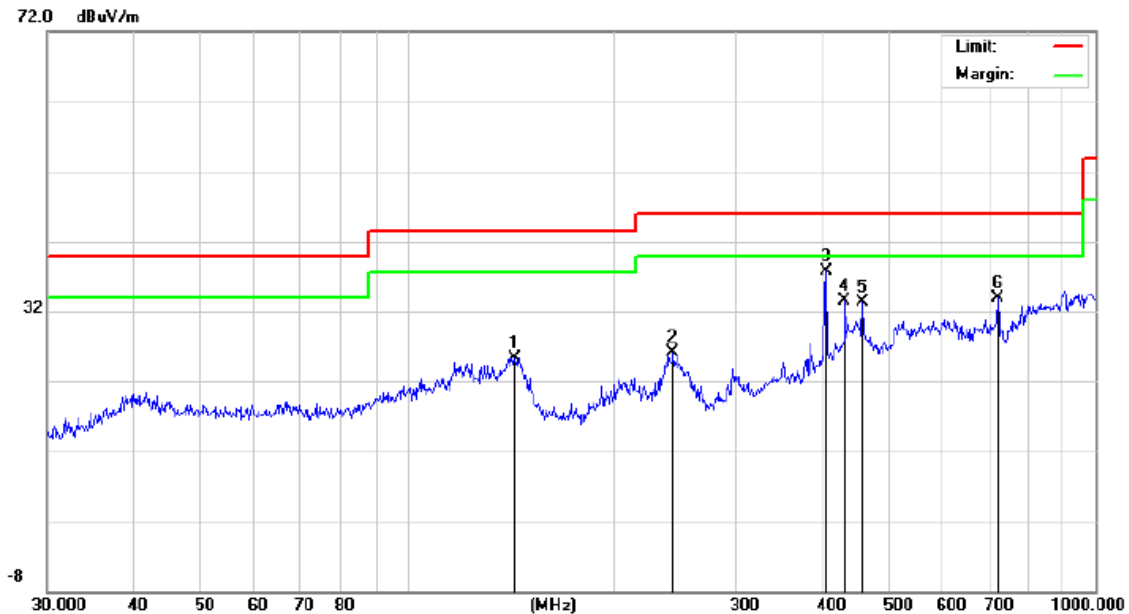
**Note:**

1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
2. All test modes had been tested. The mode 6 is the worst case and recorded in the report.

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**Radiated emission from 30MHz to 1000MHz-2Mbps**

<b>EUT</b>	IP Phone	<b>Model Name</b>	X305
<b>Temperature</b>	23.5° C	<b>Relative Humidity</b>	60.7%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 5V
<b>Test Mode</b>	Mode 3	<b>Antenna</b>	Horizontal



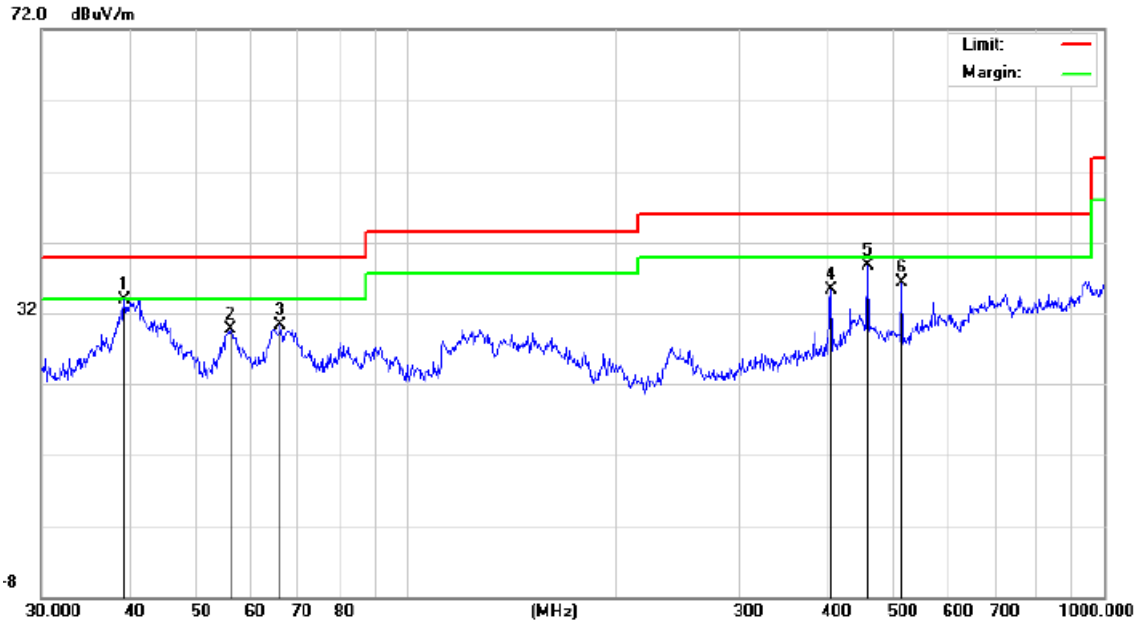
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		143.3261	10.67	14.70	25.37	43.50	-18.13	peak
2		243.3772	10.84	15.30	26.14	46.00	-19.86	peak
3	*	406.0880	17.14	20.52	37.66	46.00	-8.34	peak
4		432.5457	10.04	23.50	33.54	46.00	-12.46	peak
5		459.1144	8.78	24.43	33.21	46.00	-12.79	peak
6		721.7259	9.33	24.64	33.97	46.00	-12.03	peak

**RESULT: PASS**

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EUT	IP Phone	Model Name	X305
Temperature	23.5° C	Relative Humidity	60.7%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	Mode 3	Antenna	Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1	*	39.4371	17.12	16.71	33.83	40.00	-6.17	peak
2		56.0007	12.70	17.06	29.76	40.00	-10.24	peak
3		66.0342	13.23	17.04	30.27	40.00	-9.73	peak
4		406.0880	12.89	22.41	35.30	46.00	-10.70	peak
5		459.1144	13.53	25.24	38.77	46.00	-7.23	peak
6		513.6331	12.87	23.49	36.36	46.00	-9.64	peak

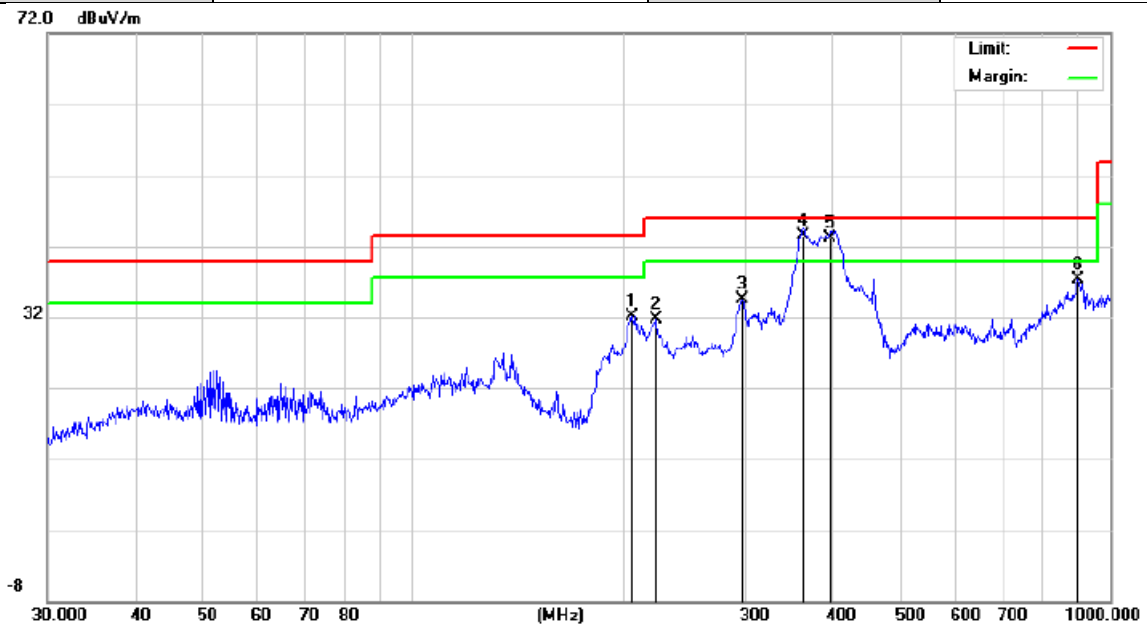
**RESULT: PASS**

**Note:**

- Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
- All test modes had been tested. The mode 3 is the worst case and recorded in the report.

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<b>EUT</b>	IP Phone	<b>Model Name</b>	X305
<b>Temperature</b>	23.5° C	<b>Relative Humidity</b>	60.7%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 48V
<b>Test Mode</b>	Mode 6	<b>Antenna</b>	Horizontal

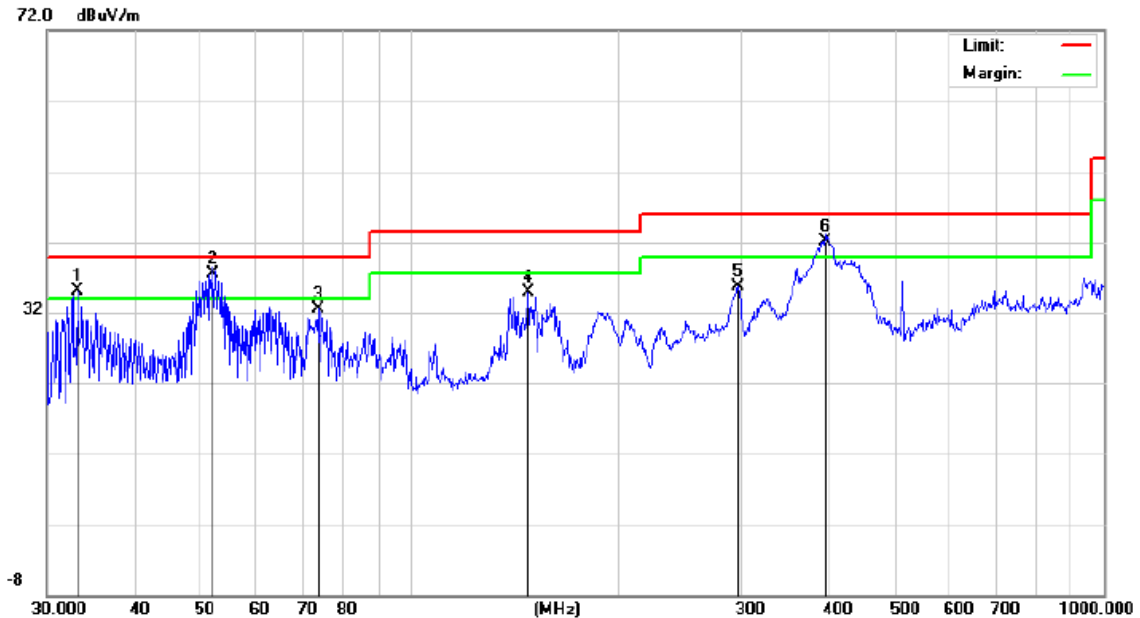


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		206.3976	17.60	14.47	32.07	43.50	-11.43	peak
2		222.9502	17.23	14.55	31.78	46.00	-14.22	peak
3		297.2241	19.18	15.28	34.46	46.00	-11.54	peak
4	*	362.9844	24.74	17.69	42.43	46.00	-3.57	QP
5	!	397.6334	21.91	20.14	42.05	46.00	-3.95	QP
6		900.1474	5.55	31.78	37.33	46.00	-8.67	peak

**RESULT: PASS**

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<b>EUT</b>	IP Phone	<b>Model Name</b>	X305
<b>Temperature</b>	23.5° C	<b>Relative Humidity</b>	60.7%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 48V
<b>Test Mode</b>	Mode 6	<b>Antenna</b>	Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1	!	33.0950	20.54	14.62	35.16	40.00	-4.84	peak
2	*	51.8430	19.39	17.02	36.41	40.00	-3.59	QP
3		73.8756	15.53	16.96	32.49	40.00	-7.51	peak
4		147.9214	16.70	18.20	34.90	43.50	-8.60	peak
5		297.2241	16.93	18.83	35.76	46.00	-10.24	peak
6	!	397.6334	20.05	22.11	42.16	46.00	-3.84	QP

**RESULT: PASS**

**Note:**

1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
2. All test modes had been tested. The mode 6 is the worst case and recorded in the report.

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**Radiated emission above 1GHz-1Mbps**

<b>EUT</b>	IP Phone	<b>Model Name</b>	X305
<b>Temperature</b>	25° C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 5V
<b>Test Mode</b>	Mode 1	<b>Antenna</b>	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804.011	51.27	0.08	51.35	74.00	-22.65	peak
4804.011	42.33	0.08	42.41	54.00	-11.59	AVG
7206.022	48.19	2.21	50.40	74.00	-23.60	peak
7206.022	38.37	2.21	40.58	54.00	-13.42	AVG

Remark:  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

<b>EUT</b>	IP Phone	<b>Model Name</b>	X305
<b>Temperature</b>	25° C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 5V
<b>Test Mode</b>	Mode 1	<b>Antenna</b>	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804.011	50.36	0.08	50.44	74.00	-23.56	peak
4804.011	41.32	0.08	41.40	54.00	-12.60	AVG
7206.022	48.38	2.21	50.59	74.00	-23.41	peak
7206.022	38.69	2.21	40.90	54.00	-13.10	AVG

Remark:  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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<b>EUT</b>	IP Phone	<b>Model Name</b>	X305
<b>Temperature</b>	25° C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 5V
<b>Test Mode</b>	Mode 2	<b>Antenna</b>	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4880.005	49.85	0.14	49.99	74.00	-24.01	peak
4880.005	42.39	0.14	42.53	54.00	-11.47	AVG
7320.140	46.25	2.36	48.61	74.00	-25.39	peak
7320.140	38.41	2.36	40.77	54.00	-13.23	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

<b>EUT</b>	IP Phone	<b>Model Name</b>	X305
<b>Temperature</b>	25° C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 5V
<b>Test Mode</b>	Mode 2	<b>Antenna</b>	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4880.050	52.41	0.14	52.55	74.00	-21.45	peak
4880.050	41.37	0.14	41.51	54.00	-12.49	AVG
7320.080	48.33	2.36	50.69	74.00	-23.31	peak
7320.080	41.25	2.36	43.61	54.00	-10.39	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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<b>EUT</b>	IP Phone	<b>Model Name</b>	X305
<b>Temperature</b>	25° C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 5V
<b>Test Mode</b>	Mode 3	<b>Antenna</b>	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.012	48.52	0.22	48.74	74.00	-25.26	peak
4960.012	38.69	0.22	38.91	54.00	-15.09	AVG
7440.027	48.12	2.64	50.76	74.00	-23.24	peak
7440.027	38.33	2.64	40.97	54.00	-13.03	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

<b>EUT</b>	IP Phone	<b>Model Name</b>	X305
<b>Temperature</b>	25° C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 5V
<b>Test Mode</b>	Mode 3	<b>Antenna</b>	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.013	49.74	0.22	49.96	74	-24.04	peak
4960.013	41.39	0.22	41.61	54	-12.39	AVG
7440.027	46.56	2.64	49.20	74	-24.80	peak
7440.027	38.25	2.64	40.89	54	-13.11	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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<b>EUT</b>	IP Phone	<b>Model Name</b>	X305
<b>Temperature</b>	25° C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 48V
<b>Test Mode</b>	Mode 4	<b>Antenna</b>	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804.011	48.63	0.08	48.71	74.00	-25.29	peak
4804.011	42.02	0.08	42.10	54.00	-11.90	AVG
7206.022	46.15	2.21	48.36	74.00	-25.64	peak
7206.022	38.35	2.21	40.56	54.00	-13.45	AVG

Remark:  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

<b>EUT</b>	IP Phone	<b>Model Name</b>	X305
<b>Temperature</b>	25° C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 48V
<b>Test Mode</b>	Mode 4	<b>Antenna</b>	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804.011	47.63	0.08	47.71	74.00	-26.29	peak
4804.011	41.15	0.08	41.23	54.00	-12.77	AVG
7206.022	45.36	2.21	47.57	74.00	-26.43	peak
7206.022	39.52	2.21	41.73	54.00	-12.27	AVG

Remark:  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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<b>EUT</b>	IP Phone	<b>Model Name</b>	X305
<b>Temperature</b>	25° C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 48V
<b>Test Mode</b>	Mode 5	<b>Antenna</b>	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4880.005	48.57	0.14	48.71	74.00	-25.29	peak
4880.005	41.13	0.14	41.27	54.00	-12.73	AVG
7320.140	45.28	2.36	47.64	74.00	-26.36	peak
7320.140	39.69	2.36	42.05	54.00	-11.95	AVG

Remark:  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

<b>EUT</b>	IP Phone	<b>Model Name</b>	X305
<b>Temperature</b>	25° C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 48V
<b>Test Mode</b>	Mode 5	<b>Antenna</b>	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4880.050	49.69	0.14	49.83	74.00	-24.17	peak
4880.050	42.37	0.14	42.51	54.00	-11.49	AVG
7320.080	47.25	2.36	49.61	74.00	-24.39	peak
7320.080	40.35	2.36	42.71	54.00	-11.29	AVG

Remark:  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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<b>EUT</b>	IP Phone	<b>Model Name</b>	X305
<b>Temperature</b>	25° C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 48V
<b>Test Mode</b>	Mode 6	<b>Antenna</b>	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.012	49.87	0.22	50.09	74.00	-23.91	peak
4960.012	39.61	0.22	39.83	54.00	-14.17	AVG
7440.027	47.59	2.64	50.23	74.00	-23.77	peak
7440.027	37.31	2.64	39.95	54.00	-14.05	AVG

Remark:  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

<b>EUT</b>	IP Phone	<b>Model Name</b>	X305
<b>Temperature</b>	25° C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 48V
<b>Test Mode</b>	Mode 6	<b>Antenna</b>	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.013	48.25	0.22	48.47	74	-25.53	peak
4960.013	40.18	0.22	40.40	54	-13.60	AVG
7440.027	45.37	2.64	48.01	74	-25.99	peak
7440.027	37.46	2.64	40.10	54	-13.90	AVG

Remark:  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

**RESULT: PASS**

**Note:**

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The “Factor” value can be calculated automatically by software of measurement system.

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**Radiated emission above 1GHz-2Mbps**

<b>EUT</b>	IP Phone	<b>Model Name</b>	X305
<b>Temperature</b>	25° C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 5V
<b>Test Mode</b>	Mode 1	<b>Antenna</b>	Horizontal

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
4804.011	52.52	0.08	52.60	74.00	-21.40	peak
4804.011	41.15	0.08	41.23	54.00	-12.77	AVG
7206.022	49.32	2.21	51.53	74.00	-22.47	peak
7206.022	39.12	2.21	41.33	54.00	-12.67	AVG

Remark:  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

<b>EUT</b>	IP Phone	<b>Model Name</b>	X305
<b>Temperature</b>	25° C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 5V
<b>Test Mode</b>	Mode 1	<b>Antenna</b>	Vertical

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
4804.011	52.36	0.08	52.44	74.00	-21.56	peak
4804.011	41.23	0.08	41.31	54.00	-12.69	AVG
7206.022	49.36	2.21	51.57	74.00	-22.43	peak
7206.022	37.12	2.21	39.33	54.00	-14.67	AVG

Remark:  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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<b>EUT</b>	IP Phone	<b>Model Name</b>	X305
<b>Temperature</b>	25° C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 5V
<b>Test Mode</b>	Mode 2	<b>Antenna</b>	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4880.005	50.21	0.14	50.35	74.00	-23.65	peak
4880.005	43.36	0.14	43.50	54.00	-10.50	AVG
7320.140	47.12	2.36	49.48	74.00	-24.52	peak
7320.140	39.33	2.36	41.69	54.00	-12.31	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

<b>EUT</b>	IP Phone	<b>Model Name</b>	X305
<b>Temperature</b>	25° C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 5V
<b>Test Mode</b>	Mode 2	<b>Antenna</b>	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4880.050	51.96	0.14	52.10	74.00	-21.90	peak
4880.050	42.37	0.14	42.51	54.00	-11.49	AVG
7320.080	49.37	2.36	51.73	74.00	-22.27	peak
7320.080	39.63	2.36	41.99	54.00	-12.01	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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<b>EUT</b>	IP Phone	<b>Model Name</b>	X305
<b>Temperature</b>	25° C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 5V
<b>Test Mode</b>	Mode 3	<b>Antenna</b>	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.012	48.74	0.22	48.96	74.00	-25.04	peak
4960.012	39.12	0.22	39.34	54.00	-14.66	AVG
7440.027	49.25	2.64	51.89	74.00	-22.11	peak
7440.027	39.12	2.64	41.76	54.00	-12.24	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

<b>EUT</b>	IP Phone	<b>Model Name</b>	X305
<b>Temperature</b>	25° C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 3	<b>Antenna</b>	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.013	48.36	0.22	48.58	74	-25.42	peak
4960.013	42.33	0.22	42.55	54	-11.45	AVG
7440.027	47.36	2.64	50.00	74	-24.00	peak
7440.027	37.12	2.64	39.76	54	-14.24	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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<b>EUT</b>	IP Phone	<b>Model Name</b>	X305
<b>Temperature</b>	25° C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 48V
<b>Test Mode</b>	Mode 4	<b>Antenna</b>	Horizontal

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
4804.011	50.58	0.08	50.66	74.00	-23.34	peak
4804.011	42.05	0.08	42.13	54.00	-11.87	AVG
7206.022	46.96	2.21	49.17	74.00	-24.83	peak
7206.022	38.78	2.21	40.99	54.00	-13.01	AVG

Remark:  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

<b>EUT</b>	IP Phone	<b>Model Name</b>	X305
<b>Temperature</b>	25° C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 48V
<b>Test Mode</b>	Mode 4	<b>Antenna</b>	Vertical

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
4804.011	51.25	0.08	51.33	74.00	-22.67	peak
4804.011	41.98	0.08	42.06	54.00	-11.94	AVG
7206.022	45.96	2.21	48.17	74.00	-25.83	peak
7206.022	37.96	2.21	40.17	54.00	-13.83	AVG

Remark:  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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<b>EUT</b>	IP Phone	<b>Model Name</b>	X305
<b>Temperature</b>	25° C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 48V
<b>Test Mode</b>	Mode 5	<b>Antenna</b>	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4880.005	47.96	0.14	48.10	74.00	-25.90	peak
4880.005	42.05	0.14	42.19	54.00	-11.81	AVG
7320.140	46.12	2.36	48.48	74.00	-25.52	peak
7320.140	38.77	2.36	41.13	54.00	-12.87	AVG

Remark:  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

<b>EUT</b>	IP Phone	<b>Model Name</b>	X305
<b>Temperature</b>	25° C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 48V
<b>Test Mode</b>	Mode 5	<b>Antenna</b>	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4880.005	50.58	0.14	50.72	74.00	-23.28	peak
4880.005	41.74	0.14	41.88	54.00	-12.12	AVG
7320.140	45.36	2.36	47.72	74.00	-26.28	peak
7320.140	39.78	2.36	42.14	54.00	-11.86	AVG

Remark:  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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<b>EUT</b>	IP Phone	<b>Model Name</b>	X305
<b>Temperature</b>	25° C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	DC 48V
<b>Test Mode</b>	Mode 6	<b>Antenna</b>	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.012	48.36	0.22	48.58	74.00	-25.42	peak
4960.012	38.41	0.22	38.63	54.00	-15.37	AVG
7440.027	48.36	2.64	51.00	74.00	-23.00	peak
7440.027	36.25	2.64	38.89	54.00	-15.11	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

<b>EUT</b>	IP Phone	<b>Model Name</b>	X305
<b>Temperature</b>	25° C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 6	<b>Antenna</b>	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.012	49.61	0.22	49.83	74.00	-24.17	peak
4960.012	39.11	0.22	39.33	54.00	-14.67	AVG
7440.027	48.36	2.64	51.00	74.00	-23.00	peak
7440.027	38.11	2.64	40.75	54.00	-13.25	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

**RESULT: PASS**

**Note:**

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

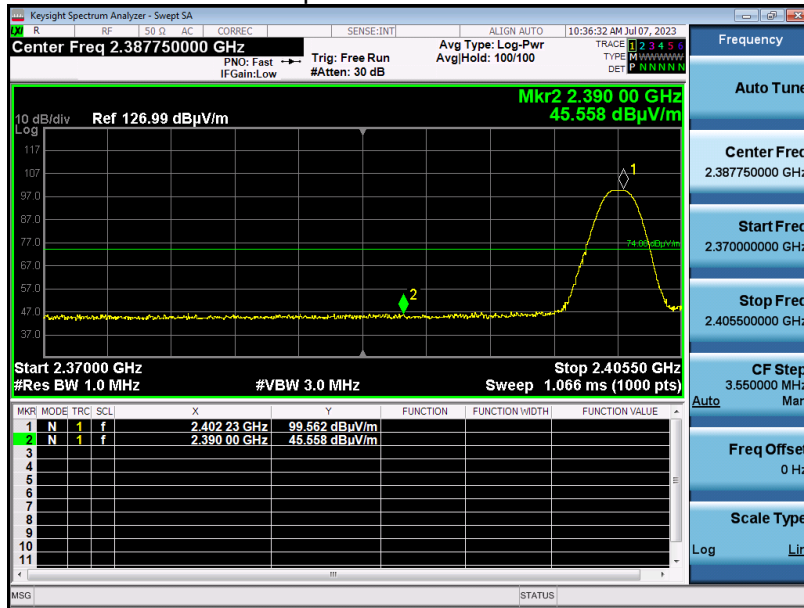
The “Factor” value can be calculated automatically by software of measurement system.

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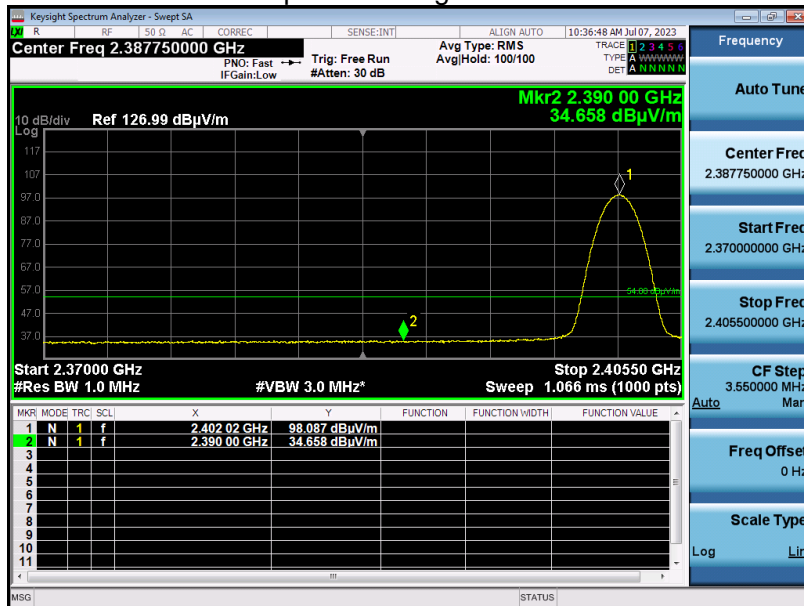
**Test result for band edge emission at restricted bands-1Mbps**

EUT	IP Phone	Model Name	X305
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	Mode 1	Antenna	Horizontal

**Test Graph for Peak Measurement**



**Test Graph for Average Measurement**



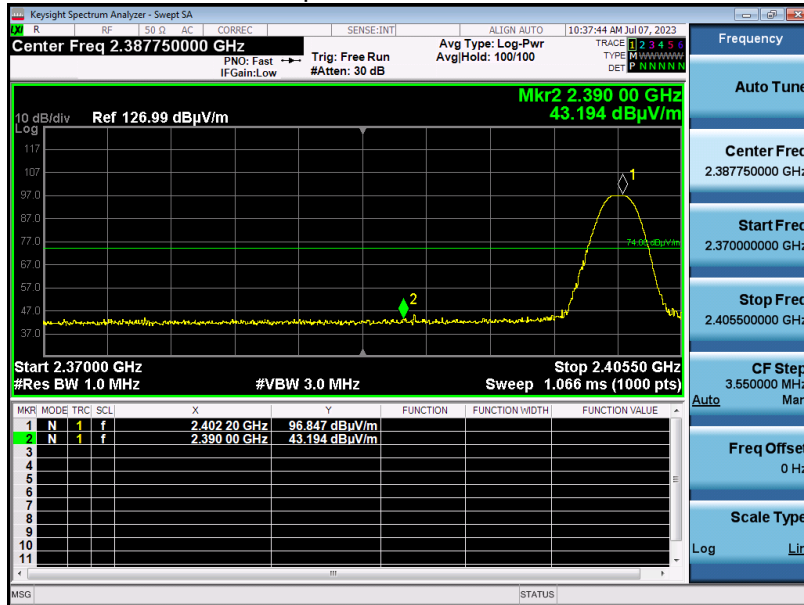
**RESULT: PASS**

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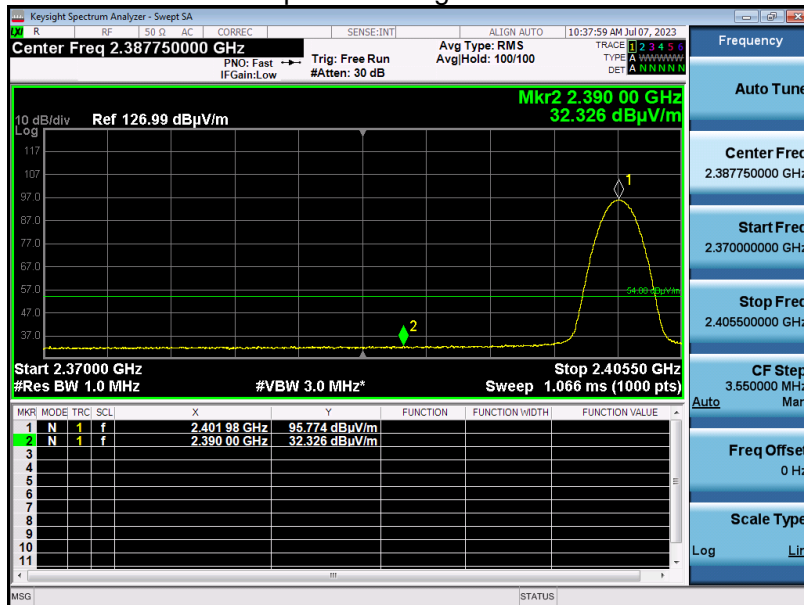


EUT	IP Phone	Model Name	X305
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	Mode 1	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



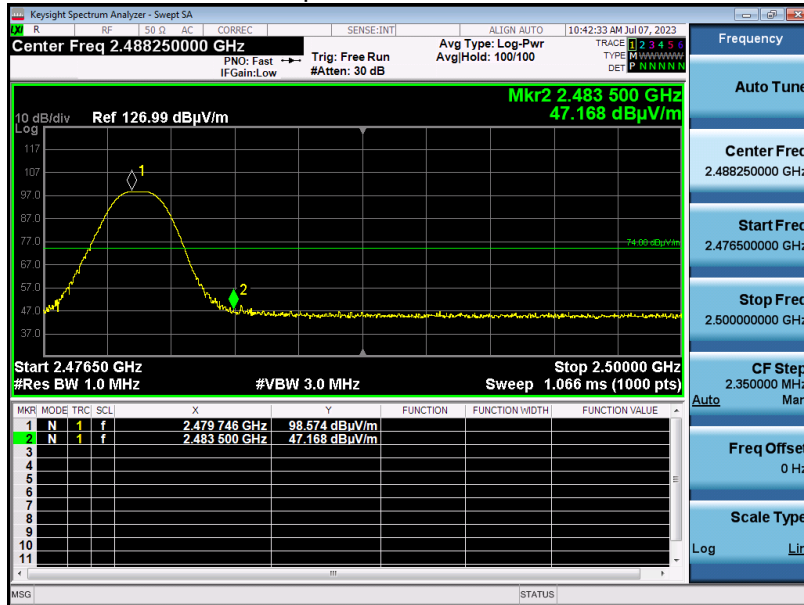
**RESULT: PASS**

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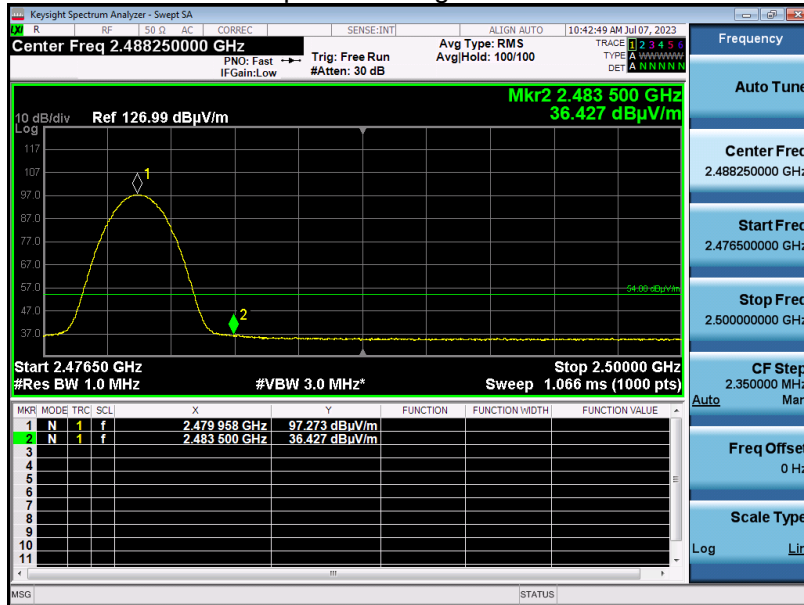
Attestation of Global Compliance(Shenzhen)Co., Ltd  
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd  
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

EUT	IP Phone	Model Name	X305
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	Mode 3	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



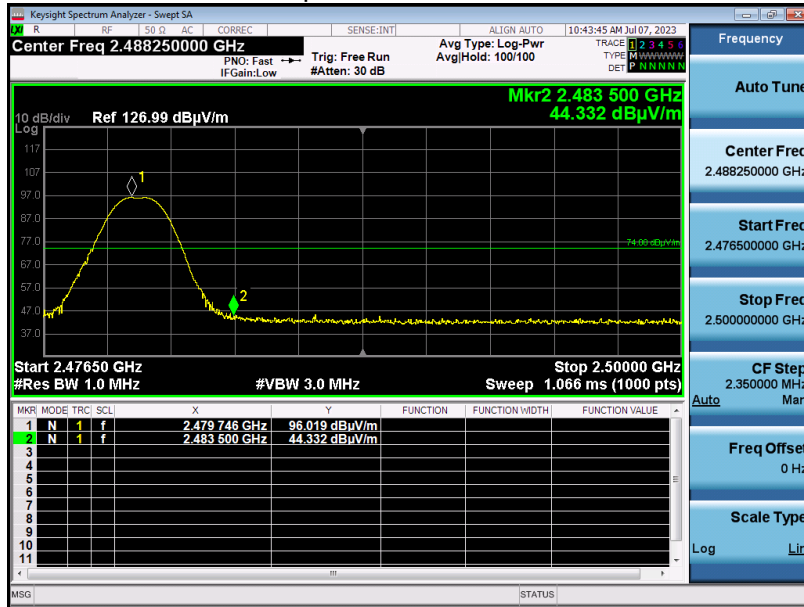
RESULT: PASS

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

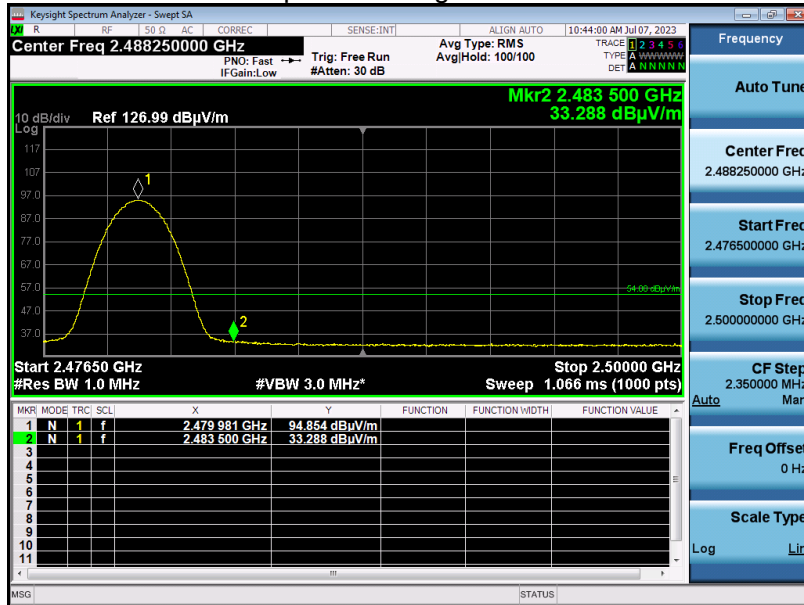
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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

EUT	IP Phone	Model Name	X305
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	Mode 3	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



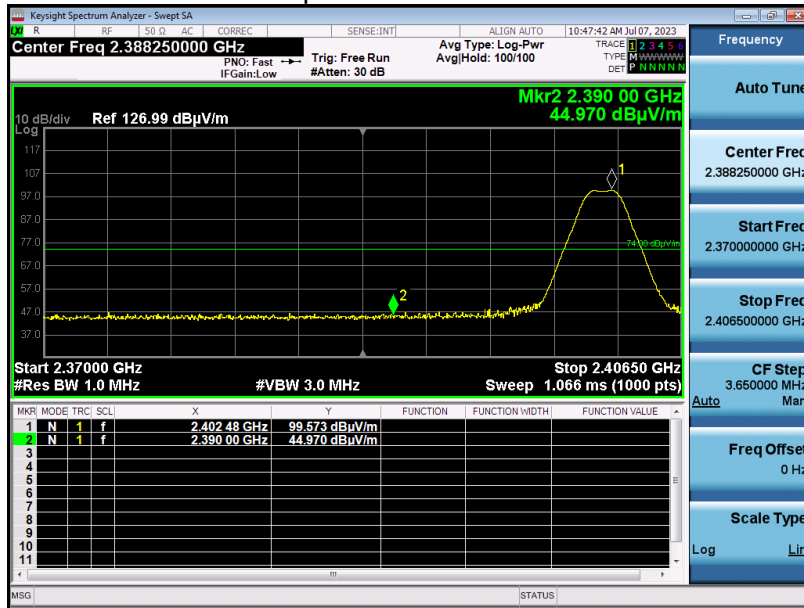
**RESULT: PASS**

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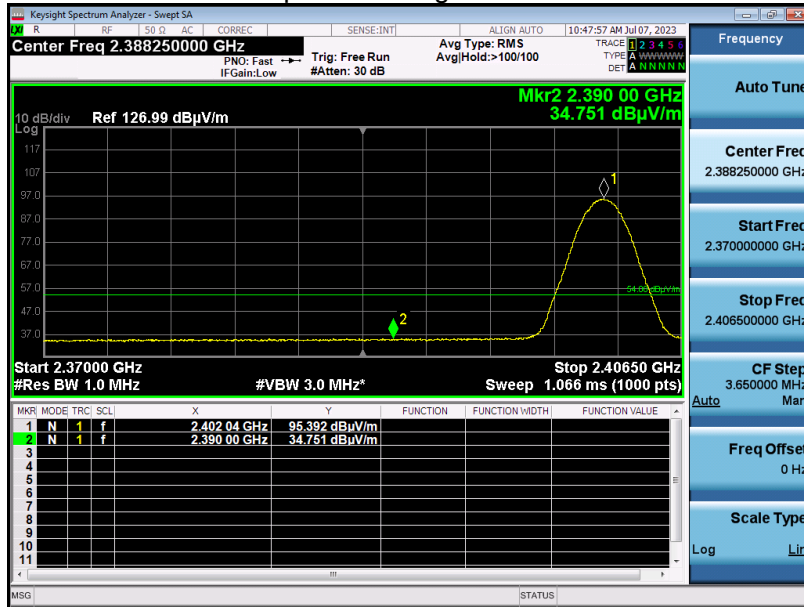
**Test result for band edge emission at restricted bands-2Mbps**

EUT	IP Phone	Model Name	X305
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	Mode 1	Antenna	Horizontal

**Test Graph for Peak Measurement**



**Test Graph for Average Measurement**

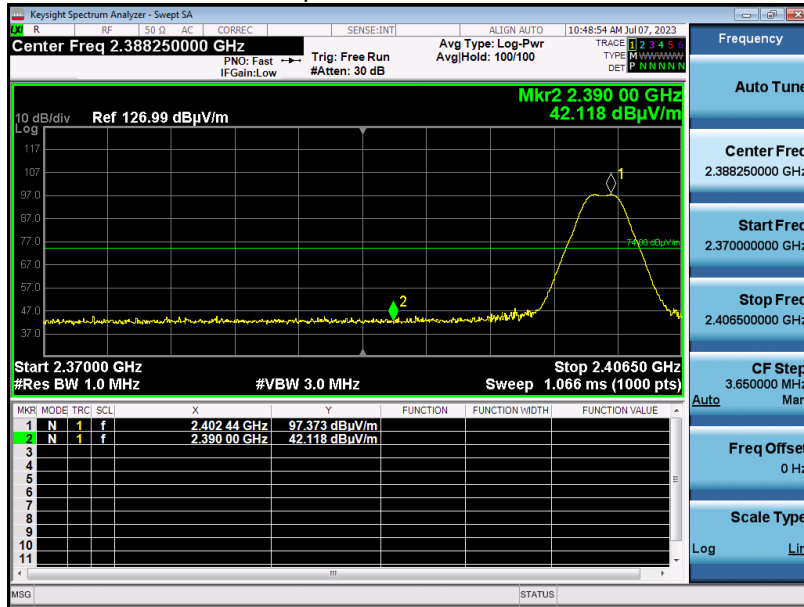


**RESULT: PASS**

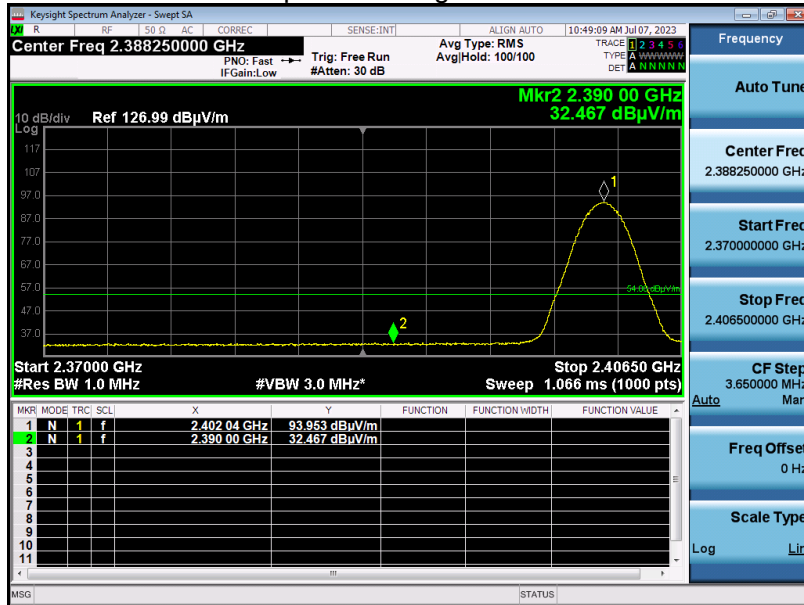
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

EUT	IP Phone	Model Name	X305
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	Mode 1	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



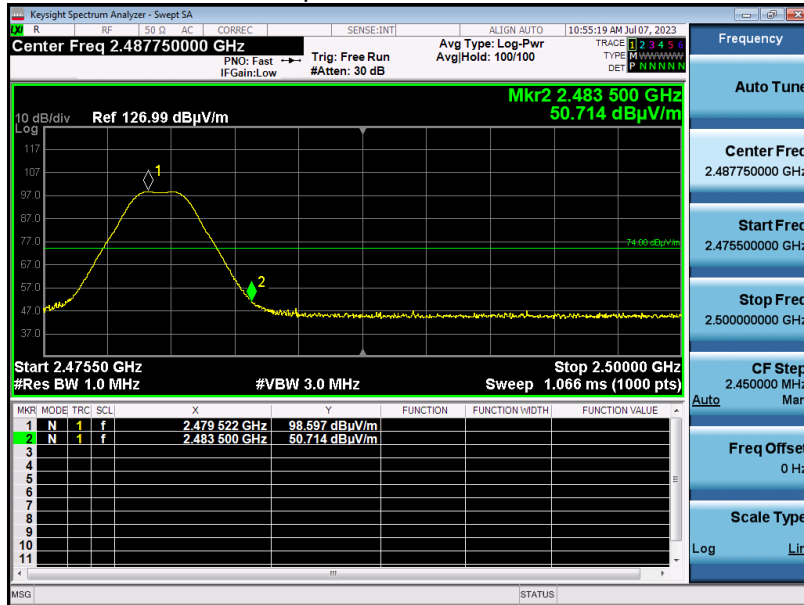
**RESULT: PASS**

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

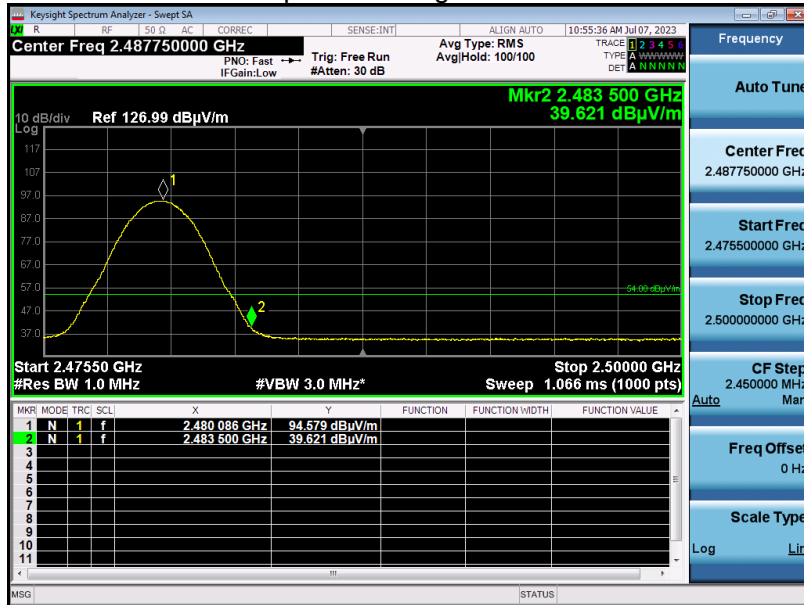
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Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd  
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

EUT	IP Phone	Model Name	X305
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	Mode 3	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



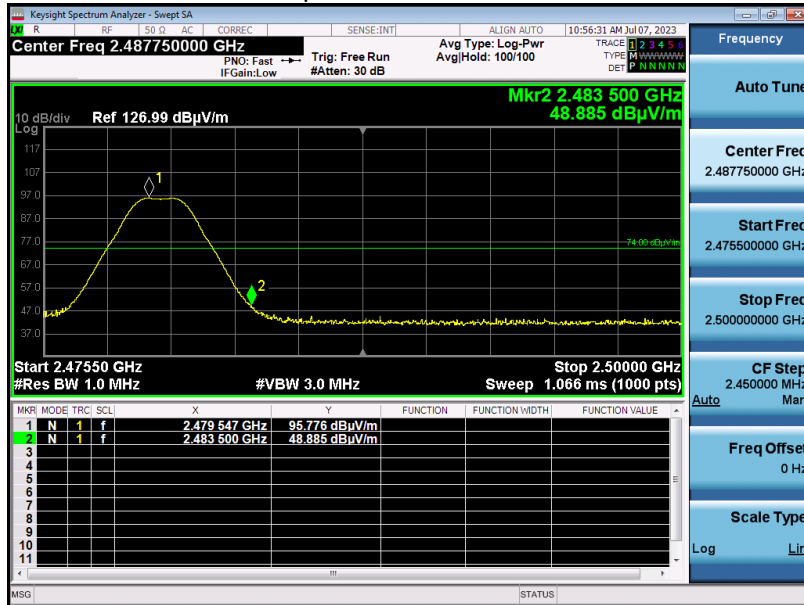
**RESULT: PASS**

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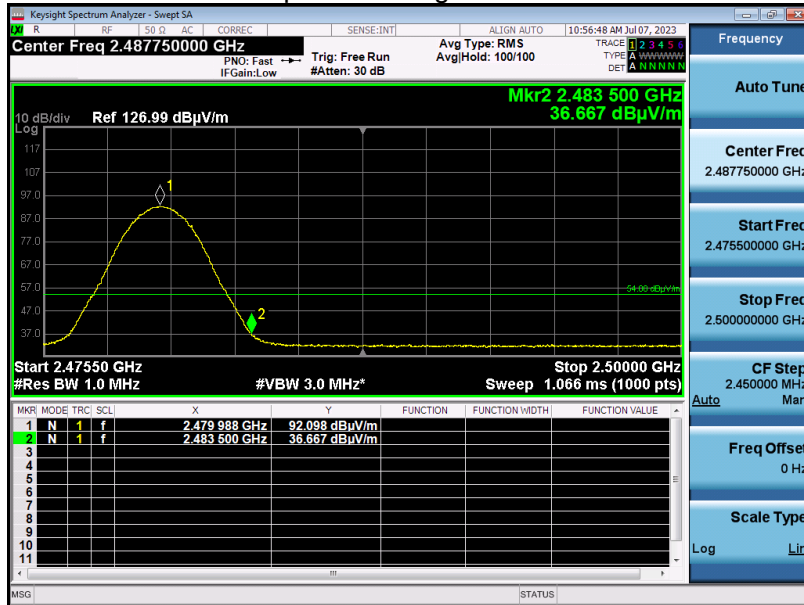
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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

EUT	IP Phone	Model Name	X305
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	Mode 3	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



**RESULT: PASS**

Note:

1. The factor had been edited in the "Input Correction" of the Spectrum Analyzer.
2. All voltages are tested. The test data of the worst case (DC 5V) was reported on the Summary Data page.

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## 12. LINE CONDUCTED EMISSION TEST

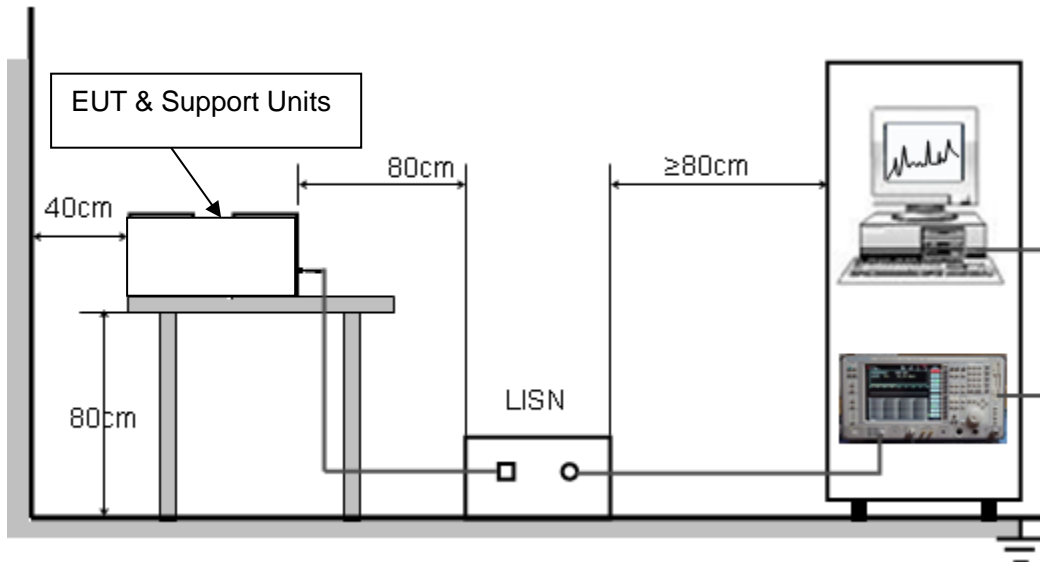
### 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.( dBuV)	Average( dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

### 12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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### 12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipment received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC 5V power from adapter or DC 48V power from PoE which received AC120V/60Hz power from a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

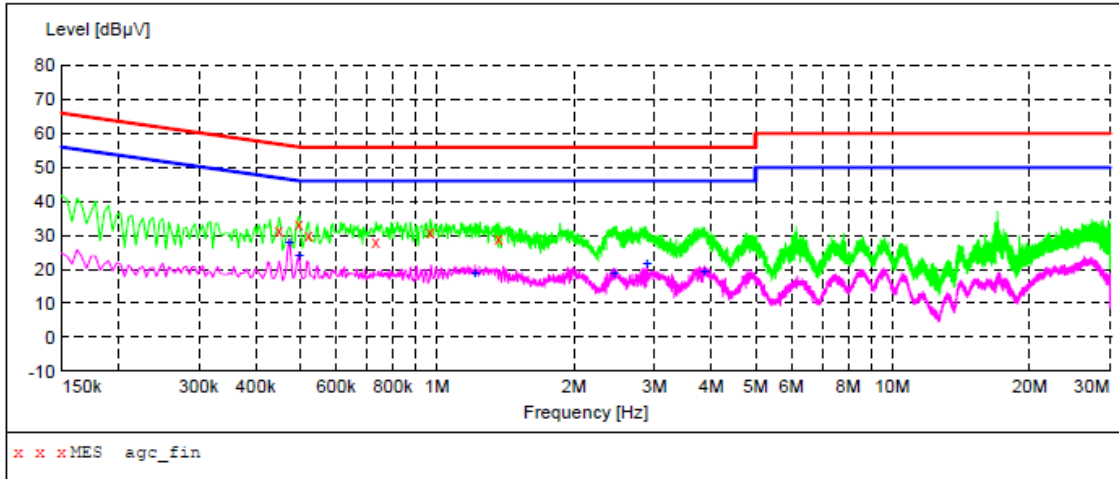
### 12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less – 2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case (Low channel) condition(s) was reported on the Summary Data page.

### 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

AC POWER LINE CONDUCTED EMISSION TEST 1Mbps

Test Mode      Mode 1 by DC 5V adapter      LISN line      Hot Side



**MEASUREMENT RESULT: "agc\_fin"**

2023/7/12 19:02

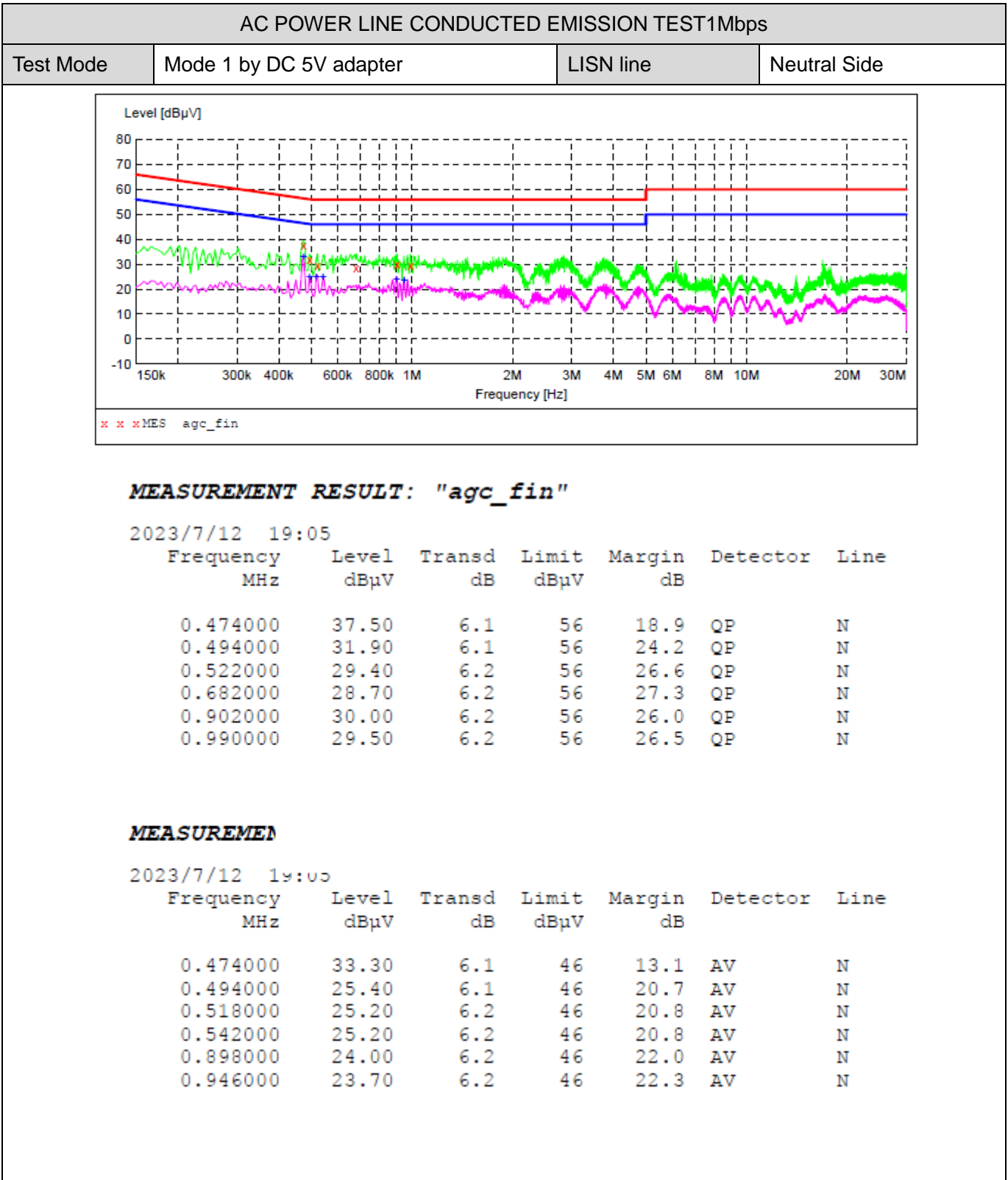
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.450000	31.40	6.1	57	25.5	QP	L1
0.498000	33.10	6.1	56	22.9	QP	L1
0.522000	30.00	6.2	56	26.0	QP	L1
0.734000	28.10	6.2	56	27.9	QP	L1
0.966000	30.90	6.2	56	25.1	QP	L1
1.366000	28.80	6.2	56	27.2	QP	L1

**MEASUREMENT RESULT: "agc\_fin2"**

2023/7/12 19:02

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.474000	28.00	6.1	46	18.4	AV	L1
0.498000	24.00	6.1	46	22.0	AV	L1
1.210000	19.10	6.2	46	26.9	AV	L1
2.446000	19.00	6.3	46	27.0	AV	L1
2.894000	21.70	6.3	46	24.3	AV	L1
3.866000	19.40	6.3	46	26.6	AV	L1

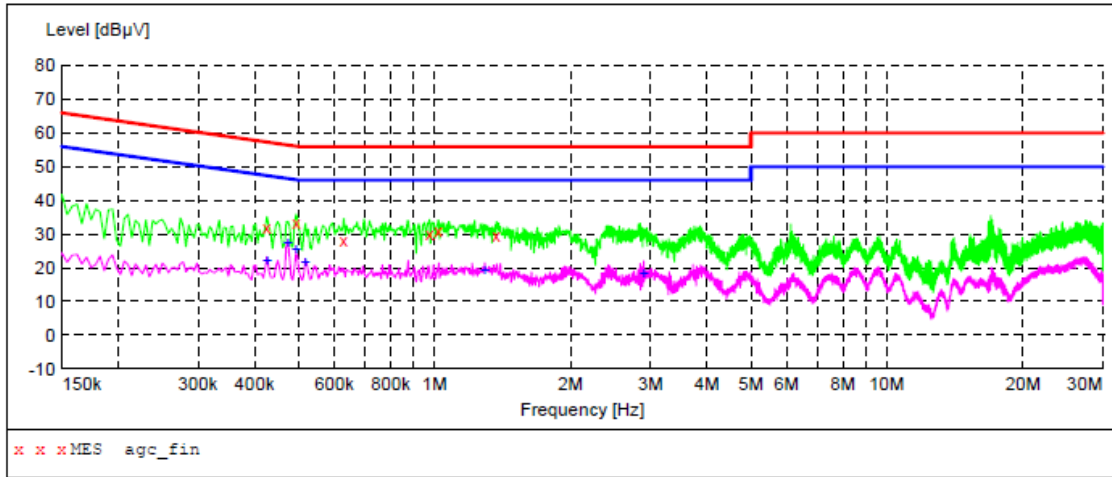
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.



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AC POWER LINE CONDUCTED EMISSION TEST 1Mbps

Test Mode	Mode 4 by DC 48V PoE	LISN line	Hot Side
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**MEASUREMENT RESULT: "agc\_fin"**

2023/7/12 19:11

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.426000	31.80	6.1	57	25.5	QP	L1
0.494000	33.20	6.1	56	22.9	QP	L1
0.630000	27.90	6.2	56	28.1	QP	L1
0.974000	30.20	6.2	56	25.8	QP	L1
1.018000	30.70	6.2	56	25.3	QP	L1
1.370000	29.50	6.2	56	26.5	QP	L1

**MEASUREMENT**

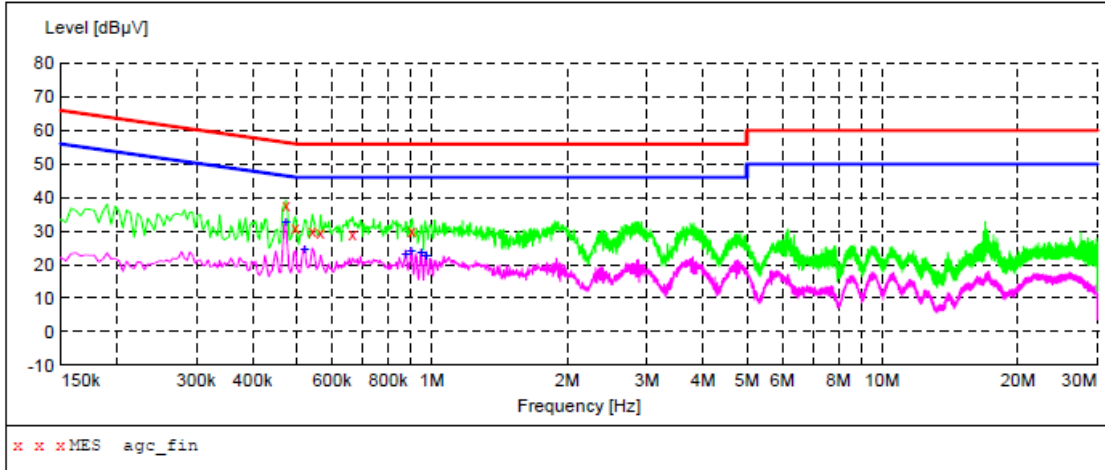
2023/7/12 19:11

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.426000	22.10	6.1	47	25.2	AV	L1
0.474000	27.80	6.1	46	18.6	AV	L1
0.494000	25.60	6.1	46	20.5	AV	L1
0.518000	21.60	6.2	46	24.4	AV	L1
1.290000	19.30	6.2	46	26.7	AV	L1
2.898000	18.40	6.3	46	27.6	AV	L1

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AC POWER LINE CONDUCTED EMISSION TEST 1Mbps

Test Mode	Mode 4 by DC 48V PoE	LISN line	Neutral Side
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**MEASUREMENT RESULT: "agc\_fin"**

2023/7/12 19:08

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.474000	37.50	6.1	56	18.9	QP	N
0.498000	30.80	6.1	56	25.2	QP	N
0.542000	30.10	6.2	56	25.9	QP	N
0.566000	29.40	6.2	56	26.6	QP	N
0.666000	29.10	6.2	56	26.9	QP	N
0.902000	30.10	6.2	56	25.9	QP	N

**MEASUREMENT RESULT: "agc\_fin2"**

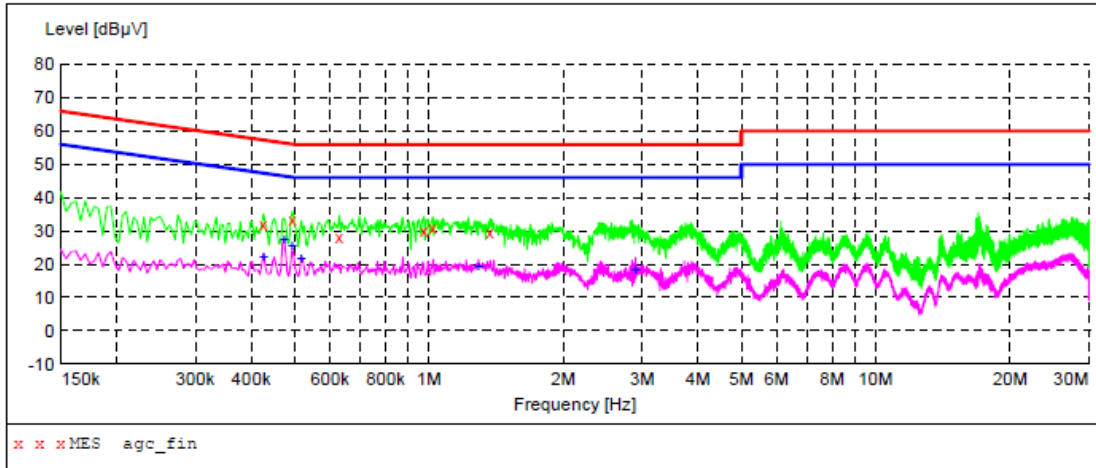
2023/7/12 19:08

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.474000	32.90	6.1	46	13.5	AV	N
0.522000	24.50	6.2	46	21.5	AV	N
0.874000	23.20	6.2	46	22.8	AV	N
0.898000	24.00	6.2	46	22.0	AV	N
0.946000	23.70	6.2	46	22.3	AV	N
0.970000	22.90	6.2	46	23.1	AV	N

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AC POWER LINE CONDUCTED EMISSION TEST 2Mbps

Test Mode      Mode 1 by DC 5V adapter      LISN line      Hot Side



**MEASUREMENT RESULT: "agc\_fin"**

2023/7/12 19:11

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.426000	31.80	6.1	57	25.5	QP	L1
0.494000	33.20	6.1	56	22.9	QP	L1
0.630000	27.90	6.2	56	28.1	QP	L1
0.974000	30.20	6.2	56	25.8	QP	L1
1.018000	30.70	6.2	56	25.3	QP	L1
1.370000	29.50	6.2	56	26.5	QP	L1

**MEASUREMENT RESULT: "agc\_fin2"**

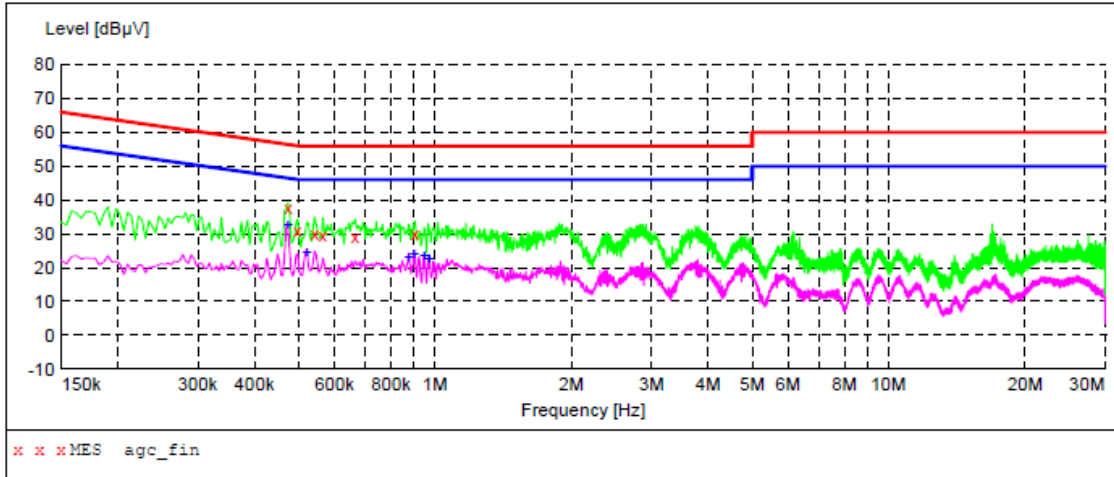
2023/7/12 19:11

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.426000	22.10	6.1	47	25.2	AV	L1
0.474000	27.80	6.1	46	18.6	AV	L1
0.494000	25.60	6.1	46	20.5	AV	L1
0.518000	21.60	6.2	46	24.4	AV	L1
1.290000	19.30	6.2	46	26.7	AV	L1
2.898000	18.40	6.3	46	27.6	AV	L1

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AC POWER LINE CONDUCTED EMISSION TEST 2Mbps

Test Mode	Mode 1 by DC 5V adapter	LISN line	Neutral Side
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**MEASUREMENT RESULT: "agc\_fin"**

2023/7/12 19:08

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.474000	37.50	6.1	56	18.9	QP	N
0.498000	30.80	6.1	56	25.2	QP	N
0.542000	30.10	6.2	56	25.9	QP	N
0.566000	29.40	6.2	56	26.6	QP	N
0.666000	29.10	6.2	56	26.9	QP	N
0.902000	30.10	6.2	56	25.9	QP	N

**MEASUREMENT RESULT: "agc\_fin2"**

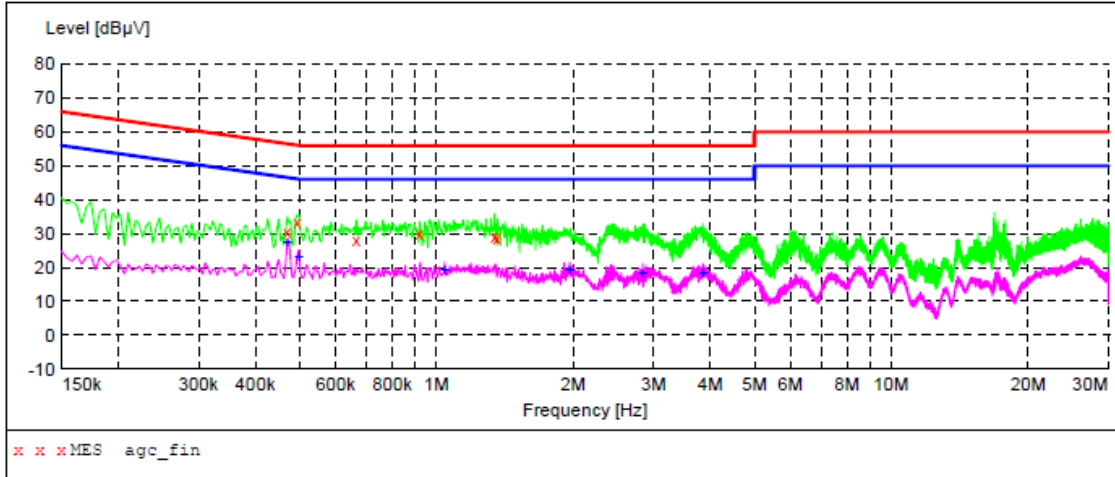
2023/7/12 19:08

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.474000	32.90	6.1	46	13.5	AV	N
0.522000	24.50	6.2	46	21.5	AV	N
0.874000	23.20	6.2	46	22.8	AV	N
0.898000	24.00	6.2	46	22.0	AV	N
0.946000	23.70	6.2	46	22.3	AV	N
0.970000	22.90	6.2	46	23.1	AV	N

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AC POWER LINE CONDUCTED EMISSION TEST 2Mbps

Test Mode	Mode 4 by DC 48V PoE	LISN line	Hot Side
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**MEASUREMENT RESULT: "agc\_fin"**

2023/7/12 20:02

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.470000	30.60	6.1	57	25.9	QP	L1
0.494000	33.50	6.1	56	22.6	QP	L1
0.666000	27.90	6.2	56	28.1	QP	L1
0.918000	30.10	6.2	56	25.9	QP	L1
1.342000	29.10	6.2	56	26.9	QP	L1
1.362000	28.30	6.2	56	27.7	QP	L1

**MEASUREMENT RESULT: "agc\_fin2"**

2023/7/12 20:02

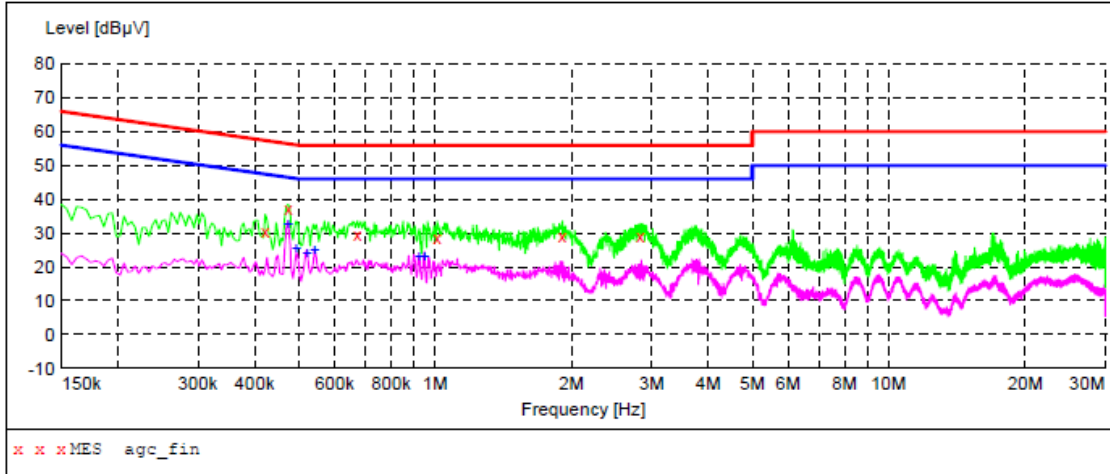
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.470000	27.70	6.1	47	18.8	AV	L1
0.498000	23.50	6.1	46	22.5	AV	L1
1.042000	19.50	6.2	46	26.5	AV	L1
1.962000	19.40	6.2	46	26.6	AV	L1
2.838000	18.40	6.3	46	27.6	AV	L1
3.850000	18.50	6.3	46	27.5	AV	L1

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AC POWER LINE CONDUCTED EMISSION TEST 2Mbps

Test Mode	Mode 4 by DC 48V PoE	LISN line	Neutral Side
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**MEASUREMENT RESULT: "agc\_fin"**

2023/7/12 19:57

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.422000	30.30	6.1	57	27.1	QP	N
0.474000	37.30	6.1	56	19.1	QP	N
0.674000	29.60	6.2	56	26.4	QP	N
1.010000	28.70	6.2	56	27.3	QP	N
1.906000	28.80	6.2	56	27.2	QP	N
2.834000	29.00	6.3	56	27.0	QP	N

**MEASUREMENT RESULT: "agc\_fin2"**

2023/7/12 19:57

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.474000	32.70	6.1	46	13.7	AV	N
0.494000	25.50	6.1	46	20.6	AV	N
0.522000	24.00	6.2	46	22.0	AV	N
0.542000	25.20	6.2	46	20.8	AV	N
0.922000	23.50	6.2	46	22.5	AV	N
0.946000	23.20	6.2	46	22.8	AV	N

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

## **APPENDIX I: PHOTOGRAPHS OF TEST SETUP**

Refer to the Report No.: AGC14499230608AP01

## **APPENDIX II: PHOTOGRAPHS OF EUT**

Refer to the Report No.: AGC14499230608AP02

**----END OF REPORT----**

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1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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