

# FCC Test Report

Report No.: AGC02390201206FE02

**FCC ID** : 2ABRU-BLEM205IN  
**APPLICATION PURPOSE** : Original Equipment  
**PRODUCT DESIGNATION** : BT5.0 Low Energy Module - Industrial Grade  
**BRAND NAME** : BDE  
**MODEL NAME** : BDE-BLEM205-IN, BDE-BLEM205  
**APPLICANT** : Guangzhou BDE Technology Inc.  
**DATE OF ISSUE** : Feb. 06, 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           | /           | Feb. 06, 2021 | Valid         | Initial Release |

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## 1. VERIFICATION OF COMPLIANCE

|                                 |                                                                                                                                                                               |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applicant</b>                | Guangzhou BDE Technology Inc.                                                                                                                                                 |
| <b>Address</b>                  | B2-403, Chuangyi Building, 162 Science Avenue, Huangpu District, Guangzhou 510663, China                                                                                      |
| <b>Manufacturer</b>             | Guangzhou BDE Technology Inc.                                                                                                                                                 |
| <b>Address</b>                  | B2-403, Chuangyi Building, 162 Science Avenue, Huangpu District, Guangzhou 510663, China                                                                                      |
| <b>Factory</b>                  | Guangzhou BDE Technology Inc.                                                                                                                                                 |
| <b>Address</b>                  | B2-403, Chuangyi Building, 162 Science Avenue, Huangpu District, Guangzhou 510663, China                                                                                      |
| <b>Product Designation</b>      | BT5.0 Low Energy Module - Industrial Grade                                                                                                                                    |
| <b>Brand Name</b>               | BDE                                                                                                                                                                           |
| <b>Test Model</b>               | BDE-BLEM205-IN                                                                                                                                                                |
| <b>Series Model</b>             | BDE-BLEM205                                                                                                                                                                   |
| <b>Difference Description</b>   | All the series models are the same as the test model except for the model name. BDE-BLEM205-IN can operate from -40°C to 105°C, while BDE-BLEM205 operates from -40°C to 85°C |
| <b>Date of test</b>             | Dec. 25, 2020 to Feb. 06, 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

*Sky Dong*

Sky Dong  
(Project Engineer)

Feb. 06, 2021

Reviewed By

*Max Zhang*

Max Zhang  
(Reviewer)

Feb. 06, 2021

Approved By

*Forrest Lei*

Forrest Lei  
(Authorized Officer)

Feb. 06, 2021

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## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

The EUT is designed as a “BT5.0 Low Energy Module - Industrial Grade”. 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>                                                                                                            | 4.540dBm (Max) For BLE 125KHz<br>4.547dBm (Max) For BLE 500KHz<br>4.425dBm (Max) For BLE 1M<br>4.523dBm (Max) For BLE 2M                                                                                                                                                                                           |
| <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<br>BLE <input checked="" type="checkbox"/> GFSK 125KHz <input checked="" type="checkbox"/> GFSK 500KHz <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>                                                                                                               | 2.18dBi                                                                                                                                                                                                                                                                                                            |
| <b>Hardware Version</b>                                                                                                           | V1.1                                                                                                                                                                                                                                                                                                               |
| <b>Software Version</b>                                                                                                           | V1.0                                                                                                                                                                                                                                                                                                               |
| <b>Power Supply</b>                                                                                                               | DC 3.3V                                                                                                                                                                                                                                                                                                            |
| Note: 1. The EUT doesn't support BR/EDR.<br>2. All of the models are tested and the main model test data recorded in this report. |                                                                                                                                                                                                                                                                                                                    |

### 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: 2ABRU-BLEM205IN** 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%.

- Uncertainty of Conducted Emission,  $U_c = \pm 3.1$  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,  $U_c = \pm 2.7$  dB
- 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(2402MHz)    |
| 2   | Middle channel TX(2440MHz) |
| 3   | High channel TX(2480MHz)   |

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.
4. The test software is the Smart RF Studio 2.180 which can set the EUT into the individual test modes.

| Mode   | Channel | power Index |
|--------|---------|-------------|
| 125KHz | L/M/H   | 5           |
| 500KHz | L/M/H   | 5           |
| 1M     | L/M/H   | 5           |
| 2M     | L/M/H   | 5           |

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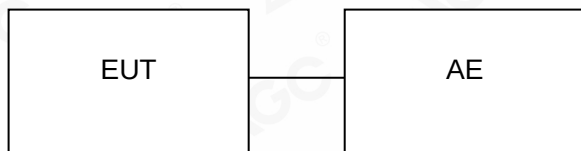
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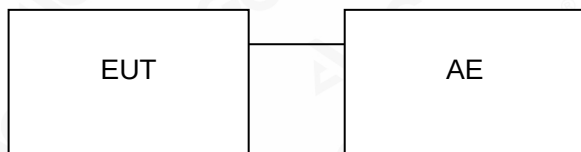
## 5. SYSTEM TEST CONFIGURATION

### 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    | BT5.0 Low Energy Module - Industrial Grade | BDE-BLEM205-IN | 2ABRU-BLEM205IN     | EUT    |
| 2    | Mobile phone                               | TCL            | J326T               | AE     |
| 3    | PC                                         | HUAWEI         | DC 5V               | AE     |
| 4    | Control board                              | C3             | DC 3.3V             | 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 15, 2020  | May 14, 2021  |
| LISN          | R&S          | ESH2-Z5          | 100086 | Jul. 03, 2020 | Jul. 02, 2021 |
| 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      | May 15, 2020  | May 14, 2021  |
| EXA Signal Analyzer            | Agilent        | 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    | BBHA 9170         | #768       | Sep. 21, 2019 | Sep. 20, 2021 |
| Active loop antenna (9K-30MHz) | ZHINAN         | ZN30900C          | 18051      | May 22, 2020  | May 21, 2022  |
| Double-Ridged Waveguide Horn   | ETS LINDGREN   | 3117              | 00034609   | May 17, 2019  | May 16, 2021  |
| Broadband Preamplifier         | ETS LINDGREN   | 3117PA            | 00225134   | Sep. 03, 2020 | Sep. 02, 2022 |
| ANTENNA                        | SCHWARZBECK    | VULB9168          | 494        | Jan. 09, 2019 | Jan. 08, 2021 |
| Test software                  | Tonscend       | JS32-RE (Ver.2.5) | N/A        | N/A           | N/A           |

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## 7. PEAK OUTPUT POWER

### 7.1. MEASUREMENT PROCEDURE

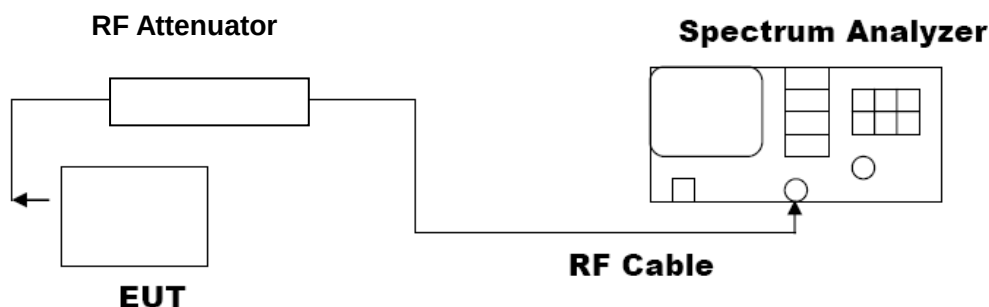
For peak power test:

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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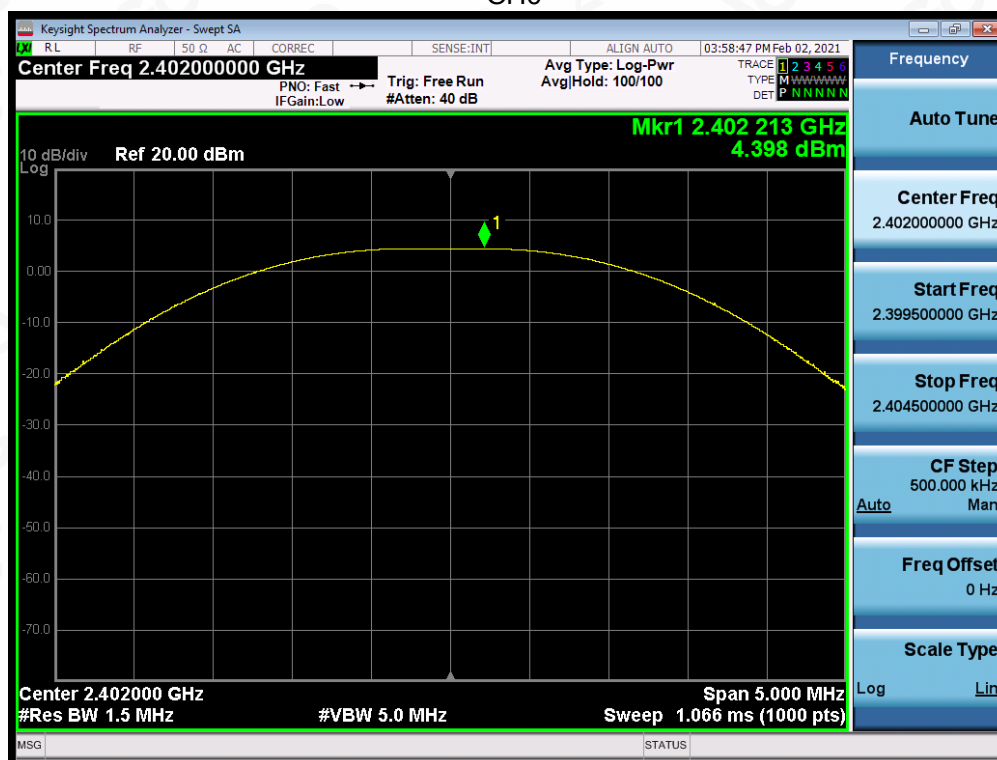
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### 7.3. LIMITS AND MEASUREMENT RESULT 125 KHz

| PEAK OUTPUT POWER MEASUREMENT RESULT<br>FOR GFSK MODULATION |                     |                            |              |
|-------------------------------------------------------------|---------------------|----------------------------|--------------|
| Frequency<br>(GHz)                                          | Peak Power<br>(dBm) | Applicable Limits<br>(dBm) | Pass or Fail |
| 2.402                                                       | 4.398               | 30                         | Pass         |
| 2.440                                                       | 4.540               | 30                         | Pass         |
| 2.480                                                       | 4.420               | 30                         | Pass         |

CH0

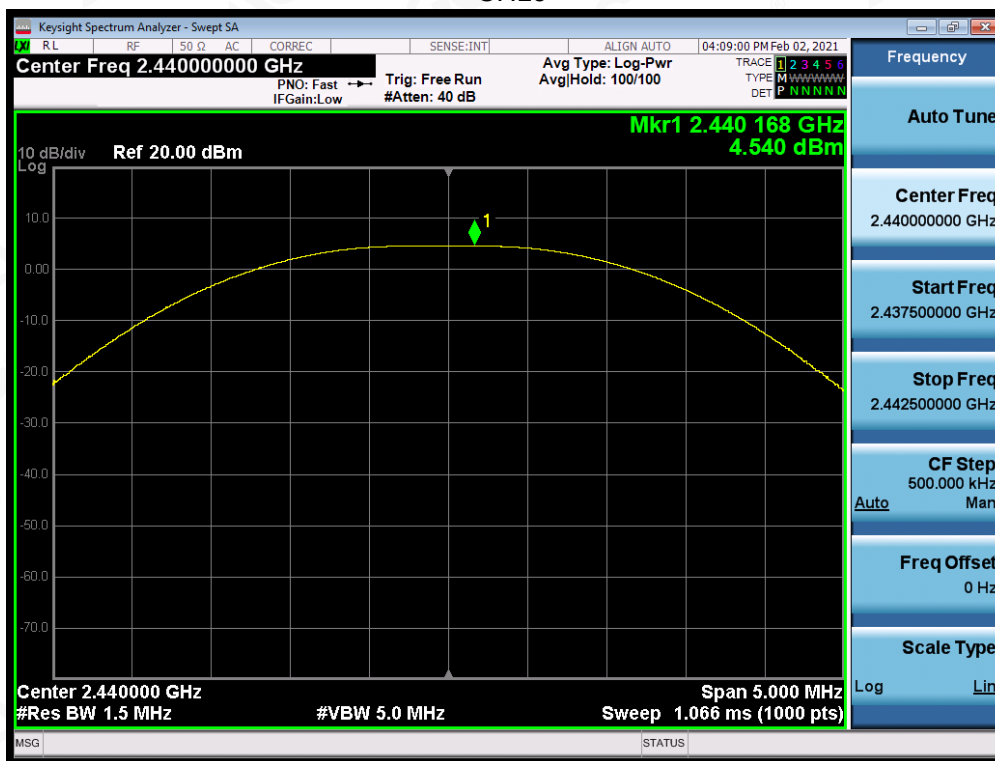


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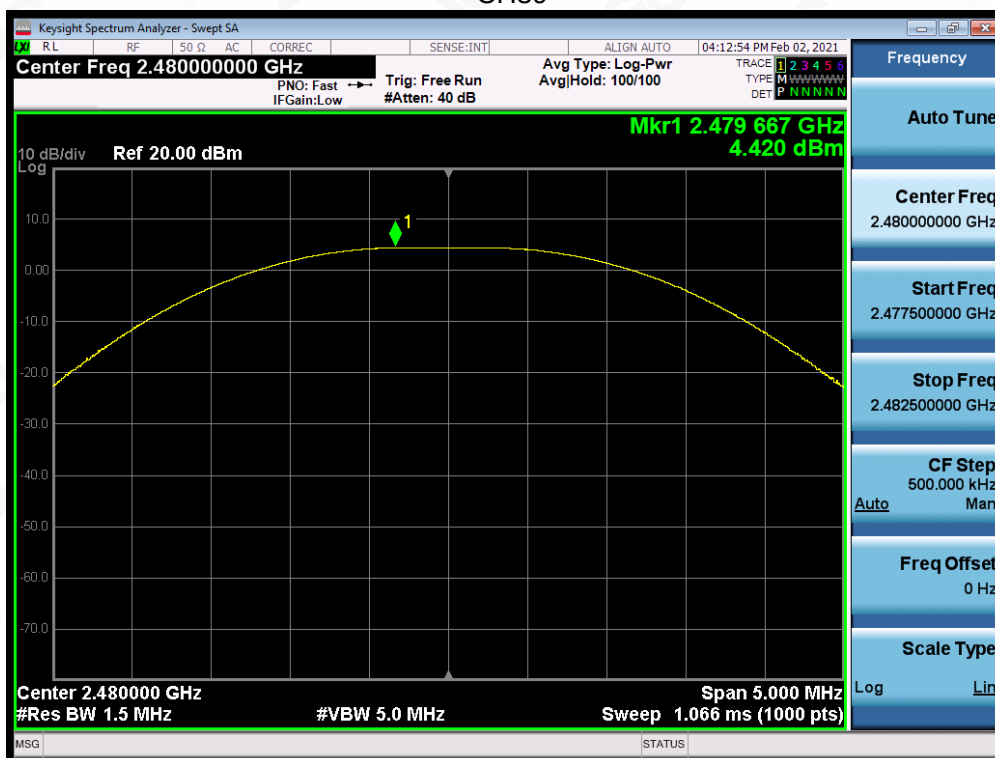
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CH19



CH39



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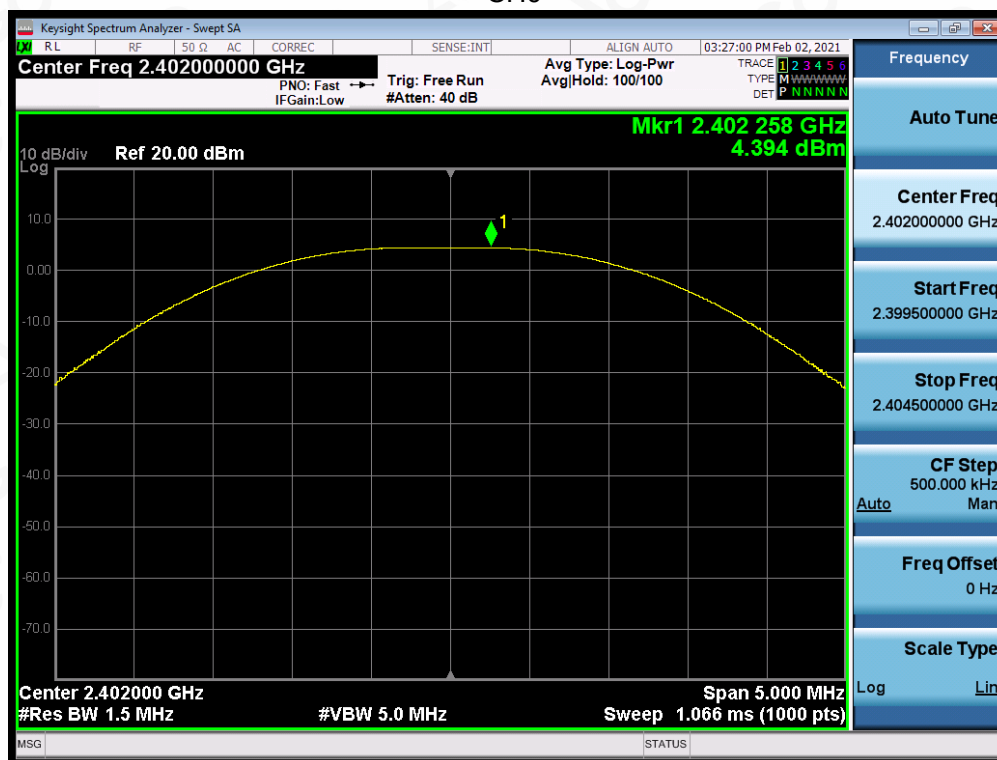
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500 KHz

| PEAK OUTPUT POWER MEASUREMENT RESULT<br>FOR GFSK MOUDULATION |                     |                            |              |
|--------------------------------------------------------------|---------------------|----------------------------|--------------|
| Frequency<br>(GHz)                                           | Peak Power<br>(dBm) | Applicable Limits<br>(dBm) | Pass or Fail |
| 2.402                                                        | 4.394               | 30                         | Pass         |
| 2.440                                                        | 4.547               | 30                         | Pass         |
| 2.480                                                        | 4.431               | 30                         | Pass         |

CH0

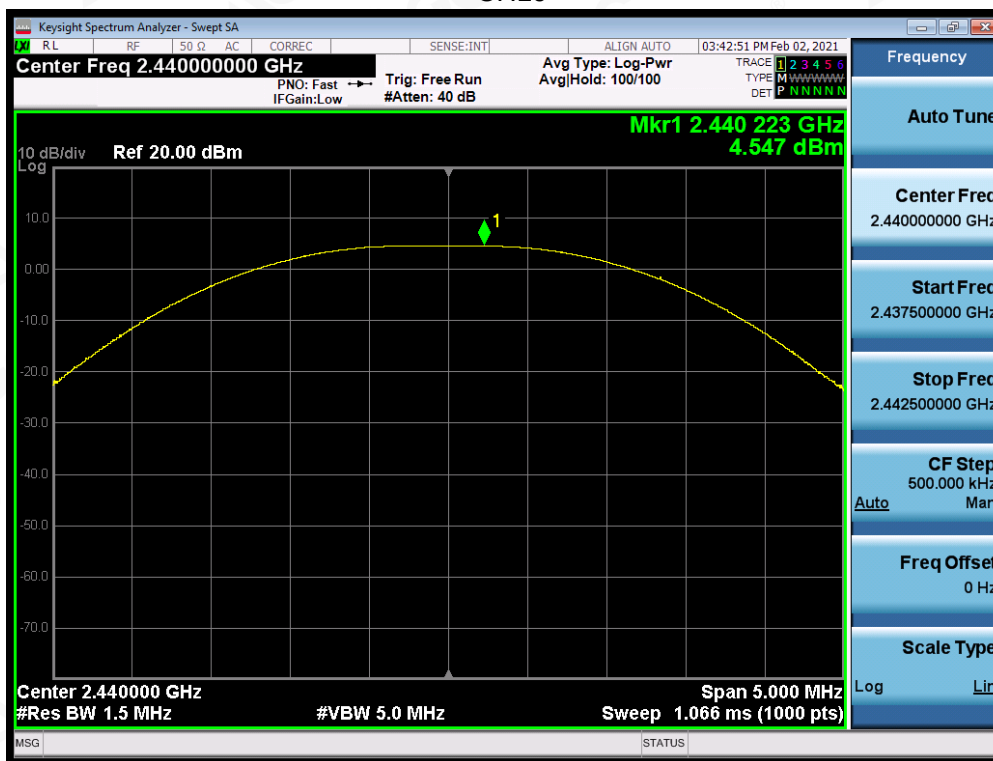


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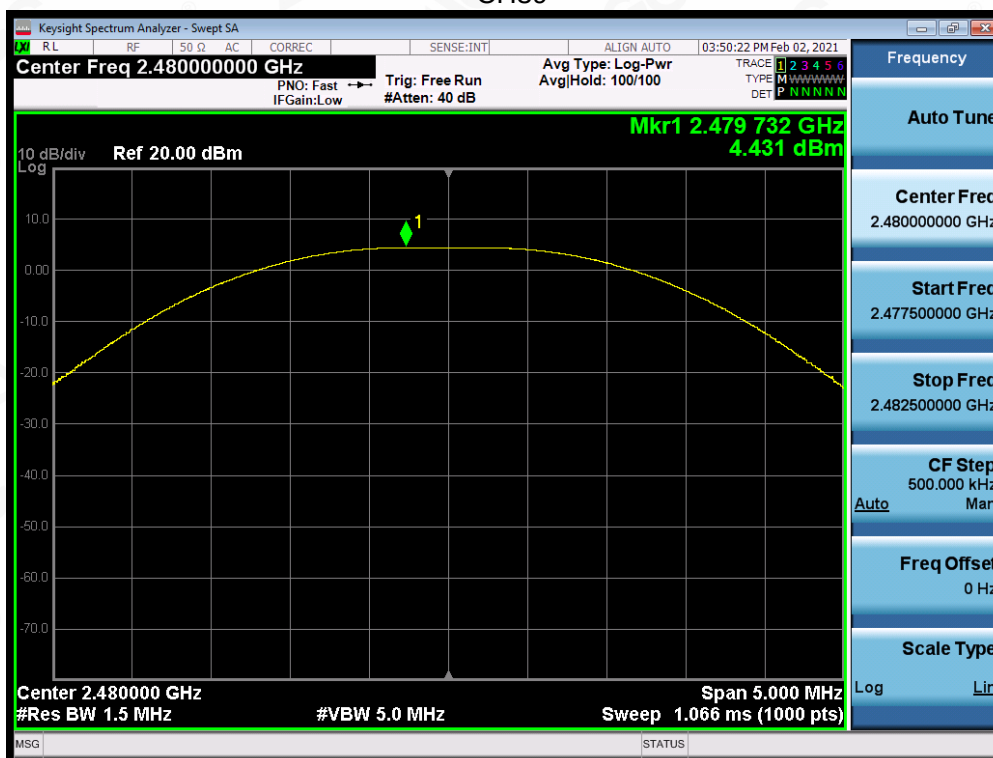
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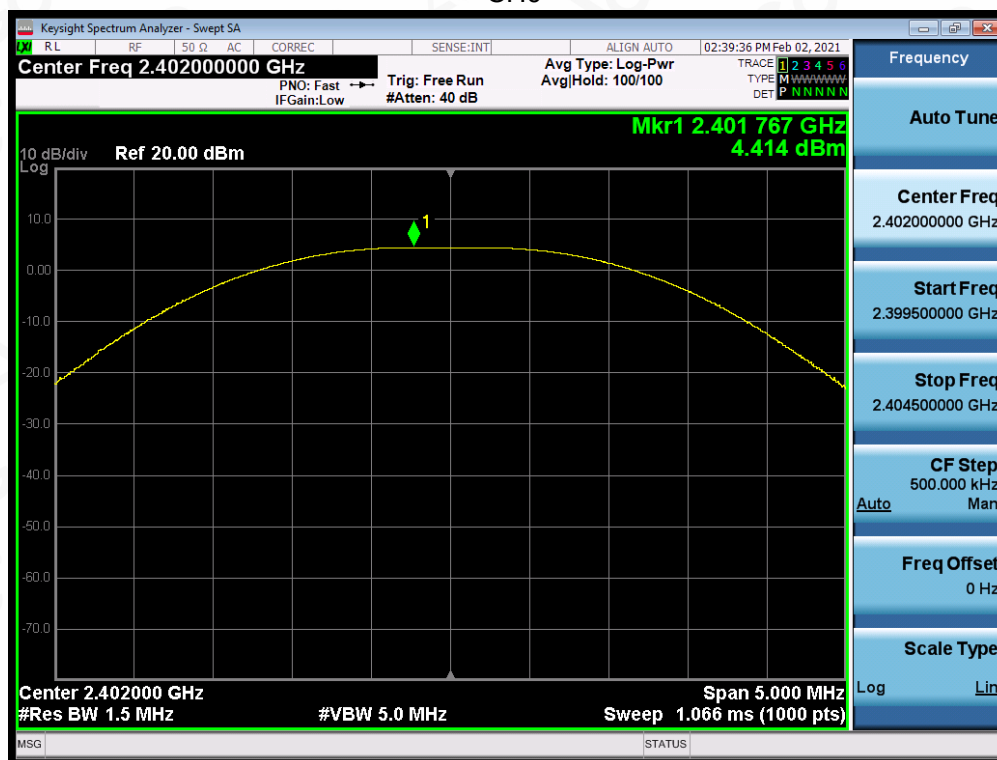
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1M

| PEAK OUTPUT POWER MEASUREMENT RESULT<br>FOR GFSK MOUDULATION |                     |                            |              |
|--------------------------------------------------------------|---------------------|----------------------------|--------------|
| Frequency<br>(GHz)                                           | Peak Power<br>(dBm) | Applicable Limits<br>(dBm) | Pass or Fail |
| 2.402                                                        | 4.414               | 30                         | Pass         |
| 2.440                                                        | 4.403               | 30                         | Pass         |
| 2.480                                                        | 4.425               | 30                         | Pass         |

CH0

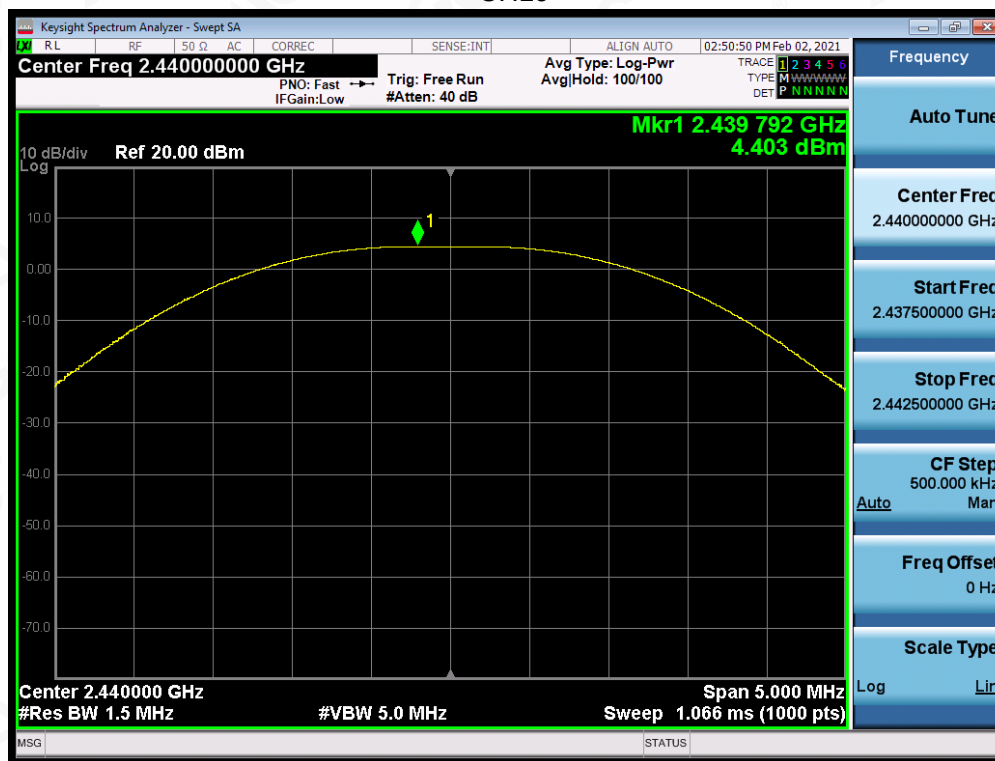


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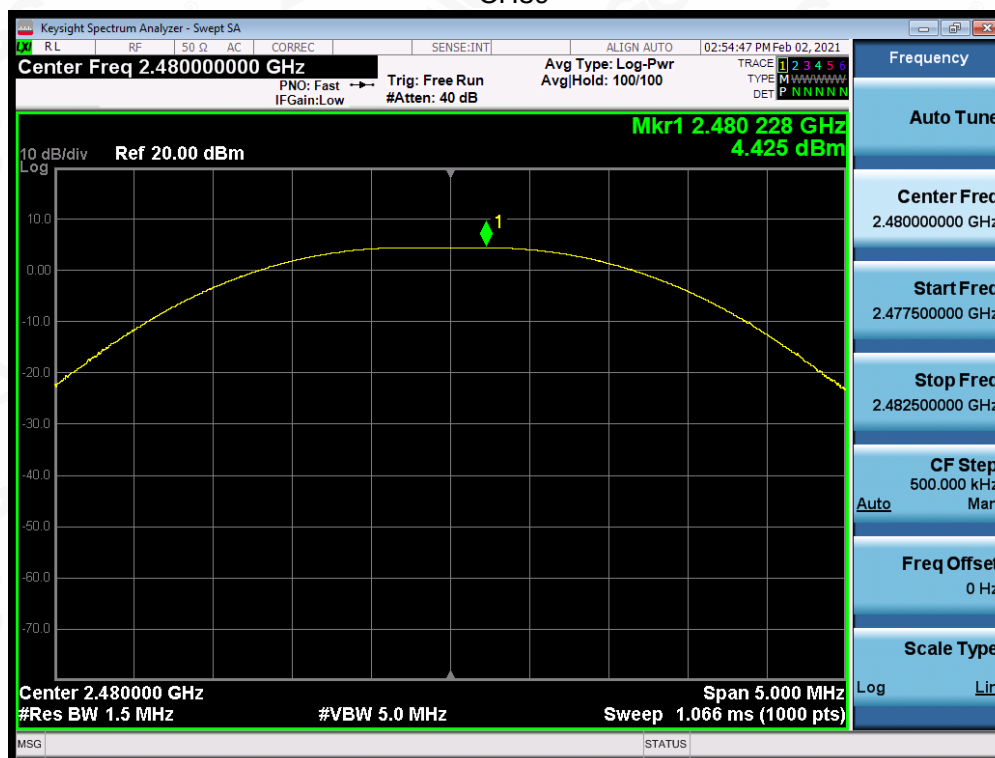
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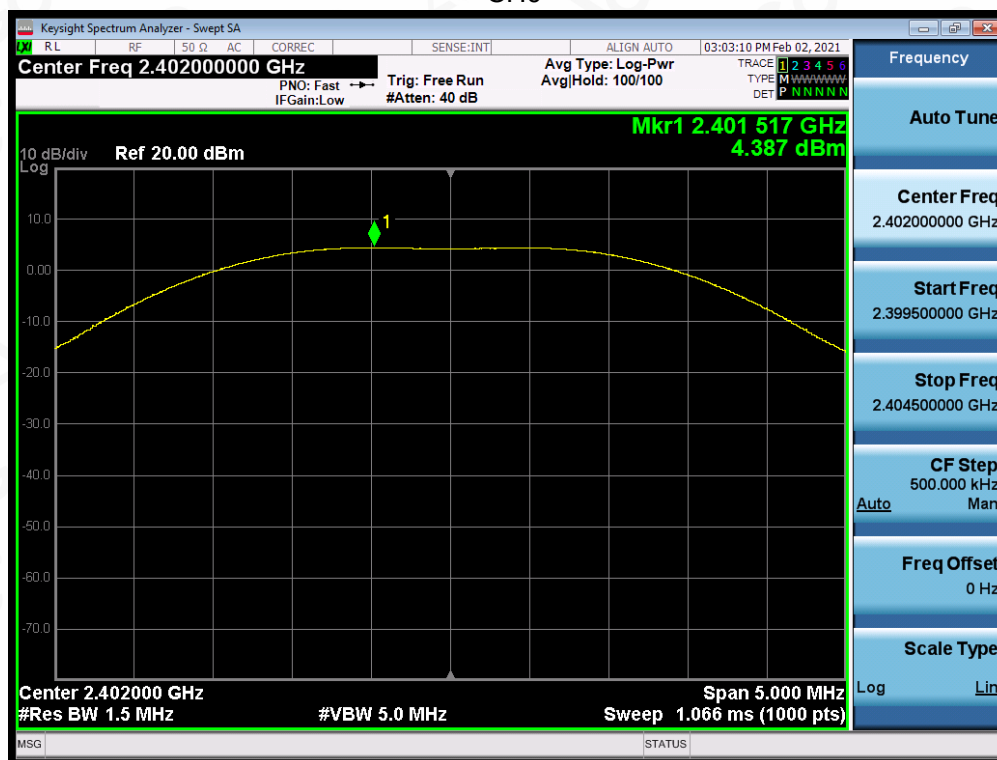
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2M

| PEAK OUTPUT POWER MEASUREMENT RESULT<br>FOR GFSK MOUDULATION |                     |                            |              |
|--------------------------------------------------------------|---------------------|----------------------------|--------------|
| Frequency<br>(GHz)                                           | Peak Power<br>(dBm) | Applicable Limits<br>(dBm) | Pass or Fail |
| 2.402                                                        | 4.387               | 30                         | Pass         |
| 2.440                                                        | 4.523               | 30                         | Pass         |
| 2.480                                                        | 4.406               | 30                         | Pass         |

CH0

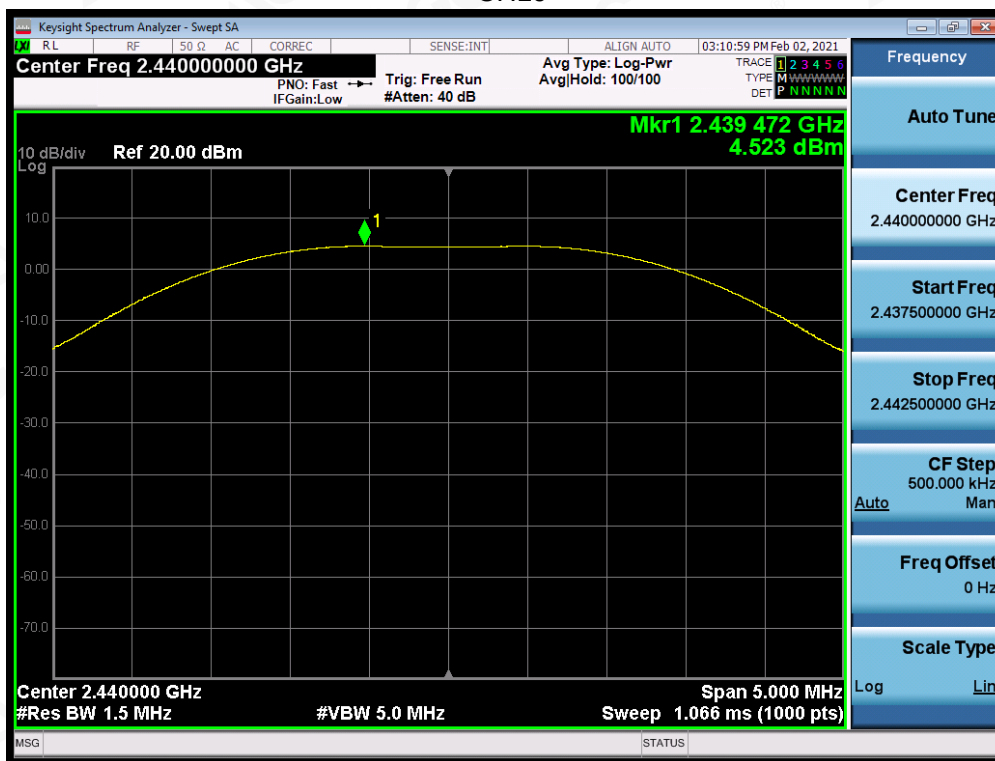


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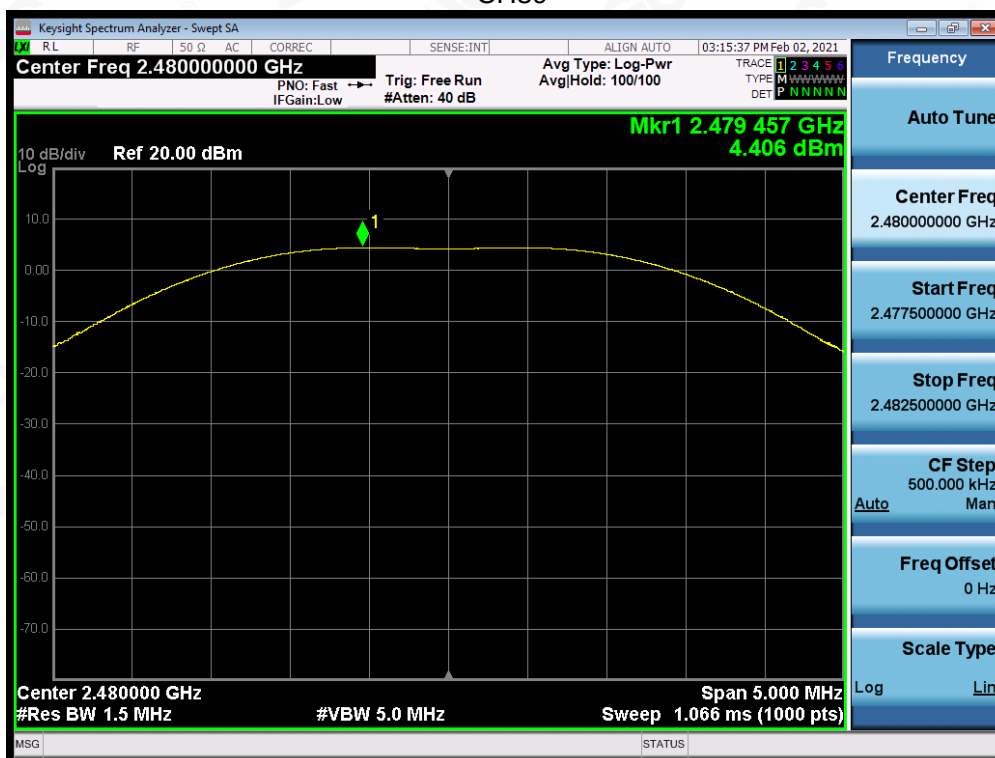
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CH19



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## 8. 6 DB BANDWIDTH

### 8.1. 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 Centre Frequency = Operation Frequency, RBW= 100 kHz, VBW $\geq 3 \times$  RBW.
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)

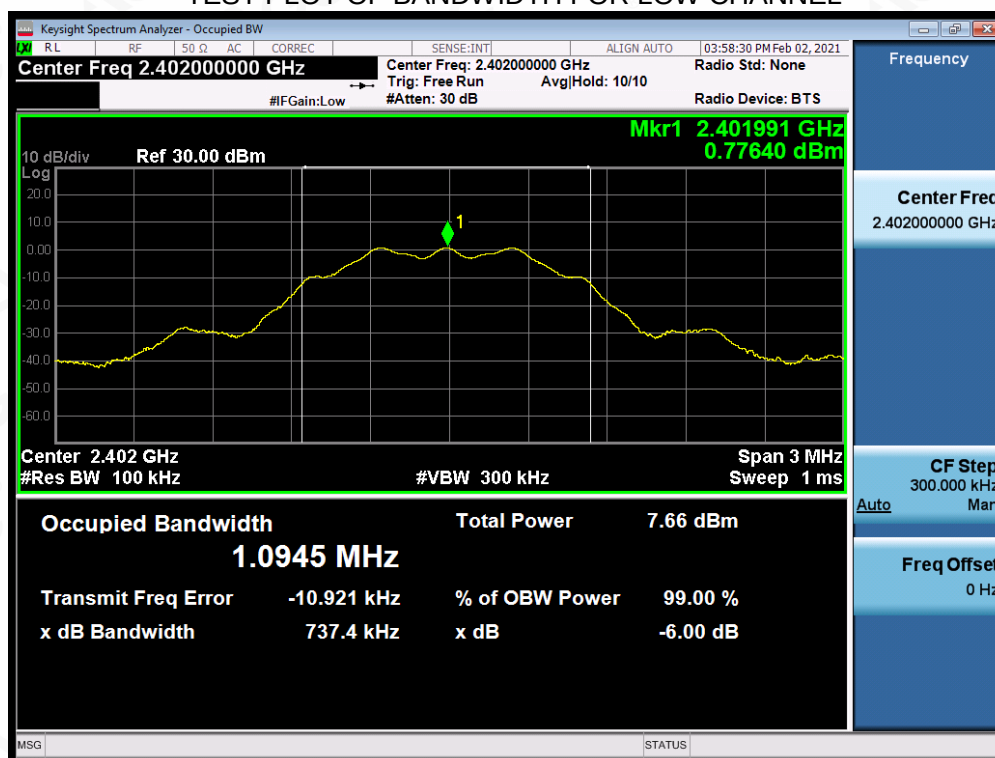
The same as described in section 7.2.

### 8.3. LIMITS AND MEASUREMENT RESULTS

125 KHz

| LIMITS AND MEASUREMENT RESULT |                   |       |          |
|-------------------------------|-------------------|-------|----------|
| Applicable Limits             | Applicable Limits |       |          |
|                               | Test Data (kHz)   |       | Criteria |
| >500KHZ                       | Low Channel       | 737.4 | PASS     |
|                               | Middle Channel    | 726.8 | PASS     |
|                               | High Channel      | 725.6 | PASS     |

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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500 KHz

| LIMITS AND MEASUREMENT RESULT |                   |       |          |
|-------------------------------|-------------------|-------|----------|
| Applicable Limits             | Applicable Limits |       |          |
|                               | Test Data (kHz)   |       | Criteria |
| >500KHZ                       | Low Channel       | 702.5 | PASS     |
|                               | Middle Channel    | 699.7 | PASS     |
|                               | High Channel      | 695.9 | PASS     |

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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1M

| LIMITS AND MEASUREMENT RESULT |                   |       |          |
|-------------------------------|-------------------|-------|----------|
| Applicable Limits             | Applicable Limits |       |          |
|                               | Test Data (kHz)   |       | Criteria |
| >500KHZ                       | Low Channel       | 714.9 | PASS     |
|                               | Middle Channel    | 700.7 | PASS     |
|                               | High Channel      | 700.6 | PASS     |

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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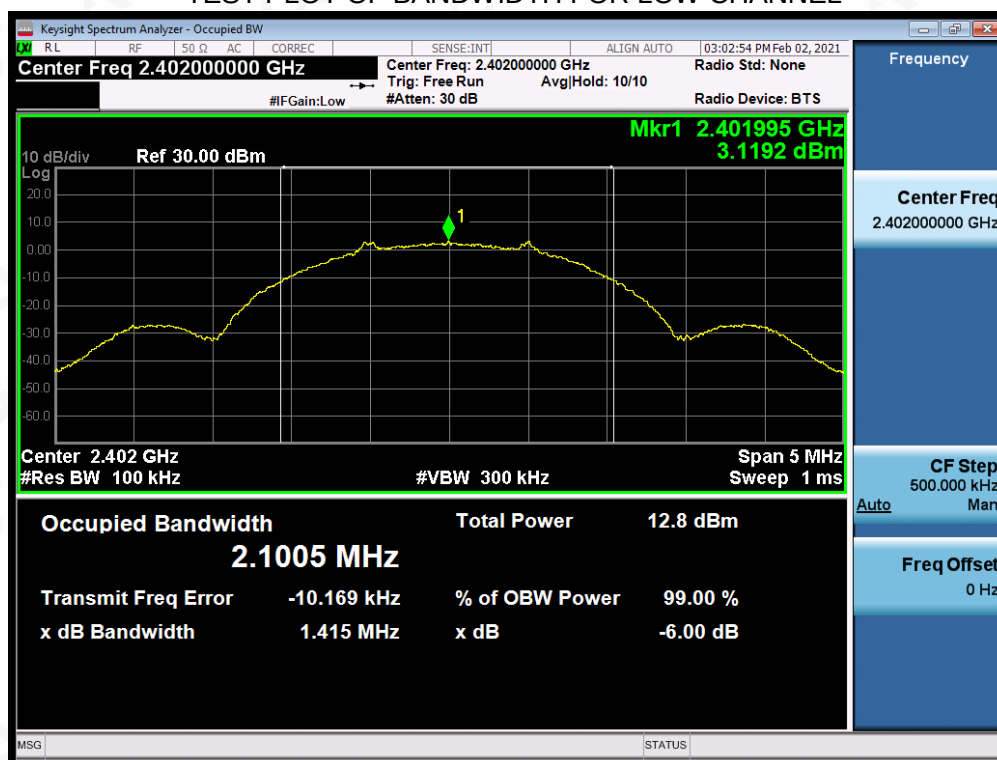
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2M

| LIMITS AND MEASUREMENT RESULT |                   |       |          |
|-------------------------------|-------------------|-------|----------|
| Applicable Limits             | Applicable Limits |       |          |
|                               | Test Data (MHz)   |       | Criteria |
| >500KHZ                       | Low Channel       | 1.415 | PASS     |
|                               | Middle Channel    | 1.431 | PASS     |
|                               | High Channel      | 1.491 | PASS     |

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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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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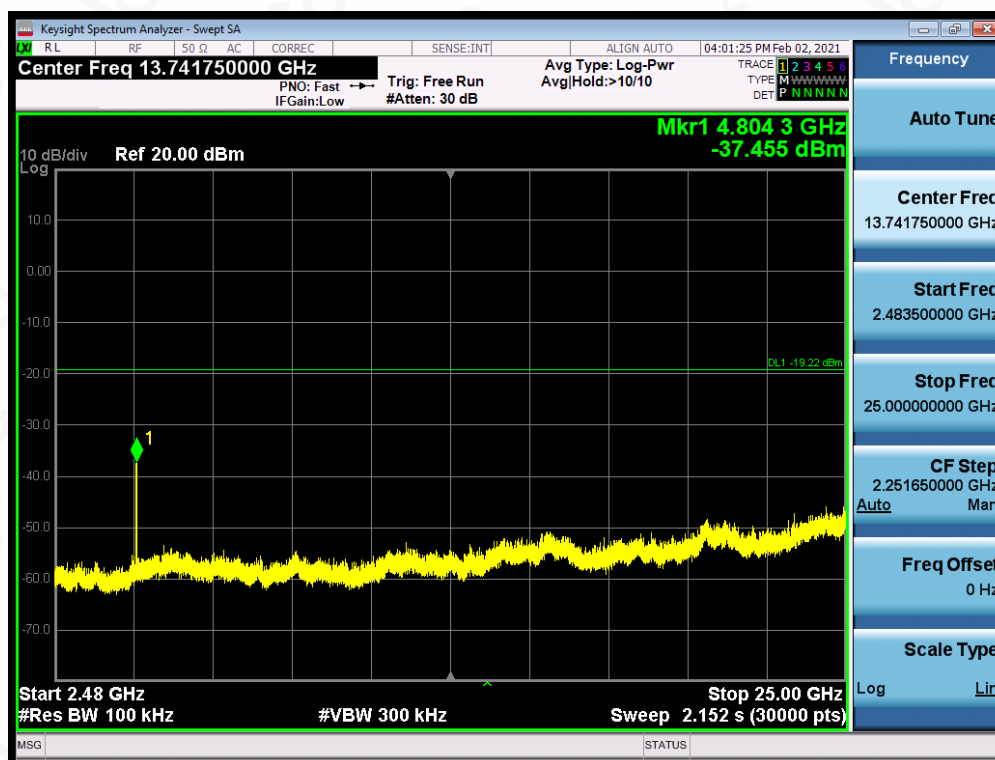
**TEST RESULT FOR ENTIRE FREQUENCY RANGE**  
**125 KHz**  
**GFSK MODULATION IN LOW CHANNEL**



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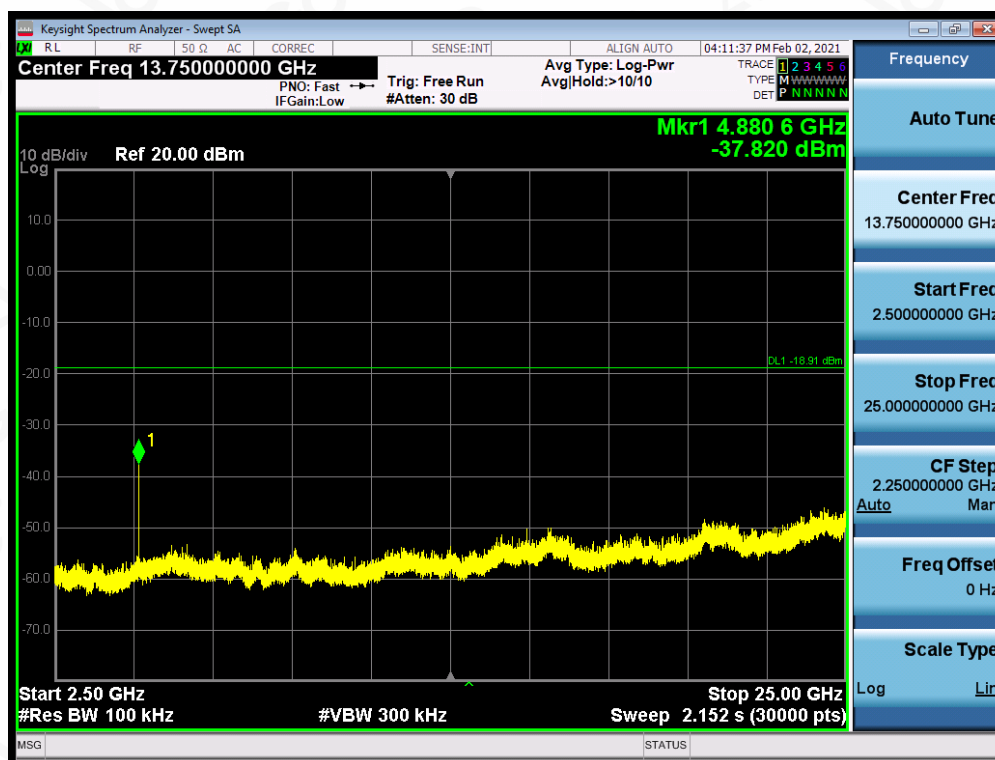
### GFSK MODULATION IN MIDDLE CHANNEL



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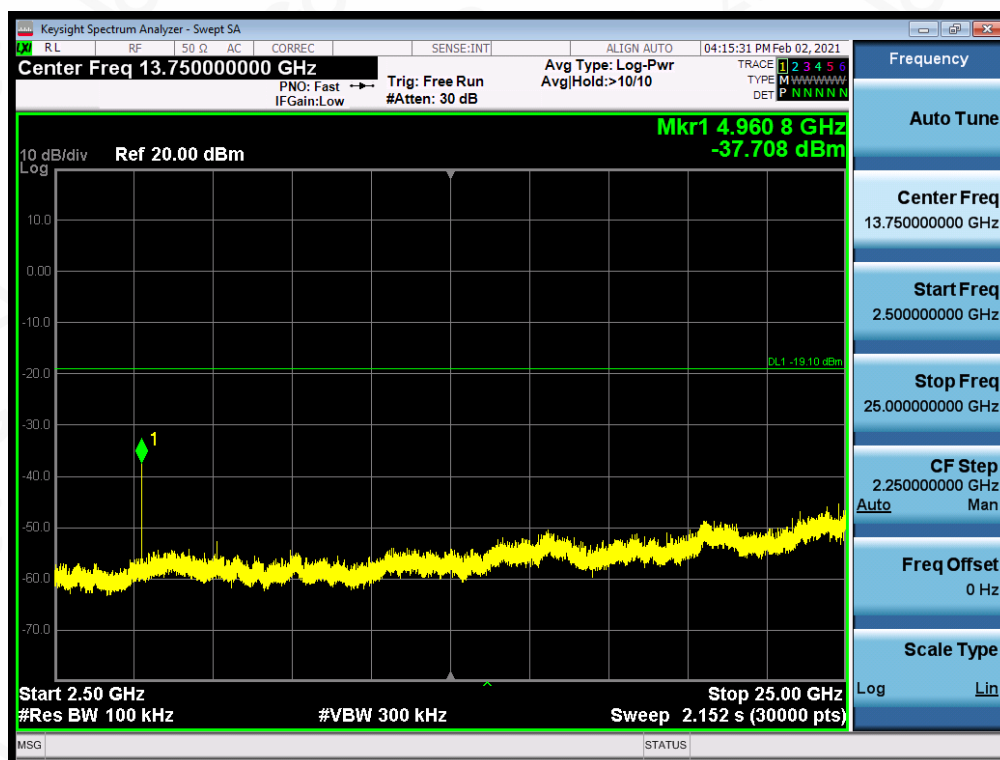
### GFSK MODULATION IN HIGH CHANNEL



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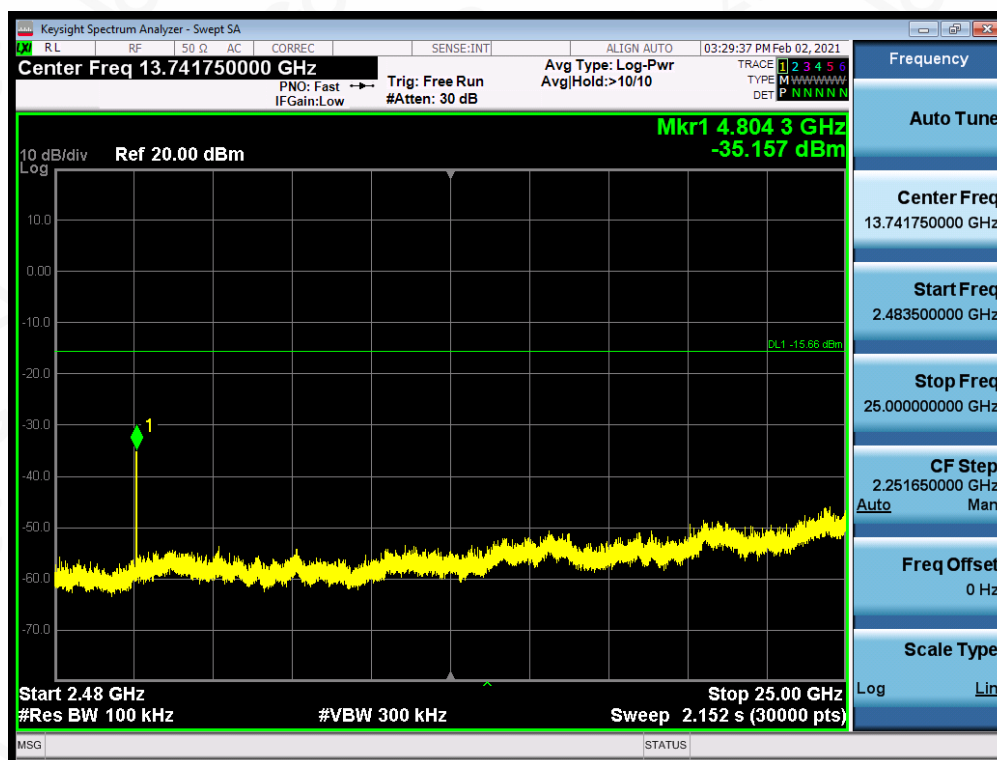
### 500 KHz GFSK MODULATION IN LOW CHANNEL



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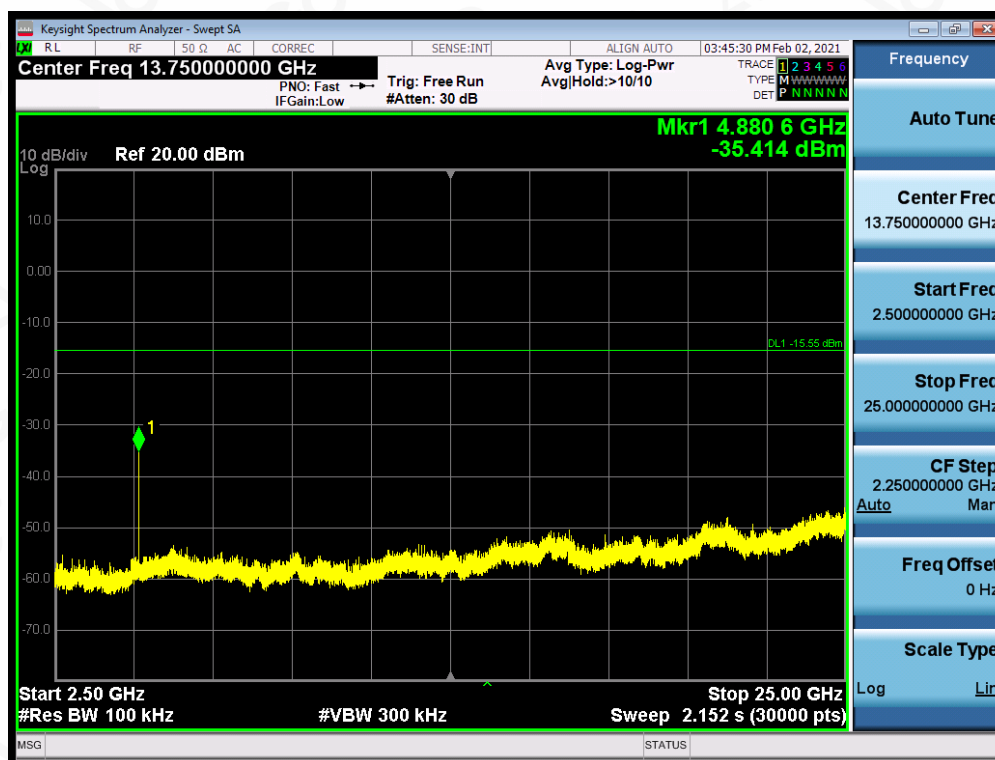
### GFSK MODULATION IN MIDDLE CHANNEL



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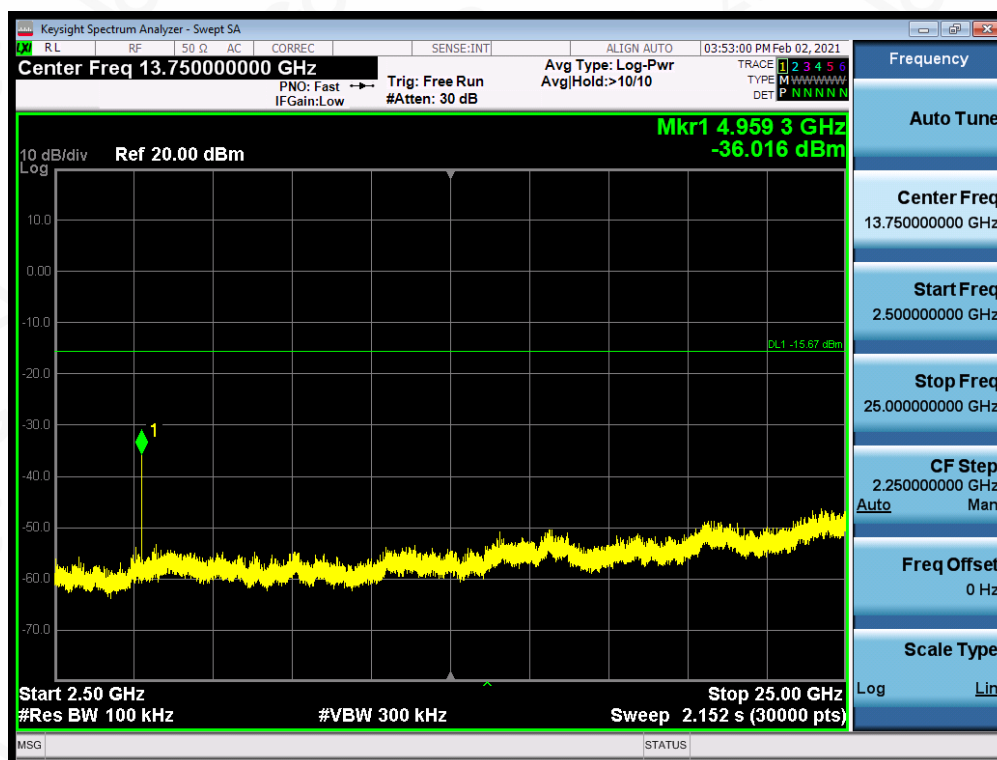
### GFSK MODULATION IN HIGH CHANNEL



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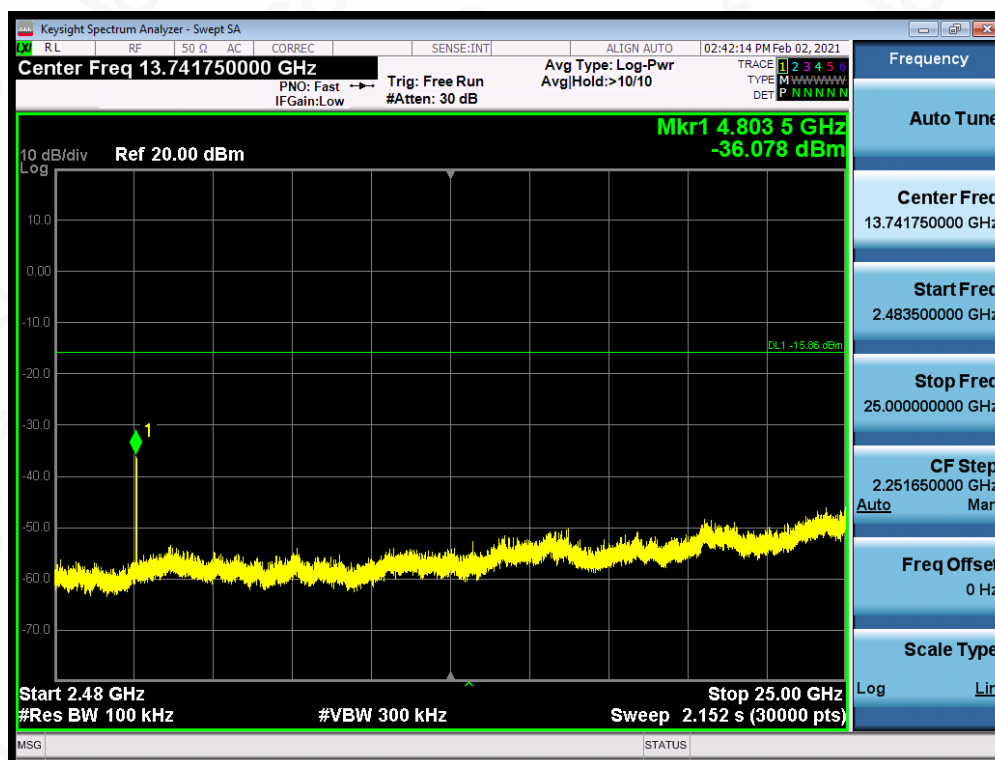
# 1M GFSK MODULATION IN LOW CHANNEL



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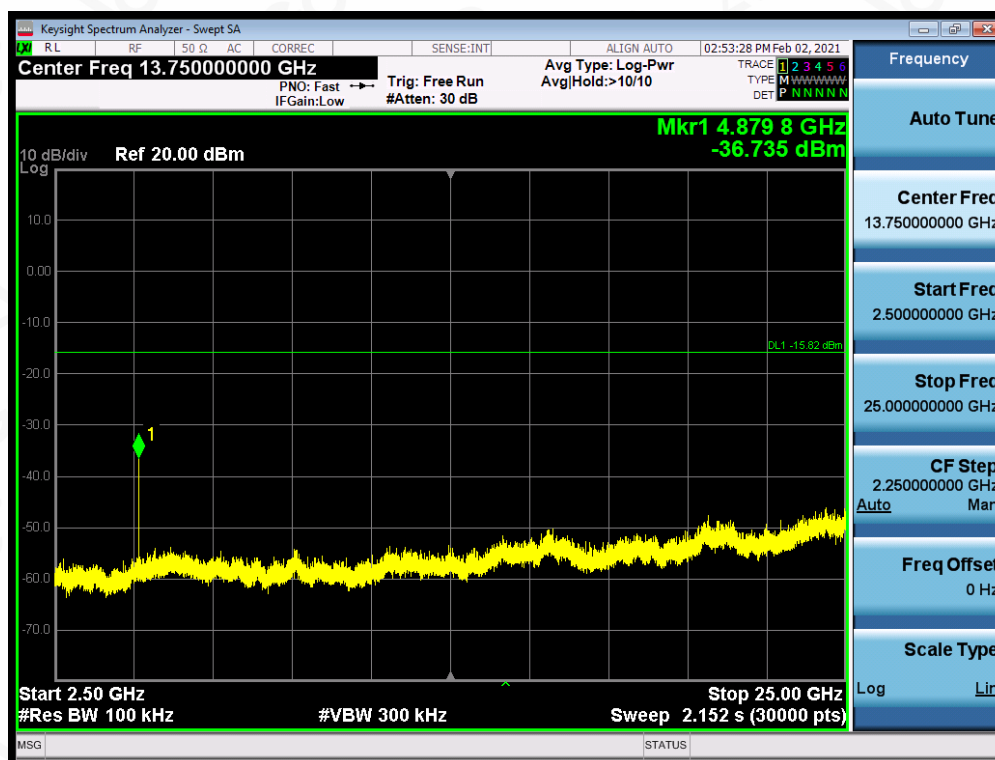
### GFSK MODULATION IN MIDDLE CHANNEL



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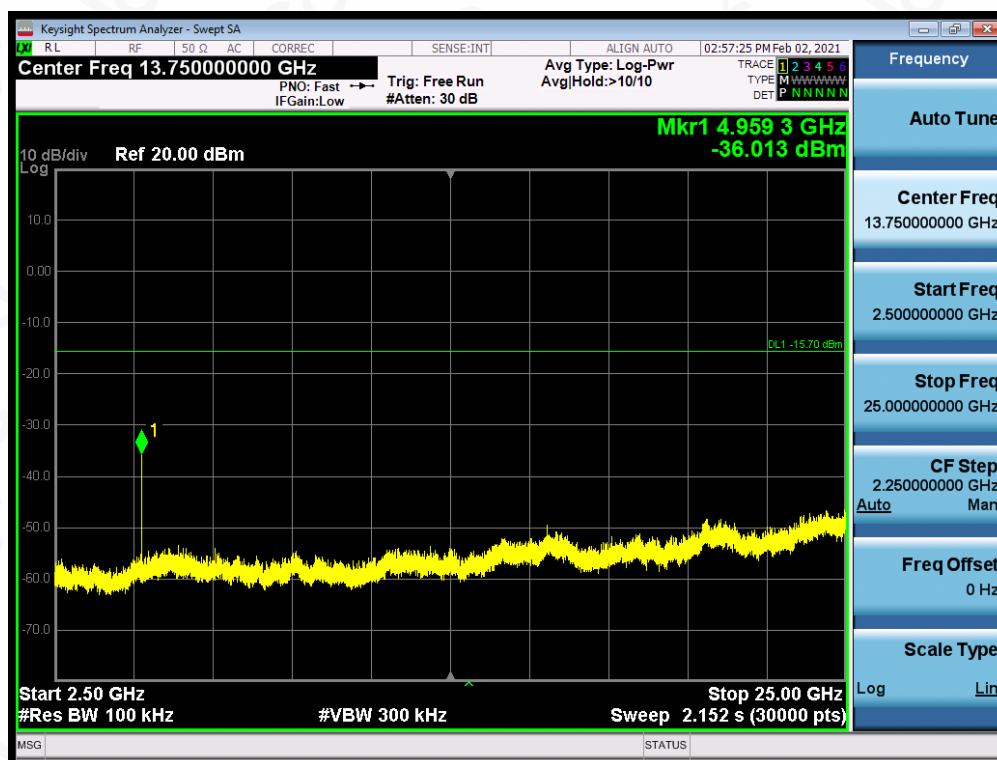
### GFSK MODULATION IN HIGH CHANNEL



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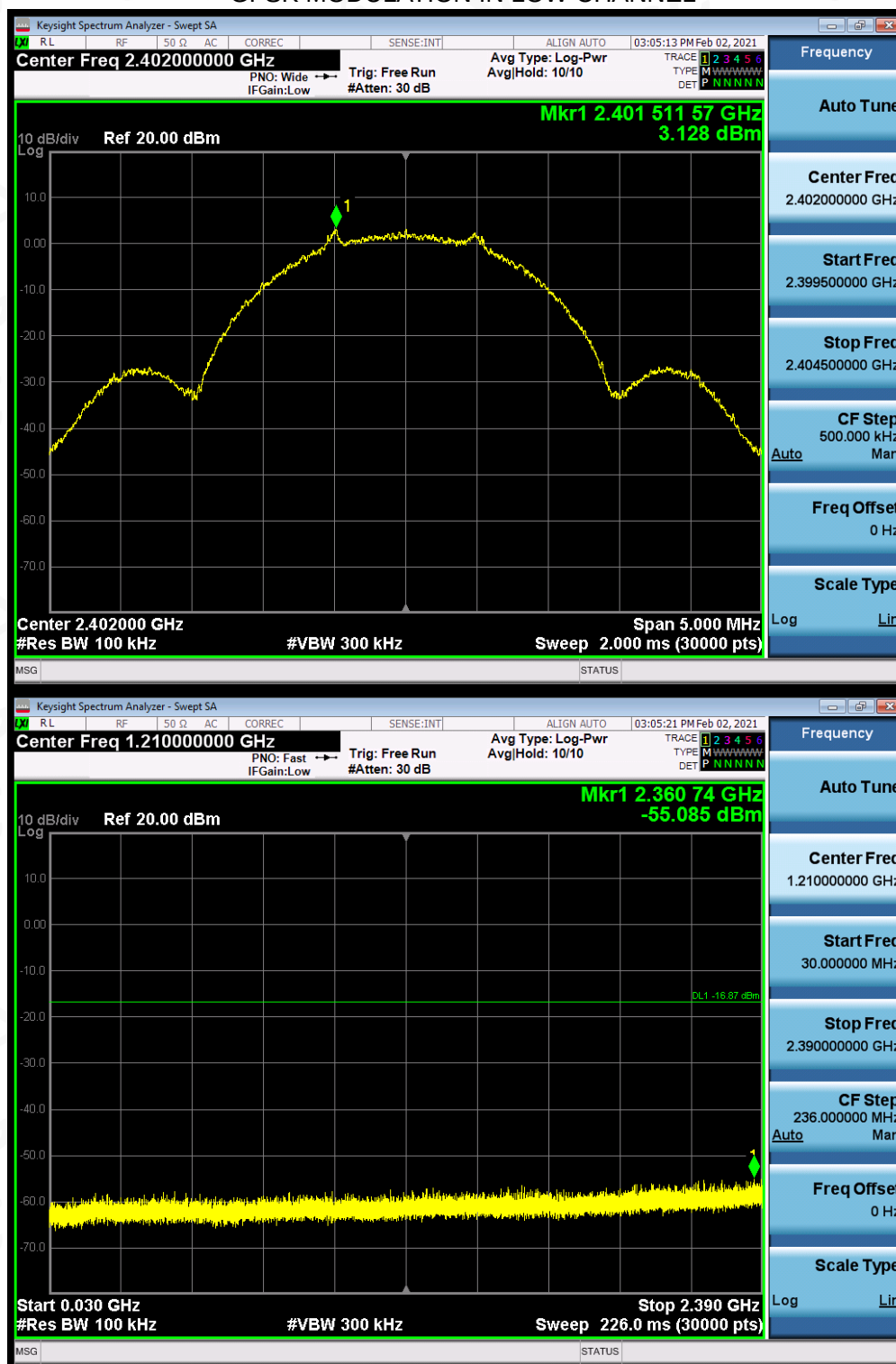


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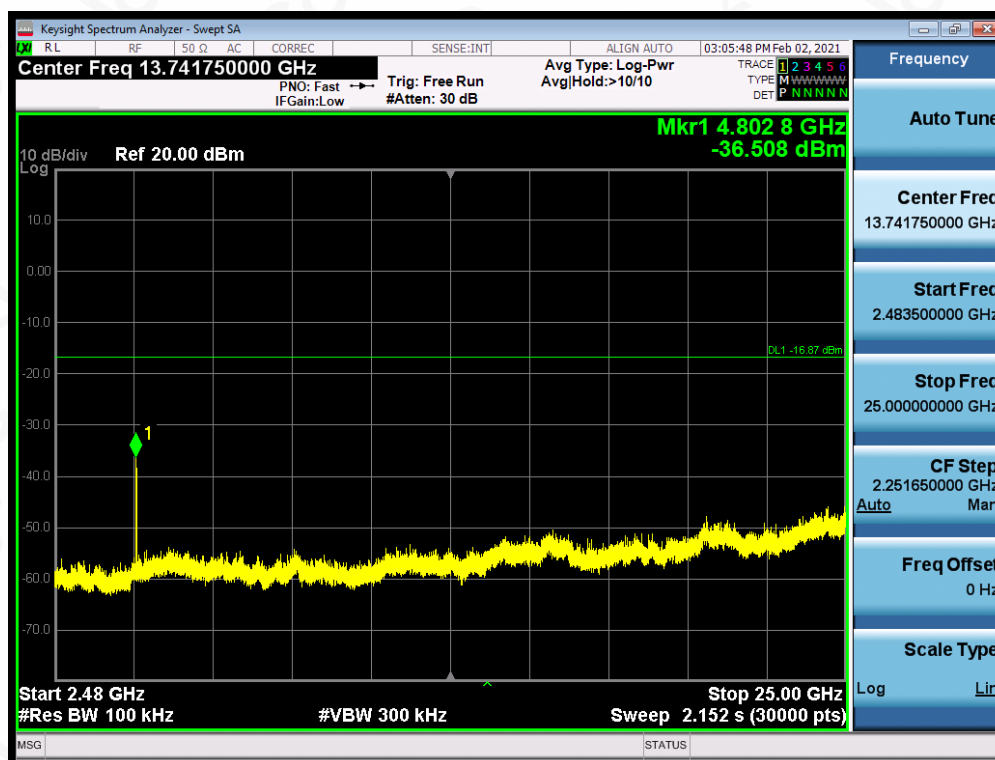
## 2M GFSK MODULATION IN LOW CHANNEL



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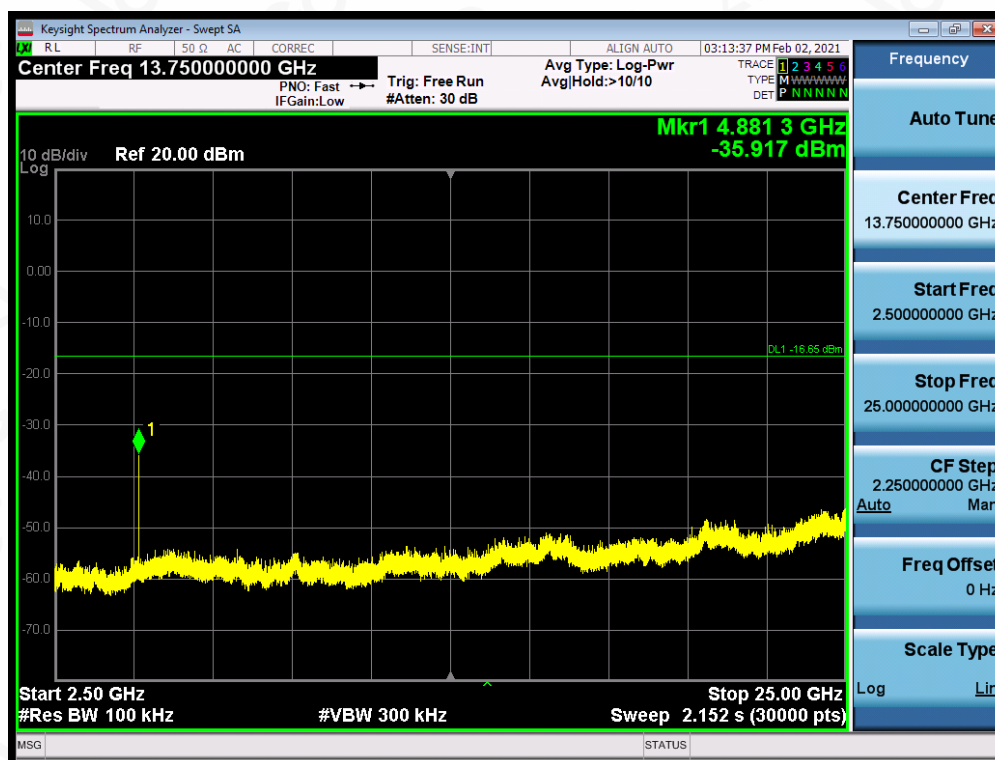
### GFSK MODULATION IN MIDDLE CHANNEL



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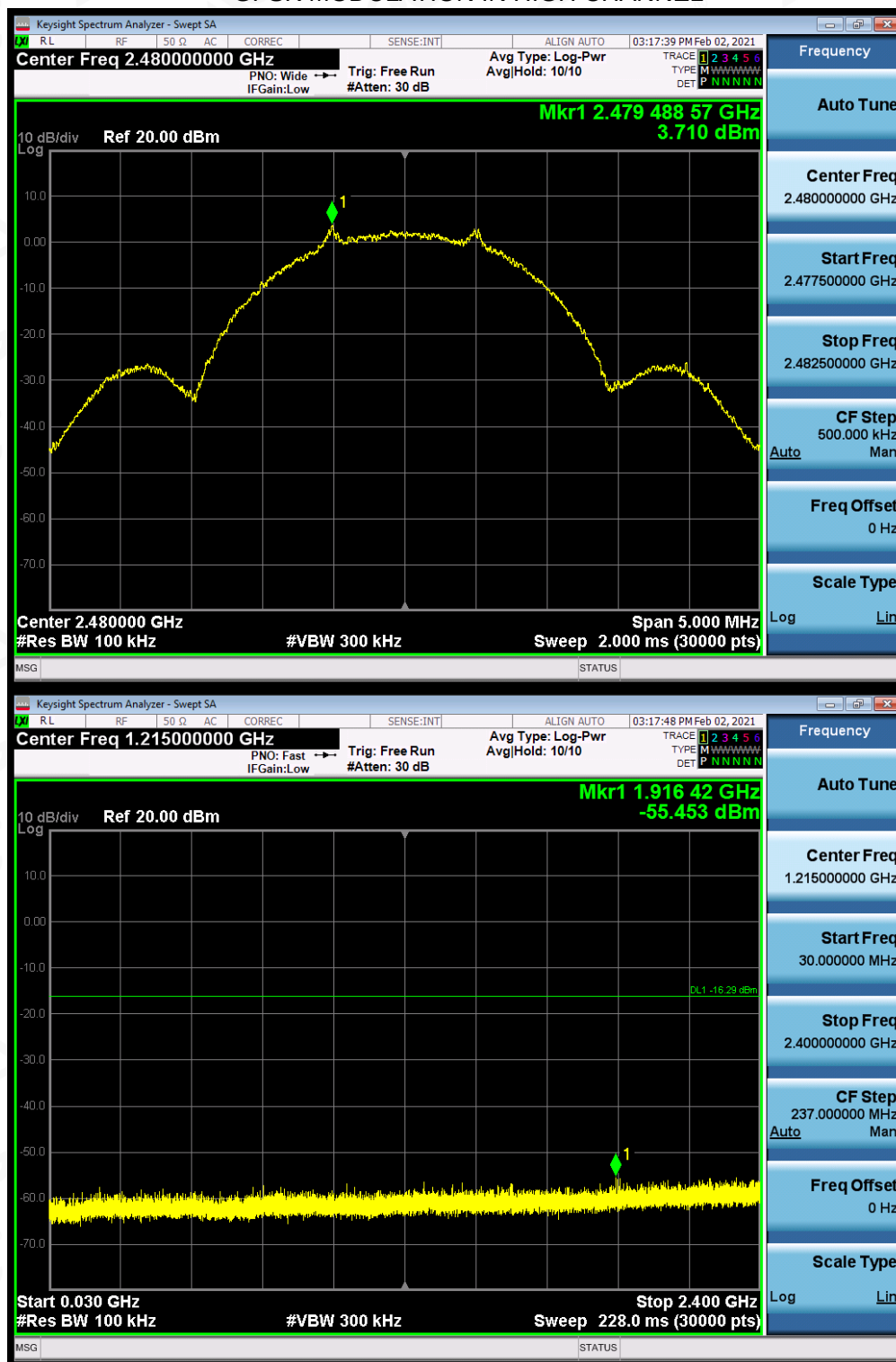


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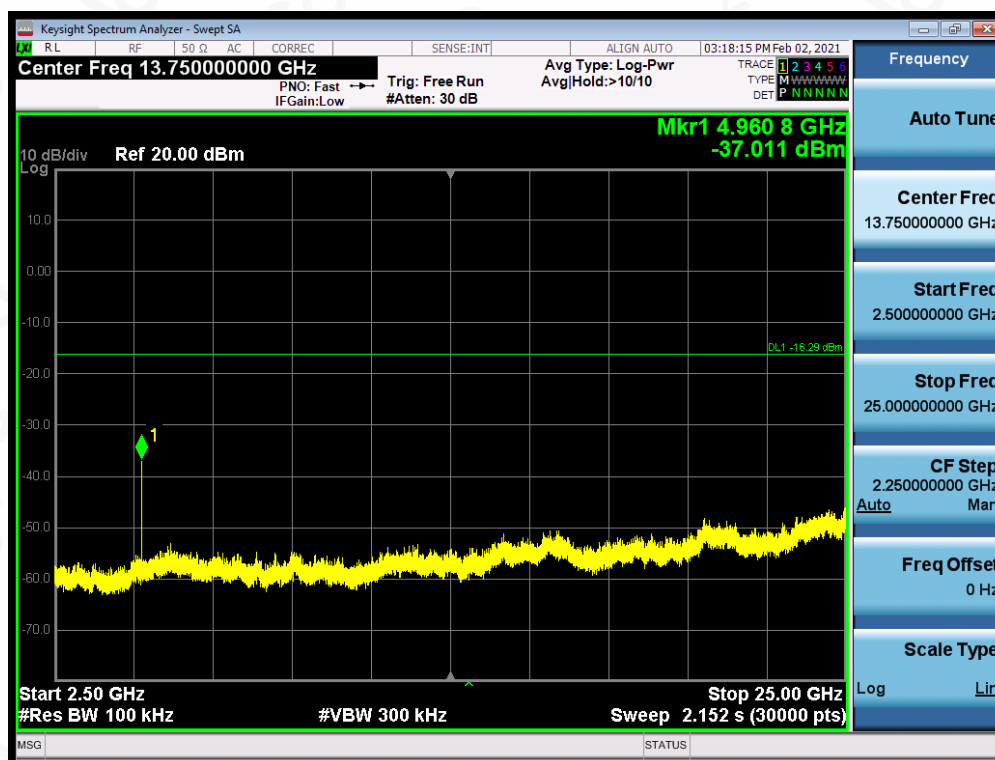
### GFSK MODULATION IN HIGH CHANNEL



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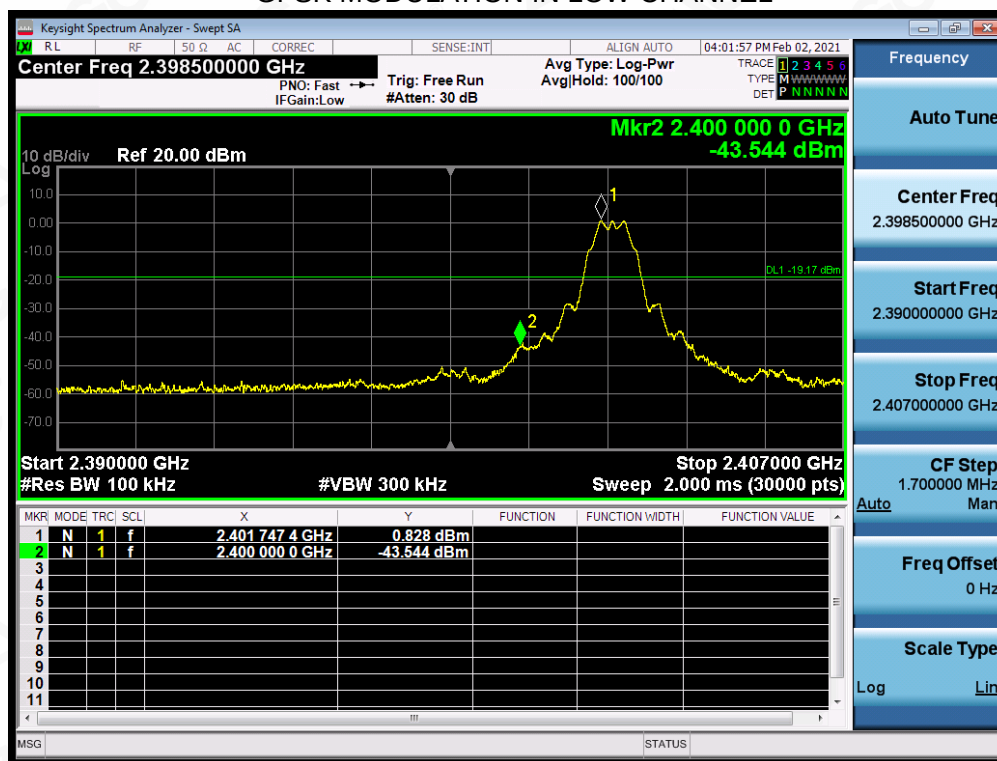


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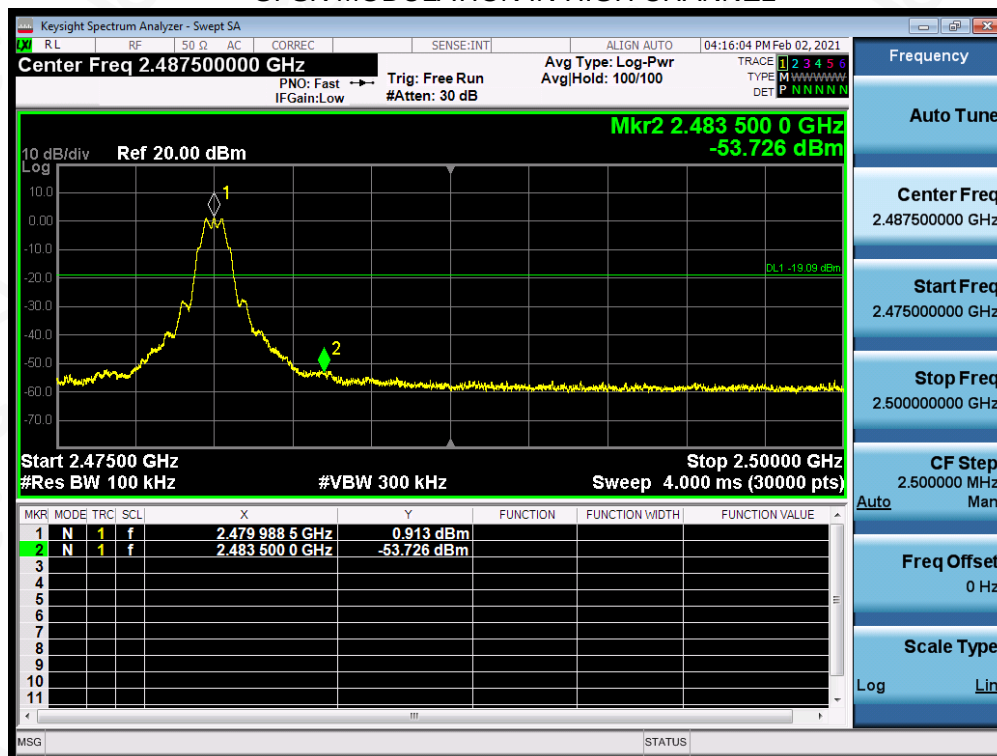
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### TEST RESULT FOR BAND EDGE 125 KHz GFSK MODULATION IN LOW CHANNEL



### GFSK MODULATION IN HIGH CHANNEL



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