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# FCC Test Report

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Report No.: AGC01612211001FE02

**FCC ID** : WRACS-200

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION** : CS-200 Speakerphone

**BRAND NAME** : TAKSTAR

**MODEL NAME** : CS-200

**APPLICANT** : GUANGDONG TAKSTAR ELECTRONIC CO., LTD.

**DATE OF ISSUE** : Nov. 29, 2021

**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	/	Nov. 29, 2021	Valid	Initial Release

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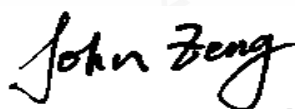
## 1. VERIFICATION OF COMPLIANCE

<b>Applicant</b>	GUANGDONG TAKSTAR ELECTRONIC CO., LTD.
<b>Address</b>	DINGGANG, NO.5 TEAM, XIALIAO VILLAGE, LONGXI TOWN, BOLUO COUNTY, HUIZHOU CITY, GUANGDONG PROVINCE, CHINA
<b>Manufacturer</b>	GUANGDONG TAKSTAR ELECTRONIC CO., LTD.
<b>Address</b>	DINGGANG, NO.5 TEAM, XIALIAO VILLAGE, LONGXI TOWN, BOLUO COUNTY, HUIZHOU CITY, GUANGDONG PROVINCE, CHINA
<b>Factory</b>	GUANGDONG TAKSTAR ELECTRONIC CO., LTD.
<b>Address</b>	DINGGANG, NO.5 TEAM, XIALIAO VILLAGE, LONGXI TOWN, BOLUO COUNTY, HUIZHOU CITY, GUANGDONG PROVINCE, CHINA
<b>Product Designation</b>	CS-200 Speakerphone
<b>Brand Name</b>	TAKSTAR
<b>Test Model</b>	CS-200
<b>Date of test</b>	Oct. 14, 2021 to Nov. 26, 2021
<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



John Zeng  
(Project Engineer)

Nov. 29, 2021

Reviewed By



Calvin Liu  
(Reviewer)

Nov. 29, 2021

Approved By



Max Zhang  
(Authorized Officer)

Nov. 29, 2021

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## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

The EUT is designed as a “CS-200 Speakerphone”. 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>	2.402GHz to 2.480GHz
<b>RF Output Power</b>	GFSK 1Mbps: 0.268dBm (Max) GFSK 2Mbps: 0.157dBm (Max)
<b>Bluetooth Version</b>	V5.0
<b>Modulation</b>	BR <input type="checkbox"/> GFSK, EDR <input type="checkbox"/> $\pi$ /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 Channels
<b>Antenna Designation</b>	PCB Antenna (Comply with requirements of the FCC part 15.203)
<b>Antenna Gain</b>	0.4dBi
<b>Hardware Version</b>	V0.3
<b>Software Version</b>	V0.6
<b>Power Supply</b>	DC 3.7V by battery or DC 5V by adapter

### 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: WRACS-200** 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	$U_c = \pm 3.1 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 4.0 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.8 \text{ dB}$
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of spurious emissions, conducted	$U_c = \pm 2 \%$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$

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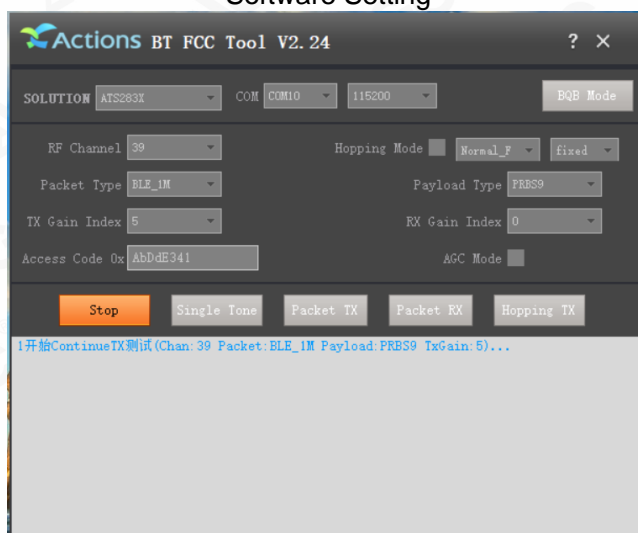


#### 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX(1M)
2	Middle channel TX(1M)
3	High channel TX(1M)
4	Low channel TX(2M)
5	Middle channel TX(2M)
6	High channel TX(2M)

- 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



Actions BT FCC Tool V2.24

SOLUTION: ATS283X COM: COM10 BQB Mode

RF Channel: 39 Hopping Mode: Normal\_F fixed

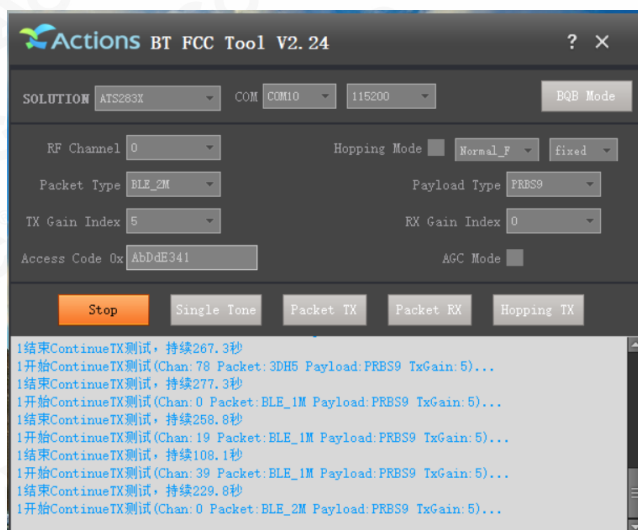
Packet Type: BLE\_1M Payload Type: PRBS9

TX Gain Index: 5 RX Gain Index: 0

Access Code 0x: AbDdE341 AGC Mode

Buttons: Stop, Single Tone, Packet TX, Packet RX, Hopping TX

Log: 1开始ContinuousTX测试(Chan: 39 Packet: BLE\_1M Payload: PRBS9 TxGain: 5)...



Actions BT FCC Tool V2.24

SOLUTION: ATS283X COM: COM10 BQB Mode

RF Channel: 0 Hopping Mode: Normal\_F fixed

Packet Type: BLE\_2M Payload Type: PRBS9

TX Gain Index: 5 RX Gain Index: 0

Access Code 0x: AbDdE341 AGC Mode

Buttons: Stop, Single Tone, Packet TX, Packet RX, Hopping TX

Log: 1结束ContinuousTX测试, 持续267.3秒  
1开始ContinuousTX测试(Chan: 78 Packet: 3DH5 Payload: PRBS9 TxGain: 5)..  
1结束ContinuousTX测试, 持续277.3秒  
1开始ContinuousTX测试(Chan: 0 Packet: BLE\_1M Payload: PRBS9 TxGain: 5)..  
1结束ContinuousTX测试, 持续256.8秒  
1开始ContinuousTX测试(Chan: 19 Packet: BLE\_1M Payload: PRBS9 TxGain: 5)..  
1结束ContinuousTX测试, 持续108.1秒  
1开始ContinuousTX测试(Chan: 39 Packet: BLE\_1M Payload: PRBS9 TxGain: 5)..  
1结束ContinuousTX测试, 持续229.8秒  
1开始ContinuousTX测试(Chan: 0 Packet: BLE\_2M Payload: PRBS9 TxGain: 5)...

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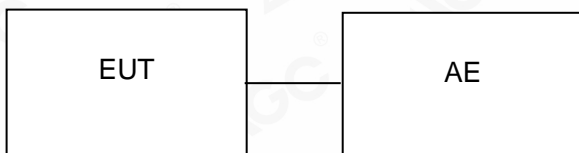
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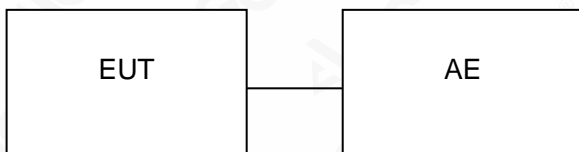
## 5. SYSTEM TEST CONFIGURATION

### 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	CS-200 Speakerphone	CS-200	WRACS-200	EUT
2	Control Box	USB-TTL	N/A	AE
3	Charger line	N/A	1.3m unshielded	Accessory
4	Adapter	XCMS03-0510	DC 5V	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	May 11, 2021	May 10, 2022
AMN	R&S	ESH2-Z5	100086	Jun. 09, 2021	Jun. 08, 2022
Test Software	FARA	EZ-EMC(Ver. AGC-CON03A1)	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	Apr. 14, 2021	Apr. 13, 2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 07, 2020	Dec. 06, 2021
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 03, 2020	Sep. 02, 2022
Horn Antenna	SCHWARZBECK	BBHA9170	768	Oct. 07, 2021	Oct. 08, 2023
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
Preamplifier Assembly	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
Wideband Requency Antenna	SCHWARZBECK	VULB9168	VULB9168-494	Jan. 08, 2021	Jan. 07, 2023
Test Software	FARA	EZ-EMC(Ver.RA-03A)	N/A	N/A	N/A

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## 7. PEAK OUTPUT POWER

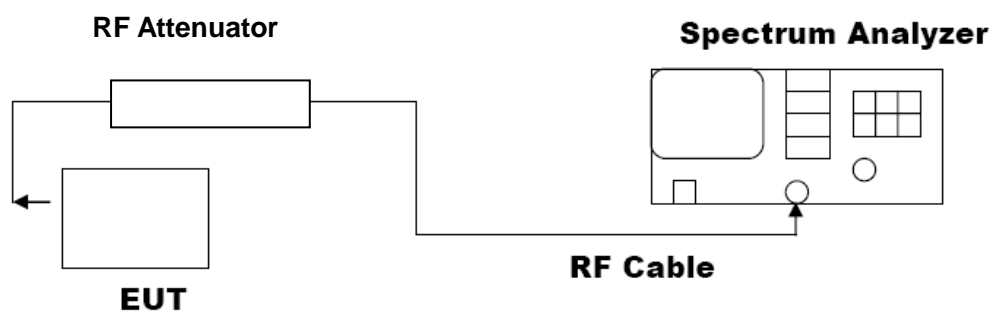
### 7.1. MEASUREMENT PROCEDURE

For peak power test:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2.  $RBW \geq DTS$  bandwidth.
3.  $VBW \geq 3 \times RBW$ .
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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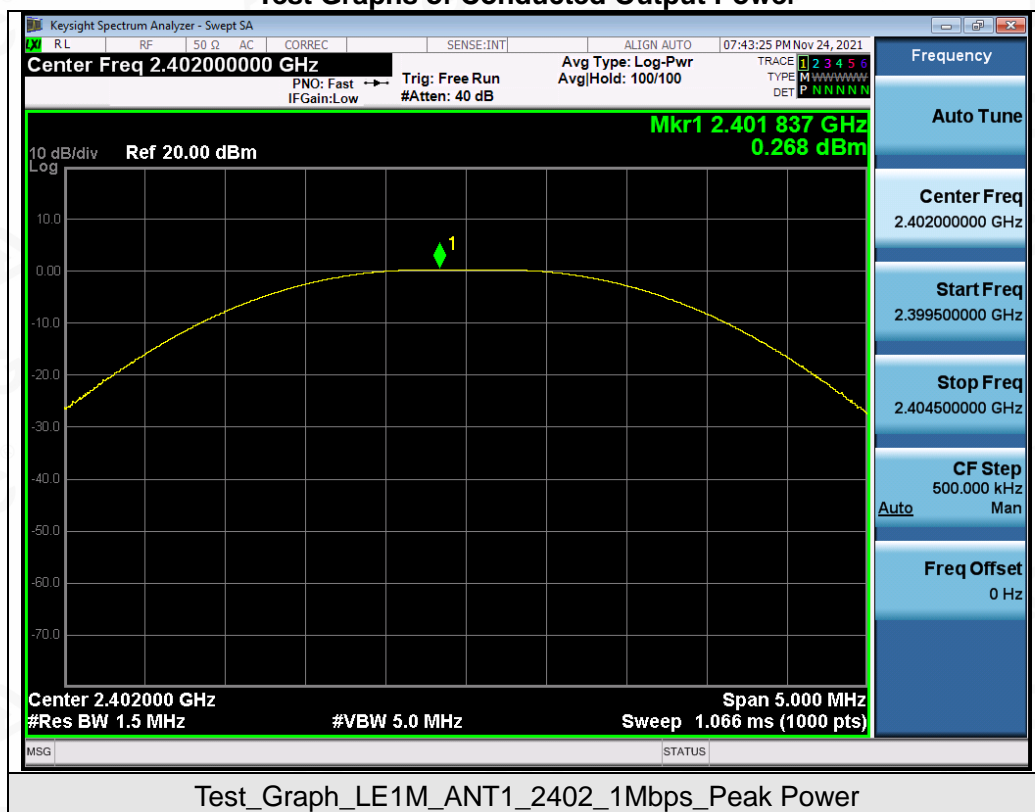




### 7.3. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power				
Test Mode	Test Channel (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
GFSK 1M	2402	0.268	$\leq 30$	Pass
	2440	-0.297	$\leq 30$	Pass
	2480	-1.021	$\leq 30$	Pass
GFSK 2M	2402	0.157	$\leq 30$	Pass
	2440	-0.427	$\leq 30$	Pass
	2480	-1.156	$\leq 30$	Pass

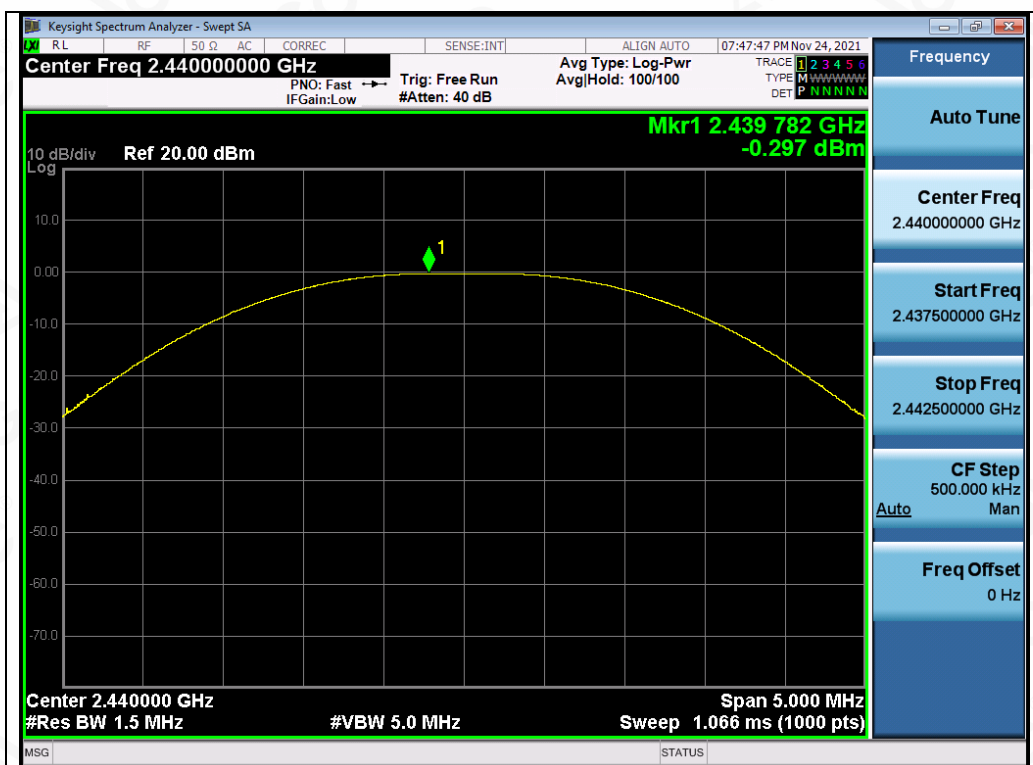
### Test Graphs of Conducted Output Power



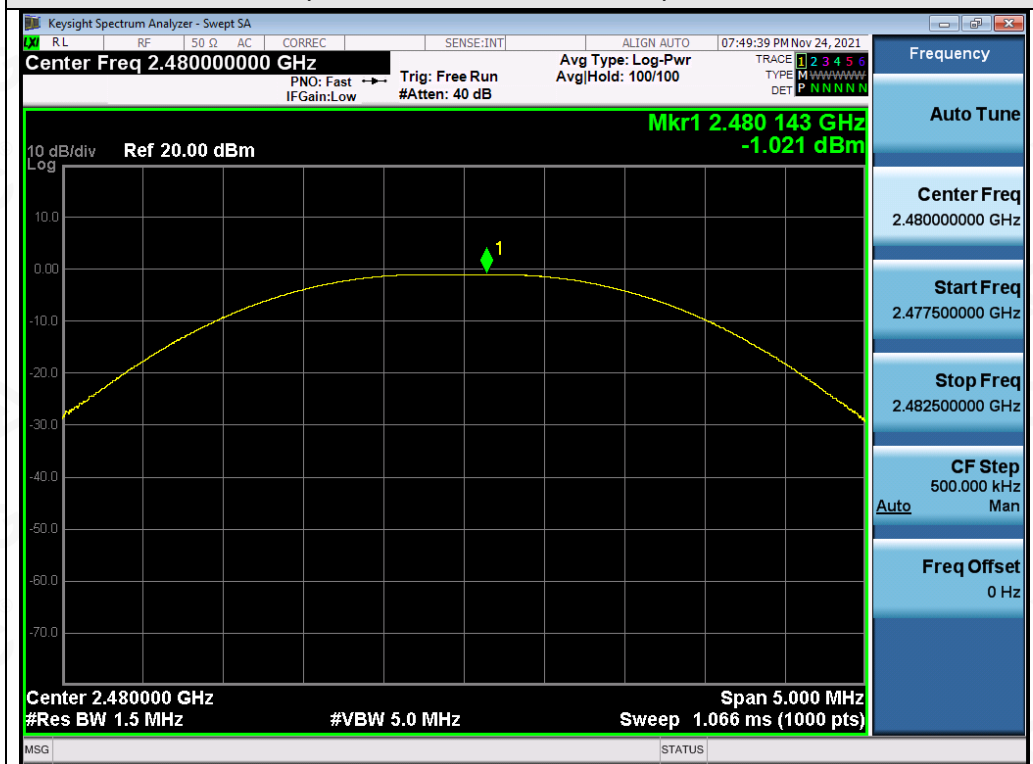
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Test\_Graph\_LE1M\_ANT1\_2440\_1Mbps\_Peak Power

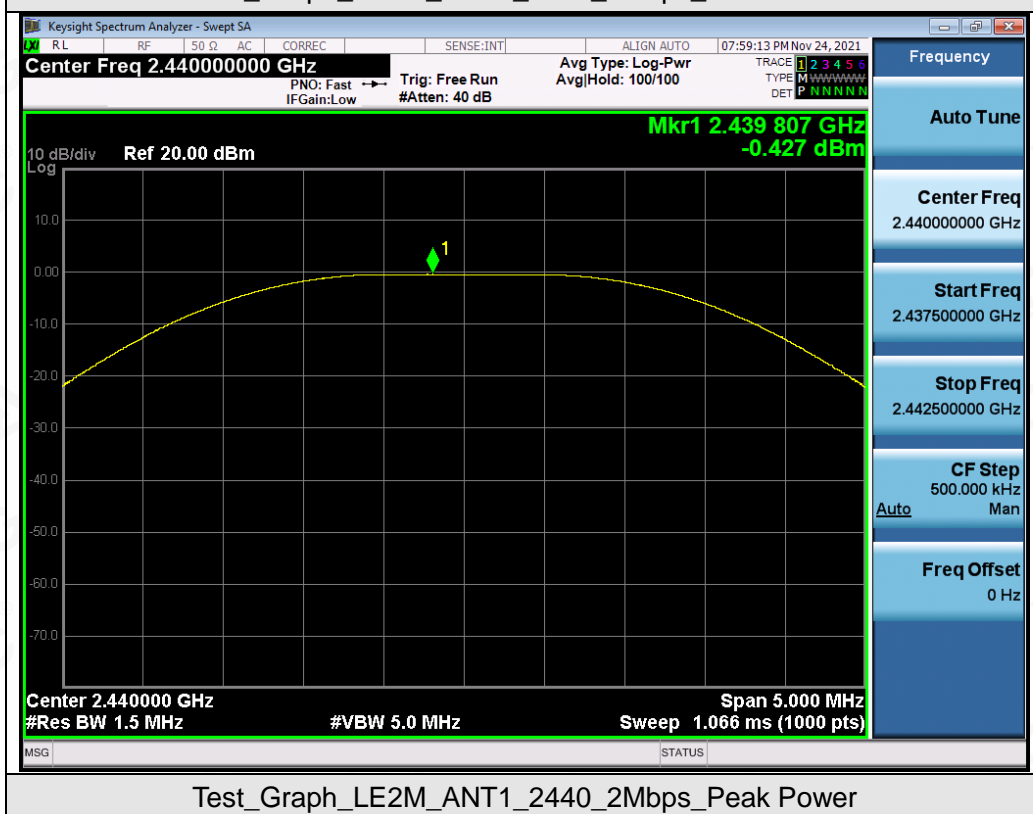
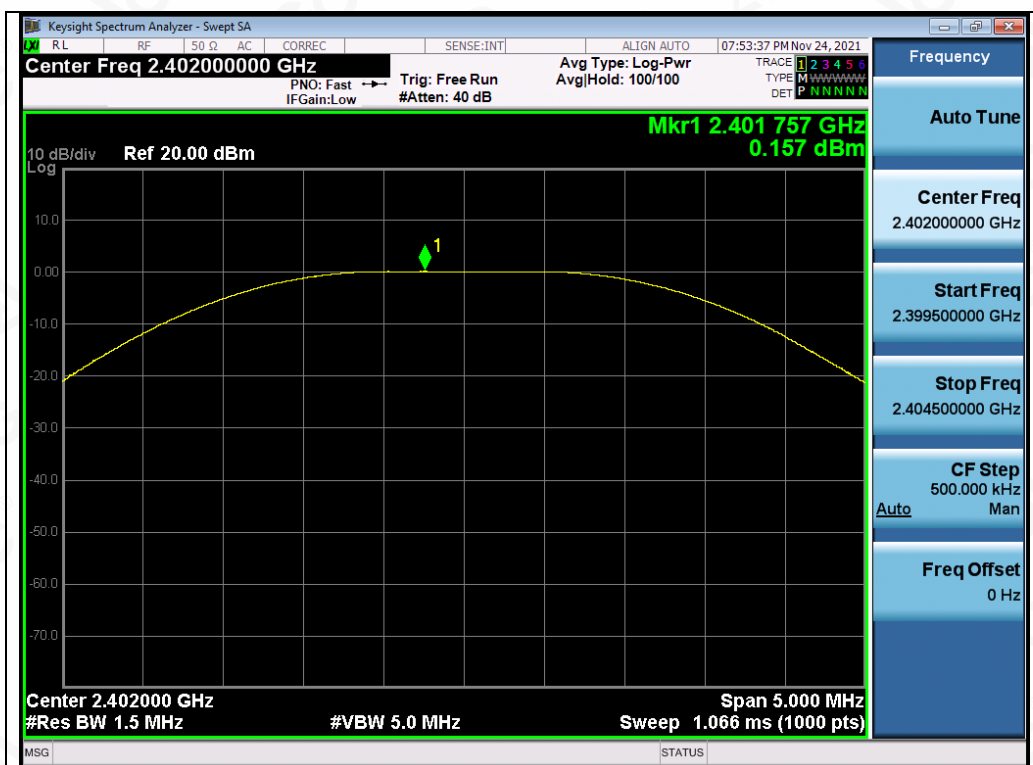


Test\_Graph\_LE1M\_ANT1\_2480\_1Mbps\_Peak Power

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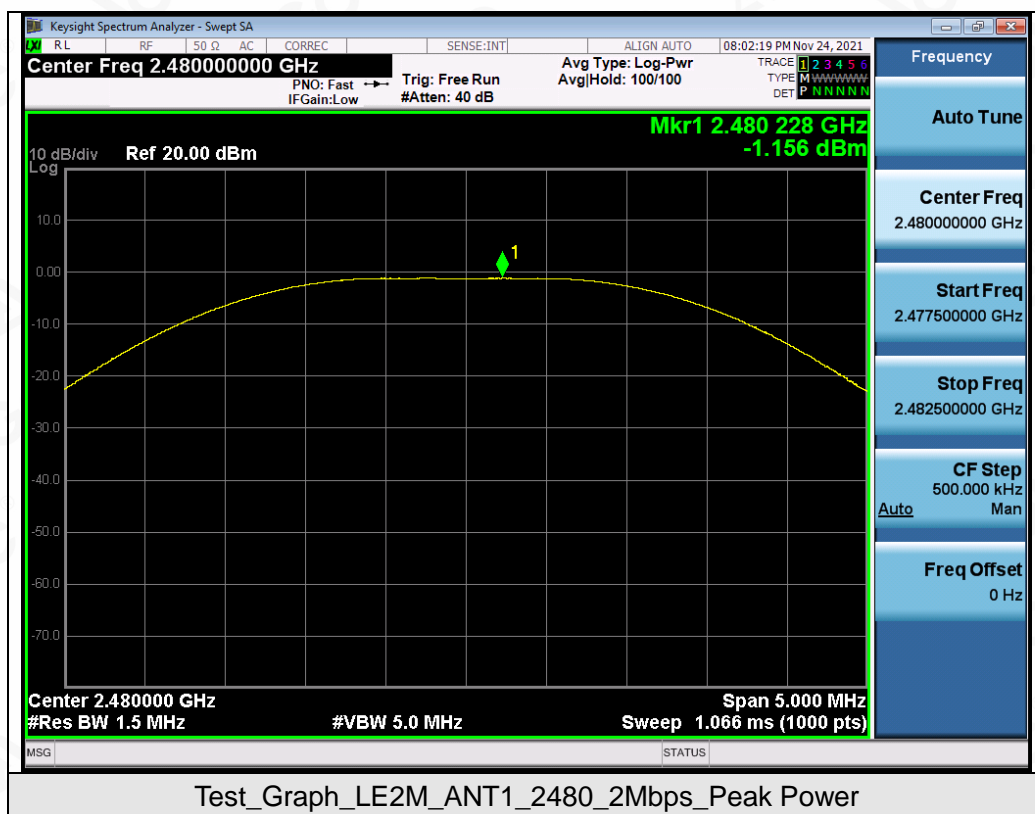




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## 8. BANDWIDTH

### 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

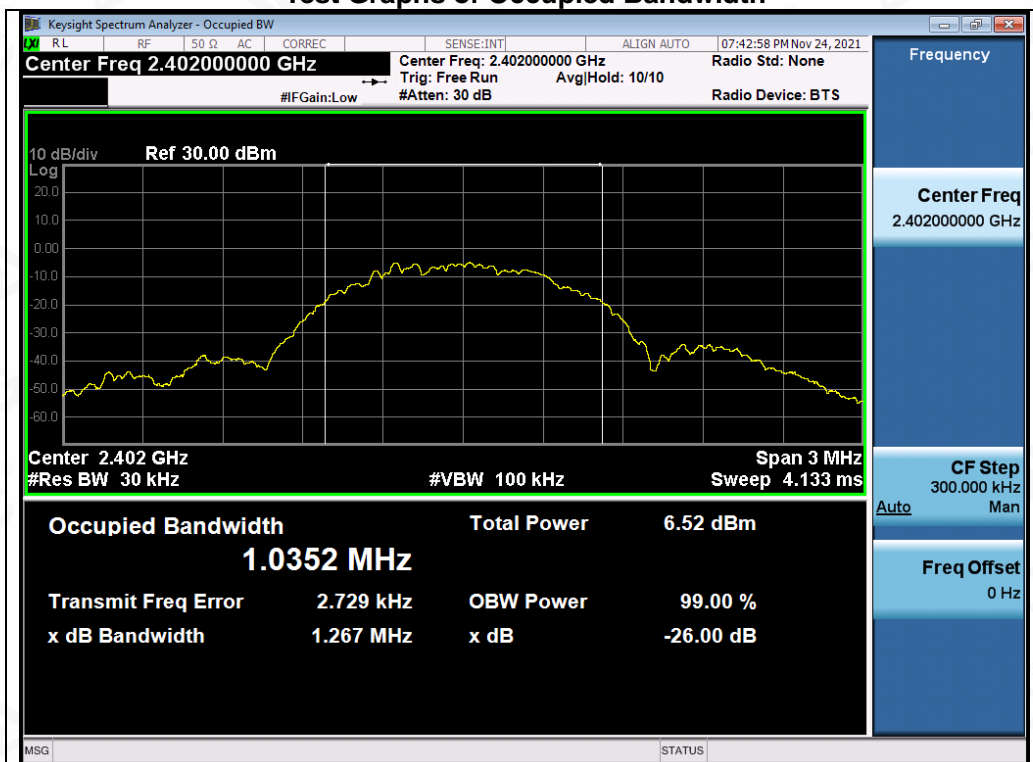
Test Data of Occupied Bandwidth and DTS Bandwidth					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-6dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
GFSK 1M	2402	1.035	0.715	$\geq 0.5$	Pass
	2440	1.031	0.716	$\geq 0.5$	Pass
	2480	1.030	0.713	$\geq 0.5$	Pass
GFSK 2M	2402	2.026	1.239	$\geq 0.5$	Pass
	2440	2.025	1.184	$\geq 0.5$	Pass
	2480	2.026	1.189	$\geq 0.5$	Pass

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### Test Graphs of Occupied Bandwidth



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

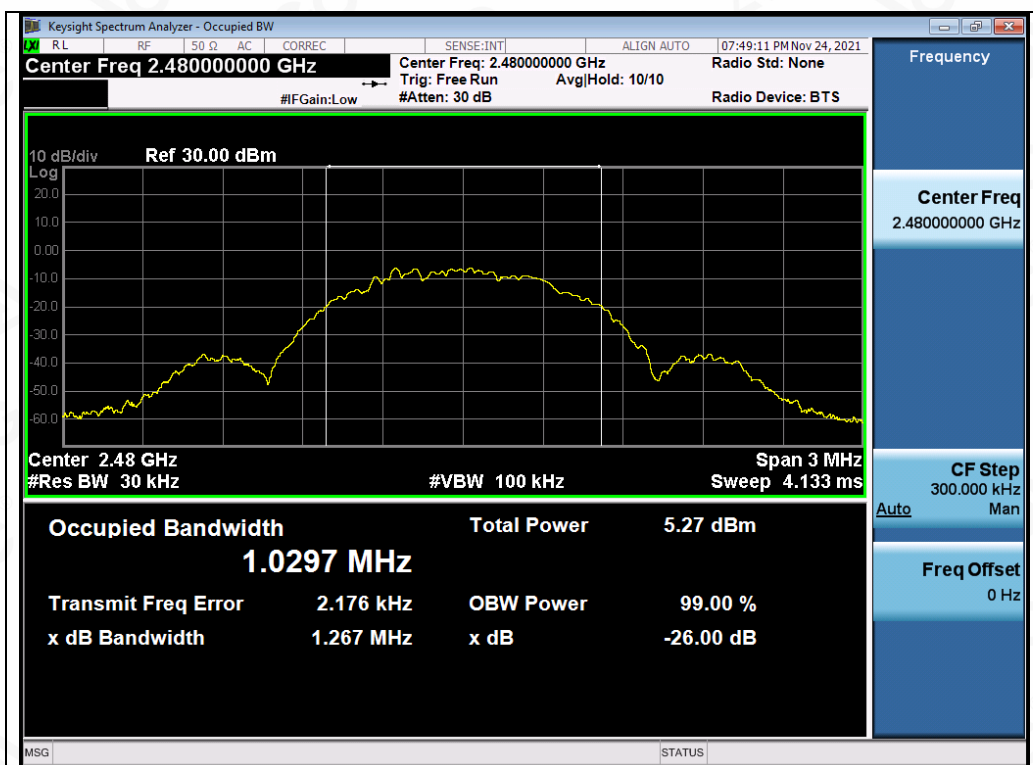


### Test\_Graph\_LE1M\_ANT1\_2440\_1Mbps\_OBW

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



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

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



Test\_Graph\_LE2M\_ANT1\_2480\_2Mbps\_OBW

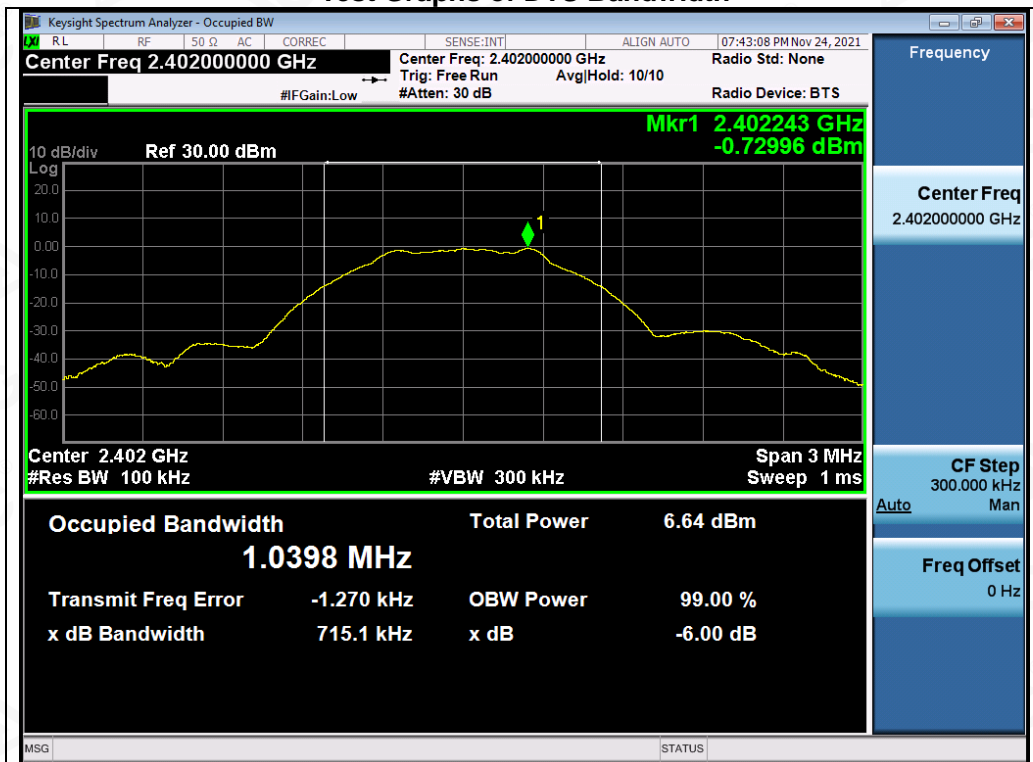
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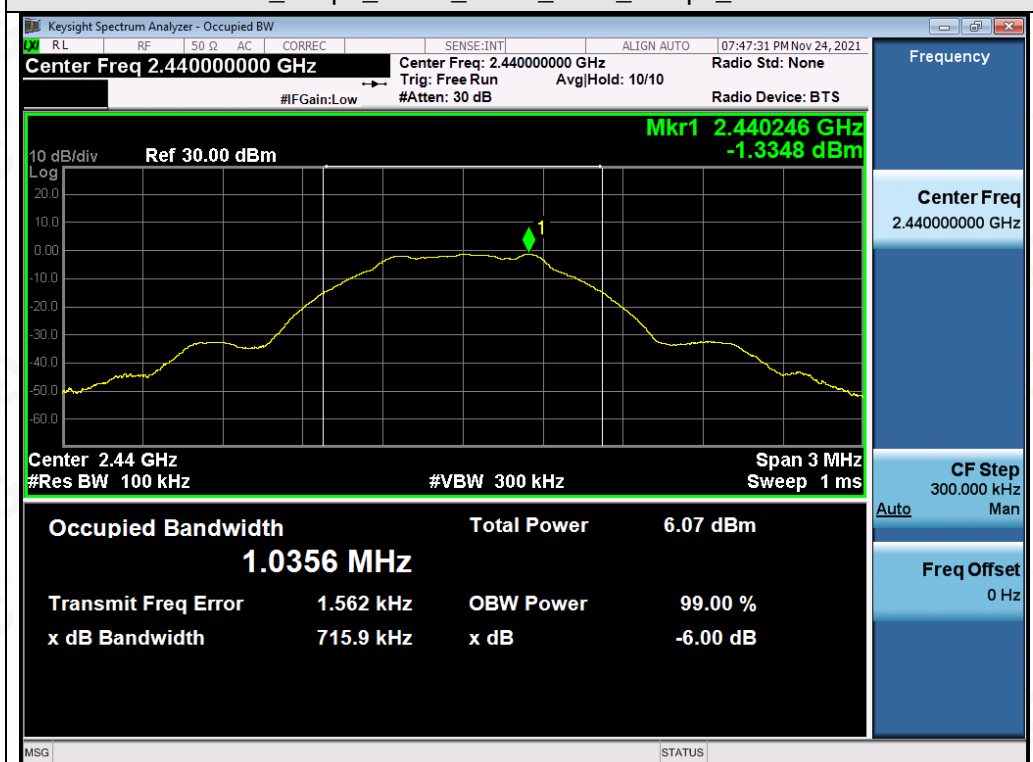




### Test Graphs of DTS Bandwidth



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

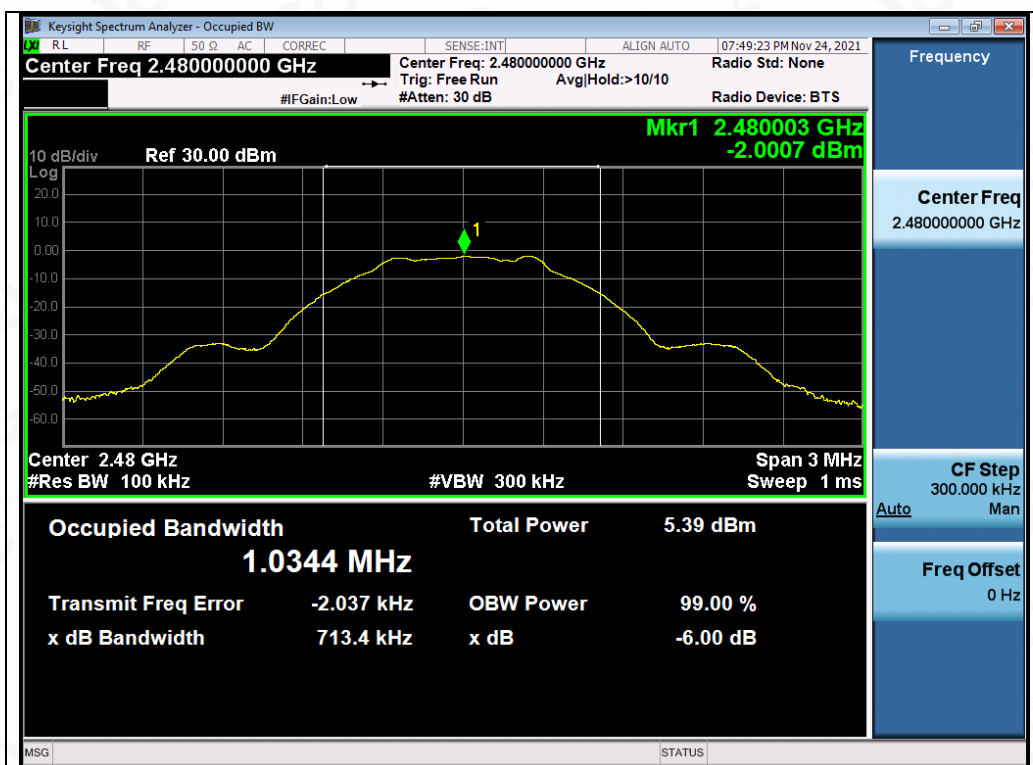


### Test\_Graph\_LE1M\_ANT1\_2440\_1Mbps\_DTSBW

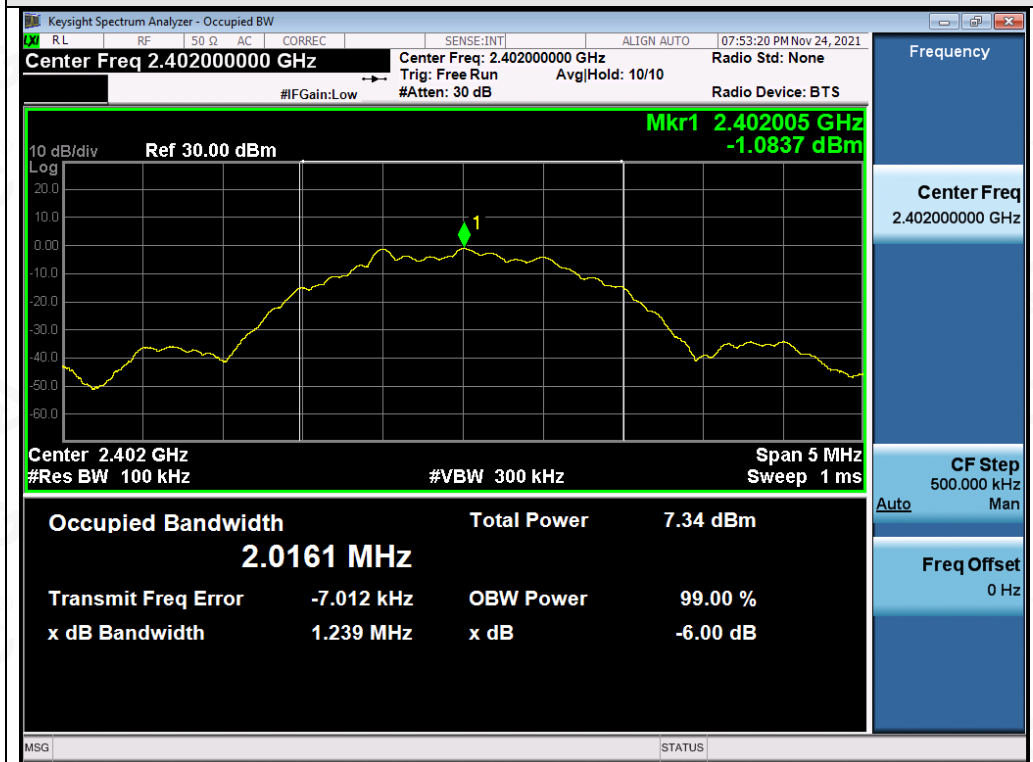
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Test\_Graph\_LE1M\_ANT1\_2480\_1Mbps\_DTSBW

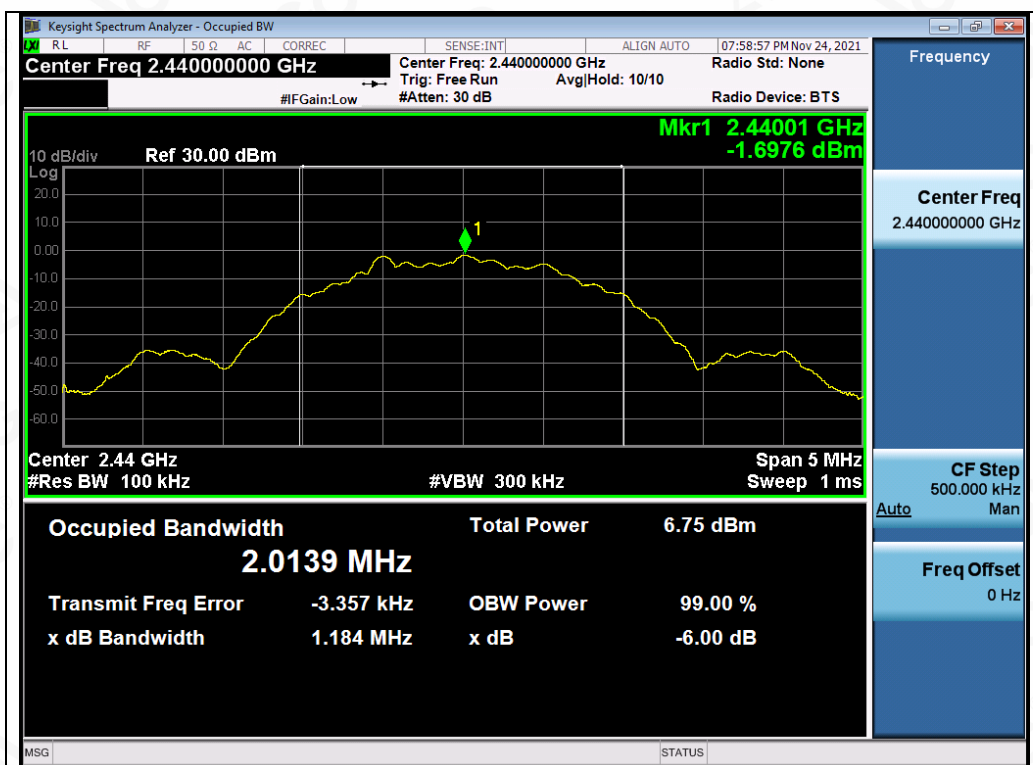


Test\_Graph\_LE2M\_ANT1\_2402\_2Mbps\_DTSBW

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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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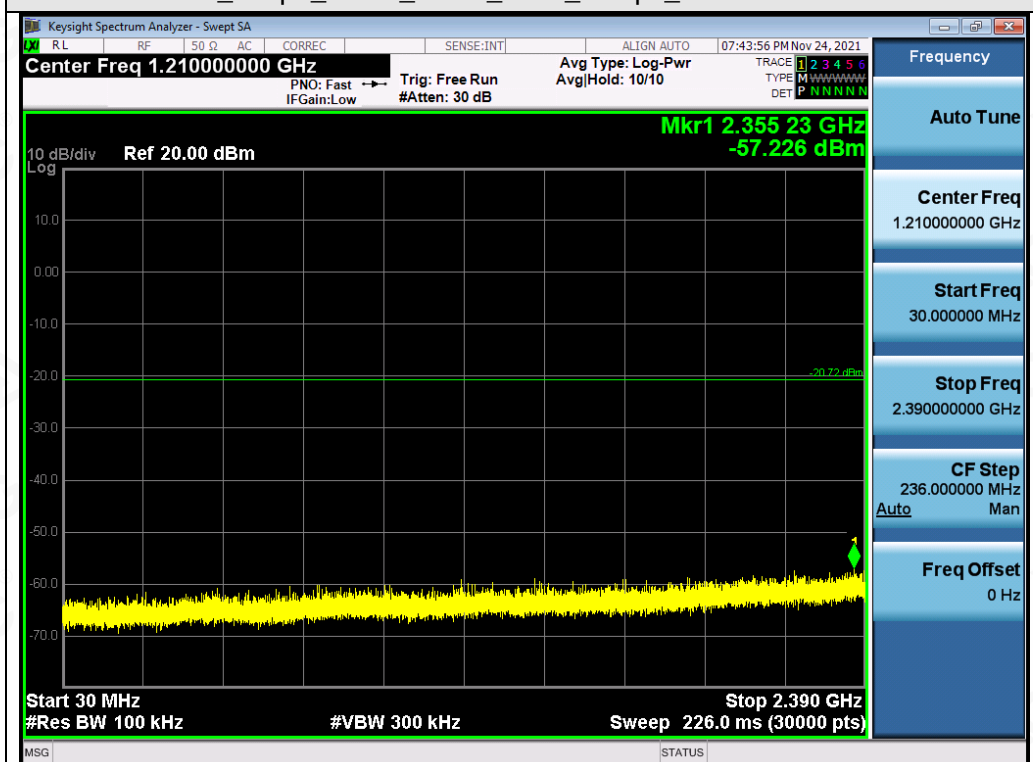




### Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands



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\_2402\_1Mbps\_Higher Band Emissions

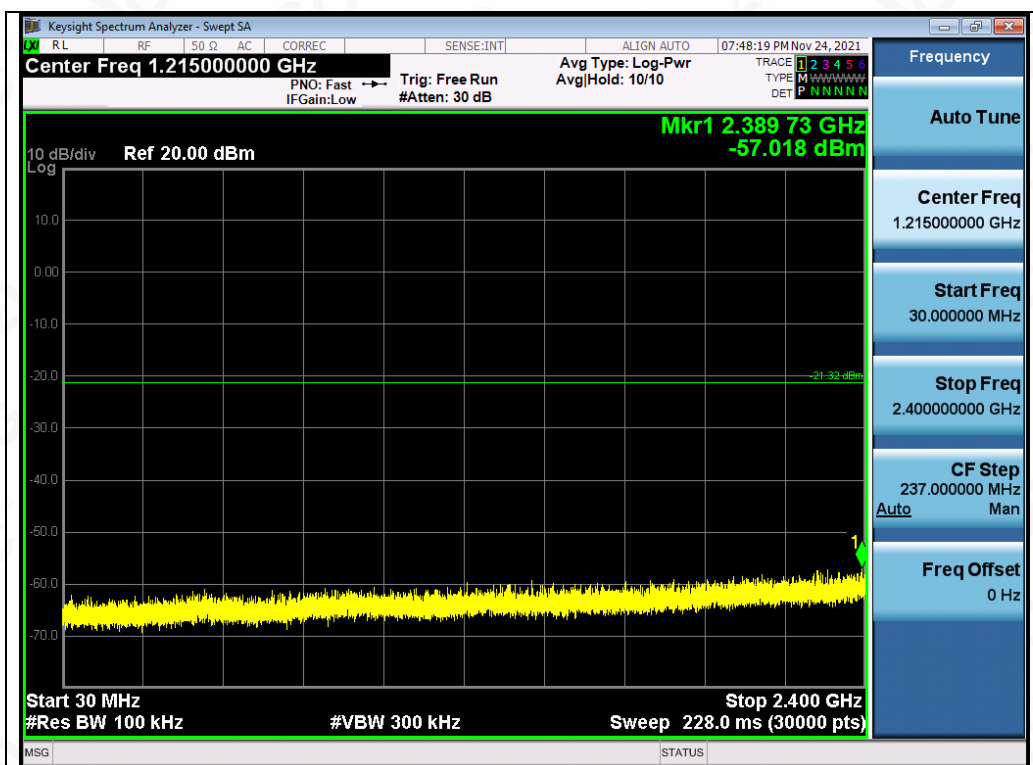


Test\_Graph\_LE1M\_ANT1\_2440\_1Mbps\_Reference Level

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

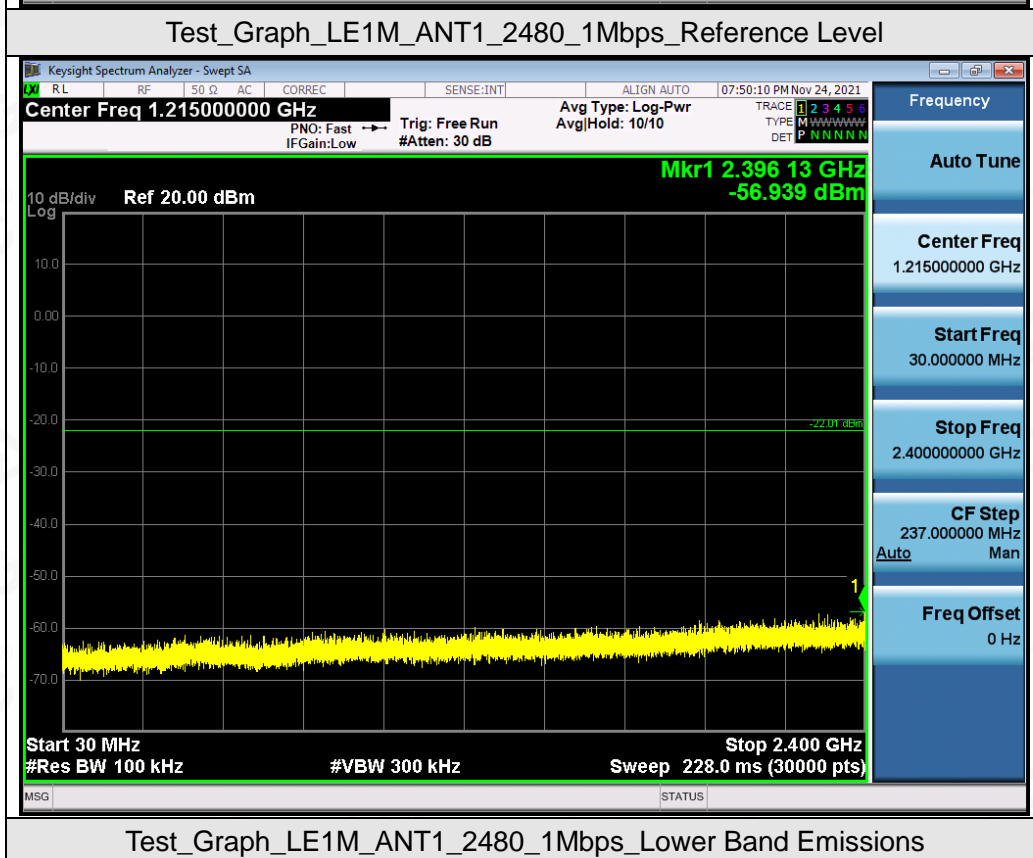
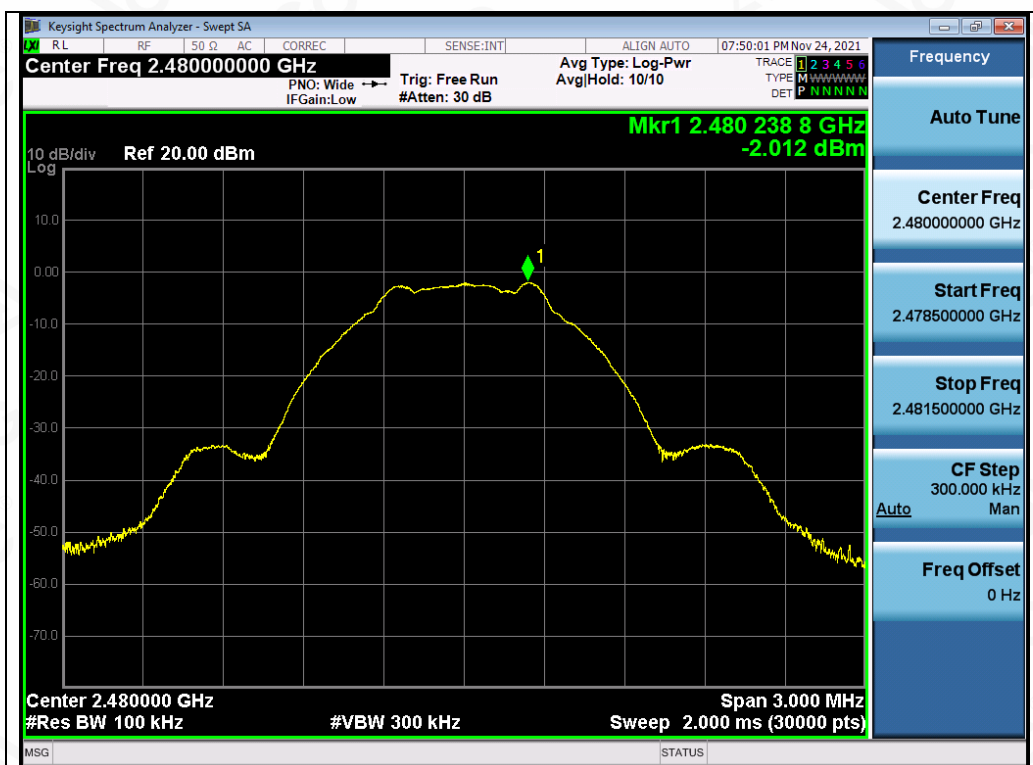


Test\_Graph\_LE1M\_ANT1\_2440\_1Mbps\_Higher Band Emissions

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

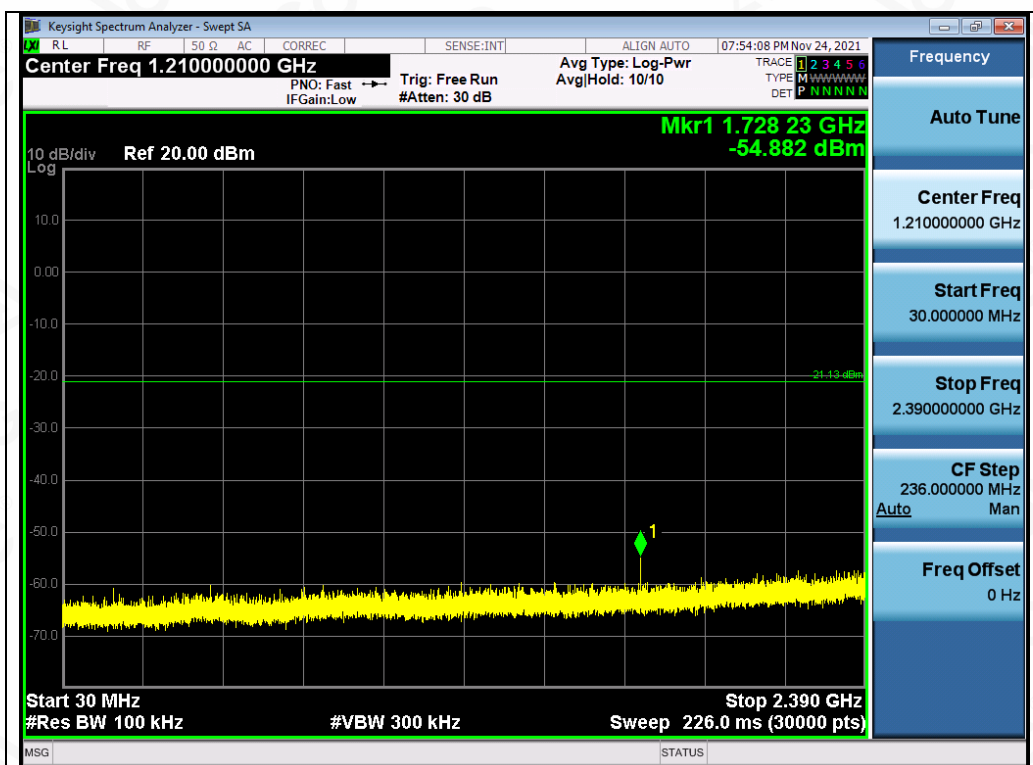


Test\_Graph\_LE2M\_ANT1\_2402\_2Mbps\_Reference Level

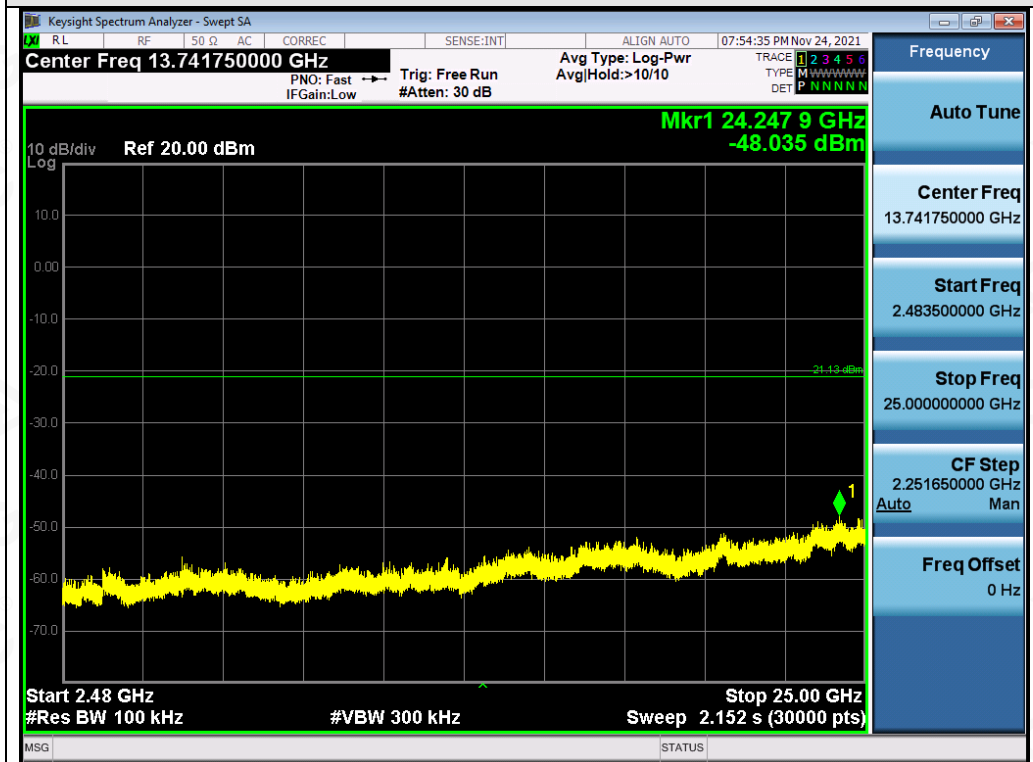
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Test\_Graph\_LE2M\_ANT1\_2402\_2Mbps\_Lower Band Emissions



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

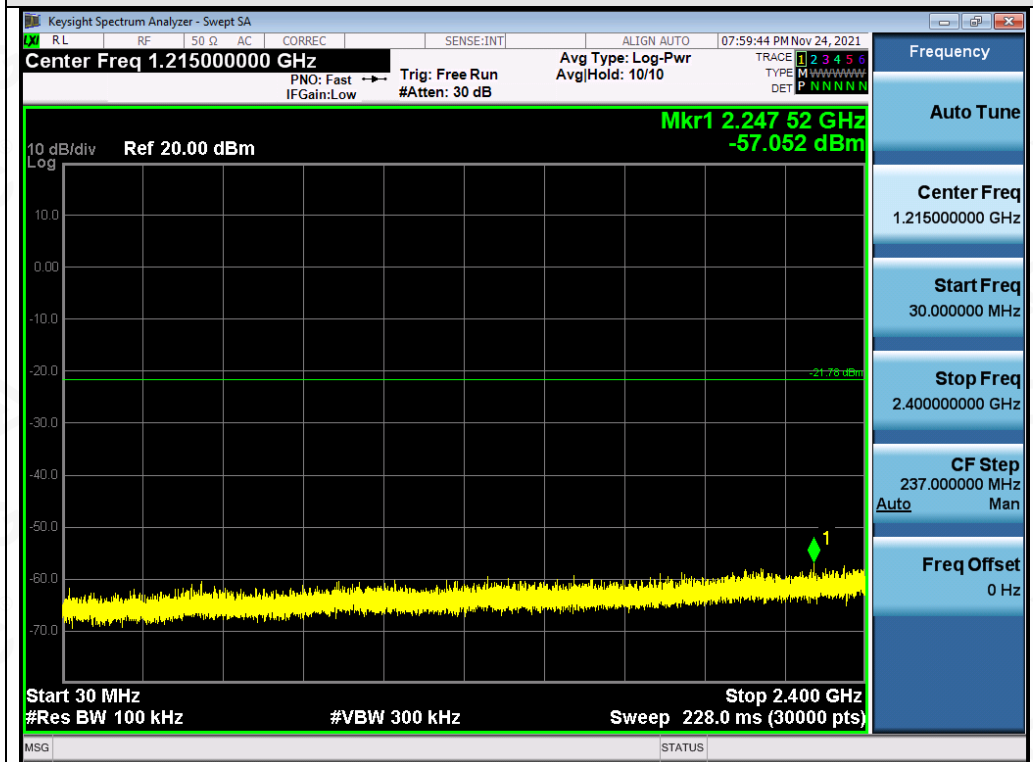
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Test\_Graph\_LE2M\_ANT1\_2440\_2Mbps\_Reference Level



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

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



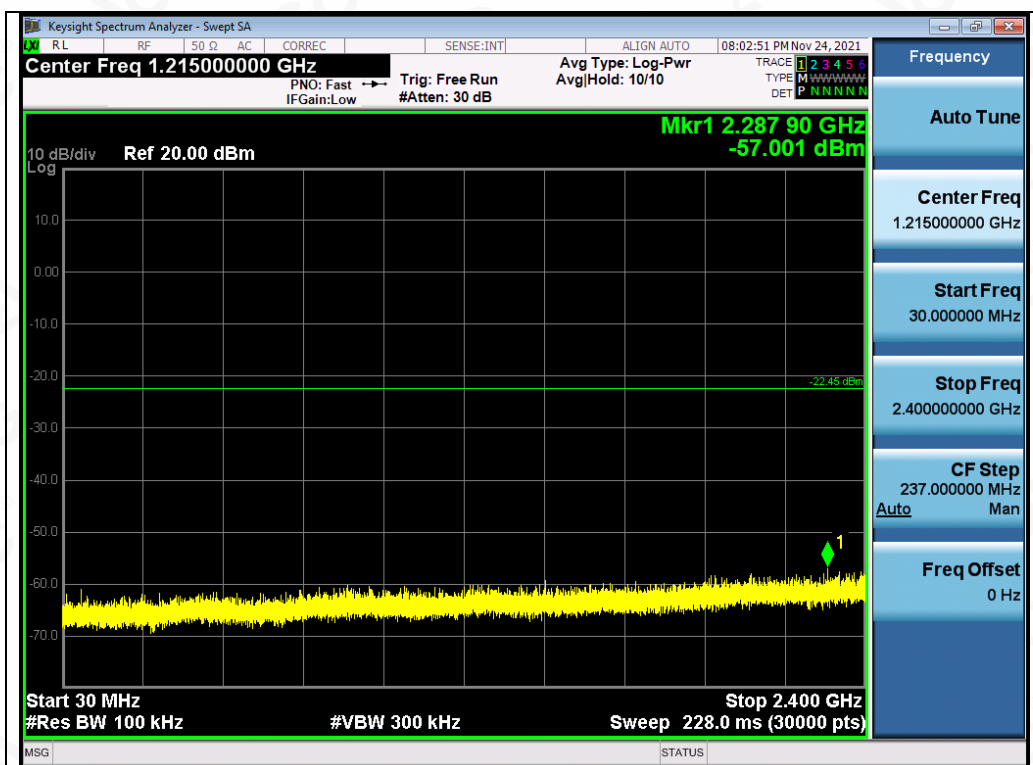
Test\_Graph\_LE2M\_ANT1\_2480\_2Mbps\_Reference Level

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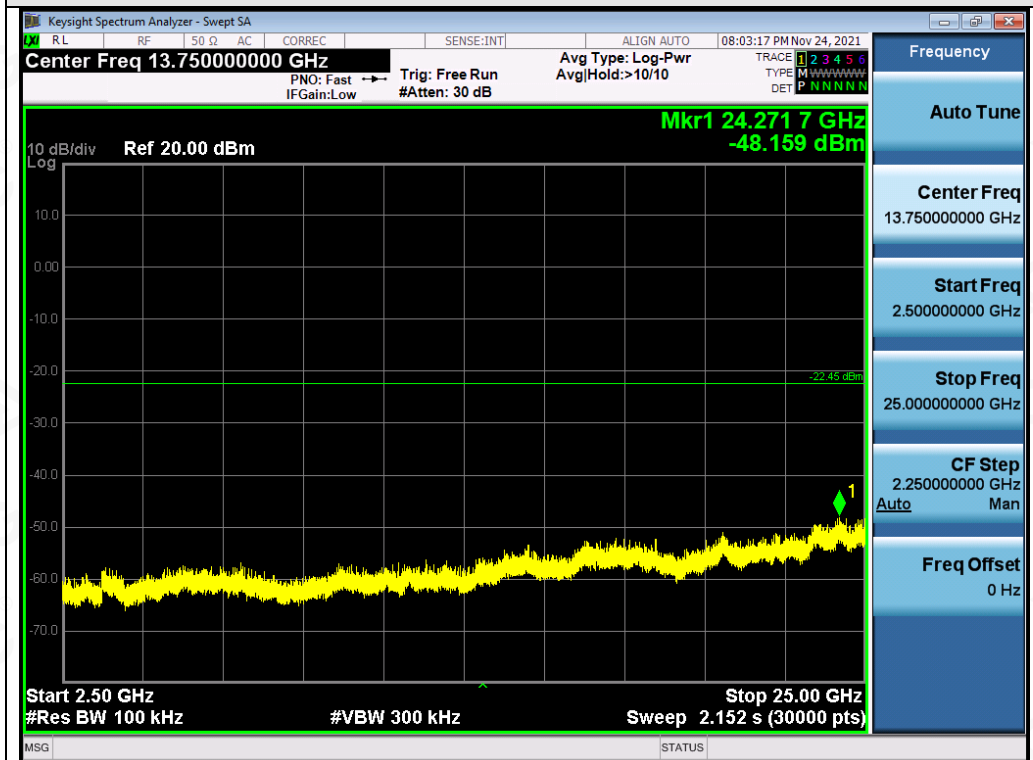
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Test\_Graph\_LE2M\_ANT1\_2480\_2Mbps\_Lower Band Emissions



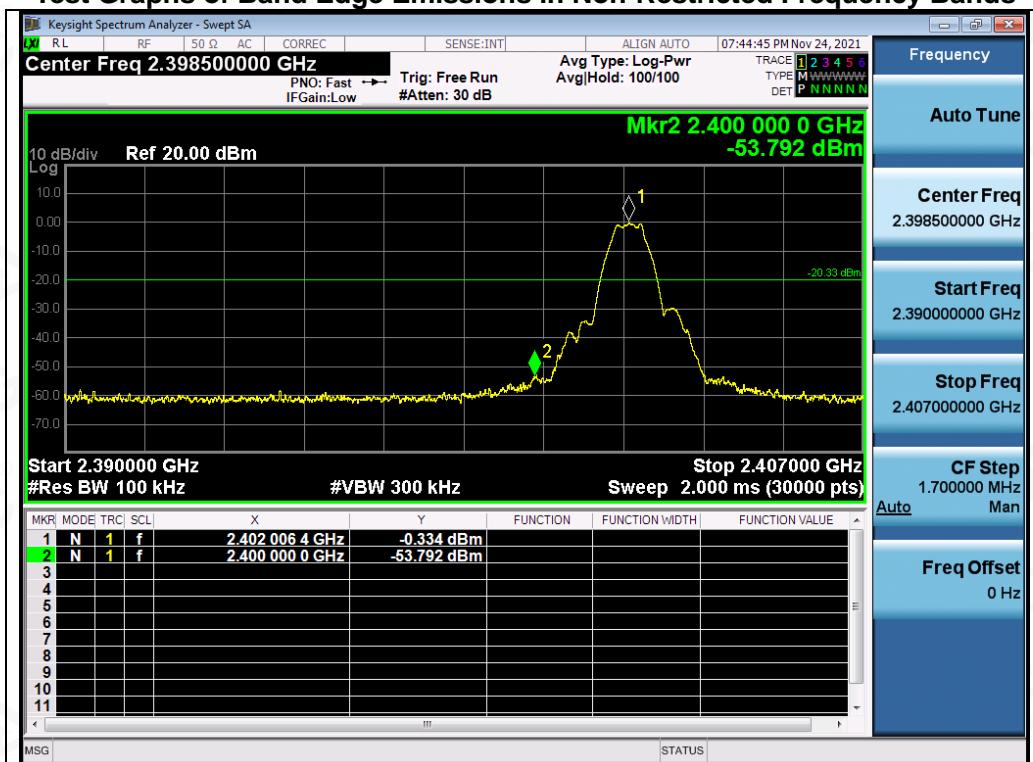
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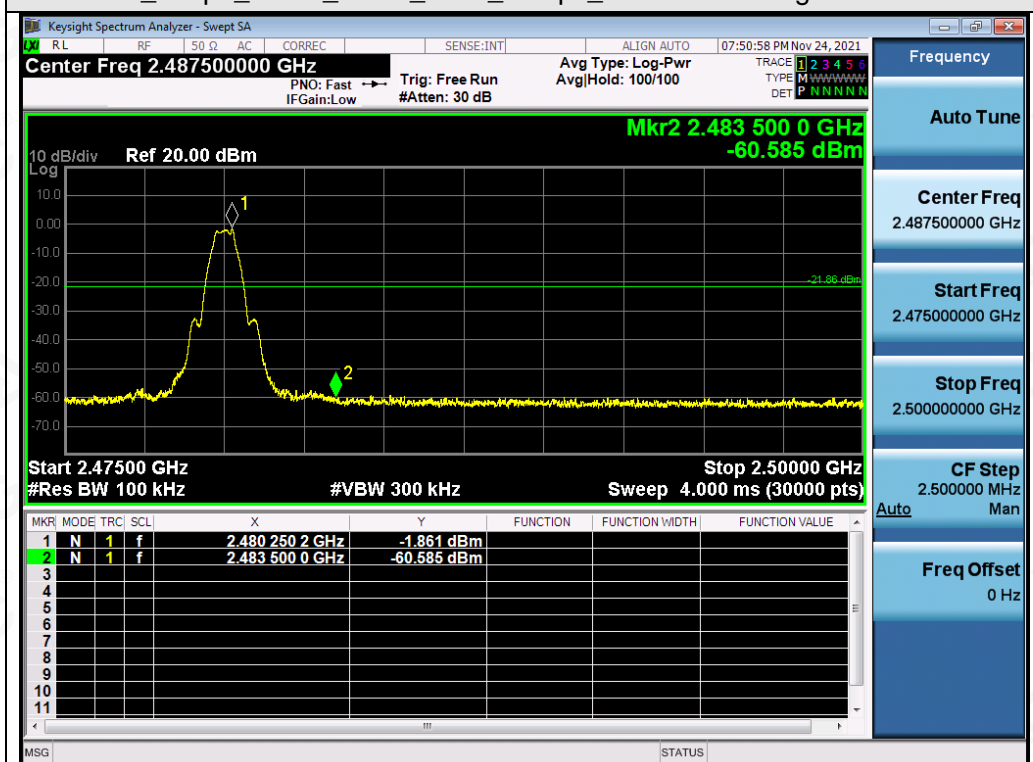
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### Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands



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

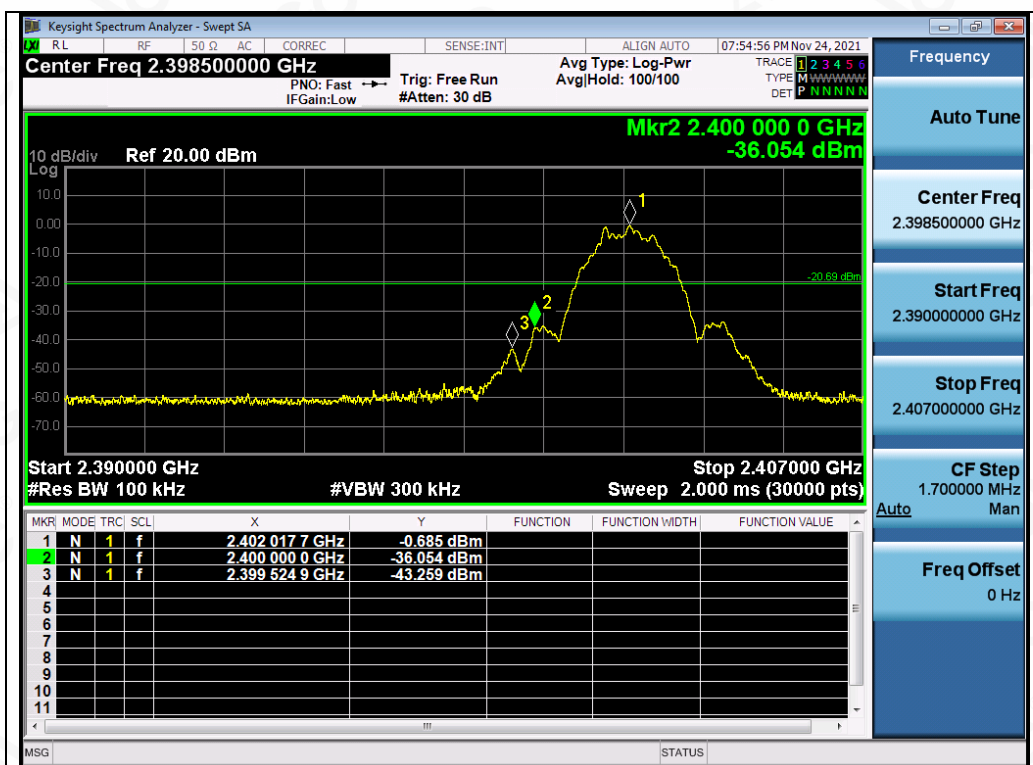


Test\_Graph\_LE1M\_ANT1\_2480\_1Mbps\_Higher Band Edge Emissions

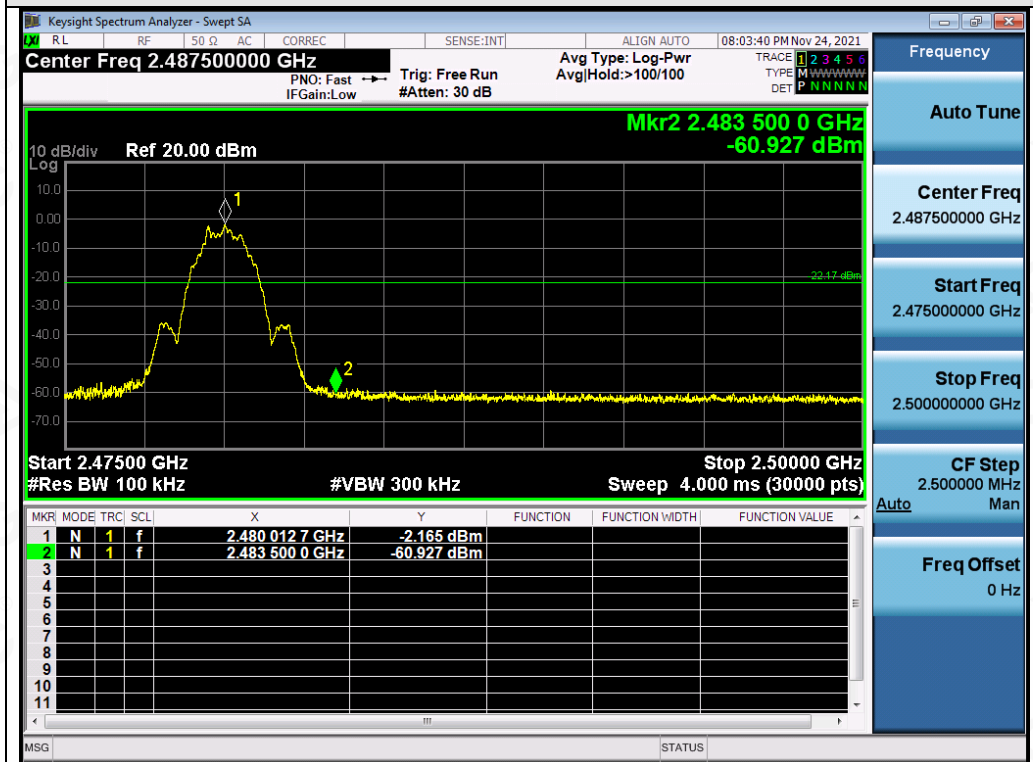
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Test\_Graph\_LE2M\_ANT1\_2402\_2Mbps\_Lower Band Edge Emissions



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	-15.415	$\leq 8$	Pass
	2440	-15.894	$\leq 8$	Pass
	2480	-16.560	$\leq 8$	Pass
GFSK 2M	2402	-18.253	$\leq 8$	Pass
	2440	-18.917	$\leq 8$	Pass
	2480	-19.431	$\leq 8$	Pass

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