



# FCC RF Test Report

APPLICANT : CASTLES TECHNOLOGY CO., LTD.  
EQUIPMENT : Smart Module  
BRAND NAME :   
MODEL NAME : CWM100  
FCC ID : WIYCWM100001  
STANDARD : FCC Part 15 Subpart C §15.247  
CLASSIFICATION : (DSS) Spread Spectrum Transmitter  
TEST DATE(S) : Nov. 21, 2024 ~ Dec. 26, 2024

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



**Sporton International Inc. (Kunshan)**

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300  
People's Republic of China**



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## REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION             | ISSUED DATE   |
|------------|---------|-------------------------|---------------|
| FR4N0518A  | Rev. 01 | Initial issue of report | Jan. 06, 2025 |
|            |         |                         |               |
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## SUMMARY OF TEST RESULT

| Report Section | FCC Rule           | Description                                        | Limit                                  | Result      | Remark                                    |
|----------------|--------------------|----------------------------------------------------|----------------------------------------|-------------|-------------------------------------------|
| 3.1            | 15.247(a)(1)       | Number of Channels                                 | $\geq 15\text{Chs}$                    | Pass        | -                                         |
| 3.2            | 15.247(a)(1)       | Hopping Channel Separation                         | $\geq 2/3$ of 20dB BW                  | Pass        | -                                         |
| 3.3            | 15.247(a)(1)       | Dwell Time of Each Channel                         | $\leq 0.4\text{sec}$ in 31.6sec period | Pass        | -                                         |
| 3.4            | 15.247(a)(1)       | 20dB Bandwidth                                     | -                                      | Report only | -                                         |
| 3.4            | -                  | 99% Bandwidth                                      | -                                      | Report only | -                                         |
| 3.5            | 15.247(b)(1)       | Peak Output Power                                  | $\leq 125\text{ mW}$                   | Pass        | -                                         |
| 3.6            | 15.247(d)          | Conducted Band Edges                               | $\leq 20\text{dBc}$                    | Pass        | -                                         |
| 3.7            | 15.247(d)          | Conducted Spurious Emission                        | $\leq 20\text{dBc}$                    | Pass        | -                                         |
| 3.8            | 15.247(d)          | Radiated Band Edges and Radiated Spurious Emission | 15.209(a) & 15.247(d)                  | Pass        | Under limit<br>10.55 dB at<br>2483.51 MHz |
| 3.9            | 15.207             | AC Conducted Emission                              | 15.207(a)                              | Pass        | Under limit<br>21.46 dB at<br>0.171 MHz   |
| 3.10           | 15.203 & 15.247(b) | Antenna Requirement                                | 15.203 & 15.247(b)                     | Pass        | -                                         |

**Conformity Assessment Condition:**

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

# 1 General Description

## 1.1 Applicant

CASTLES TECHNOLOGY CO., LTD.

6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT, NEW TAIPEI CITY 231030, TAIWAN (R.O.C.)

## 1.2 Manufacturer

CASTLES TECHNOLOGY CO., LTD.

6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT, NEW TAIPEI CITY 231030, TAIWAN (R.O.C.)

## 1.3 Product Feature of Equipment Under Test

| Product Feature |                                                                                    |
|-----------------|------------------------------------------------------------------------------------|
| Equipment       | Smart Module                                                                       |
| Brand Name      |  |
| Model Name      | CWM100                                                                             |
| FCC ID          | WIYCWM100001                                                                       |
| SN Code         | Conducted: 219b107d<br>Conduction: 209b11f8<br>Radiation: 209b11f9                 |
| EUT Stage       | Identical Prototype                                                                |

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

## 1.4 Product Specification of Equipment Under Test

| Standards-related Product Specification |                                                                                                                                            |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Tx/Rx Frequency Range                   | 2402 MHz ~ 2480 MHz                                                                                                                        |
| Number of Channels                      | 79                                                                                                                                         |
| Carrier Frequency of Each Channel       | 2402+n*1 MHz; n=0~78                                                                                                                       |
| Maximum Output Power to Antenna         | Bluetooth BR(1Mbps) : 10.82 dBm (0.0121 W)<br>Bluetooth EDR (2Mbps) : 10.08 dBm (0.0102 W)<br>Bluetooth EDR (3Mbps) : 10.31 dBm (0.0107 W) |
| 99% Occupied Bandwidth                  | Bluetooth BR(1Mbps) : 0.866MHz<br>Bluetooth EDR (2Mbps) : 1.169MHz<br>Bluetooth EDR (3Mbps) : 1.154MHz                                     |
| Antenna Type / Gain                     | PIFA Antenna type with gain 5.4 dBi                                                                                                        |
| Type of Modulation                      | Bluetooth BR (1Mbps) : GFSK<br>Bluetooth EDR (2Mbps) : $\pi/4$ -DQPSK<br>Bluetooth EDR (3Mbps) : 8-DPSK                                    |



## 1.5 Modification of EUT

No modifications are made to the EUT during all test items.

## 1.6 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

|                    |                                                                                                                                                |                     |                                |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------|
| Test Firm          | Sporton International Inc. (Kunshan)                                                                                                           |                     |                                |
| Test Site Location | No. 1098, Pengxi North Road, Kunshan Economic Development Zone<br>Jiangsu Province 215300 People's Republic of China<br>TEL : +86-512-57900158 |                     |                                |
| Test Site No.      | Sporton Site No.                                                                                                                               | FCC Designation No. | FCC Test Firm Registration No. |
|                    | CO01-KS<br>03CH06-KS<br>TH01-KS                                                                                                                | CN1257              | 314309                         |

## 1.7 Test Software

| Item | Site      | Manufacturer | Name                                 | Version     |
|------|-----------|--------------|--------------------------------------|-------------|
| 1.   | TH01-KS   | Tonscend     | JS1120-3 test system<br>China_210602 | 3.3.10      |
| 2.   | 03CH06-KS | AUDIX        | E3                                   | 210616      |
| 3.   | CO01-KS   | AUDIX        | E3                                   | 6.2009-8-24 |

## 1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 15 Subpart C §15.247
- ♦ FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ♦ ANSI C63.10-2013

### Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



## 2 Test Configuration of Equipment Under Test

### 2.1 Carrier Frequency Channel

| Frequency Band  | Channel | Freq.<br>(MHz) | Channel | Freq.<br>(MHz) | Channel | Freq.<br>(MHz) |
|-----------------|---------|----------------|---------|----------------|---------|----------------|
| 2400-2483.5 MHz | 0       | 2402           | 27      | 2429           | 54      | 2456           |
|                 | 1       | 2403           | 28      | 2430           | 55      | 2457           |
|                 | 2       | 2404           | 29      | 2431           | 56      | 2458           |
|                 | 3       | 2405           | 30      | 2432           | 57      | 2459           |
|                 | 4       | 2406           | 31      | 2433           | 58      | 2460           |
|                 | 5       | 2407           | 32      | 2434           | 59      | 2461           |
|                 | 6       | 2408           | 33      | 2435           | 60      | 2462           |
|                 | 7       | 2409           | 34      | 2436           | 61      | 2463           |
|                 | 8       | 2410           | 35      | 2437           | 62      | 2464           |
|                 | 9       | 2411           | 36      | 2438           | 63      | 2465           |
|                 | 10      | 2412           | 37      | 2439           | 64      | 2466           |
|                 | 11      | 2413           | 38      | 2440           | 65      | 2467           |
|                 | 12      | 2414           | 39      | 2441           | 66      | 2468           |
|                 | 13      | 2415           | 40      | 2442           | 67      | 2469           |
|                 | 14      | 2416           | 41      | 2443           | 68      | 2470           |
|                 | 15      | 2417           | 42      | 2444           | 69      | 2471           |
|                 | 16      | 2418           | 43      | 2445           | 70      | 2472           |
|                 | 17      | 2419           | 44      | 2446           | 71      | 2473           |
|                 | 18      | 2420           | 45      | 2447           | 72      | 2474           |
|                 | 19      | 2421           | 46      | 2448           | 73      | 2475           |
|                 | 20      | 2422           | 47      | 2449           | 74      | 2476           |
|                 | 21      | 2423           | 48      | 2450           | 75      | 2477           |
|                 | 22      | 2424           | 49      | 2451           | 76      | 2478           |
|                 | 23      | 2425           | 50      | 2452           | 77      | 2479           |
|                 | 24      | 2426           | 51      | 2453           | 78      | 2480           |
|                 | 25      | 2427           | 52      | 2454           | -       | -              |
|                 | 26      | 2428           | 53      | 2455           | -       | -              |

## 2.2 Test Mode

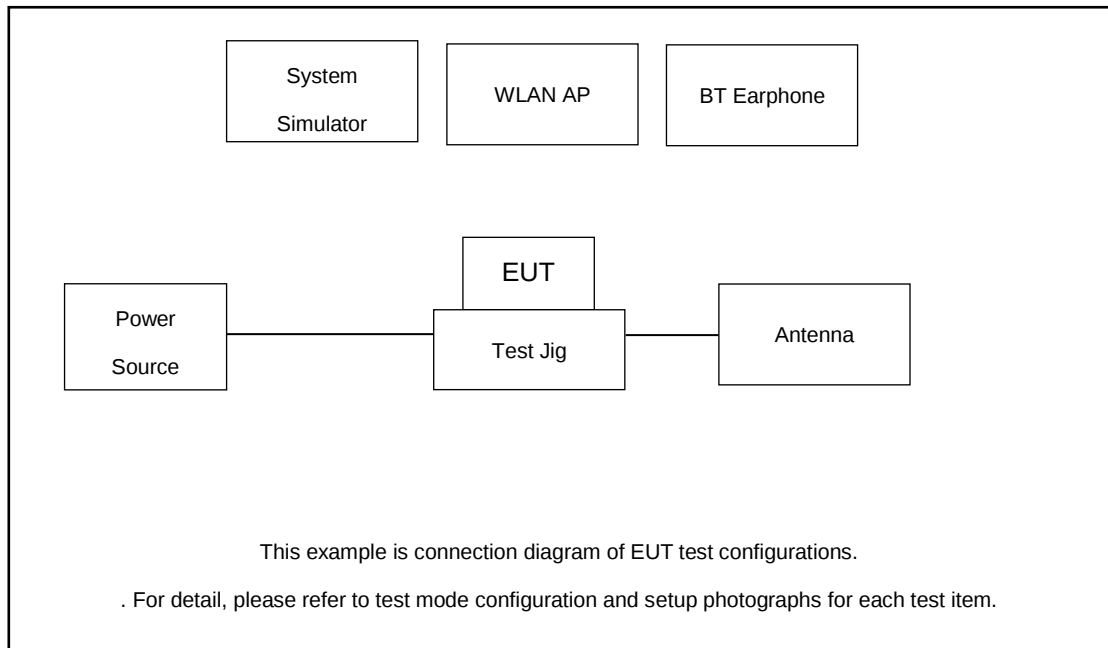
- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report, and the worst mode of radiated spurious emissions is Bluetooth 1Mbps mode, and recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

The following summary table is showing all test modes to demonstrate in compliance with the standard.

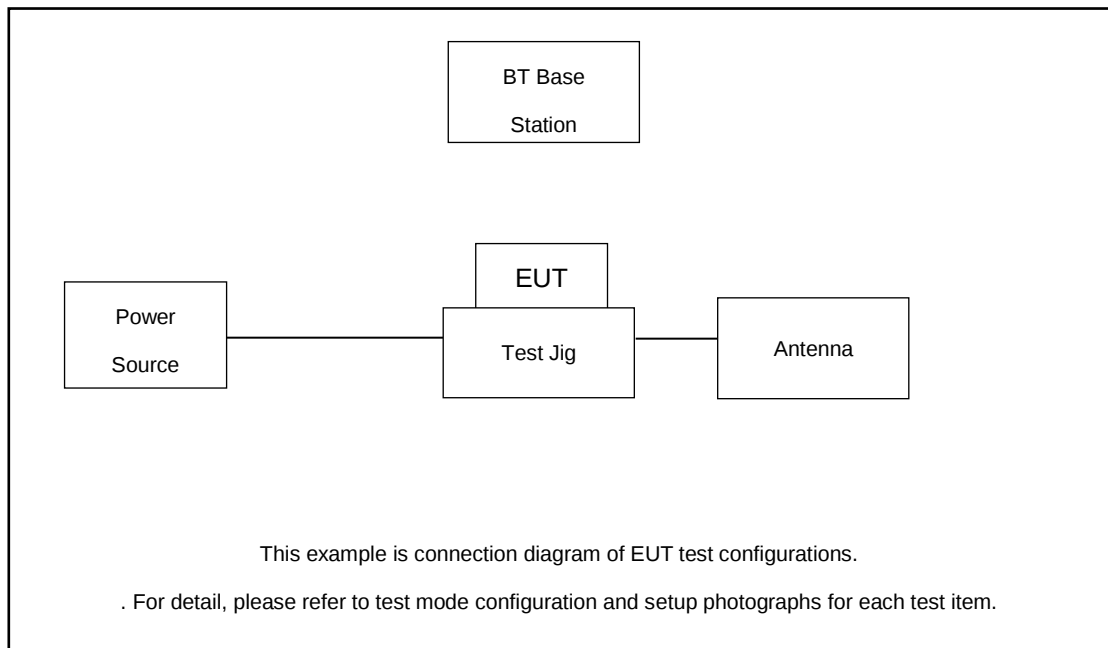
| Summary table of Test Cases                                                                                                                                                                                                             |                                                                         |                                       |                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------|-------------------------------|
| Test Item                                                                                                                                                                                                                               | Data Rate / Modulation                                                  |                                       |                               |
|                                                                                                                                                                                                                                         | Bluetooth BR 1Mbps<br>GFSK                                              | Bluetooth EDR 2Mbps<br>$\pi/4$ -DQPSK | Bluetooth EDR 3Mbps<br>8-DPSK |
| Conducted<br>Test Cases                                                                                                                                                                                                                 | Mode 1: CH00_2402 MHz                                                   | Mode 4: CH00_2402 MHz                 | Mode 7: CH00_2402 MHz         |
|                                                                                                                                                                                                                                         | Mode 2: CH39_2441 MHz                                                   | Mode 5: CH39_2441 MHz                 | Mode 8: CH39_2441 MHz         |
|                                                                                                                                                                                                                                         | Mode 3: CH78_2480 MHz                                                   | Mode 6: CH78_2480 MHz                 | Mode 9: CH78_2480 MHz         |
| Radiated<br>Test Cases                                                                                                                                                                                                                  | Bluetooth BR 1Mbps GFSK                                                 |                                       |                               |
|                                                                                                                                                                                                                                         | Mode 1: CH00_2402 MHz<br>Mode 2: CH39_2441 MHz<br>Mode 3: CH78_2480 MHz |                                       |                               |
| AC<br>Conducted<br>Emission                                                                                                                                                                                                             | Mode 1 : WCDMA Band V + BT Link + WLAN Link(2.4G) + Test Jig + Adapter  |                                       |                               |
| Remark:                                                                                                                                                                                                                                 |                                                                         |                                       |                               |
| 1. For radiated test cases, the worst mode data rate 1Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission. |                                                                         |                                       |                               |
| 2. For Radiated Test Cases, The tests were performed with Adapter .                                                                                                                                                                     |                                                                         |                                       |                               |

## 2.3 Connection Diagram of Test System

AC Conducted Emission:



Radiated Emission:



## 2.4 Support Unit used in test configuration and system

| Item | Equipment          | Trade Name | Model Name    | FCC ID        | Data Cable | Power Cord                                                  |
|------|--------------------|------------|---------------|---------------|------------|-------------------------------------------------------------|
| 1.   | BT Base Station    | R&S        | CBT           | N/A           | N/A        | Unshielded, 1.8m                                            |
| 2.   | Notebook           | Lenovo     | G480          | QDS-BRCM1050I | N/A        | Shielded cable DC O/P 1.8m,<br>Unshielded AC I/P cable 1.8m |
| 3.   | WLAN AP            | D-link     | DIR-655       | KA21R655B1    | N/A        | Unshielded,1.8m                                             |
| 4.   | Bluetooth Earphone | Lenovo     | thinkplus-BH3 | N/A           | N/A        | N/A                                                         |
| 5.   | SD Card            | Kingston   | 8GB           | N/A           | N/A        | N/A                                                         |
| 6.   | Test Jig           | N/A        | N/A           | N/A           | N/A        | N/A                                                         |
| 7.   | Antenna            | N/A        | N/A           | N/A           | N/A        | N/A                                                         |
| 8.   | Adapter            | N/A        | N/A           | N/A           | N/A        | N/A                                                         |
| 9.   | USB Cable          | N/A        | N/A           | N/A           | N/A        | N/A                                                         |
| 10.  | Battery            | N/A        | N/A           | N/A           | N/A        | N/A                                                         |

## 2.5 EUT Operation Test Setup

For Bluetooth function, the engineering test program was provided and enabled to make EUT connect with Bluetooth base station to continuous transmit.

For AC power line conducted emissions, the EUT was set to connect with the BT Earphone under large package sizes transmission.

## 2.6 Measurement Results Explanation Example

**For all conducted test items:**

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 1.86 dB and 20dB attenuator.

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 1.86 + 20 = 21.86 \text{ (dB)}
 \end{aligned}$$

### 3 Test Result

#### 3.1 Number of Channel Measurement

##### 3.1.1 Limits of Number of Hopping Frequency

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

##### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

##### 3.1.3 Test Procedure

1. The testing follows ANSI C63.10-2013 clause 7.8.3.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings: Span = the frequency band of operation;  
RBW = 300kHz; VBW  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold.
6. The number of hopping frequency used is defined as the number of total channel.
7. Record the measurement data derived from spectrum analyzer.

##### 3.1.4 Test Setup



##### 3.1.5 Test Result of Number of Hopping Frequency

Please refer to Appendix A.

## 3.2 Hopping Channel Separation Measurement

### 3.2.1 Limit of Hopping Channel Separation

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

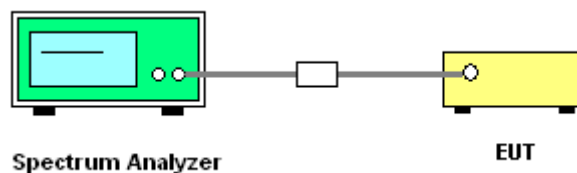
### 3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

### 3.2.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 7.8.2.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings:  
Span = wide enough to capture the peaks of two adjacent channels;  
RBW = 300kHz; VBW  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold.
6. Measure and record the results in the test report.

### 3.2.4 Test Setup



### 3.2.5 Test Result of Hopping Channel Separation

Please refer to Appendix A.

### 3.3 Dwell Time Measurement

#### 3.3.1 Limit of Dwell Time

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

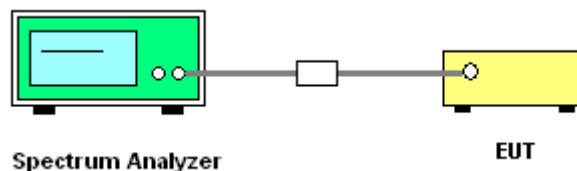
#### 3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.3.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 7.8.4.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW = 1 MHz; VBW  $\geq$  RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold.
6. Measure and record the results in the test report.

#### 3.3.4 Test Setup



#### 3.3.5 Test Result of Dwell Time

Please refer to Appendix A.

### 3.4 20dB and 99% Bandwidth Measurement

#### 3.4.1 Limit of 20dB and 99% Bandwidth

Reporting only

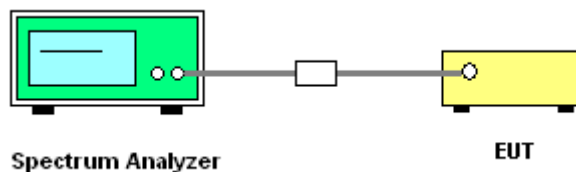
#### 3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.4.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 6.9.2 and 6.9.3.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Use the following spectrum analyzer settings for 20dB Bandwidth measurement.  
Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel;  
The RBW is set to 1% to 5% of the 99% OBW, the VBW is set to 3 times the RBW;  
Sweep = auto; Detector function = peak;  
Trace = max hold.
5. Use the following spectrum analyzer settings for 99 % Bandwidth measurement.  
Span = approximately 1.5 to 5 times the 99% bandwidth, centered on a hopping channel;  
The RBW is set to 1% to 5% of the 99% OBW, the VBW is set to 3 times the RBW;  
Sweep = auto; Detector function = peak;  
Trace = max hold.
6. Measure and record the results in the test report.

#### 3.4.4 Test Setup



#### 3.4.5 Test Result of 20dB and 99% Occupied Bandwidth

Please refer to Appendix A.

## 3.5 Output Power Measurement

### 3.5.1 Limit of Output Power

The maximum peak conducted output power of the intentional radiator shall not exceed the following:  
For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts.

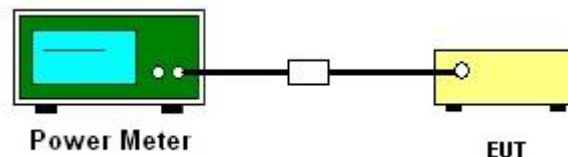
### 3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

### 3.5.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 7.8.5.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power with cable loss and record the results in the test report.
5. Measure and record the results in the test report.

### 3.5.4 Test Setup



### 3.5.5 Test Result of Peak Output Power

Please refer to Appendix A.

## 3.6 Conducted Band Edges Measurement

### 3.6.1 Limit of Band Edges

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

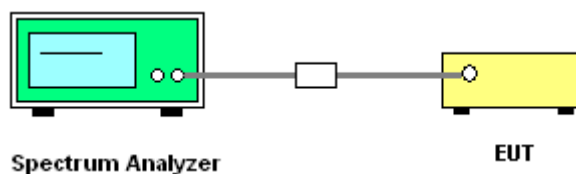
### 3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

### 3.6.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 7.8.6.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Set RBW = 100kHz, VBW = 300kHz. Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.
4. Enable hopping function of the EUT and then repeat step 2. and 3.
5. Measure and record the results in the test report.

### 3.6.4 Test Setup



### 3.6.5 Test Result of Conducted Band Edges

Please refer to Appendix A.

### 3.6.6 Test Result of Conducted Hopping Mode Band Edges

Please refer to Appendix A.

## 3.7 Conducted Spurious Emission Measurement

### 3.7.1 Limit of Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

### 3.7.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

### 3.7.3 Test Procedure

1. The testing follows ANSI C63.10-2013 clause 7.8.8.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

### 3.7.4 Test Setup



### 3.7.5 Test Result of Conducted Spurious Emission

Please refer to Appendix A.

### 3.8 Radiated Band Edges and Spurious Emission Measurement

#### 3.8.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

| Frequency<br>(MHz) | Field Strength<br>(microvolts/meter) | Measurement Distance<br>(meters) |
|--------------------|--------------------------------------|----------------------------------|
| 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                                |

#### 3.8.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.



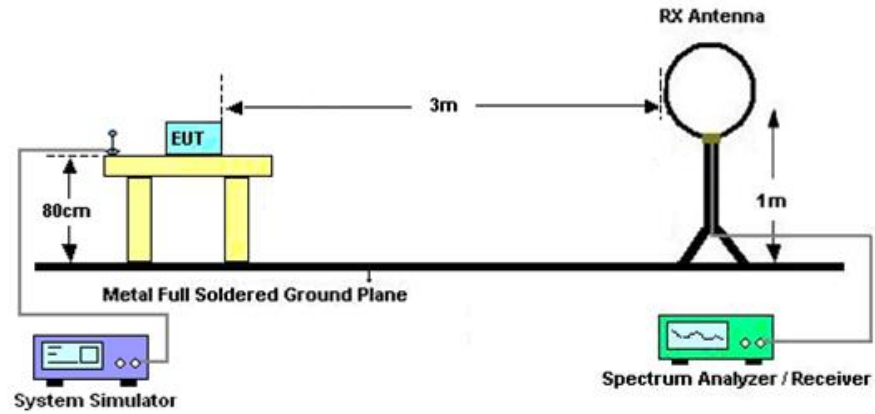
### 3.8.3 Test Procedures

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
4. Set to the maximum power setting and enable the EUT transmit continuously.
5. Use the following spectrum analyzer settings:
  - (1) Span shall wide enough to fully capture the emission being measured;
  - (2) Set RBW=100 kHz for  $f < 1$  GHz, RBW=1MHz for  $f > 1$ GHz ; VBW  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak
  - (3) For average measurement: use duty cycle correction factor method per 15.35(c).  
Duty cycle = On time/100 milliseconds  
$$\text{On time} = N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n$$
  
Where  $N_1$  is number of type 1 pulses,  $L_1$  is length of type 1 pulses, etc.  
Average Emission Level = Peak Emission Level +  $20 * \log(\text{Duty cycle})$
6. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
7. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
8. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

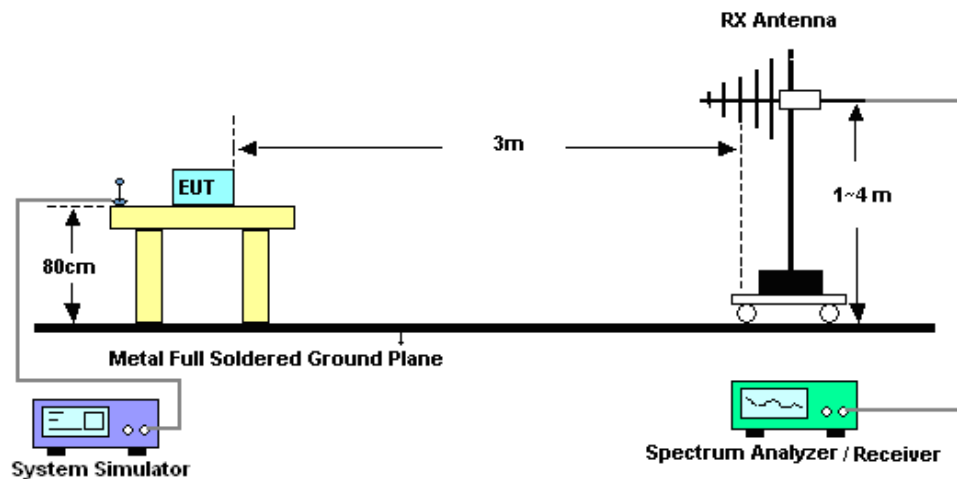
Note: The average levels were calculated from the peak level corrected with duty cycle correction factor (-24.76dB) derived from  $20 \log(\text{dwell time}/100\text{ms})$ . This correction is only for signals that hop with the fundamental signal, such as band-edge and harmonic. Other spurious signals that are independent of the hopping signal would not use this correction.

### 3.8.4 Test Setup

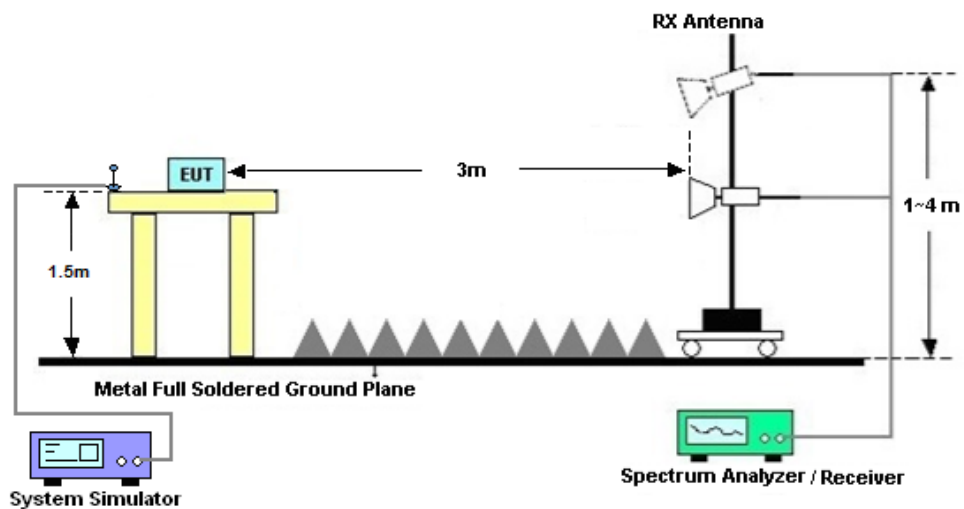
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



**3.8.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)**

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

**3.8.6 Test Result of Radiated Spurious at Band Edges**

Please refer to Appendix C.

**3.8.7 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)**

Please refer to Appendix C.

**3.8.8 Duty cycle correction factor for average measurement**

Please refer to Appendix D.

### 3.9 AC Conducted Emission Measurement

#### 3.9.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

| Frequency of emission (MHz) | Conducted limit (dBμV) |           |
|-----------------------------|------------------------|-----------|
|                             | Quasi-peak             | Average   |
| 0.15-0.5                    | 66 to 56*              | 56 to 46* |
| 0.5-5                       | 56                     | 46        |
| 5-30                        | 60                     | 50        |

\*Decreases with the logarithm of the frequency.

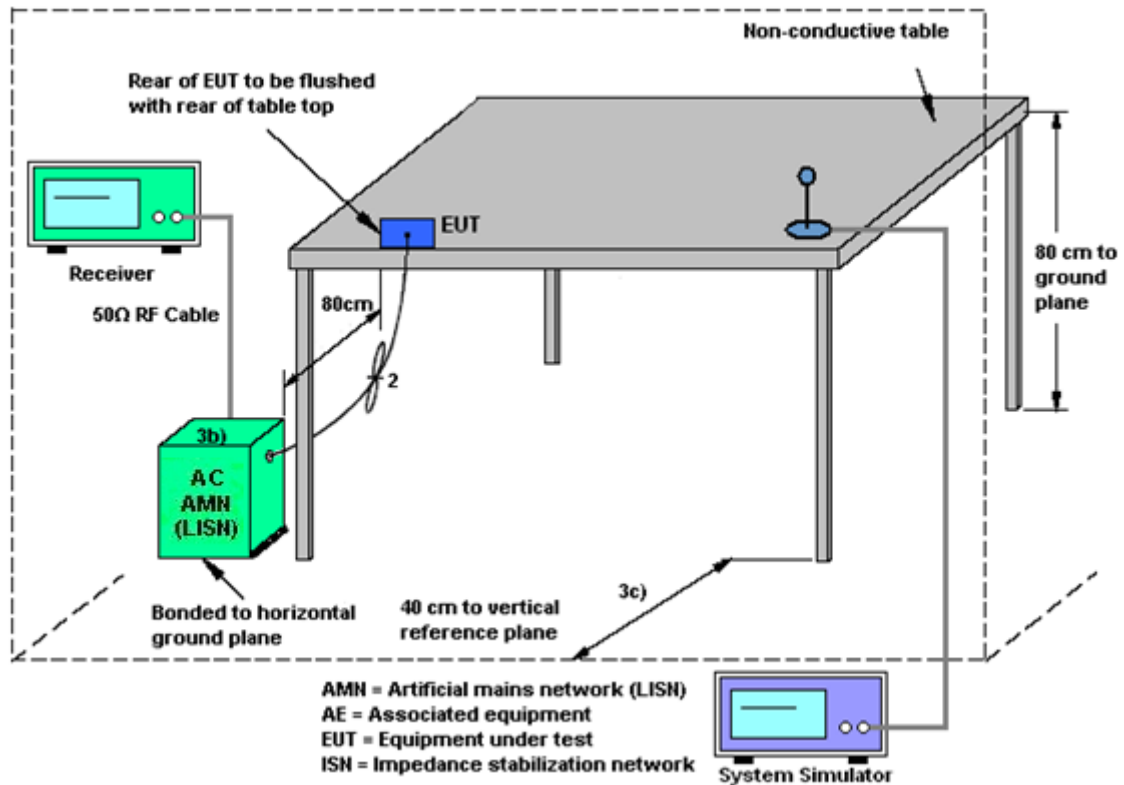
#### 3.9.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.9.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

### 3.9.4 Test Setup



### 3.9.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



## **3.10 Antenna Requirements**

### **3.10.1 Standard Applicable**

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

### **3.10.2 Antenna Anti-Replacement Construction**

An embedded-in antenna design is used.

### **3.10.3 Antenna Gain**

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



## 4 List of Measuring Equipment

| Instrument                        | Manufacturer | Model No.              | Serial No.   | Characteristics         | Calibration Date | Test Date                   | Due Date      | Remark                |
|-----------------------------------|--------------|------------------------|--------------|-------------------------|------------------|-----------------------------|---------------|-----------------------|
| EMI Test Receiver                 | Keysight     | N9038A                 | MY56400023   | 3Hz~8.5GHz;Max 30dBm    | Jan. 02, 2024    | Nov. 29, 2024~Dec. 01, 2024 | Jan. 01, 2025 | Radiation (03CH06-KS) |
| EXA Spectrum Analyzer             | Keysight     | N9010B                 | MY57471084   | 10Hz~44GHz              | Jul. 04, 2024    | Nov. 29, 2024~Dec. 01, 2024 | Jul. 03, 2025 | Radiation (03CH06-KS) |
| Loop Antenna                      | R&S          | HFH2-Z2E               | 101125       | 9kHz~30MHz              | Sep. 08, 2024    | Nov. 29, 2024~Dec. 01, 2024 | Sep. 07, 2025 | Radiation (03CH06-KS) |
| Bilog Antenna                     | TeseQ        | CBL6111D               | 59913        | 30MHz~1GHz              | Sep. 03, 2024    | Nov. 29, 2024~Dec. 01, 2024 | Sep. 02, 2025 | Radiation (03CH06-KS) |
| Double Ridge Horn Antenna         | ETS-Lindgren | 3117                   | 00218652     | 1GHz~18GHz              | Apr. 11, 2024    | Nov. 29, 2024~Dec. 01, 2024 | Apr. 10, 2025 | Radiation (03CH06-KS) |
| SHF-EHF Horn                      | Com-power    | AH-840                 | 101093       | 18GHz~40GHz             | Jan. 06, 2024    | Nov. 29, 2024~Dec. 01, 2024 | Jan. 05, 2025 | Radiation (03CH06-KS) |
| Amplifier                         | SONOMA       | 310N                   | 372171       | 9KHz ~1GHZ              | Jan. 02, 2024    | Nov. 29, 2024~Dec. 01, 2024 | Jan. 01, 2025 | Radiation (03CH06-KS) |
| Amplifier                         | EM           | EM18G40GA              | 060728       | 18~40GHz                | Jan. 02, 2024    | Nov. 29, 2024~Dec. 01, 2024 | Jan. 01, 2025 | Radiation (03CH06-KS) |
| high gain Amplifier               | MITEQ        | AMF-7D-00101800-30-10P | 2082395      | 1Ghz-18Ghz              | Jan. 02, 2024    | Nov. 29, 2024~Dec. 01, 2024 | Jan. 01, 2025 | Radiation (03CH06-KS) |
| Amplifier                         | Keysight     | 83017A                 | MY57280119   | 500MHz~26.5GHz          | Oct. 09, 2024    | Nov. 29, 2024~Dec. 01, 2024 | Oct. 08, 2025 | Radiation (03CH06-KS) |
| AC Power Source                   | Chroma       | 61601                  | F104090004   | N/A                     | NCR              | Nov. 29, 2024~Dec. 01, 2024 | NCR           | Radiation (03CH06-KS) |
| Turn Table                        | ChamPro      | EM 1000-T              | 060762-T     | 0~360 degree            | NCR              | Nov. 29, 2024~Dec. 01, 2024 | NCR           | Radiation (03CH06-KS) |
| Antenna Mast                      | ChamPro      | EM 1000-A              | 060762-A     | 1 m~4 m                 | NCR              | Nov. 29, 2024~Dec. 01, 2024 | NCR           | Radiation (03CH06-KS) |
| EMI Receiver                      | R&S          | ESC17                  | 100768       | 9kHz~7GHz;              | Apr. 18, 2024    | Dec. 01, 2024               | Apr. 17, 2025 | Conduction (CO01-KS)  |
| AC LISN (for auxiliary equipment) | MessTec      | AN3016                 | 060103       | 9kHz~30MHz              | Aug. 20, 2024    | Dec. 01, 2024               | Aug. 19, 2025 | Conduction (CO01-KS)  |
| AC LISN                           | MessTec      | AN3016                 | 060105       | 9kHz~30MHz              | Apr. 18, 2024    | Dec. 01, 2024               | Apr. 17, 2025 | Conduction (CO01-KS)  |
| AC Power Source                   | Chroma       | 61602                  | ABP000000811 | AC 0V~300V, 45Hz~1000Hz | Oct. 09, 2024    | Dec. 01, 2024               | Oct. 08, 2025 | Conduction (CO01-KS)  |
| Spectrum Analyzer                 | R&S          | FSV40                  | 101040       | 10Hz~40GHz              | Oct. 10, 2024    | Nov. 21, 2024~Dec. 26, 2024 | Oct. 09, 2025 | Conducted (TH01-KS)   |
| Pulse Power Sensor                | Anritsu      | MA2411B                | 0917070      | 300MHz~40GHz            | Jan. 02, 2024    | Nov. 21, 2024~Dec. 26, 2024 | Jan. 01, 2025 | Conducted (TH01-KS)   |
| Power Meter                       | Anritsu      | ML2495A                | 1005002      | 50MHz Bandwidth         | Jan. 02, 2024    | Nov. 21, 2024~Dec. 26, 2024 | Jan. 01, 2025 | Conducted (TH01-KS)   |

NCR: No Calibration Required

## 5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

### Uncertainty of Conducted Measurement

|                                        |          |
|----------------------------------------|----------|
| Conducted Spurious Emission & Bandedge | ±2.22 dB |
| Occupied Channel Bandwidth             | ±0.1%    |
| Conducted Power                        | ±0.50 dB |
| Conducted Power Spectral Density       | ±0.90 dB |
| Frequency                              | ±0.04 Hz |

### Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

|                                                                     |         |
|---------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 2.84 dB |
|---------------------------------------------------------------------|---------|

### Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

|                                                                     |         |
|---------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 3.30 dB |
|---------------------------------------------------------------------|---------|

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

|                                                                     |         |
|---------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 6.06 dB |
|---------------------------------------------------------------------|---------|

### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

|                                                                     |         |
|---------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 5.18 dB |
|---------------------------------------------------------------------|---------|

### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

|                                                                     |         |
|---------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 5.38 dB |
|---------------------------------------------------------------------|---------|

----- THE END -----



## **Appendix A. Conducted Test Results**



Ambient Condition: 25 °C, 45 %RH

Test Date: 2024/11/21~12/26

Test Engineer: Jacob Zhang

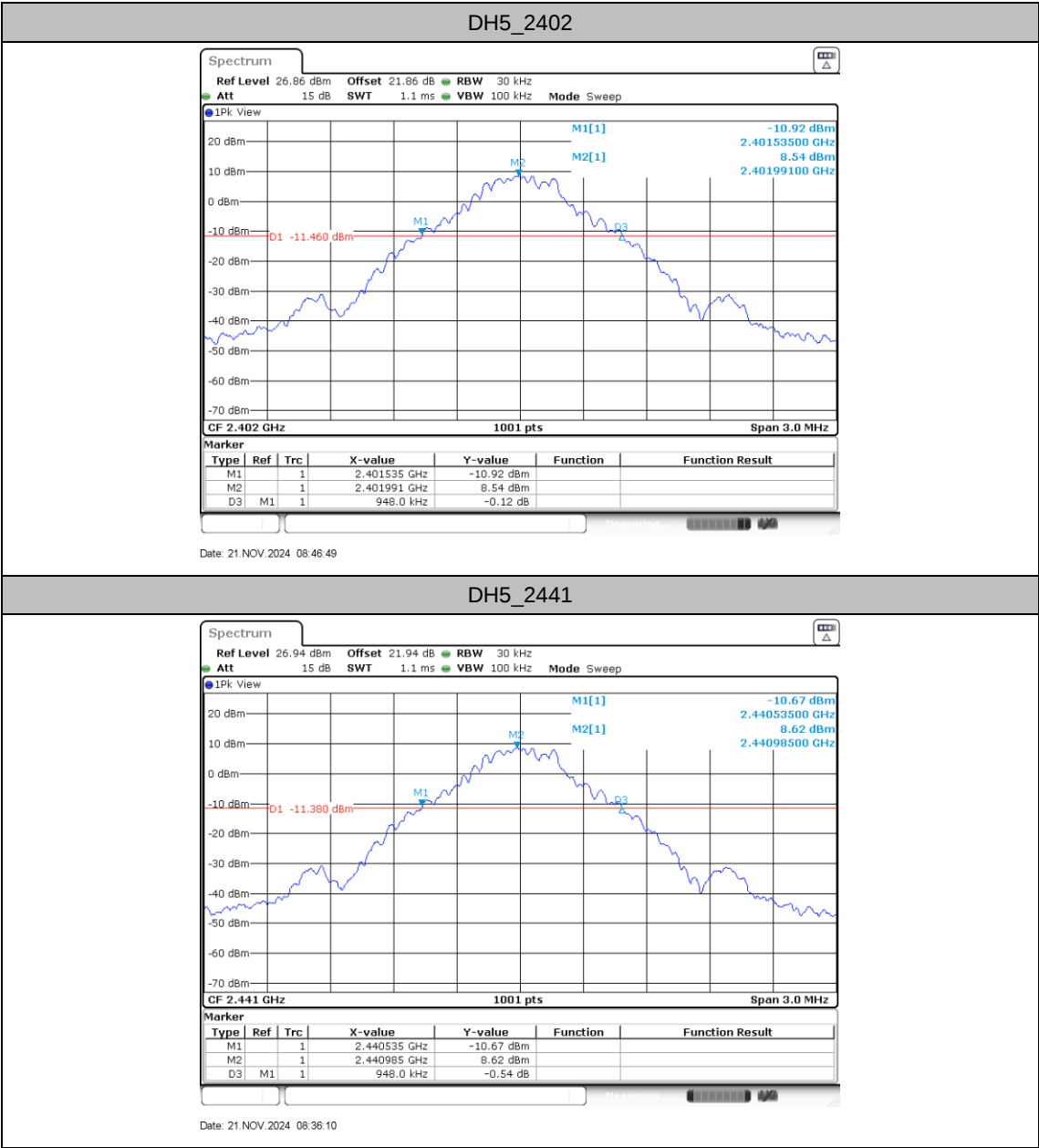
## 20dB Emission Bandwidth

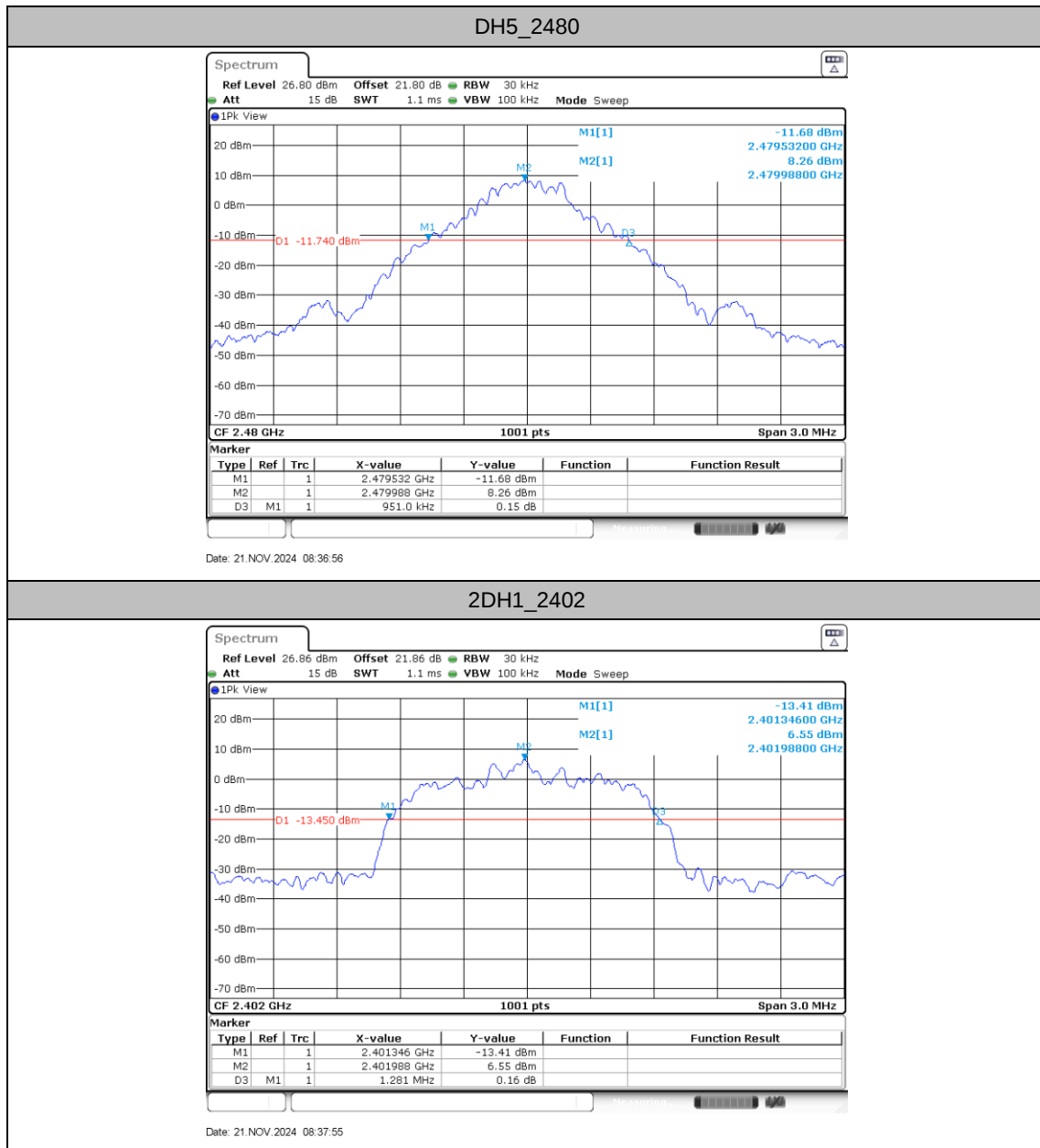
### Test Result

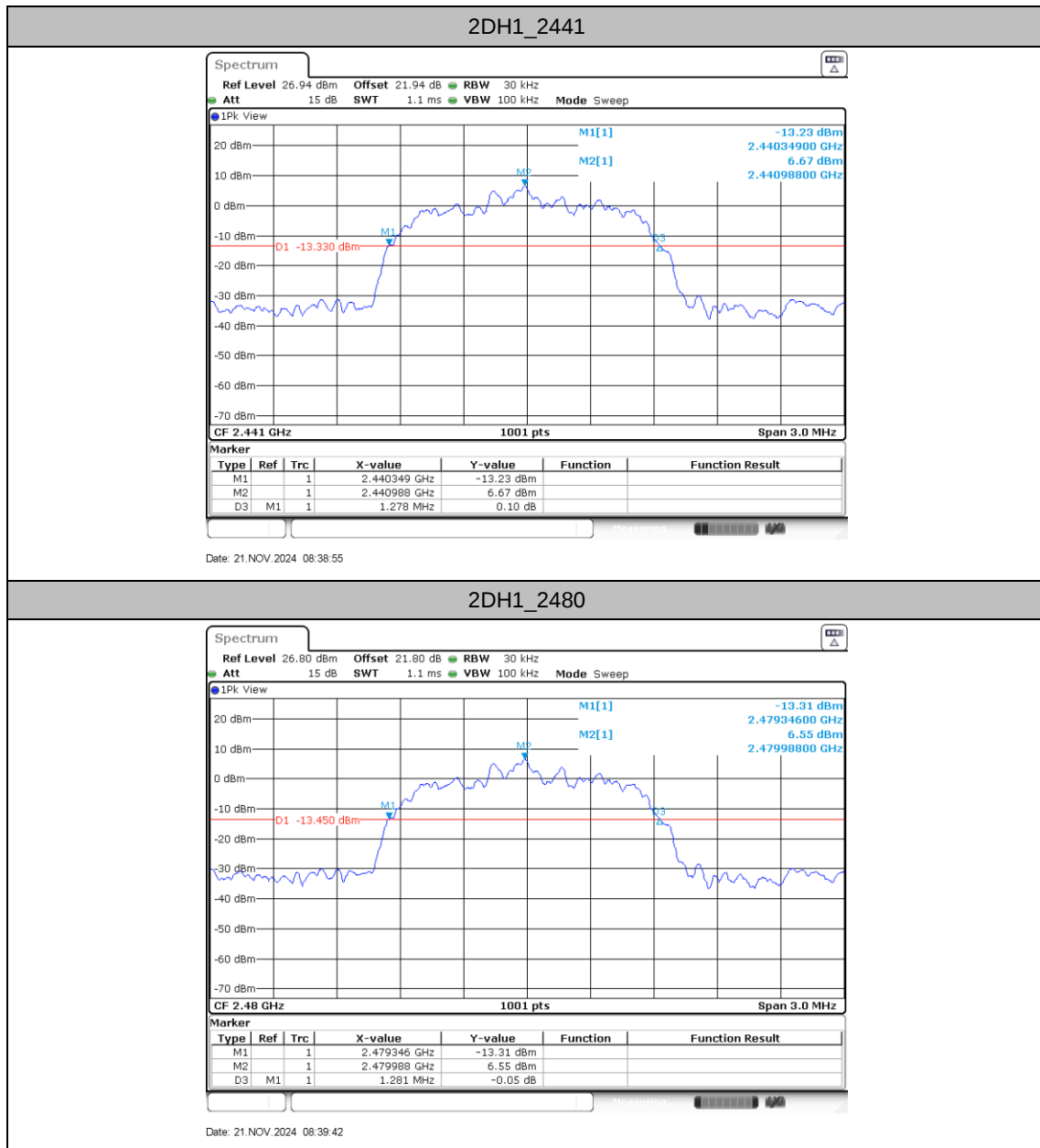
| TestMode | Freq(MHz) | 20dB EBW[MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|----------|-----------|---------------|---------|---------|------------|---------|
| DH5      | 2402      | 0.95          | 2401.54 | 2402.48 | ---        | ---     |
|          | 2441      | 0.95          | 2440.54 | 2441.48 | ---        | ---     |
|          | 2480      | 0.95          | 2479.53 | 2480.48 | ---        | ---     |
| 2DH1     | 2402      | 1.28          | 2401.35 | 2402.63 | ---        | ---     |
|          | 2441      | 1.28          | 2440.35 | 2441.63 | ---        | ---     |
|          | 2480      | 1.28          | 2479.35 | 2480.63 | ---        | ---     |
| 3DH1     | 2402      | 1.24          | 2401.39 | 2402.63 | ---        | ---     |
|          | 2441      | 1.24          | 2440.39 | 2441.63 | ---        | ---     |
|          | 2480      | 1.24          | 2479.39 | 2480.63 | ---        | ---     |

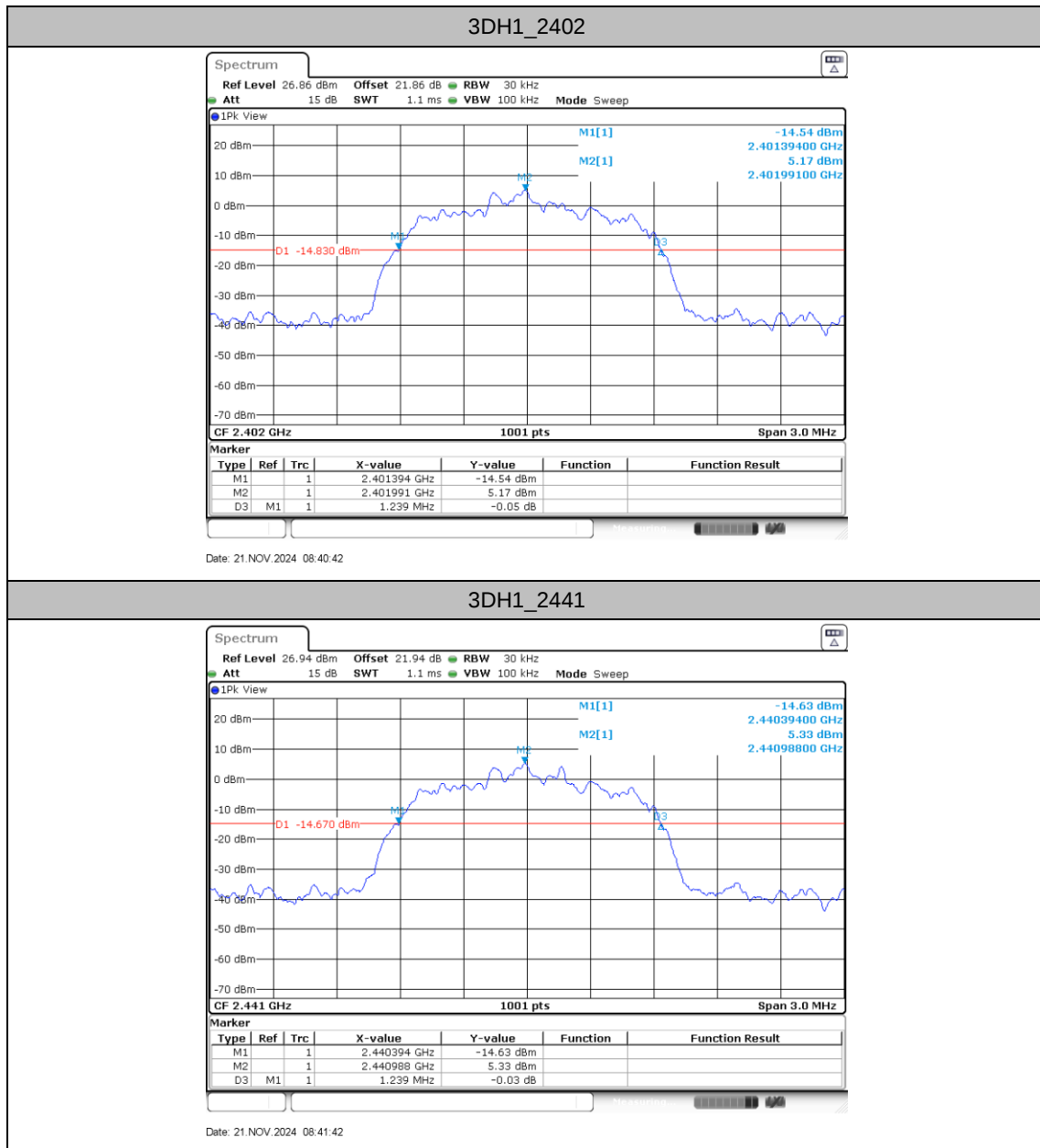


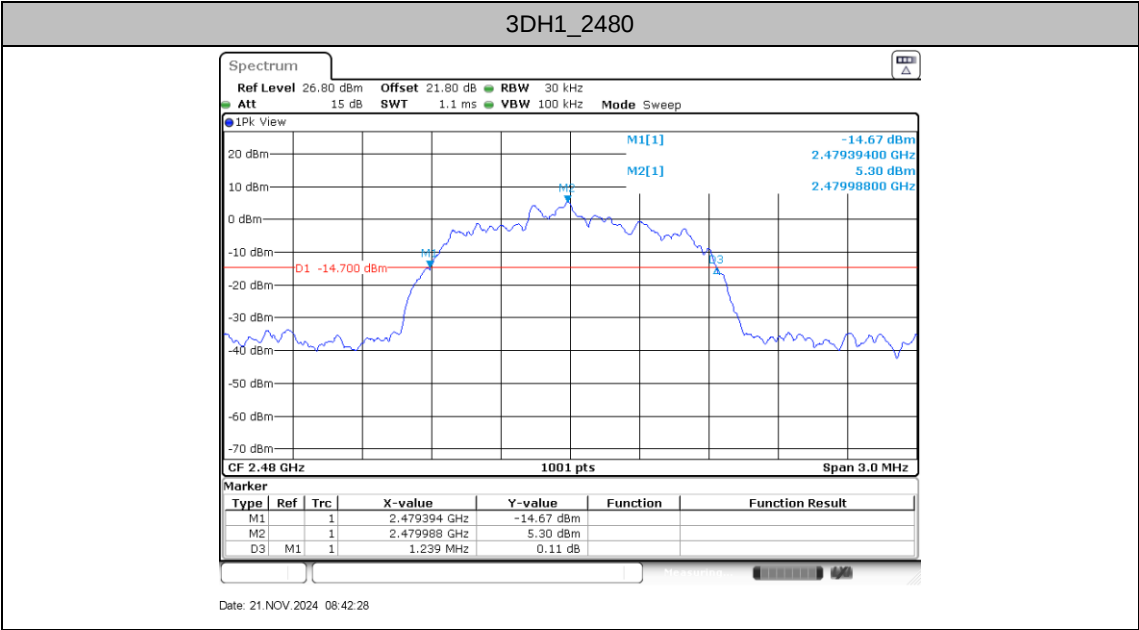
Test Graphs













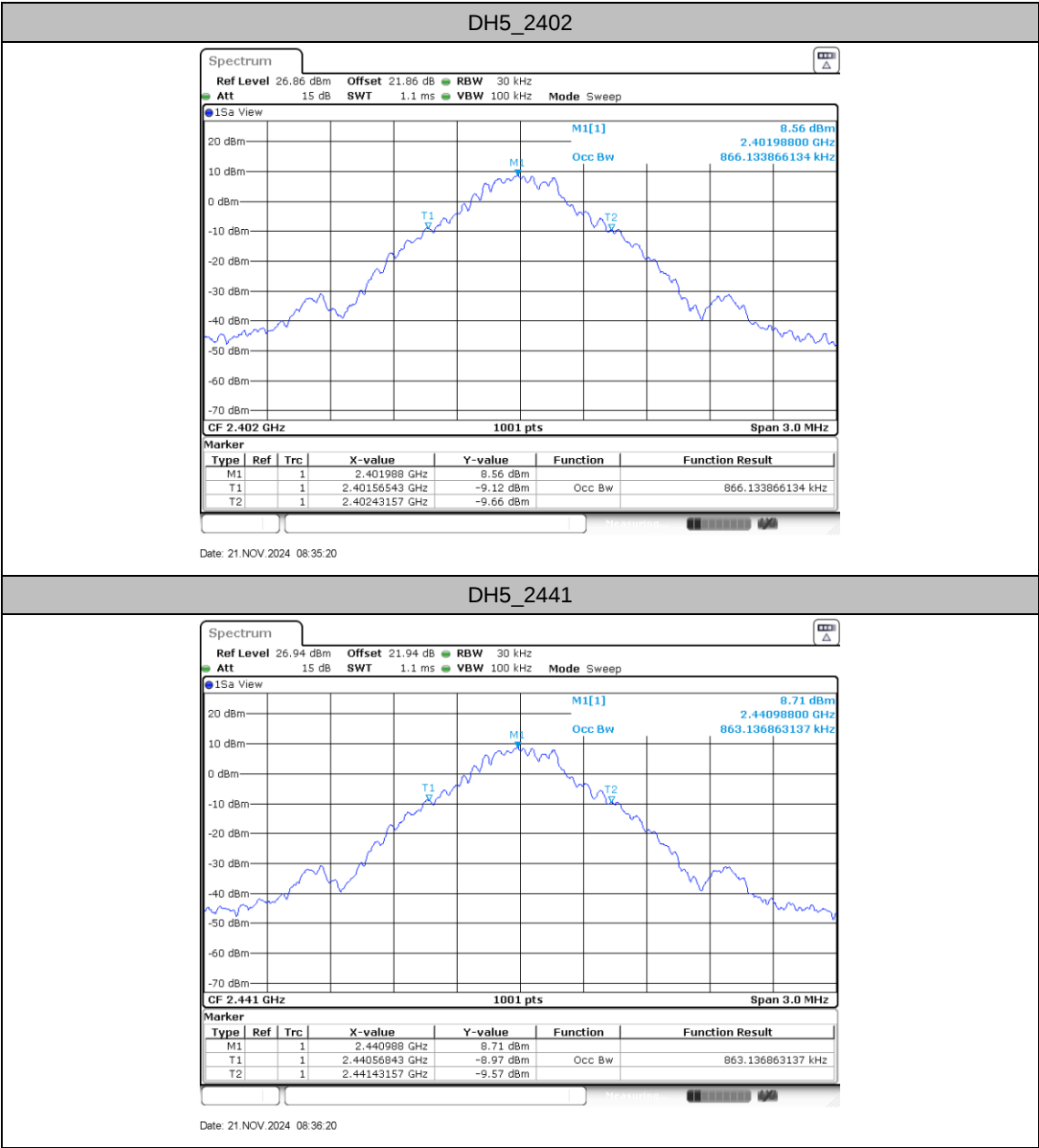
## Occupied Channel Bandwidth

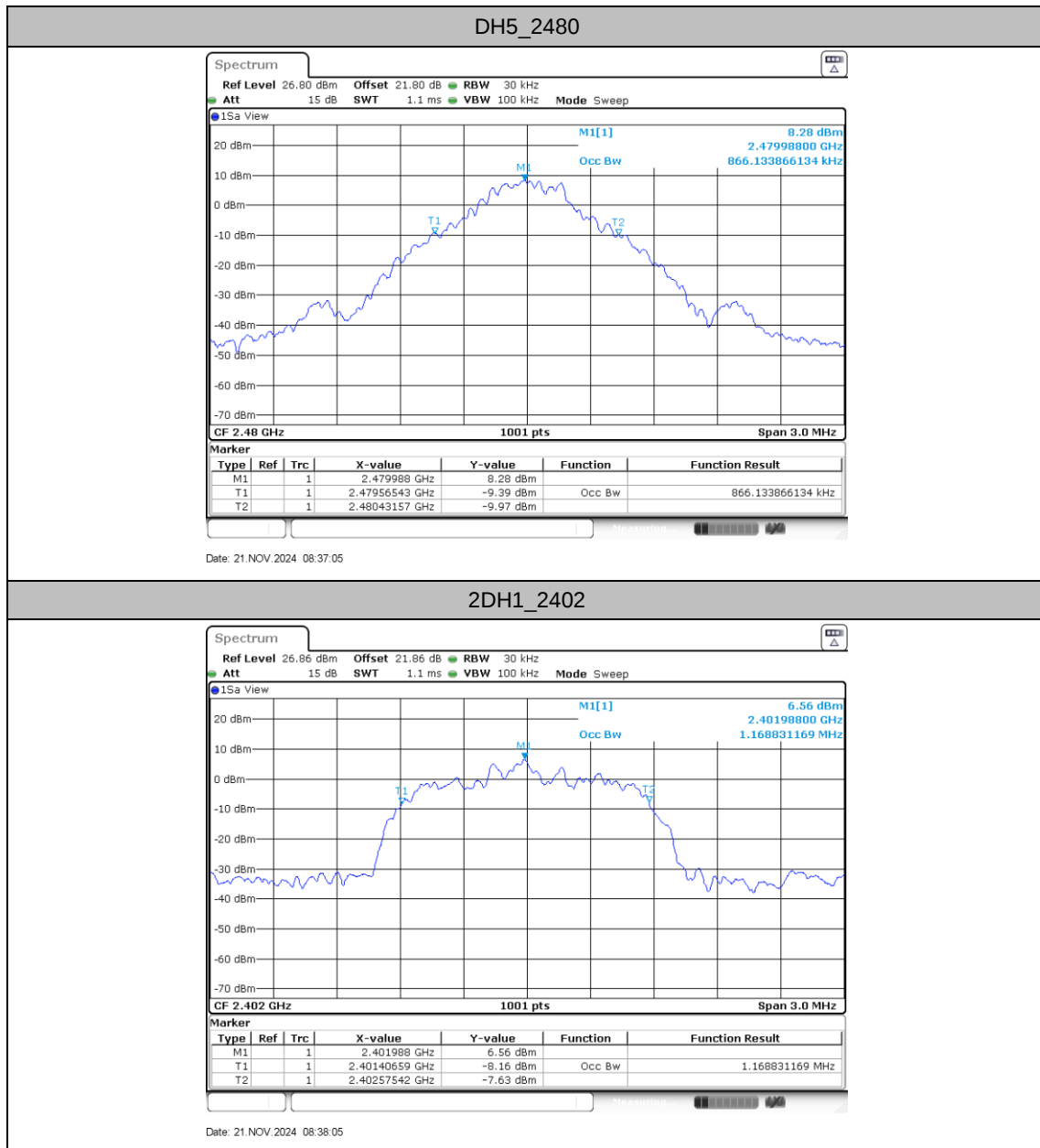
### Test Result

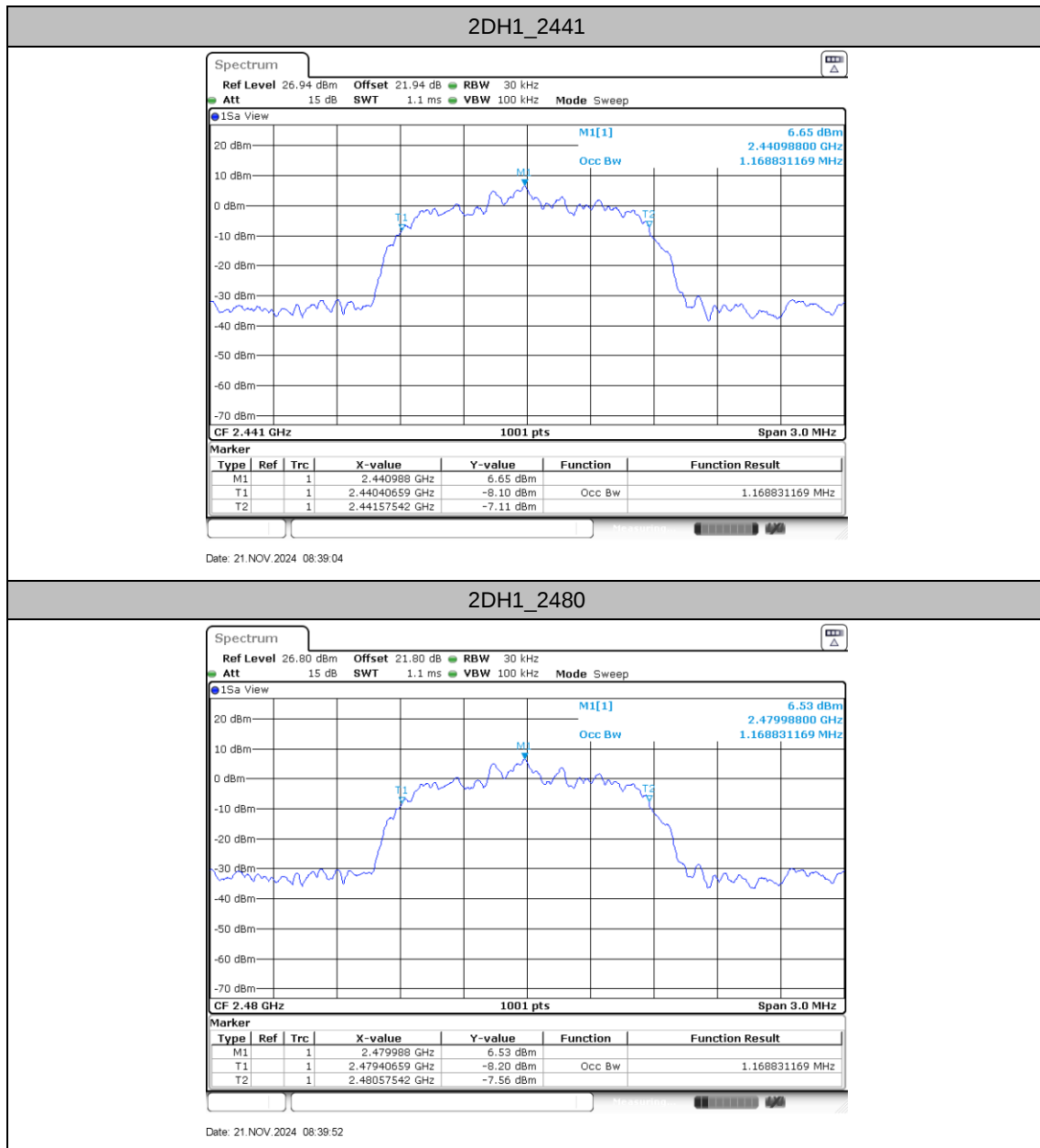
| TestMode | Freq(MHz) | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|----------|-----------|-----------|-----------|-----------|------------|---------|
| DH5      | 2402      | 0.866     | 2401.5654 | 2402.4316 | ---        | ---     |
|          | 2441      | 0.863     | 2440.5684 | 2441.4316 | ---        | ---     |
|          | 2480      | 0.866     | 2479.5654 | 2480.4316 | ---        | ---     |
| 2DH1     | 2402      | 1.169     | 2401.4066 | 2402.5754 | ---        | ---     |
|          | 2441      | 1.169     | 2440.4066 | 2441.5754 | ---        | ---     |
|          | 2480      | 1.169     | 2479.4066 | 2480.5754 | ---        | ---     |
| 3DH1     | 2402      | 1.154     | 2401.4366 | 2402.5904 | ---        | ---     |
|          | 2441      | 1.151     | 2440.4366 | 2441.5874 | ---        | ---     |
|          | 2480      | 1.154     | 2479.4366 | 2480.5904 | ---        | ---     |

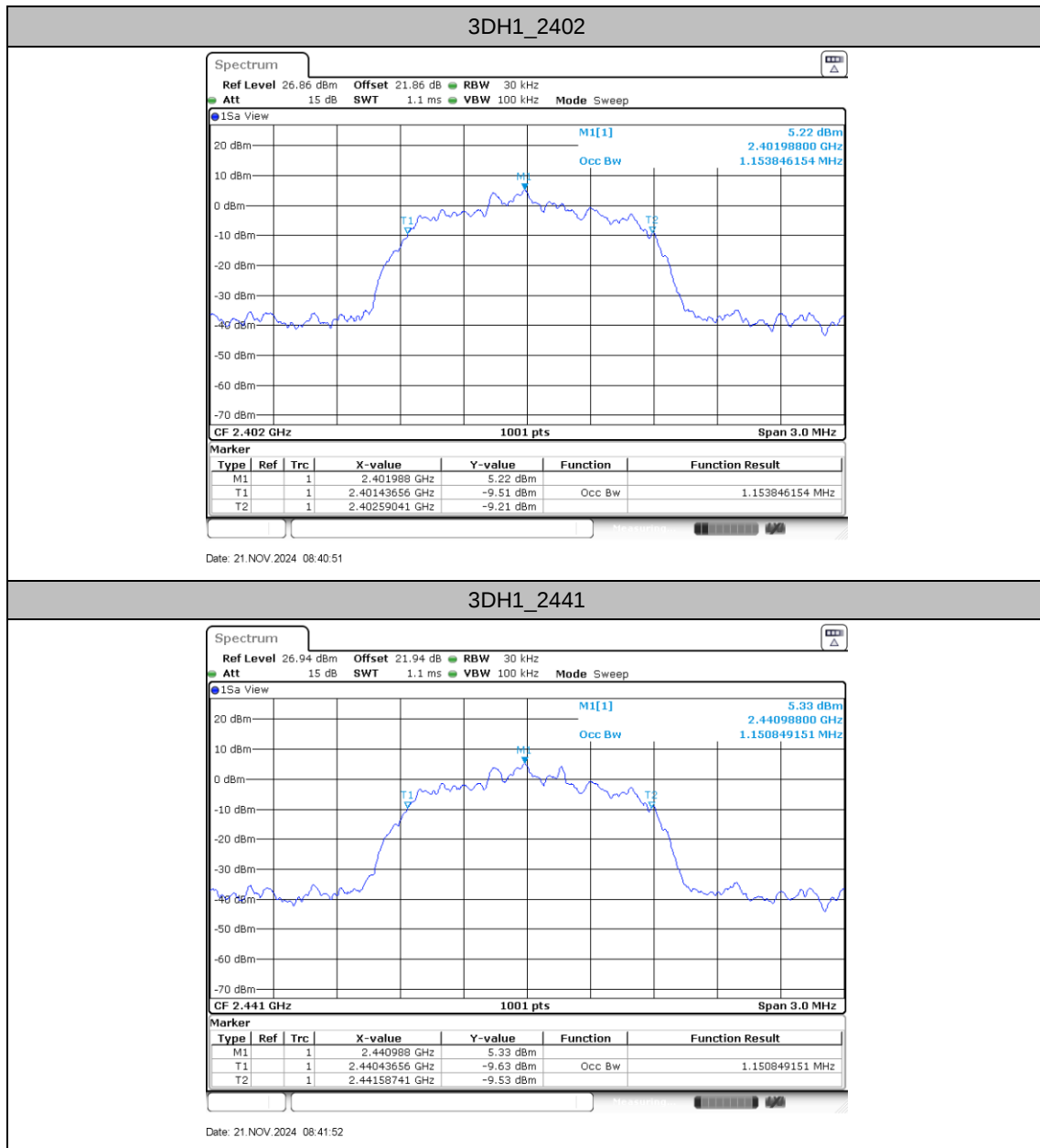


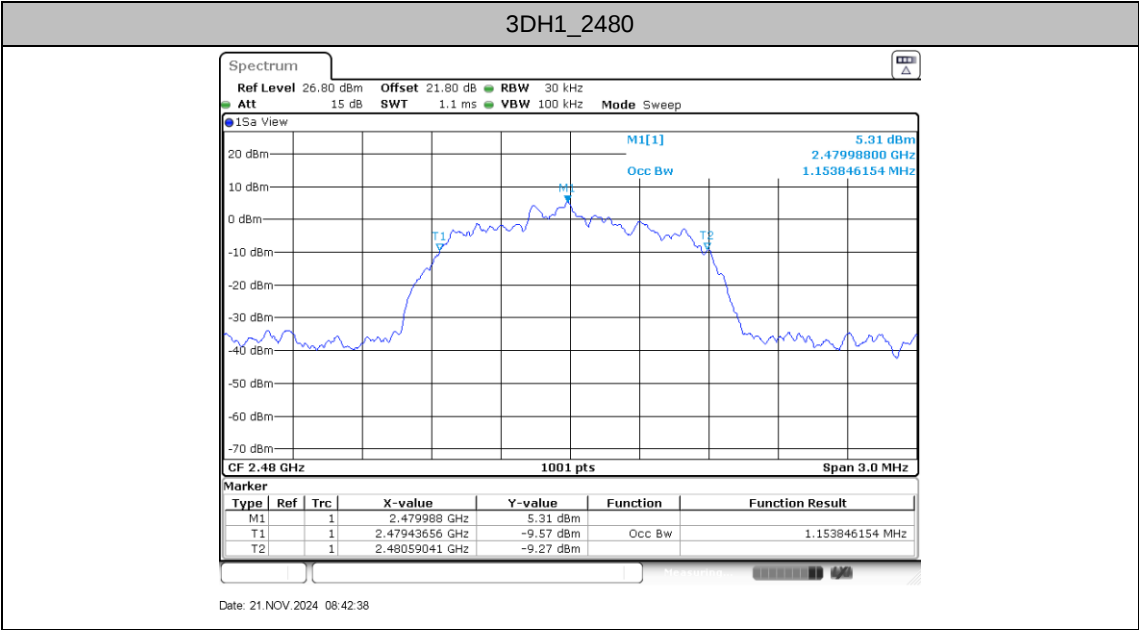
Test Graphs













## Maximum conducted output power

### Test Result Peak

| TestMode | CH. | Peak Power (dBm) | Power Limit (dBm) | Pass/Fail |
|----------|-----|------------------|-------------------|-----------|
| DH5      | 0   | 10.68            | 20.97             | Pass      |
|          | 39  | <b>10.82</b>     | 20.97             | Pass      |
|          | 78  | 10.69            | 20.97             | Pass      |
| 2DH1     | 0   | 9.82             | 20.97             | Pass      |
|          | 39  | <b>10.08</b>     | 20.97             | Pass      |
|          | 78  | 9.89             | 20.97             | Pass      |
| 3DH1     | 0   | 10.05            | 20.97             | Pass      |
|          | 39  | <b>10.31</b>     | 20.97             | Pass      |
|          | 78  | 10.12            | 20.97             | Pass      |

Note: The power setting is default.



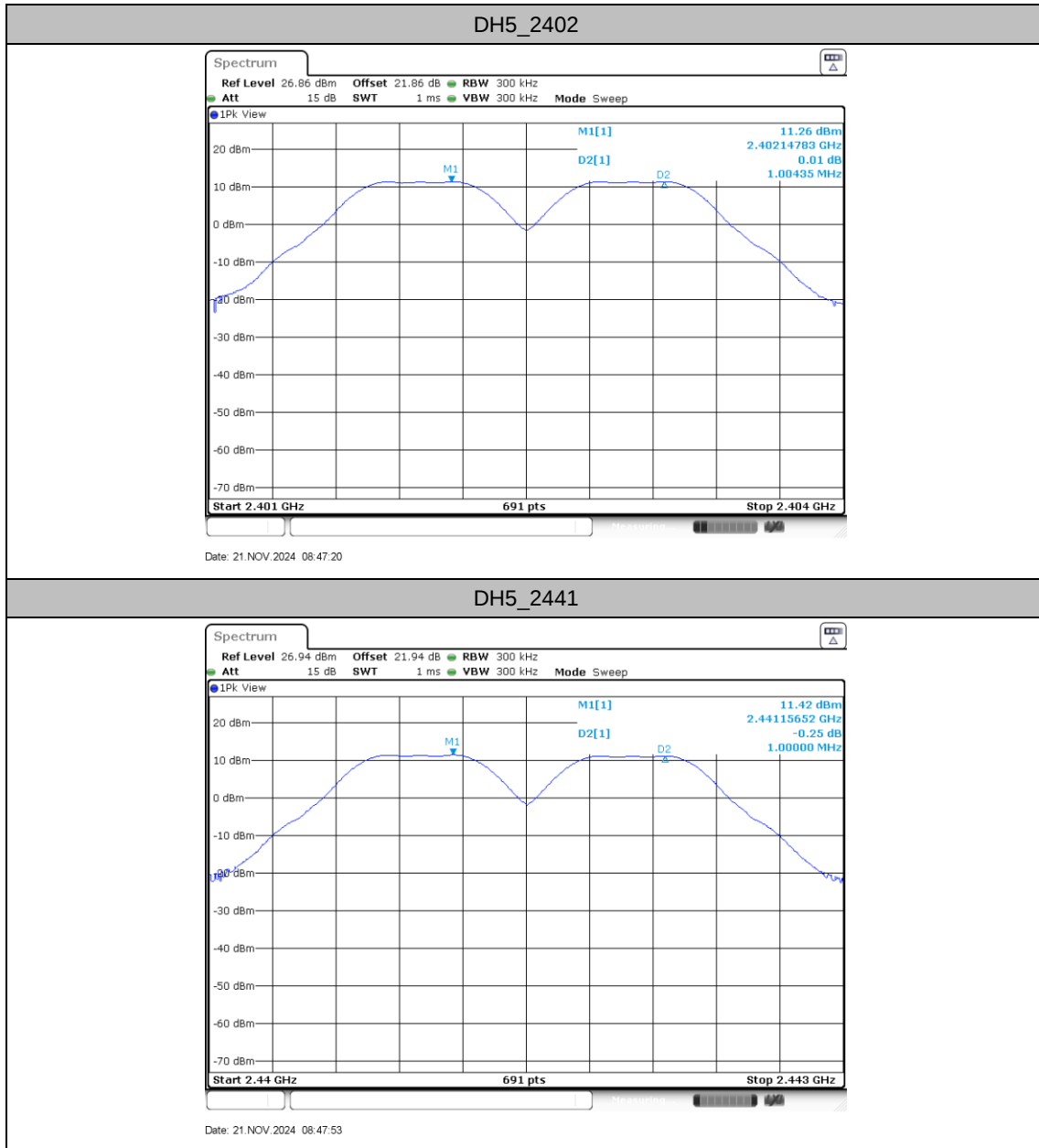
## Carrier frequency separation

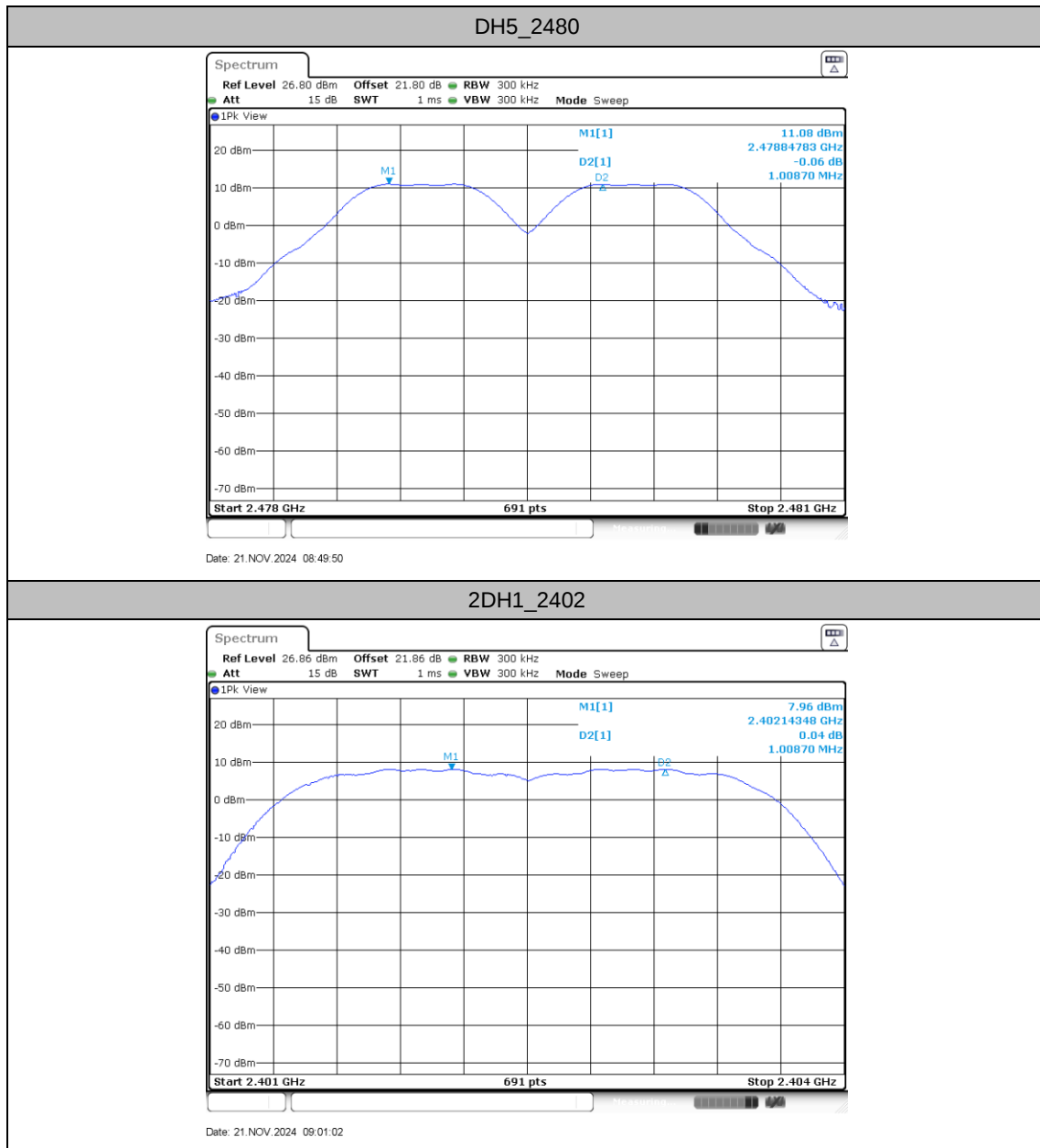
### Test Result

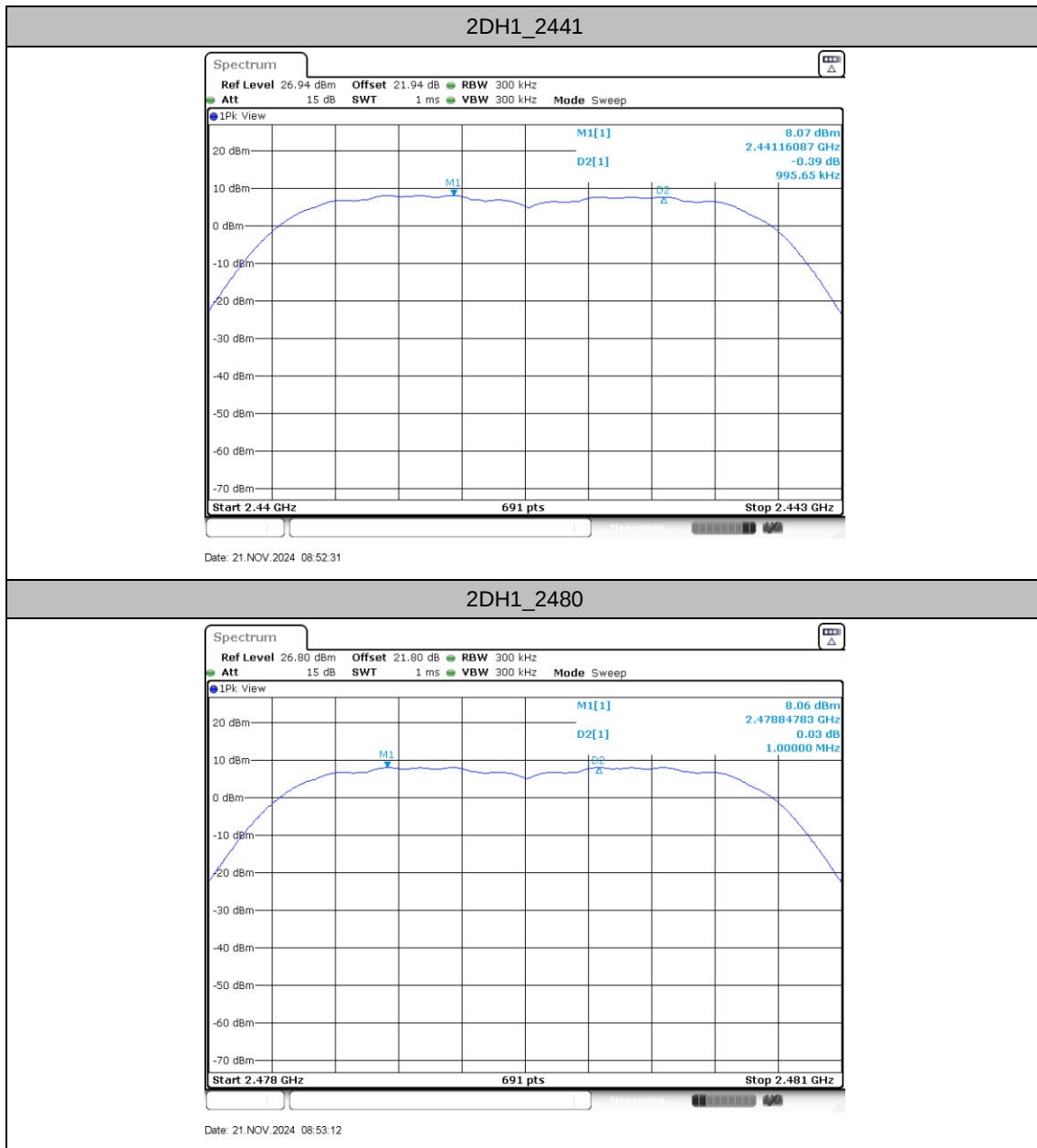
| TestMode | Freq(MHz) | Result[MHz] | Limit[MHz]   | Verdict |
|----------|-----------|-------------|--------------|---------|
| DH5      | 2402      | 1.004       | $\geq 0.633$ | PASS    |
|          | 2441      | 1           | $\geq 0.633$ | PASS    |
|          | 2480      | 1.009       | $\geq 0.633$ | PASS    |
| 2DH1     | 2402      | 1.009       | $\geq 0.853$ | PASS    |
|          | 2441      | 0.996       | $\geq 0.853$ | PASS    |
|          | 2480      | 1           | $\geq 0.853$ | PASS    |
| 3DH1     | 2402      | 1           | $\geq 0.827$ | PASS    |
|          | 2441      | 1.004       | $\geq 0.827$ | PASS    |
|          | 2480      | 1.004       | $\geq 0.827$ | PASS    |

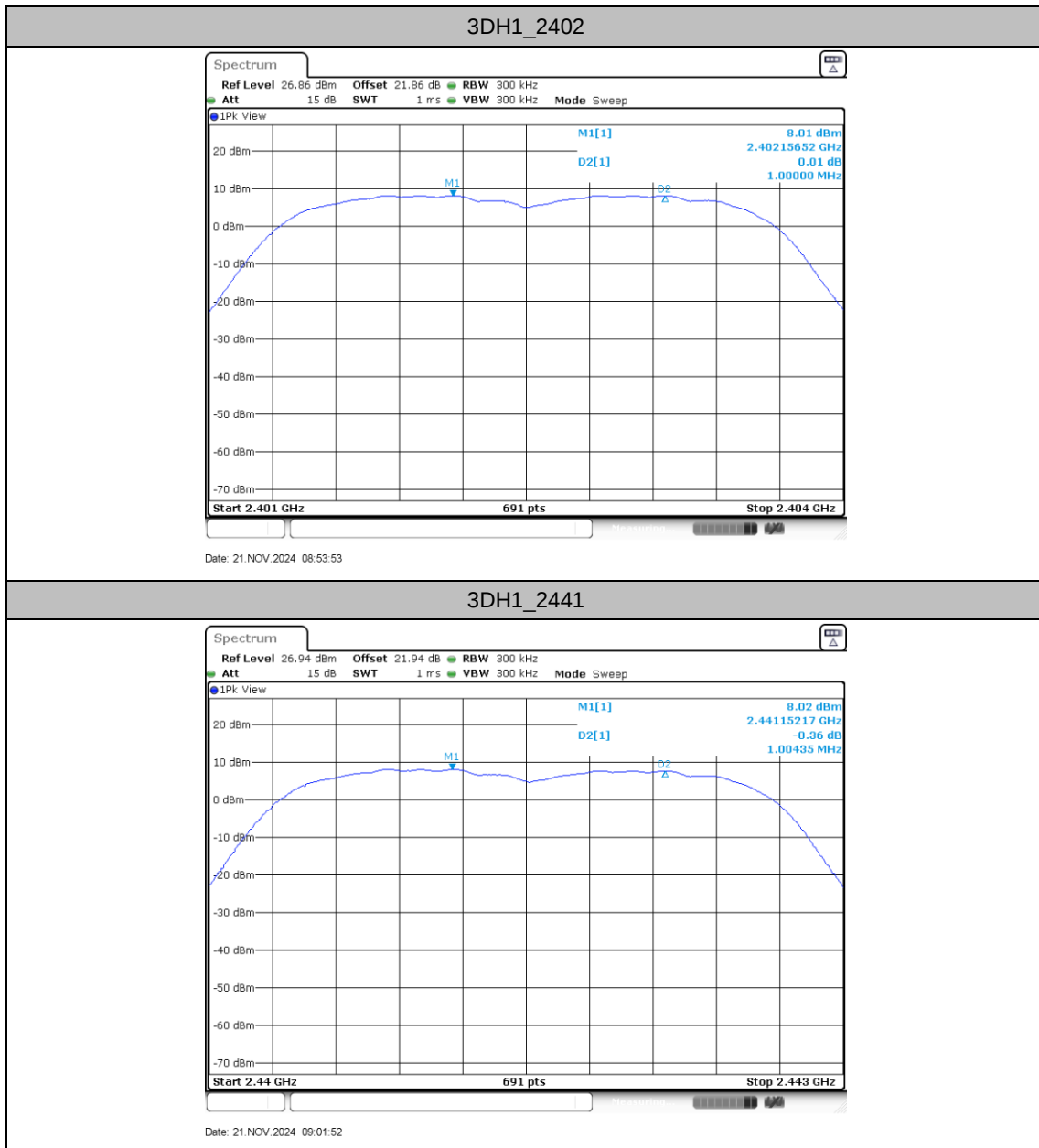


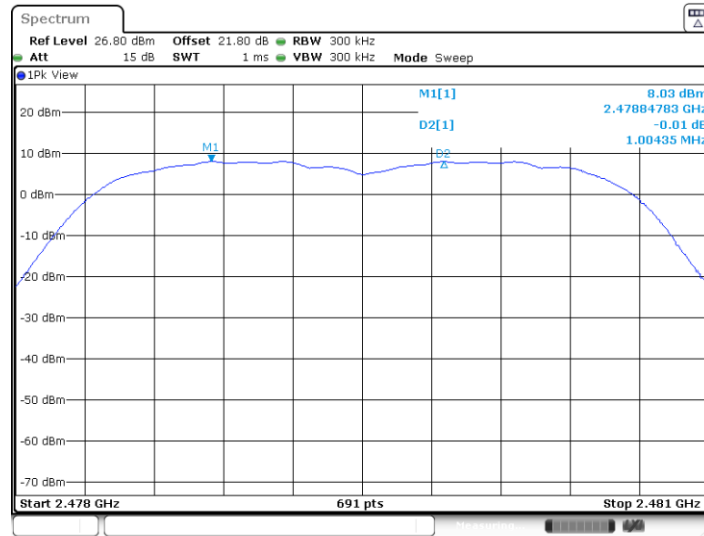
## Test Graphs











## Time of occupancy

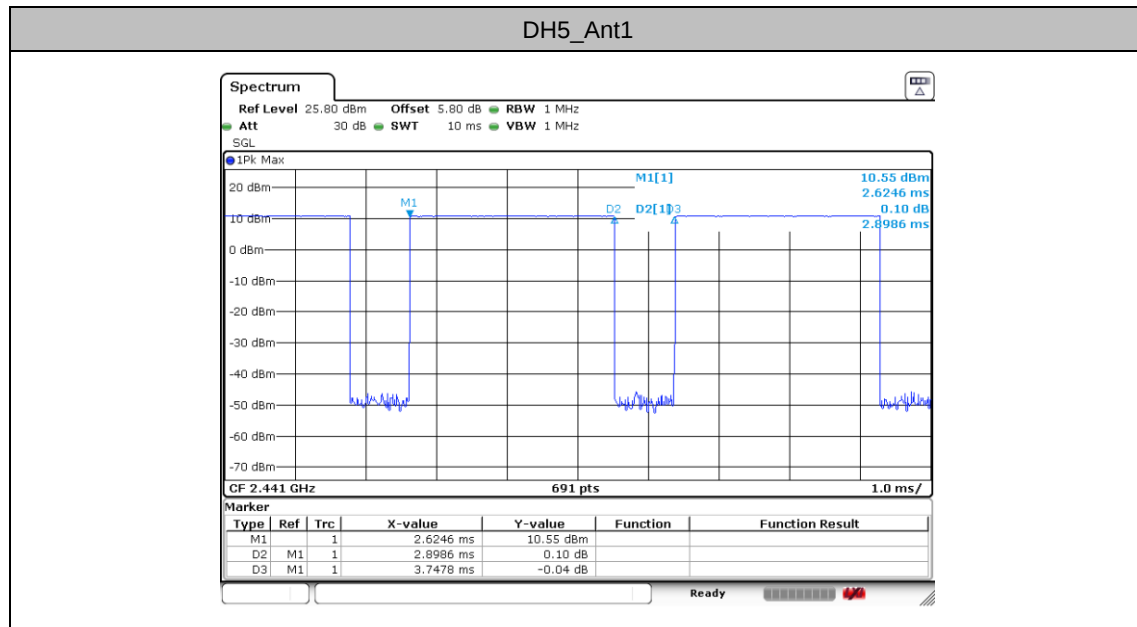
### Test Result

| TestMode | Hopping Channel Number Rate | Hops Over Occupancy Time(hops) | Package Transfer Time (msec) (MHz) | Dwell Time (sec) | Limits (sec) | Pass/Fail |
|----------|-----------------------------|--------------------------------|------------------------------------|------------------|--------------|-----------|
| Normal   | 79                          | 106.67                         | 2.8986                             | 0.31             | 0.4          | Pass      |
| AFH      | 20                          | 53.33                          | 2.8986                             | 0.15             | 0.4          | Pass      |

#### Remark:

- In normal mode, hopping rate is 1600 hops/s with 6 slots (5 Transmit and 1 Receive slot) in 79 hopping channels.  
With channel hopping rate  $(1600 / 6 / 79)$  in Occupancy Time Limit  $(0.4 \times 79)$  (s),  
Hops Over Occupancy Time comes to  $(1600 / 6 / 79) \times (0.4 \times 79) = 106.67$  hops.
- In AFH mode, hopping rate is 800 hops/s with 6 slots in 20 hopping channels.  
With channel hopping rate  $(800 / 6 / 20)$  in Occupancy Time Limit  $(0.4 \times 20)$  (s),
- Hops Over Occupancy Time comes to  $(800 / 6 / 20) \times (0.4 \times 20) = 53.33$  hops.  
Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

### Test Graphs



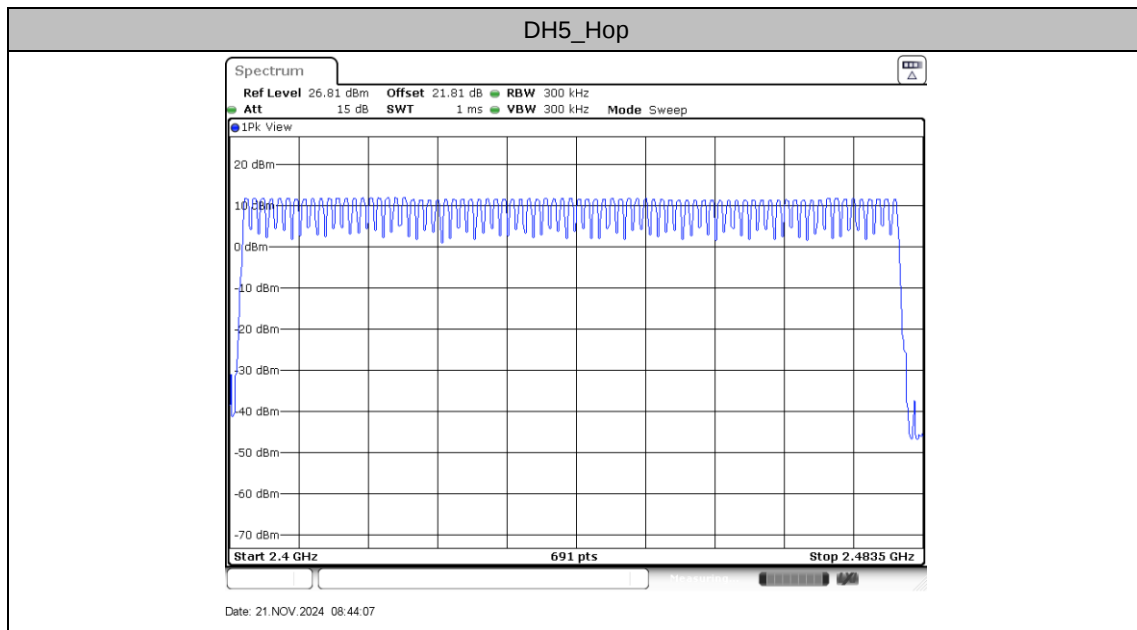


## Number of hopping channels

### Test Result

| TestMode | Freq(MHz) | Result[Num] | Limit[Num] | Verdict |
|----------|-----------|-------------|------------|---------|
| DH5      | Hop       | 79          | ≥15        | PASS    |

### Test Graphs





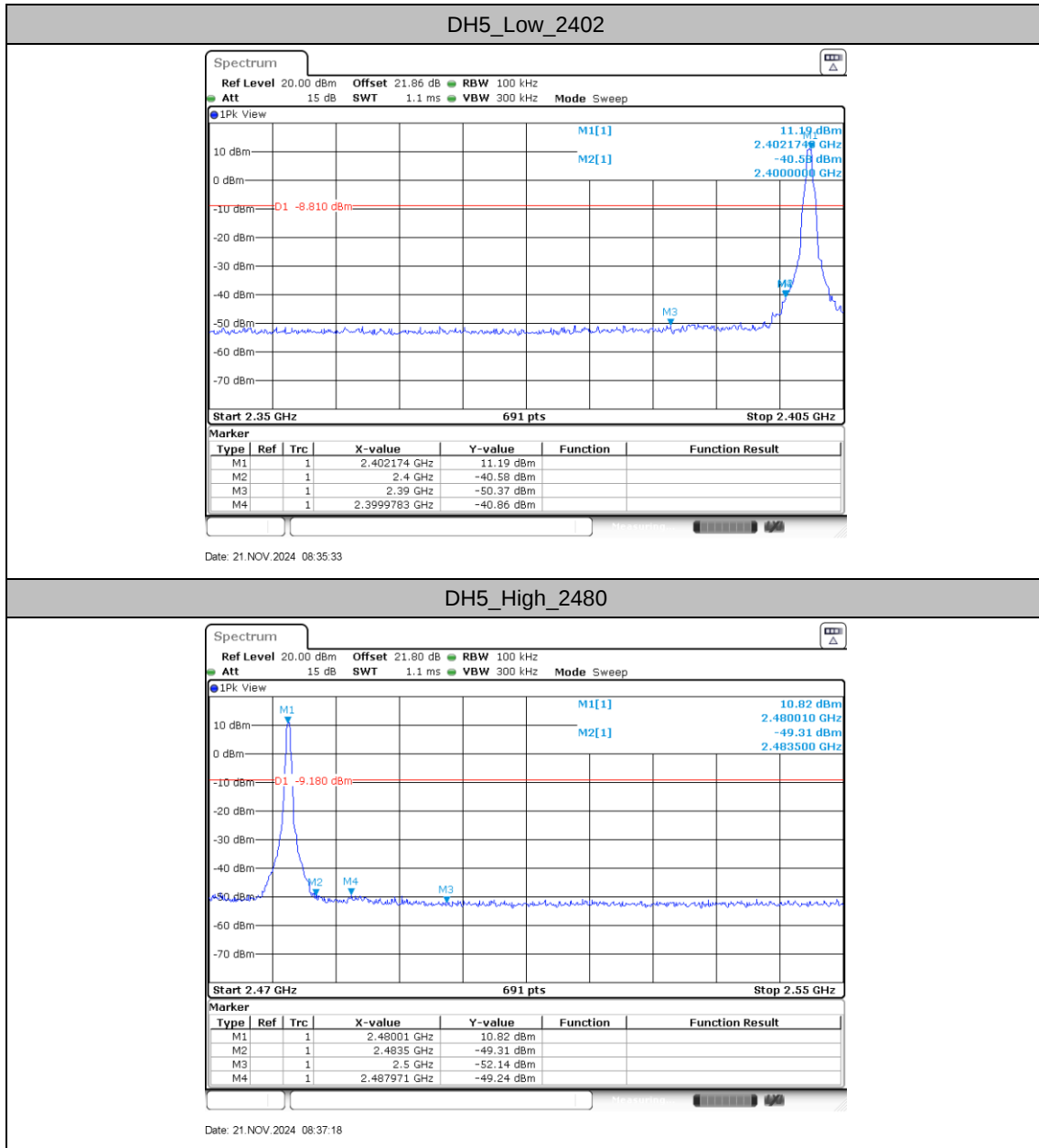
## Band edge measurements

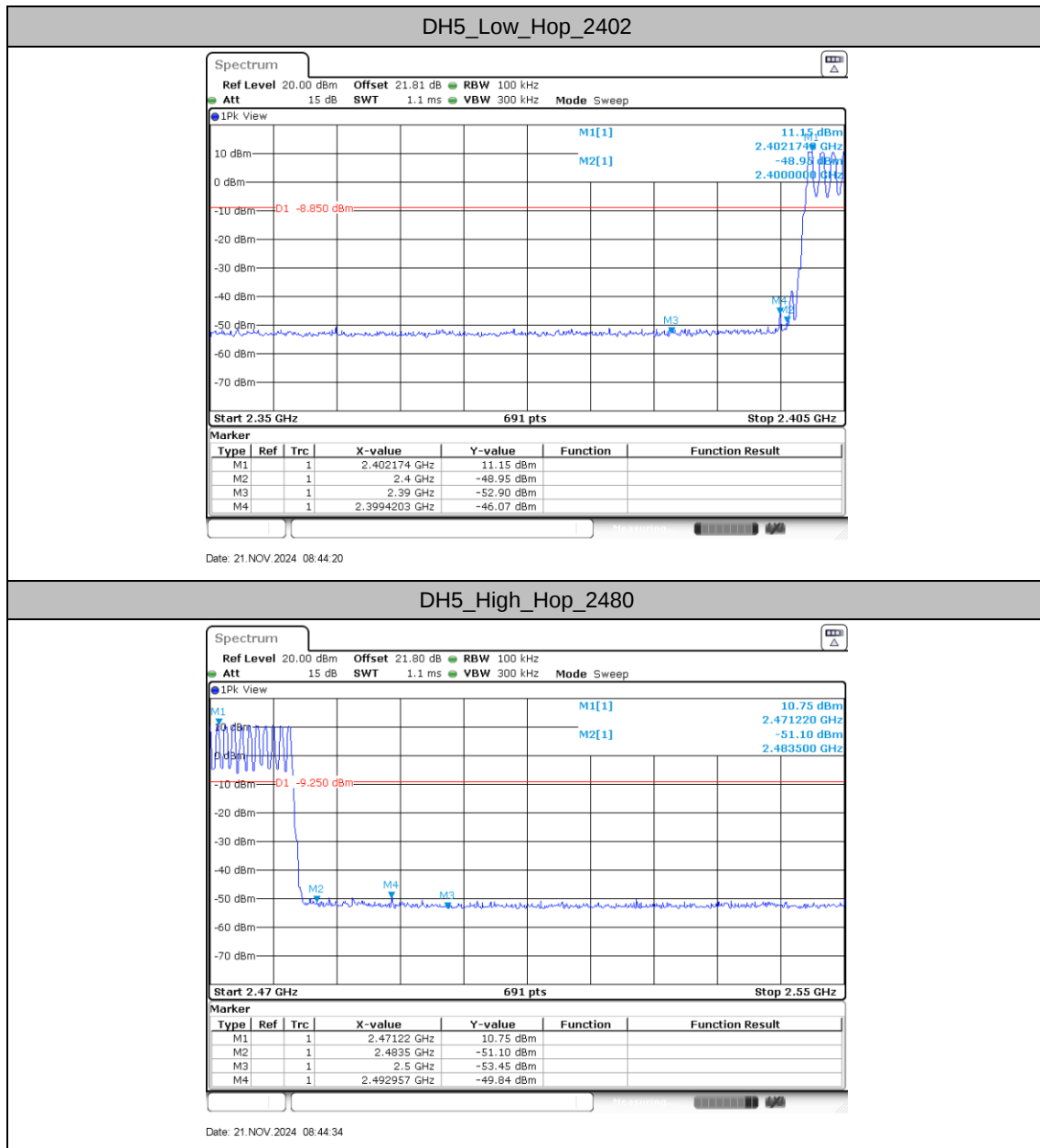
### Test Result

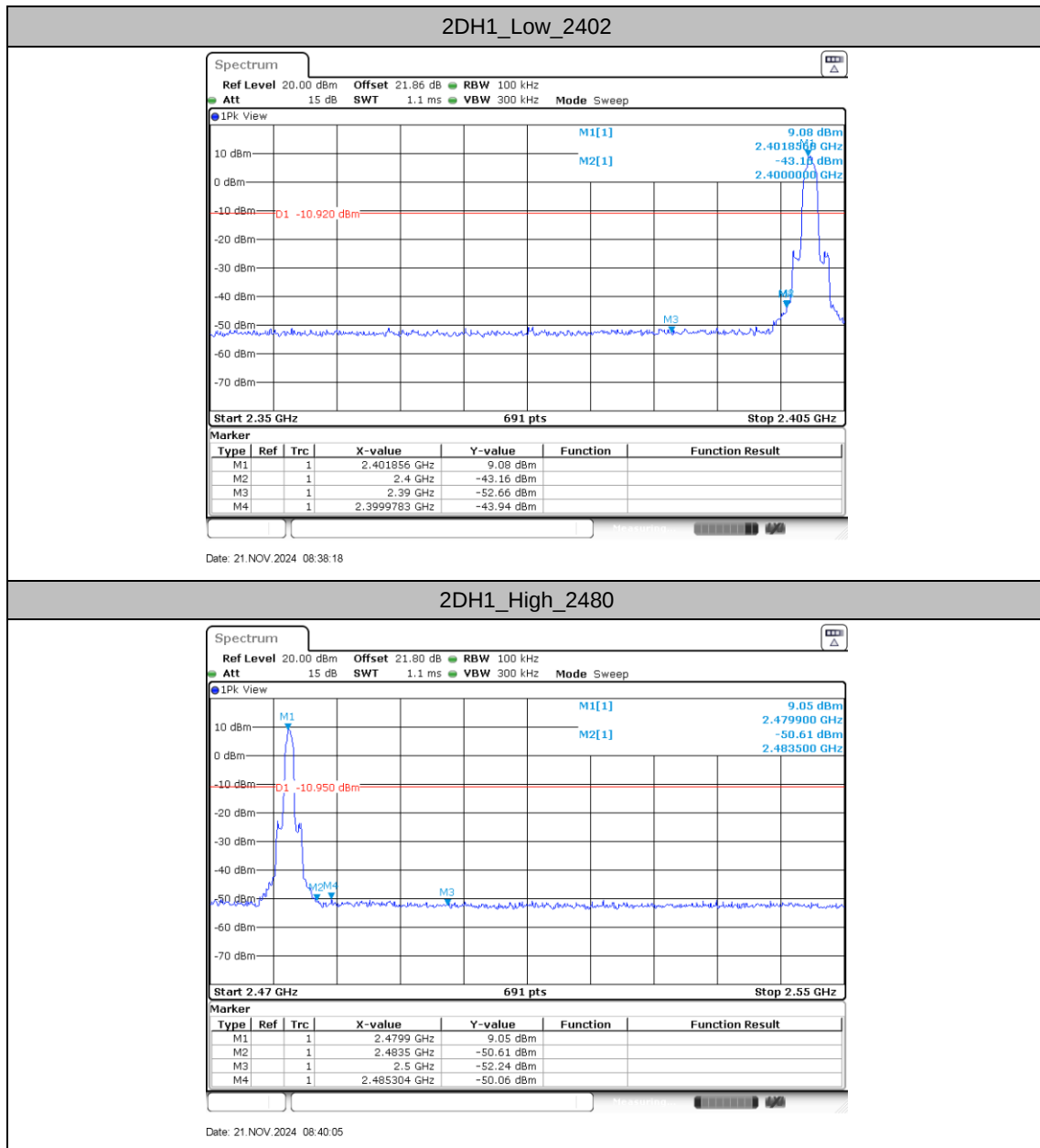
| TestMode | ChName | Freq(MHz) | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|----------|--------|-----------|-------------------|-----------------|----------------|---------|
| DH5      | Low    | 2402      | 11.19             | -40.86          | $\leq -8.81$   | PASS    |
|          | High   | 2480      | 10.82             | -49.24          | $\leq -9.18$   | PASS    |
|          | Low    | Hop_2402  | 11.15             | -46.07          | $\leq -8.85$   | PASS    |
|          | High   | Hop_2480  | 10.75             | -49.84          | $\leq -9.25$   | PASS    |
| 2DH1     | Low    | 2402      | 9.08              | -43.94          | $\leq -10.92$  | PASS    |
|          | High   | 2480      | 9.05              | -50.06          | $\leq -10.95$  | PASS    |
|          | Low    | Hop_2402  | 9.25              | -49.37          | $\leq -10.75$  | PASS    |
|          | High   | Hop_2480  | 9.14              | -49.94          | $\leq -10.86$  | PASS    |
| 3DH1     | Low    | 2402      | 7.85              | -45.45          | $\leq -12.15$  | PASS    |
|          | High   | 2480      | 7.91              | -50.01          | $\leq -12.09$  | PASS    |
|          | Low    | Hop_2402  | 7.89              | -49.23          | $\leq -12.11$  | PASS    |
|          | High   | Hop_2480  | 8.02              | -50.8           | $\leq -11.98$  | PASS    |

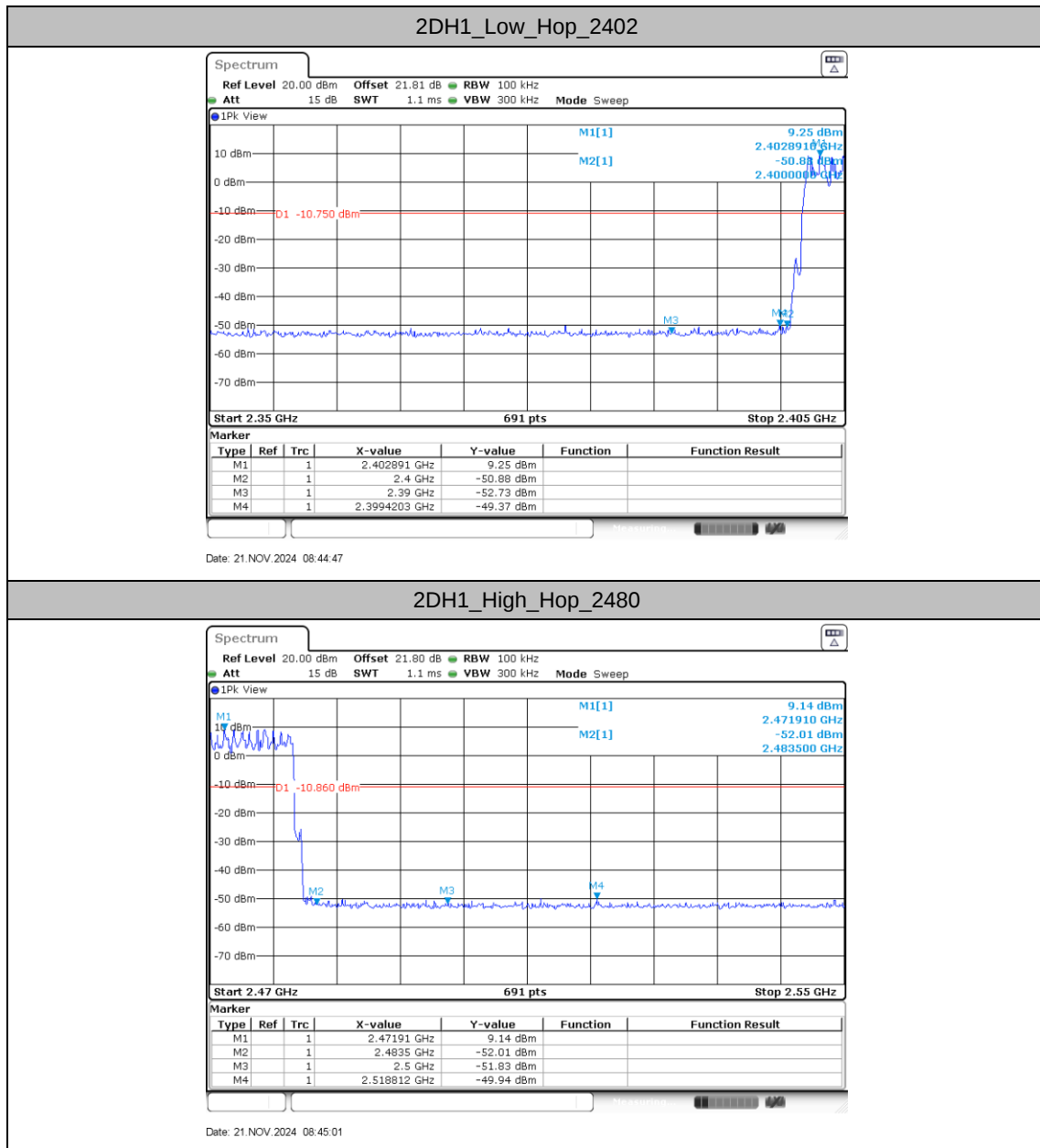


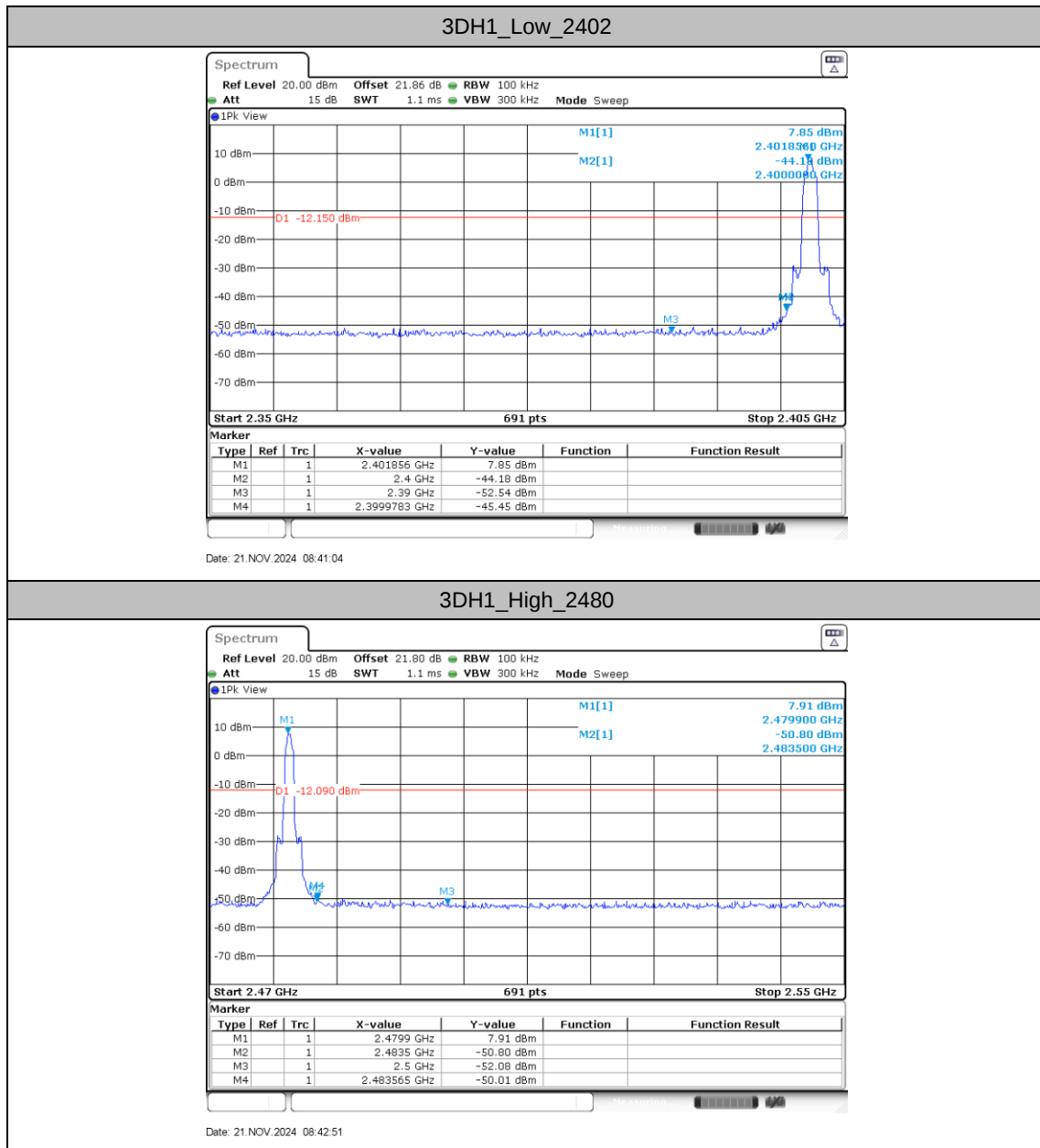
## Test Graphs

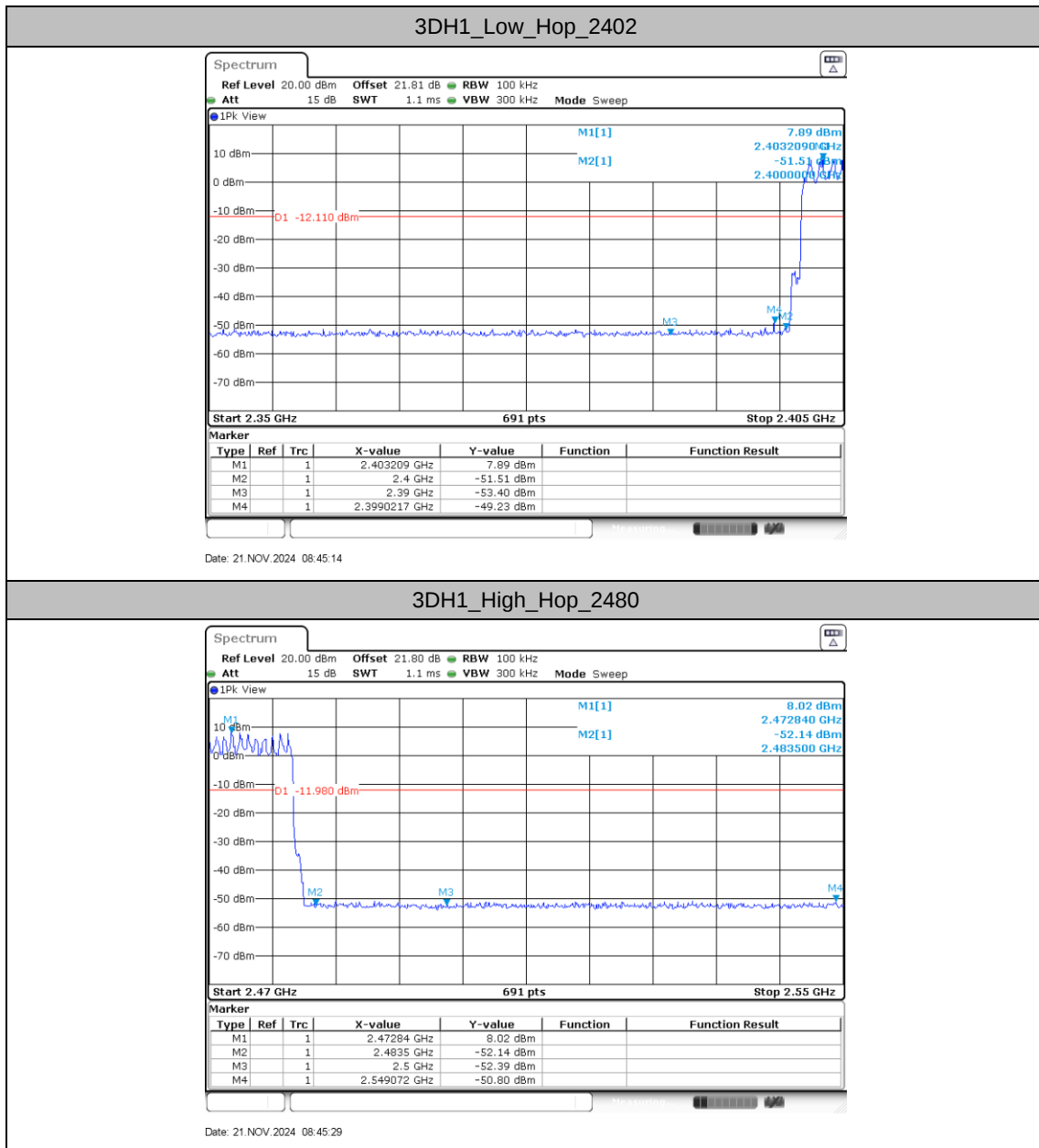












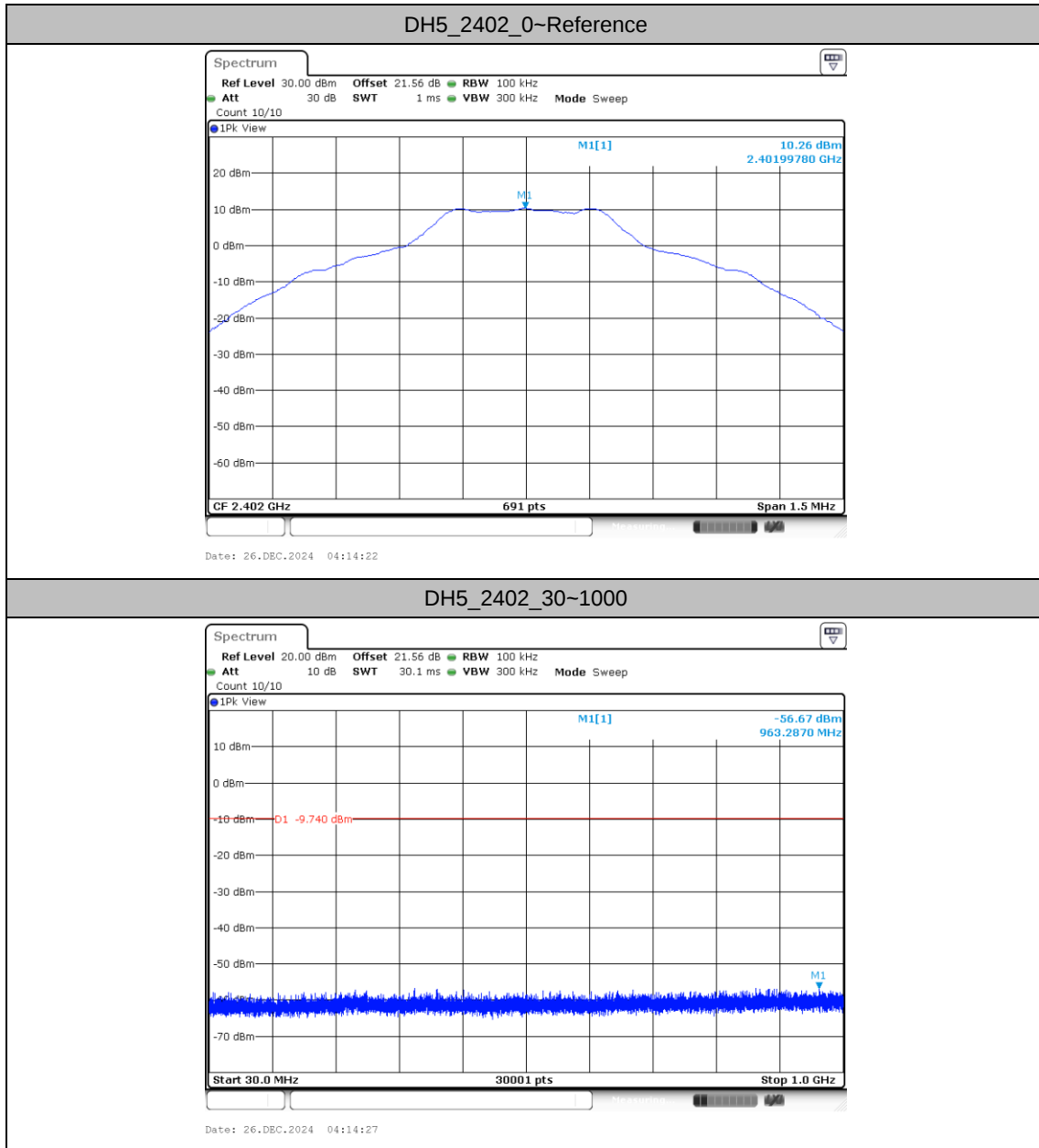
## Conducted Spurious Emission

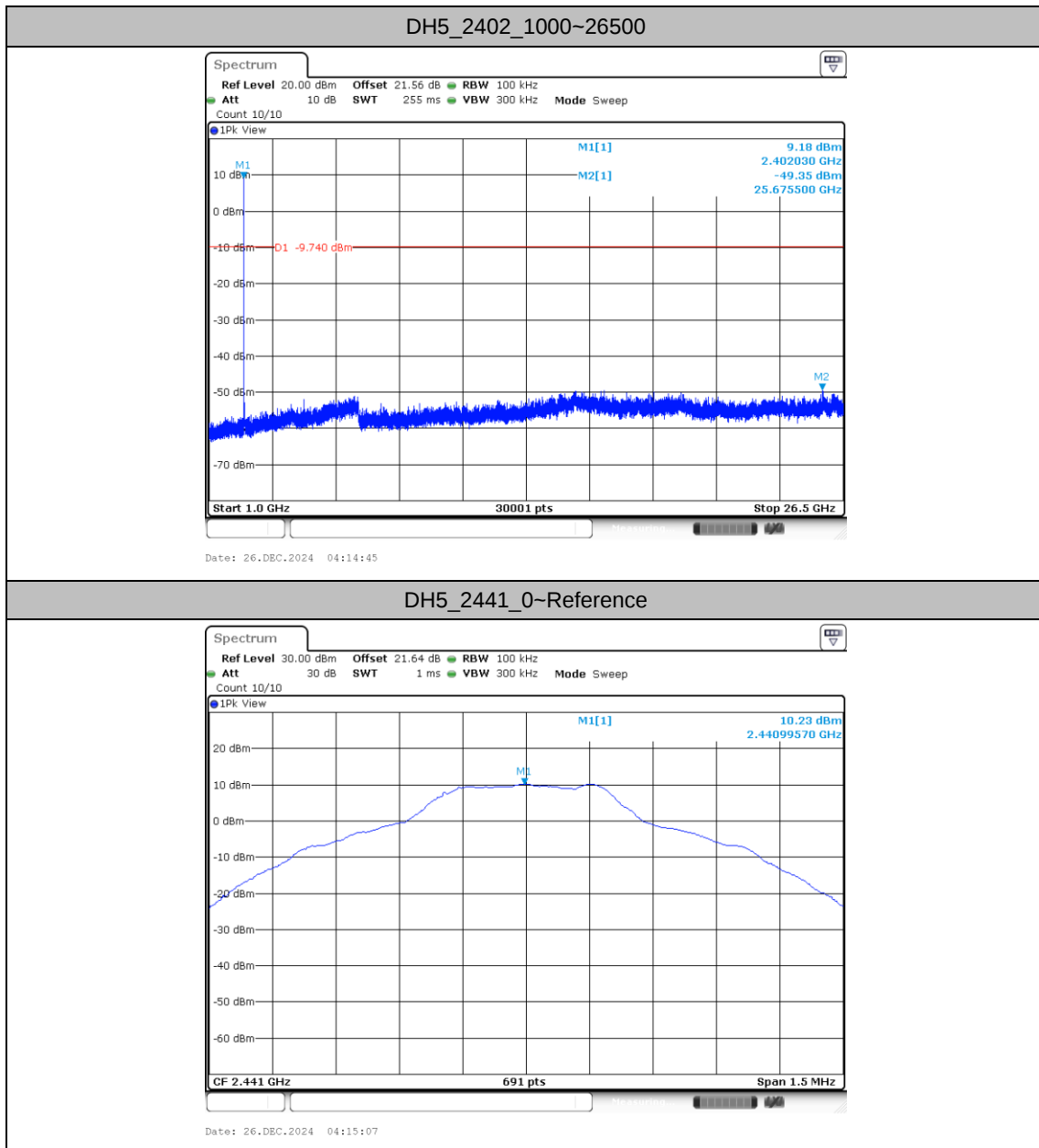
### Test Result

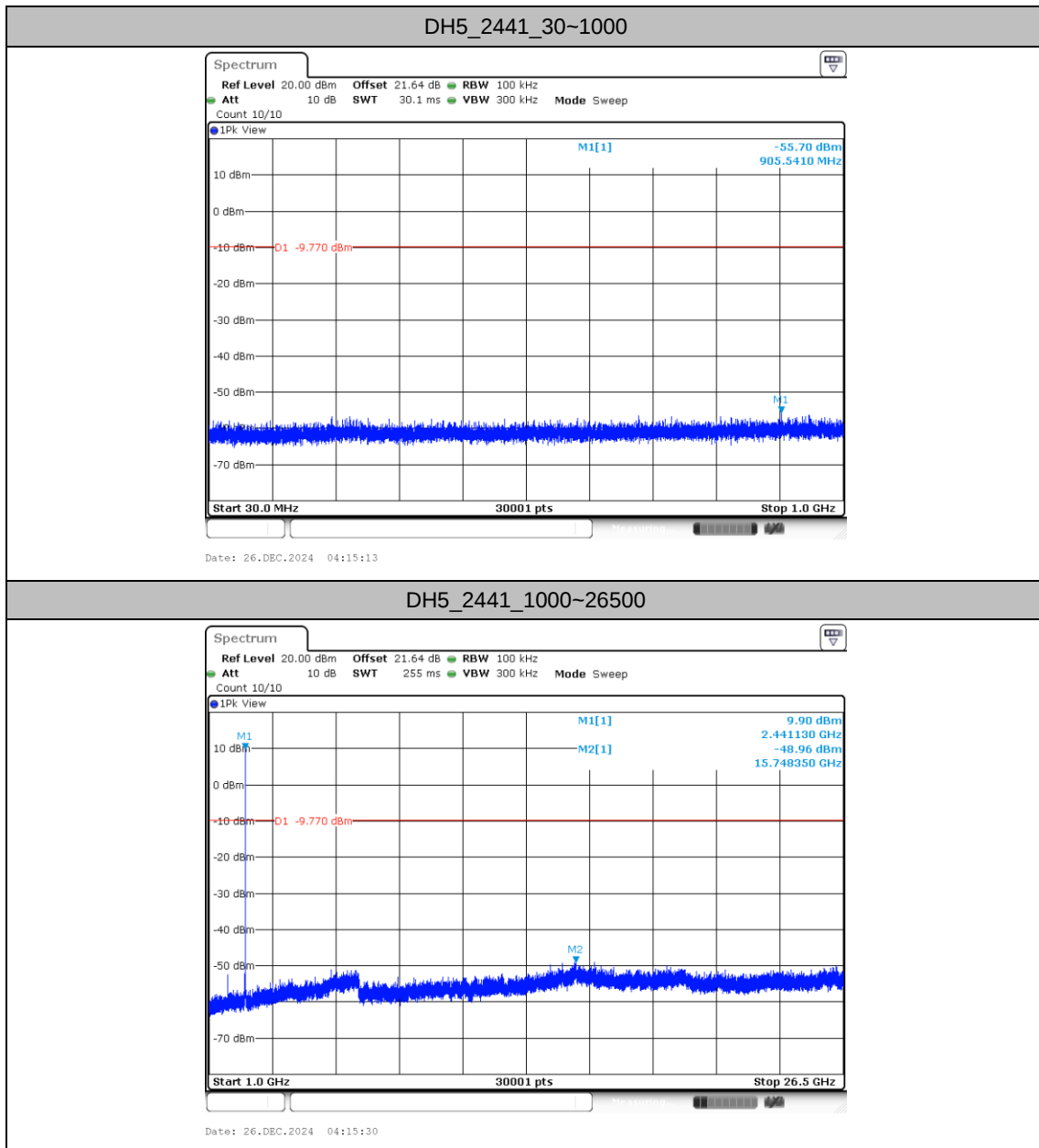
| TestMode | Freq(MHz) | FreqRange [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|-----------|-----------------|----------------|--------------|-------------|---------|
| DH5      | 2402      | Reference       | 10.26          | 10.26        | ---         | PASS    |
|          |           | 30~1000         | 10.26          | -56.67       | ≤-9.74      | PASS    |
|          |           | 1000~26500      | 10.26          | -49.35       | ≤-9.74      | PASS    |
|          | 2441      | Reference       | 10.23          | 10.23        | ---         | PASS    |
|          |           | 30~1000         | 10.23          | -55.7        | ≤-9.77      | PASS    |
|          |           | 1000~26500      | 10.23          | -48.96       | ≤-9.77      | PASS    |
|          | 2480      | Reference       | 9.94           | 9.94         | ---         | PASS    |
|          |           | 30~1000         | 9.94           | -56.18       | ≤-10.06     | PASS    |
|          |           | 1000~26500      | 9.94           | -48.88       | ≤-10.06     | PASS    |
| 2DH1     | 2402      | Reference       | 7.89           | 7.89         | ---         | PASS    |
|          |           | 30~1000         | 7.89           | -56.07       | ≤-12.11     | PASS    |
|          |           | 1000~26500      | 7.89           | -49.13       | ≤-12.11     | PASS    |
|          | 2441      | Reference       | 7.86           | 7.86         | ---         | PASS    |
|          |           | 30~1000         | 7.86           | -56.12       | ≤-12.14     | PASS    |
|          |           | 1000~26500      | 7.86           | -48.67       | ≤-12.14     | PASS    |
|          | 2480      | Reference       | 7.89           | 7.89         | ---         | PASS    |
|          |           | 30~1000         | 7.89           | -56.48       | ≤-12.11     | PASS    |
|          |           | 1000~26500      | 7.89           | -48.9        | ≤-12.11     | PASS    |
| 3DH1     | 2402      | Reference       | 7.91           | 7.91         | ---         | PASS    |
|          |           | 30~1000         | 7.91           | -56.14       | ≤-12.09     | PASS    |
|          |           | 1000~26500      | 7.91           | -48.6        | ≤-12.09     | PASS    |
|          | 2441      | Reference       | 6.40           | 6.40         | ---         | PASS    |
|          |           | 30~1000         | 6.40           | -56.53       | ≤-13.6      | PASS    |
|          |           | 1000~26500      | 6.40           | -48.81       | ≤-13.6      | PASS    |
|          | 2480      | Reference       | 6.54           | 6.54         | ---         | PASS    |
|          |           | 30~1000         | 6.54           | -56.11       | ≤-13.46     | PASS    |
|          |           | 1000~26500      | 6.54           | -49.52       | ≤-13.46     | PASS    |

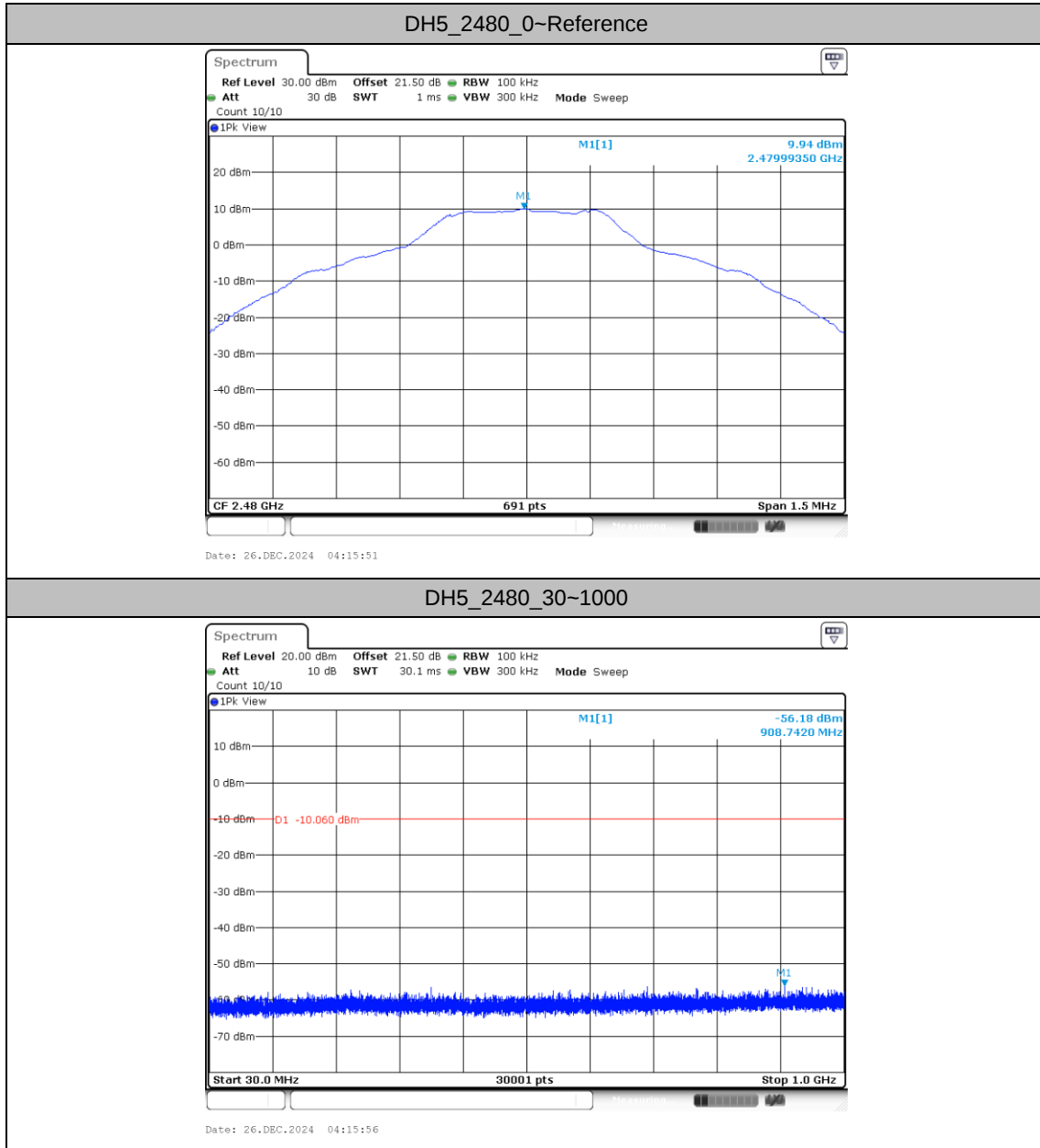


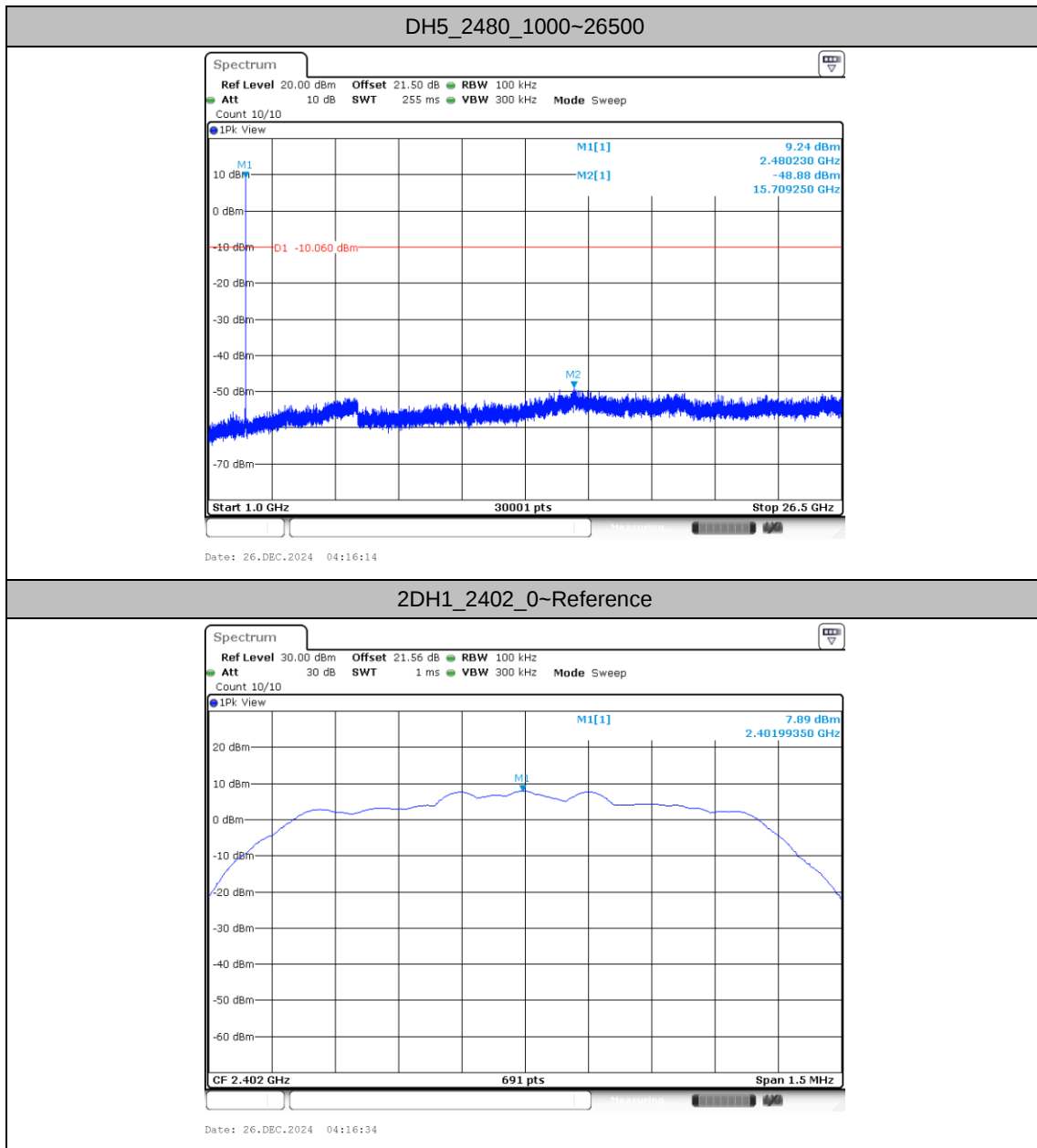
## Test Graphs

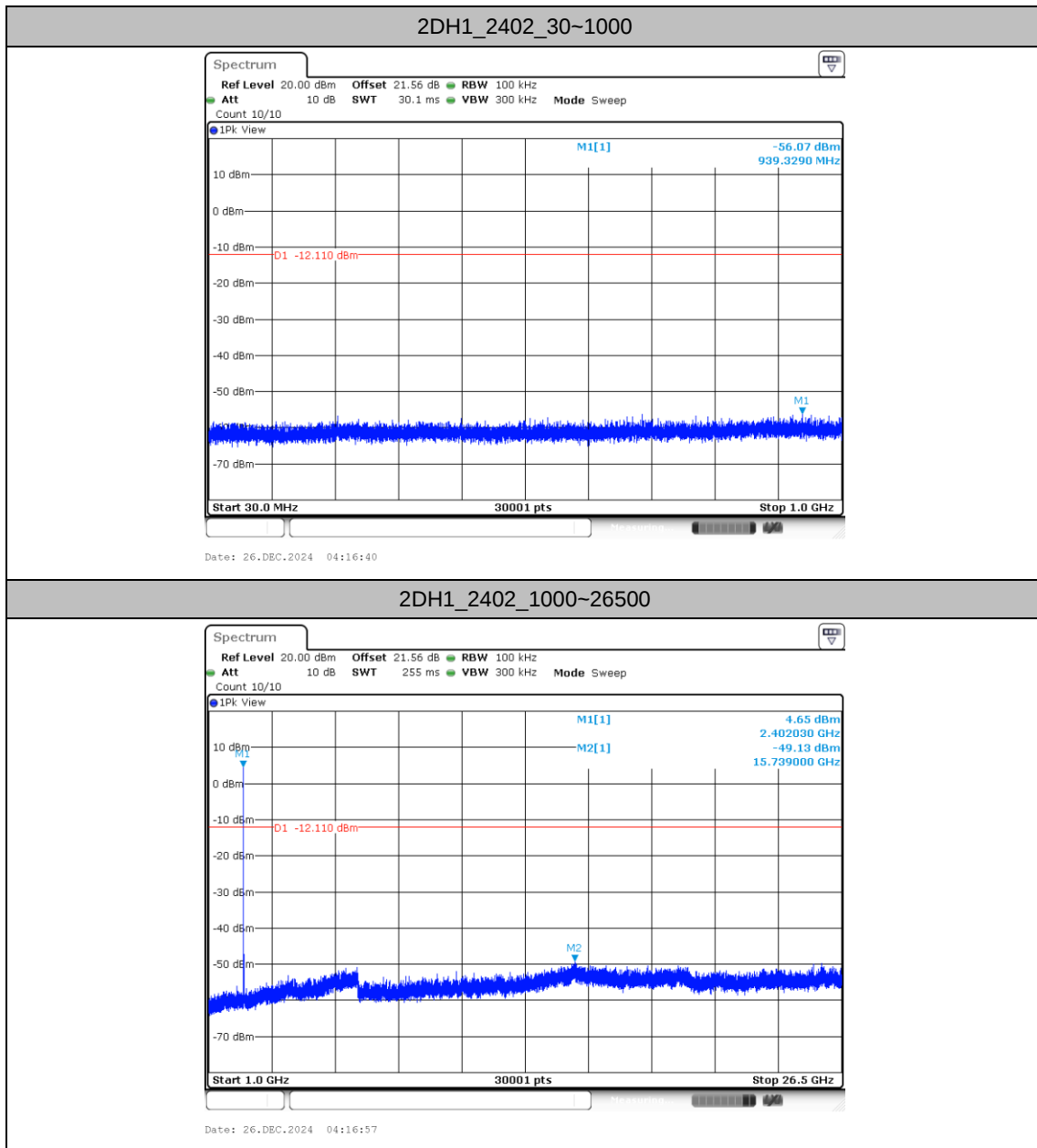


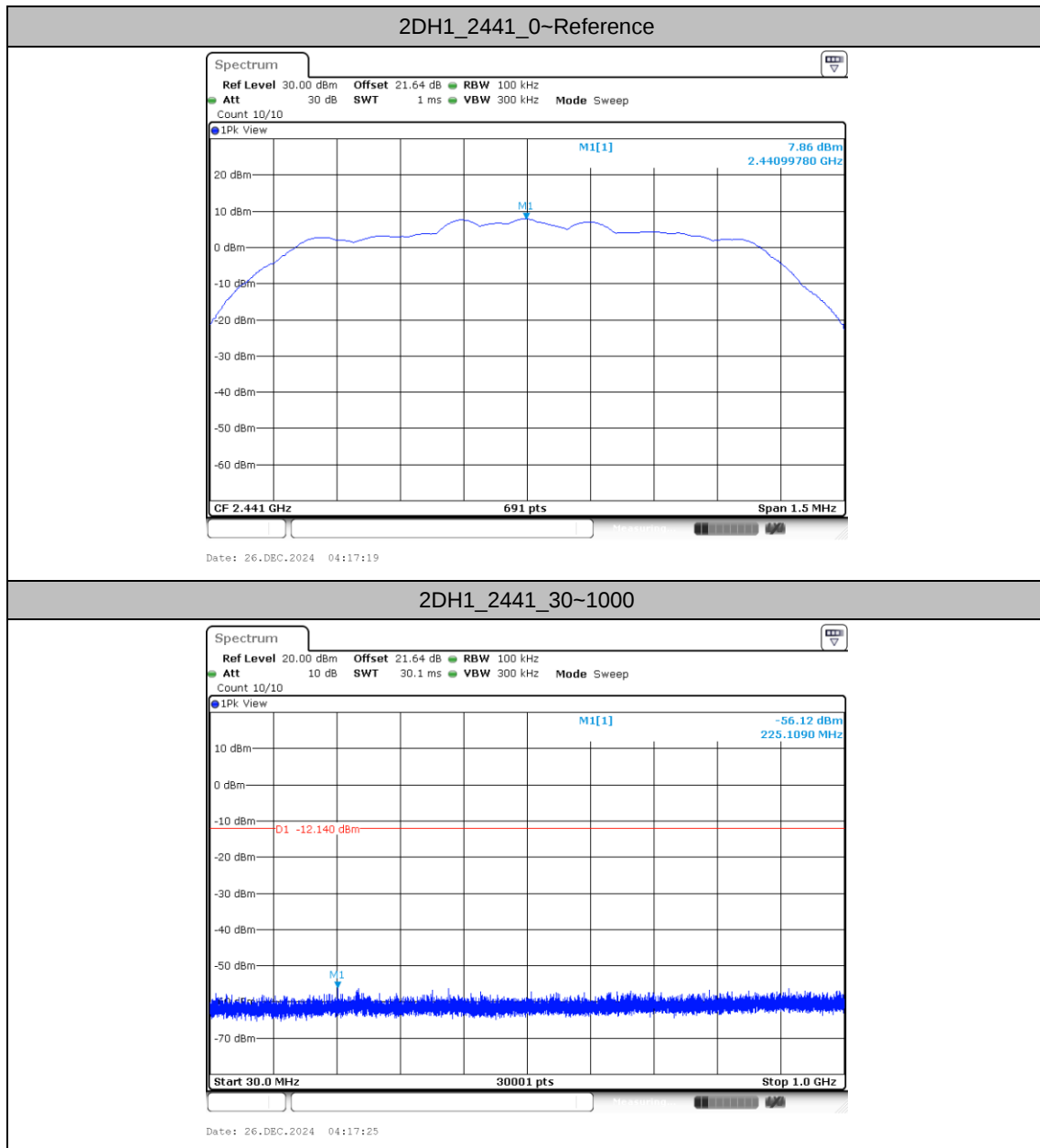


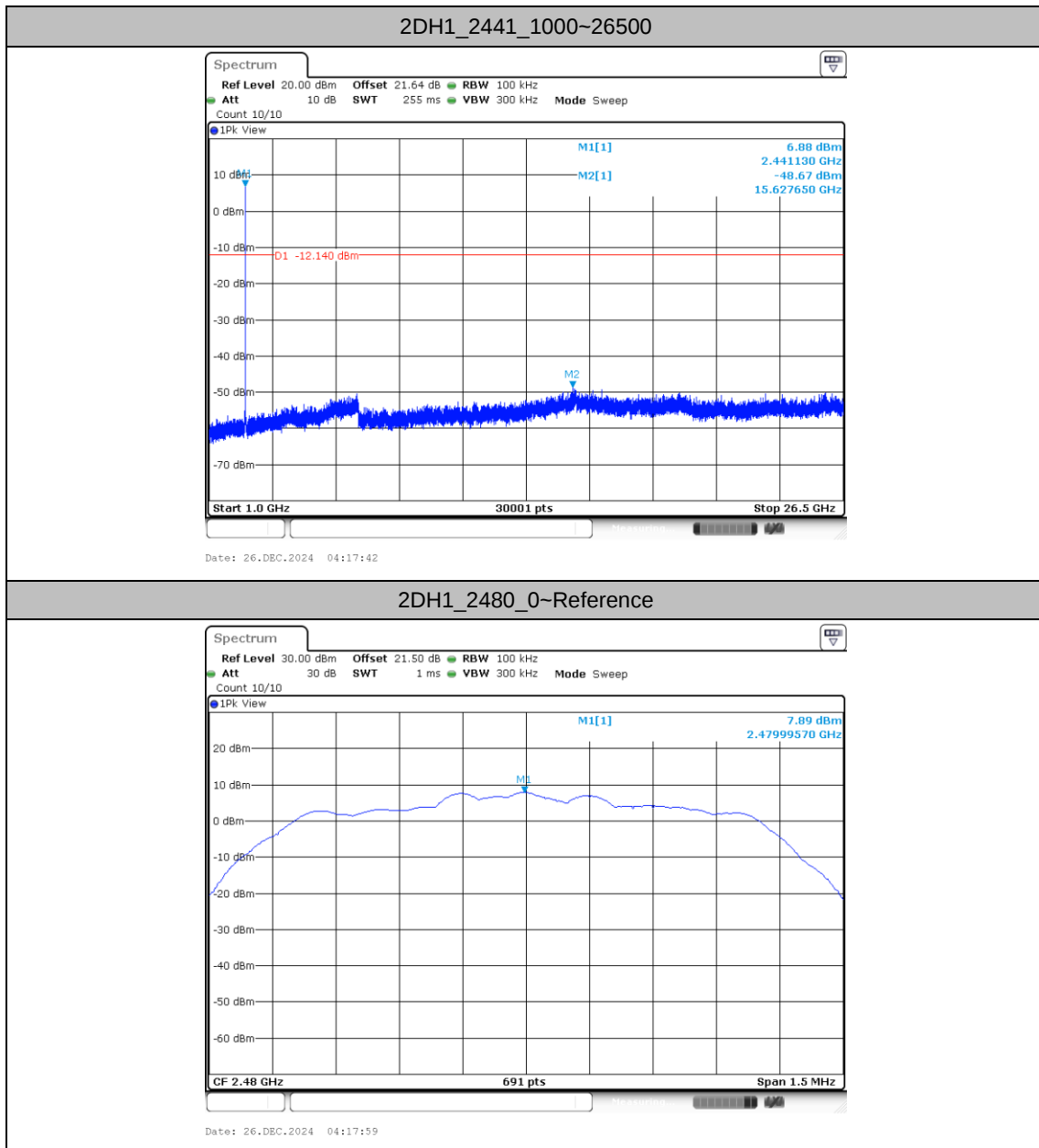


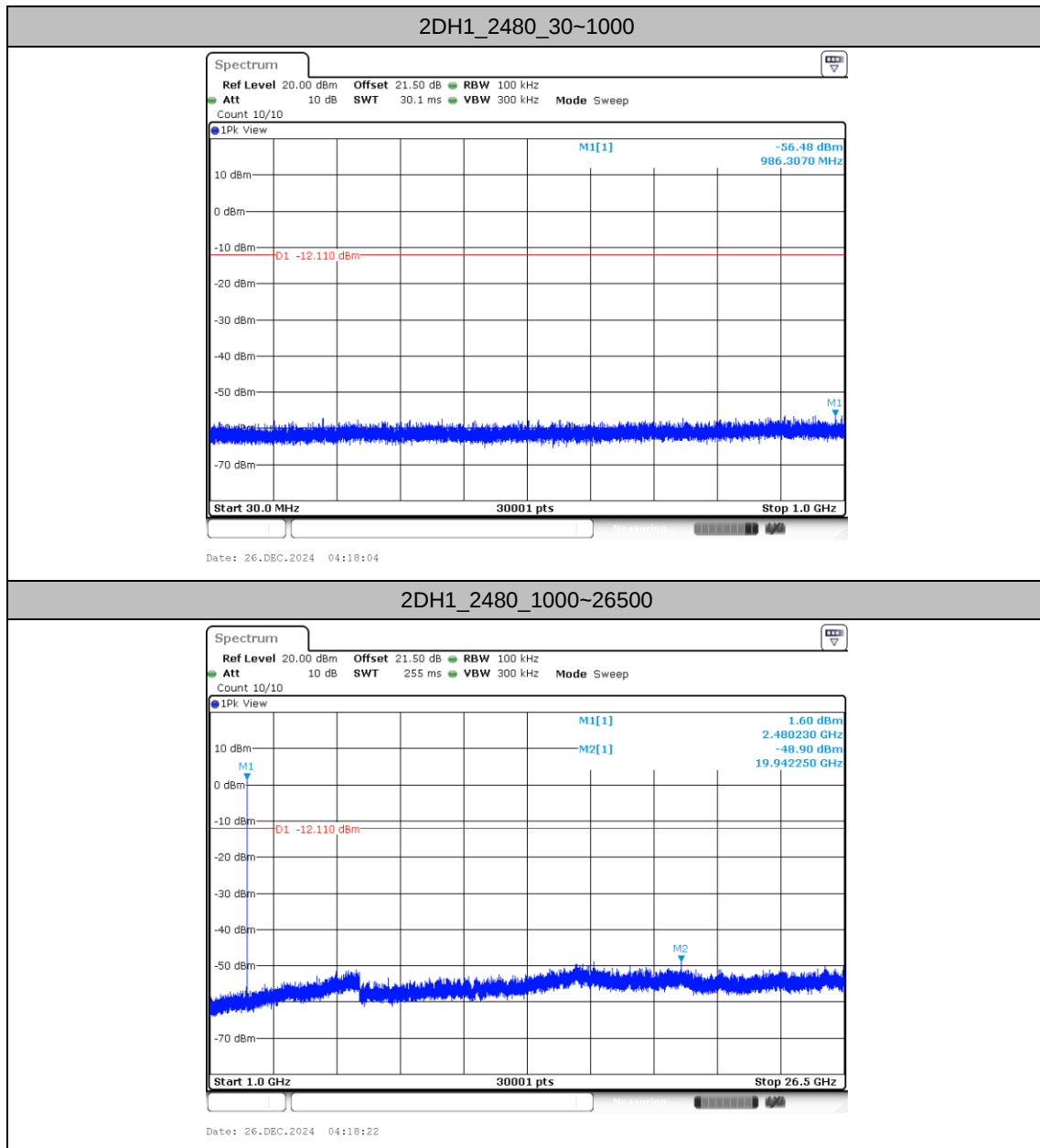


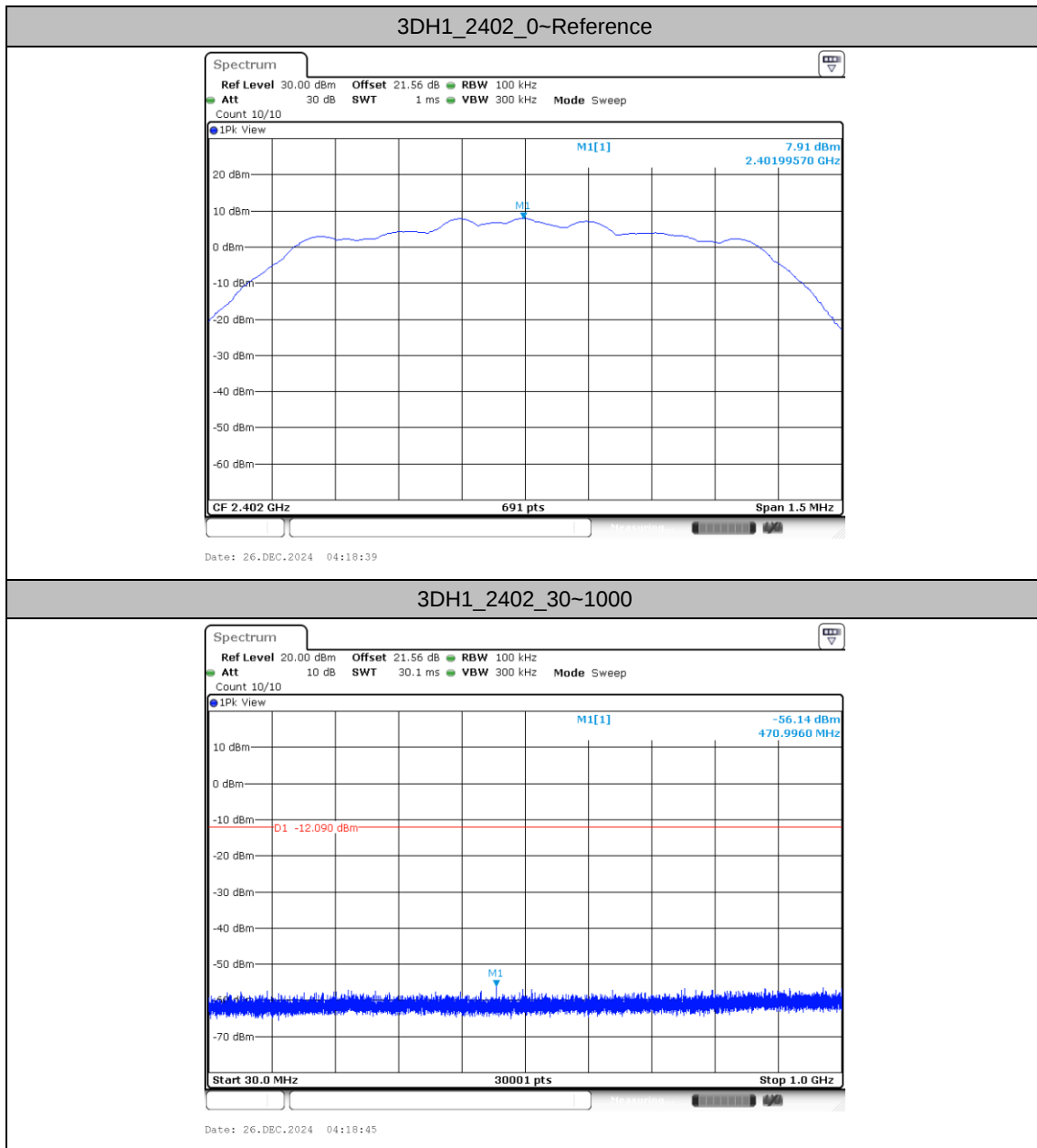


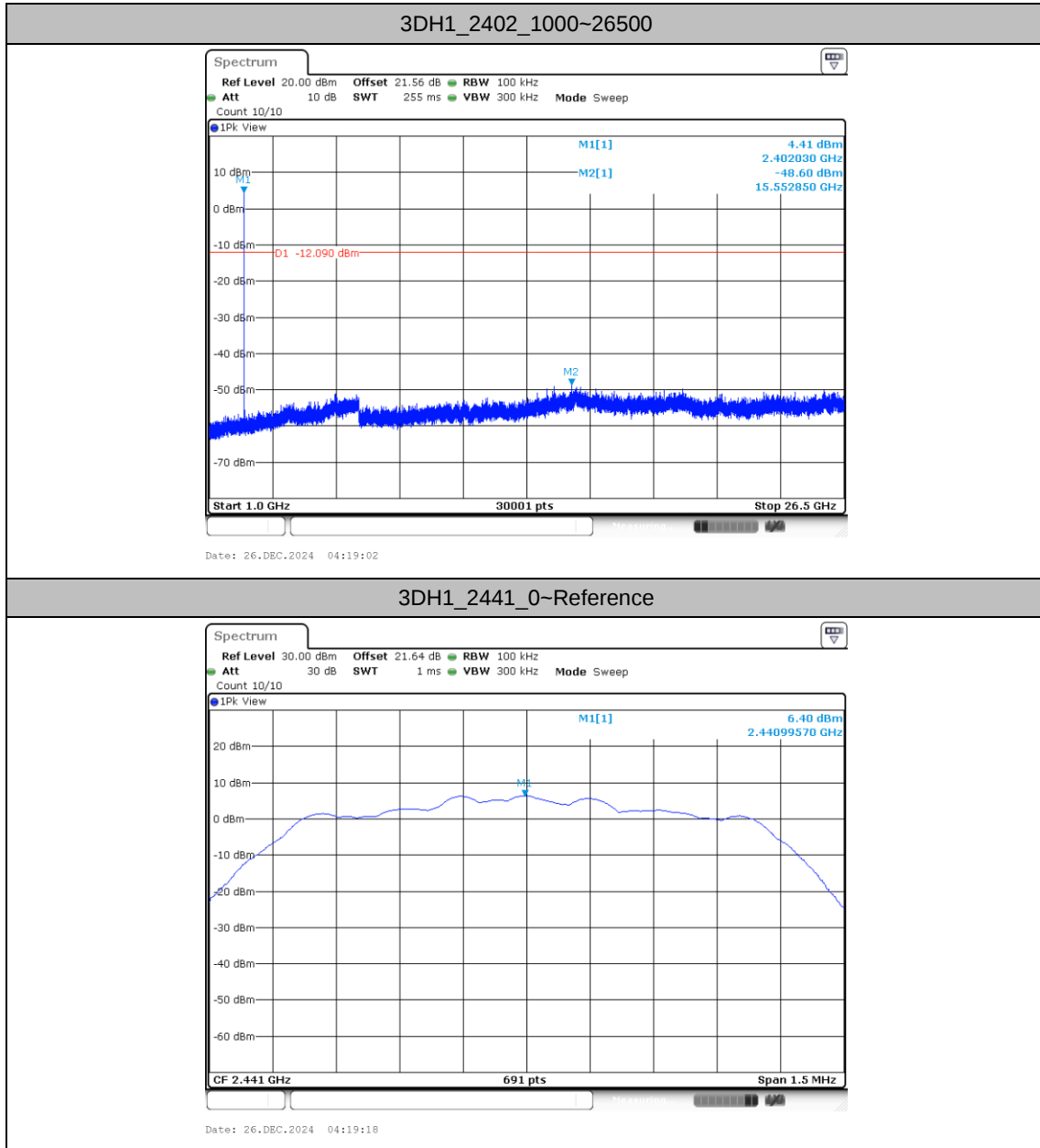


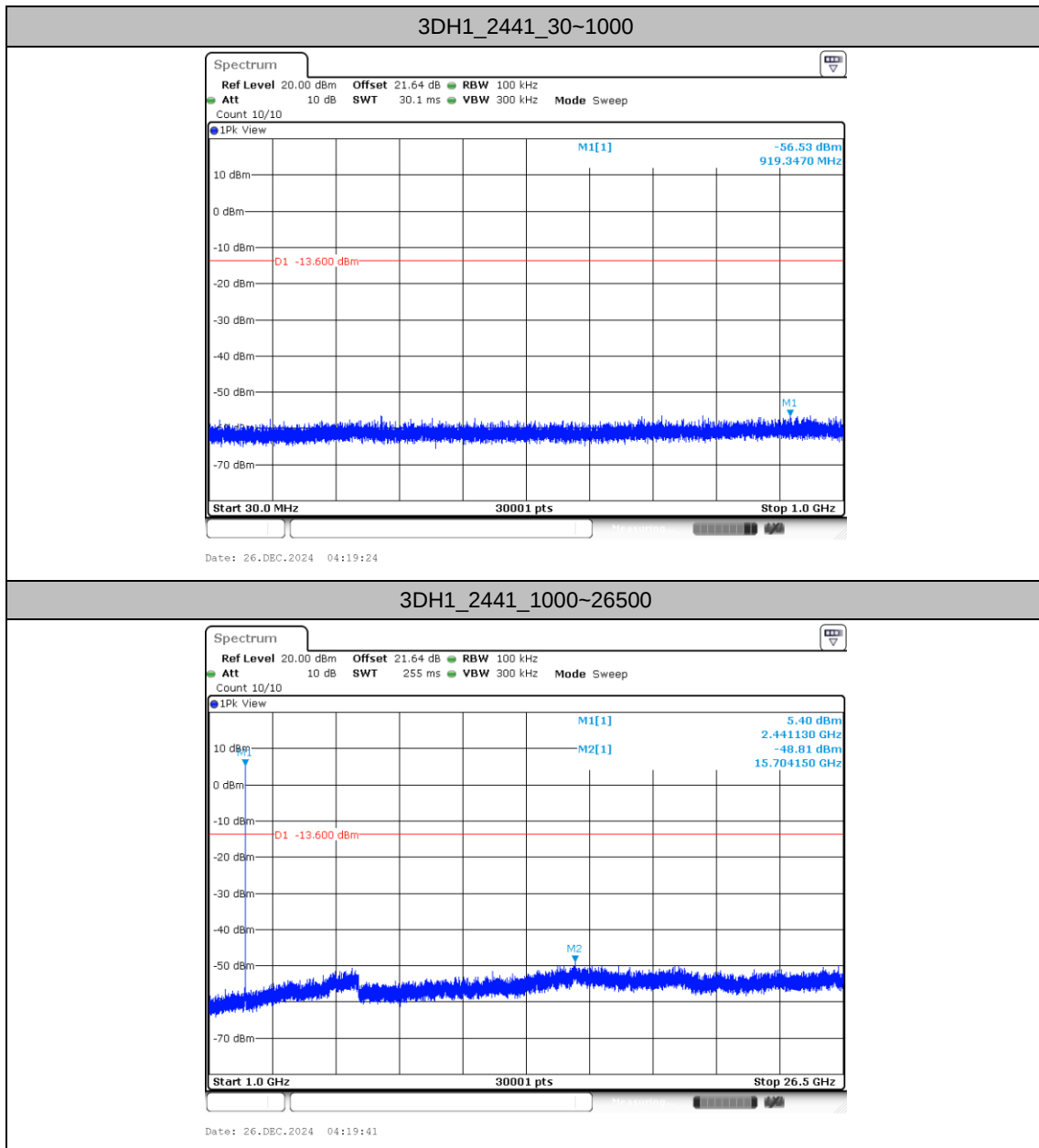


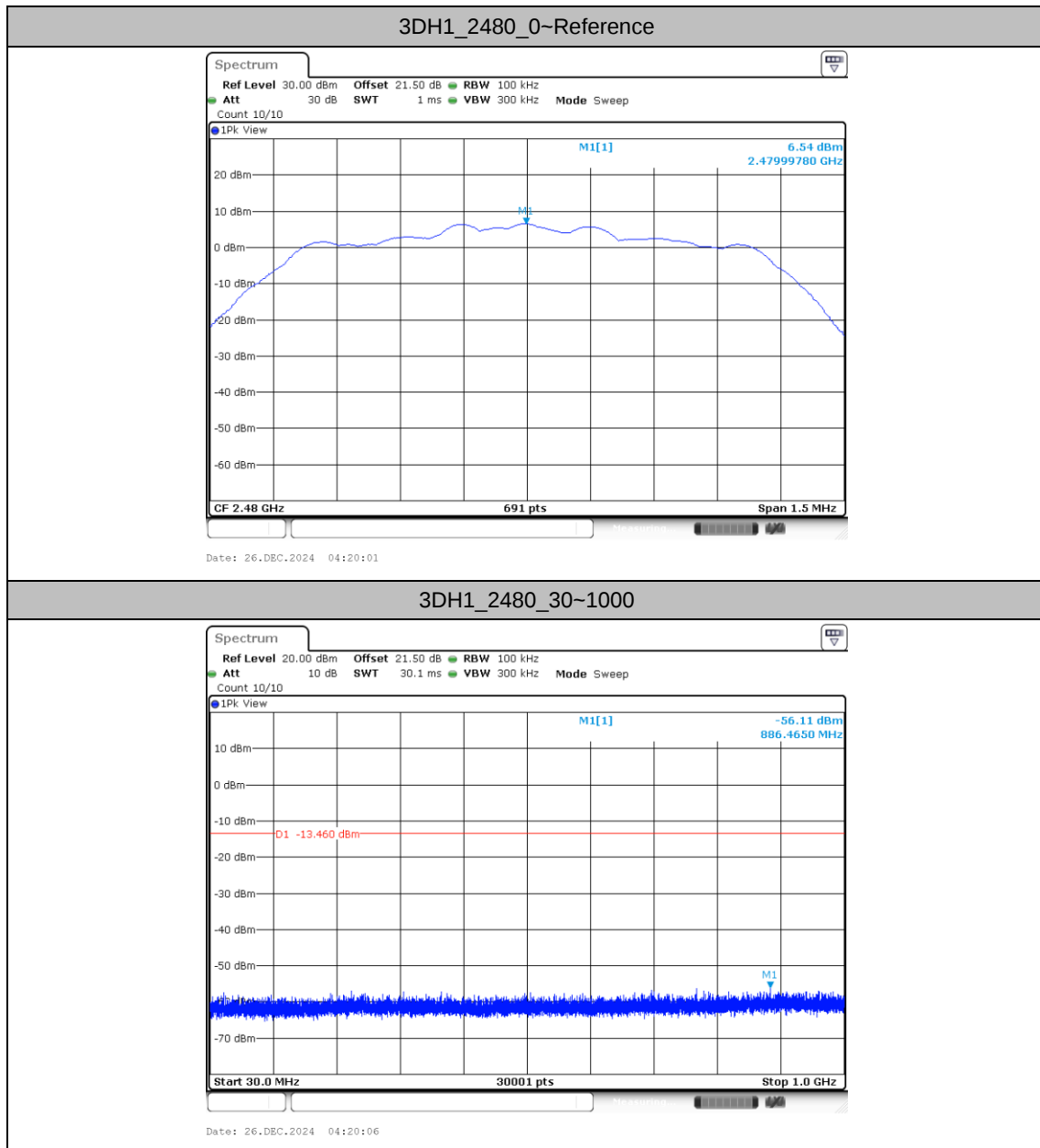


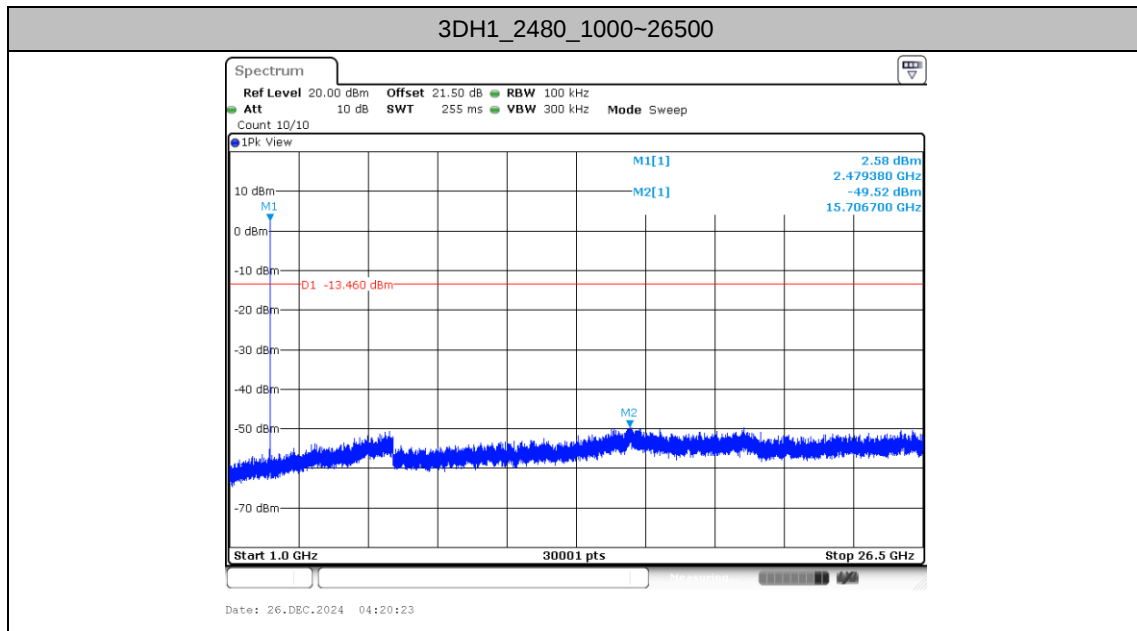








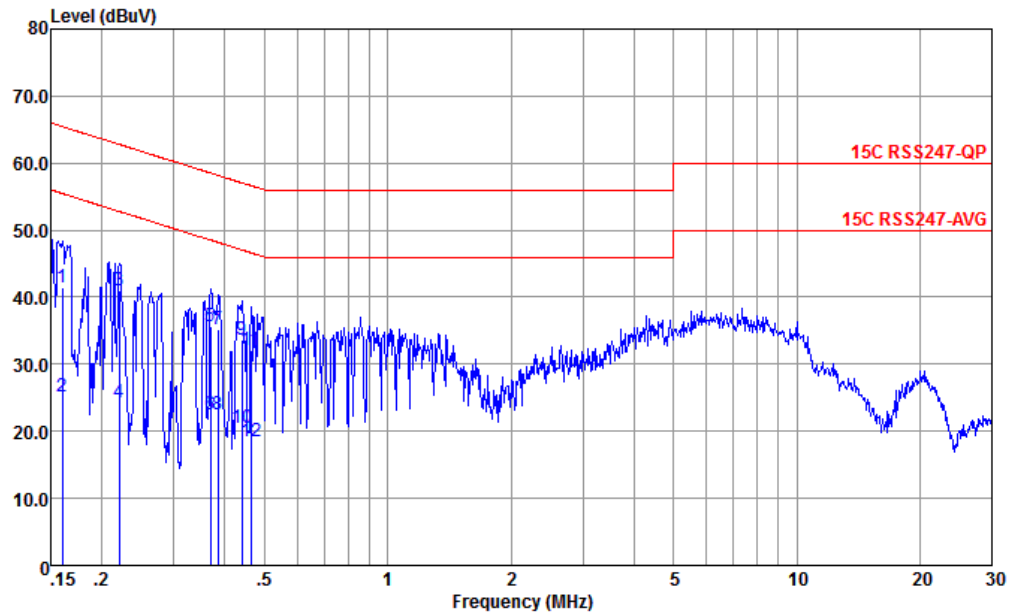






## Appendix B. AC Conducted Emission Test Results

|                 |                                                                                 |                     |             |
|-----------------|---------------------------------------------------------------------------------|---------------------|-------------|
| Test Engineer : | Amos                                                                            | Temperature :       | 25.3~26.2°C |
|                 |                                                                                 | Relative Humidity : | 38~40%      |
| Test Voltage :  | 120Vac / 60Hz                                                                   | Phase :             | Line        |
| Remark :        | All emissions not reported here are more than 10 dB below the prescribed limit. |                     |             |

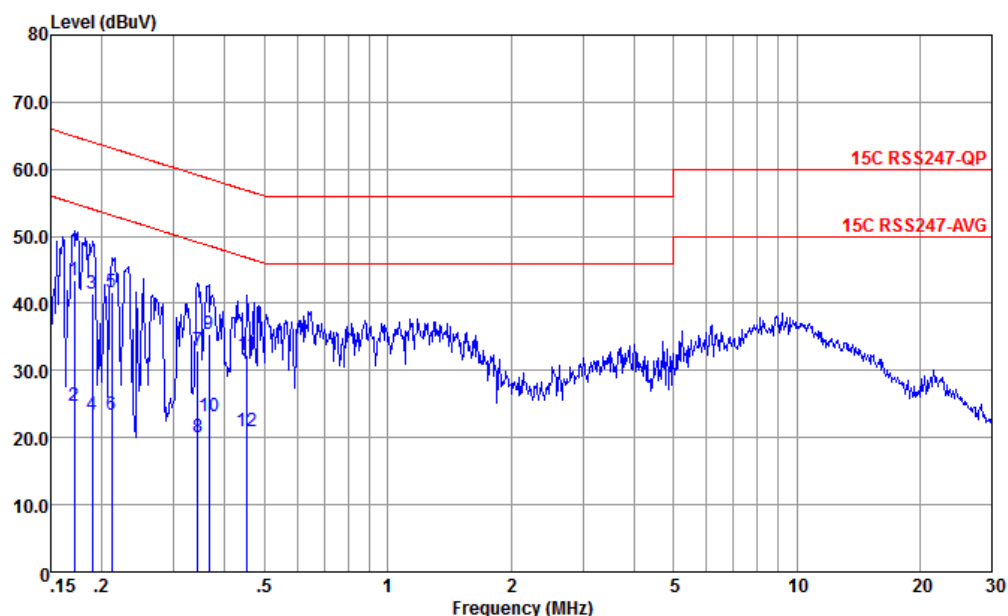


Site : CO01-KS  
Condition : 15C RSS247-QP LISN-060105-L 2024 LINE

|     | Freq  | Level | Over   | Limit | Read  | LISN   | Cable |         |
|-----|-------|-------|--------|-------|-------|--------|-------|---------|
|     | MHz   | dBuV  | Limit  | Line  | Level | Factor | Loss  | Remark  |
|     |       |       | dB     | dBuV  | dBuV  | dB     | dB    |         |
| 1   | 0.160 | 41.43 | -24.04 | 65.47 | 30.90 | 0.11   | 10.42 | QP      |
| 2   | 0.160 | 25.23 | -30.24 | 55.47 | 14.70 | 0.11   | 10.42 | Average |
| 3 * | 0.221 | 40.97 | -21.82 | 62.79 | 30.50 | 0.08   | 10.39 | QP      |
| 4   | 0.221 | 24.27 | -28.52 | 52.79 | 13.80 | 0.08   | 10.39 | Average |
| 5   | 0.369 | 35.60 | -22.92 | 58.52 | 25.30 | 0.01   | 10.29 | QP      |
| 6   | 0.369 | 22.40 | -26.12 | 48.52 | 12.10 | 0.01   | 10.29 | Average |
| 7   | 0.385 | 35.18 | -22.99 | 58.17 | 24.90 | -0.01  | 10.29 | QP      |
| 8   | 0.385 | 22.58 | -25.59 | 48.17 | 12.30 | -0.01  | 10.29 | Average |
| 9   | 0.440 | 33.70 | -23.37 | 57.07 | 23.51 | -0.06  | 10.25 | QP      |
| 10  | 0.440 | 20.60 | -26.47 | 47.07 | 10.41 | -0.06  | 10.25 | Average |
| 11  | 0.464 | 32.06 | -24.57 | 56.63 | 21.90 | -0.08  | 10.24 | QP      |
| 12  | 0.464 | 18.46 | -28.17 | 46.63 | 8.30  | -0.08  | 10.24 | Average |



|                 |                                                                                 |                     |             |
|-----------------|---------------------------------------------------------------------------------|---------------------|-------------|
| Test Engineer : | Amos                                                                            | Temperature :       | 25.3~26.2°C |
|                 |                                                                                 | Relative Humidity : | 38~40%      |
| Test Voltage :  | 120Vac / 60Hz                                                                   | Phase :             | Neutral     |
| Remark :        | All emissions not reported here are more than 10 dB below the prescribed limit. |                     |             |



|     | Freq  | Level | Over   | Limit | Read  | LISN   | Cable |         |
|-----|-------|-------|--------|-------|-------|--------|-------|---------|
|     | MHz   | dBuV  | Limit  | Line  | Level | Factor | Loss  | Remark  |
|     |       |       | dB     | dBuV  | dBuV  | dB     | dB    |         |
| 1 * | 0.171 | 43.44 | -21.46 | 64.90 | 32.90 | 0.12   | 10.42 | QP      |
| 2   | 0.171 | 24.74 | -30.16 | 64.90 | 14.20 | 0.12   | 10.42 | Average |
| 3   | 0.189 | 41.34 | -22.72 | 64.06 | 30.80 | 0.13   | 10.41 | QP      |
| 4   | 0.189 | 23.44 | -30.62 | 64.06 | 12.90 | 0.13   | 10.41 | Average |
| 5   | 0.212 | 41.59 | -21.55 | 63.14 | 31.10 | 0.09   | 10.40 | QP      |
| 6   | 0.212 | 23.49 | -29.65 | 53.14 | 13.00 | 0.09   | 10.40 | Average |
| 7   | 0.343 | 32.98 | -26.15 | 59.13 | 22.80 | -0.13  | 10.31 | QP      |
| 8   | 0.343 | 19.98 | -29.15 | 49.13 | 9.80  | -0.13  | 10.31 | Average |
| 9   | 0.365 | 35.46 | -23.15 | 58.61 | 25.29 | -0.13  | 10.30 | QP      |
| 10  | 0.365 | 23.06 | -25.55 | 48.61 | 12.89 | -0.13  | 10.30 | Average |
| 11  | 0.454 | 32.40 | -24.40 | 56.80 | 22.29 | -0.14  | 10.25 | QP      |
| 12  | 0.454 | 20.90 | -25.90 | 46.80 | 10.79 | -0.14  | 10.25 | Average |

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



## Appendix C. Radiated Spurious Emission

|                 |          |                     |         |
|-----------------|----------|---------------------|---------|
| Test Engineer : | Jerry Xu | Relative Humidity : | 41~42%  |
|                 |          | Temperature :       | 22~23°C |

### Radiated Spurious Emission Test Modes

| Mode   | Band (MHz)  | Modulation        | Channel | Frequency | Data Rate | RU | Remark |
|--------|-------------|-------------------|---------|-----------|-----------|----|--------|
| Mode 1 | 2400-2483.5 | Bluetooth BR_GFSK | 0       | 2402      | 1Mbps     | -  | -      |
| Mode 2 | 2400-2483.5 | Bluetooth BR_GFSK | 39      | 2441      | 1Mbps     | -  | -      |
| Mode 3 | 2400-2483.5 | Bluetooth BR_GFSK | 78      | 2480      | 1Mbps     | -  | -      |

### Summary of each worse mode

| Mode | Modulation        | Ch. | Freq. (MHz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Pol. | Peak Avg. | Result | Remark    |
|------|-------------------|-----|-------------|----------------|----------------|-------------|------|-----------|--------|-----------|
| 1    | Bluetooth BR_GFSK | 0   | 2389.82     | 56.81          | 74.00          | -17.19      | V    | PEAK      | Pass   | Band Edge |
| 1    | Bluetooth BR_GFSK | 0   | 4804.00     | 43.33          | 74.00          | -30.67      | V    | PEAK      | Pass   | Harmonic  |
| 2    | Bluetooth BR_GFSK | 39  | -           | -              | -              | -           | -    | -         | -      | Band Edge |
| 2    | Bluetooth BR_GFSK | 39  | 7323.00     | 44.66          | 74.00          | -29.34      | V    | PEAK      | Pass   | Harmonic  |
| 3    | Bluetooth BR_GFSK | 78  | 2483.51     | 63.45          | 74.00          | -10.55      | H    | Peak      | Pass   | Band Edge |
| 3    | Bluetooth BR_GFSK | 78  | 7440.00     | 44.74          | 74.00          | -29.26      | V    | PEAK      | Pass   | Harmonic  |



| Mode | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |        |        |        |        |        |        |      |        |            |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |       |       |      |       |      |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |       |       |      |       |      |     |         |   |         |       |       |       |       |       |      |       |      |     |            |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------|--------|--------|--------|--------|--------|------|--------|------------|--|------|-------|------|-------|-------|--------|------|--------|--------|--|--------|--|-----|--------|--------|----|------|------|----|----|----|-----|---|---------|-------|-------|--------|-------|-------|------|-------|------|-----|---------|---|---------|-------|-------|--------|-------|-------|------|-------|------|-----|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------|------|------|-----|-------|--------|-----|------|------|--|------|-------|------|-------|-------|--------|------|--------|--------|--|--------|--|-----|--------|--------|----|------|------|----|----|----|-----|---|---------|--------|-------|-------|-------|-------|------|-------|------|-----|---------|---|---------|-------|-------|-------|-------|-------|------|-------|------|-----|------------|
|      | Band Edge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |        |        |        |        |        |        |      |        |            |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |       |       |      |       |      |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |       |       |      |       |      |     |         |   |         |       |       |       |       |       |      |       |      |     |            |
|      | 2400-2483.5_Bluetooth BR_GFSK_CH0_2402MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |        |        |        |        |        |        |      |        |            |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |       |       |      |       |      |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |       |       |      |       |      |     |         |   |         |       |       |       |       |       |      |       |      |     |            |
| Pol. | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Fundamental |        |        |        |        |        |        |      |        |            |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |       |       |      |       |      |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |       |       |      |       |      |     |         |   |         |       |       |       |       |       |      |       |      |     |            |
| Peak | <div><table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2389.95</td><td>56.30</td><td>74.00</td><td>-17.70</td><td>43.40</td><td>32.48</td><td>6.60</td><td>32.18</td><td>6.00</td><td>143</td><td>35 PEAK</td></tr><tr><td>2</td><td>2389.95</td><td>31.54</td><td>54.00</td><td>-22.46</td><td>18.64</td><td>32.48</td><td>6.60</td><td>32.18</td><td>6.00</td><td>143</td><td>35 AVERAGE</td></tr></table></div> |             | Limit  | Over   | Read   | Ant    | Cable  | Preamp | Aux  | APos   | TPos       |  | Freq | Level | Line | Limit | Level | Factor | Loss | Factor | Factor |  | Remark |  | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | 1 | 2389.95 | 56.30 | 74.00 | -17.70 | 43.40 | 32.48 | 6.60 | 32.18 | 6.00 | 143 | 35 PEAK | 2 | 2389.95 | 31.54 | 54.00 | -22.46 | 18.64 | 32.48 | 6.60 | 32.18 | 6.00 | 143 | 35 AVERAGE | <div><table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2402.00</td><td>111.96</td><td>-----</td><td>-----</td><td>98.93</td><td>32.59</td><td>6.62</td><td>32.18</td><td>6.00</td><td>143</td><td>35 PEAK</td></tr><tr><td>2</td><td>2402.00</td><td>87.20</td><td>-----</td><td>-----</td><td>74.17</td><td>32.59</td><td>6.62</td><td>32.18</td><td>6.00</td><td>143</td><td>35 AVERAGE</td></tr></table></div> |  | Limit | Over | Read | Ant | Cable | Preamp | Aux | APos | TPos |  | Freq | Level | Line | Limit | Level | Factor | Loss | Factor | Factor |  | Remark |  | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | 1 | 2402.00 | 111.96 | ----- | ----- | 98.93 | 32.59 | 6.62 | 32.18 | 6.00 | 143 | 35 PEAK | 2 | 2402.00 | 87.20 | ----- | ----- | 74.17 | 32.59 | 6.62 | 32.18 | 6.00 | 143 | 35 AVERAGE |
|      | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Over        | Read   | Ant    | Cable  | Preamp | Aux    | APos   | TPos |        |            |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |       |       |      |       |      |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |       |       |      |       |      |     |         |   |         |       |       |       |       |       |      |       |      |     |            |
| Freq | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Line        | Limit  | Level  | Factor | Loss   | Factor | Factor |      | Remark |            |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |       |       |      |       |      |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |       |       |      |       |      |     |         |   |         |       |       |       |       |       |      |       |      |     |            |
|      | MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | dBuV/m      | dBuV/m | dB     | dBuV   | dB/m   | dB     | dB     | cm   | deg    |            |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |       |       |      |       |      |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |       |       |      |       |      |     |         |   |         |       |       |       |       |       |      |       |      |     |            |
| 1    | 2389.95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 56.30       | 74.00  | -17.70 | 43.40  | 32.48  | 6.60   | 32.18  | 6.00 | 143    | 35 PEAK    |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |       |       |      |       |      |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |       |       |      |       |      |     |         |   |         |       |       |       |       |       |      |       |      |     |            |
| 2    | 2389.95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 31.54       | 54.00  | -22.46 | 18.64  | 32.48  | 6.60   | 32.18  | 6.00 | 143    | 35 AVERAGE |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |       |       |      |       |      |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |       |       |      |       |      |     |         |   |         |       |       |       |       |       |      |       |      |     |            |
|      | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Over        | Read   | Ant    | Cable  | Preamp | Aux    | APos   | TPos |        |            |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |       |       |      |       |      |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |       |       |      |       |      |     |         |   |         |       |       |       |       |       |      |       |      |     |            |
| Freq | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Line        | Limit  | Level  | Factor | Loss   | Factor | Factor |      | Remark |            |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |       |       |      |       |      |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |       |       |      |       |      |     |         |   |         |       |       |       |       |       |      |       |      |     |            |
|      | MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | dBuV/m      | dBuV/m | dB     | dBuV   | dB/m   | dB     | dB     | cm   | deg    |            |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |       |       |      |       |      |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |       |       |      |       |      |     |         |   |         |       |       |       |       |       |      |       |      |     |            |
| 1    | 2402.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 111.96      | -----  | -----  | 98.93  | 32.59  | 6.62   | 32.18  | 6.00 | 143    | 35 PEAK    |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |       |       |      |       |      |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |       |       |      |       |      |     |         |   |         |       |       |       |       |       |      |       |      |     |            |
| 2    | 2402.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 87.20       | -----  | -----  | 74.17  | 32.59  | 6.62   | 32.18  | 6.00 | 143    | 35 AVERAGE |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |       |       |      |       |      |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |       |       |      |       |      |     |         |   |         |       |       |       |       |       |      |       |      |     |            |



1

Mode

Band Edge

2400-2483.5\_Bluetooth BR\_GFSK\_CH0\_2402MHz

Pol.

Vertical

Fundamental

Peak

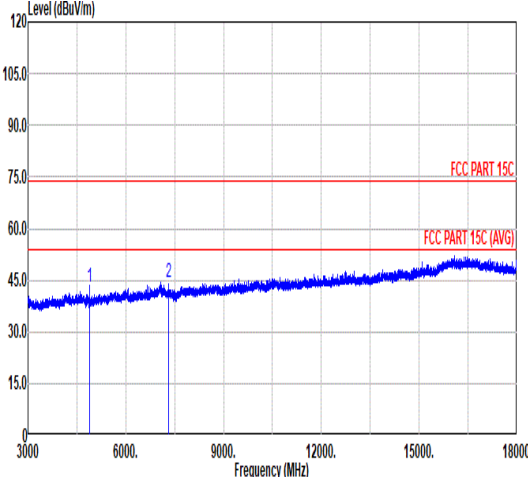
|      | Limit   | Over   | Read   | Ant    | Cable  | Preamp | Aux    | APos   | TPos |                 |
|------|---------|--------|--------|--------|--------|--------|--------|--------|------|-----------------|
| Freq | Level   | Line   | Limit  | Level  | Factor | Loss   | Factor | Factor |      | Remark          |
|      | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | dB/m   | dB     | dB     | cm   | deg             |
| 1    | 2389.82 | 56.81  | 74.00  | -17.19 | 43.91  | 32.48  | 6.60   | 32.18  | 6.00 | 350 253 PEAK    |
| 2    | 2389.82 | 32.05  | 54.00  | -21.95 | 19.15  | 32.48  | 6.60   | 32.18  | 6.00 | 350 253 AVERAGE |

|      | Limit   | Over   | Read   | Ant   | Cable  | Preamp | Aux    | APos   | TPos |                 |
|------|---------|--------|--------|-------|--------|--------|--------|--------|------|-----------------|
| Freq | Level   | Line   | Limit  | Level | Factor | Loss   | Factor | Factor |      | Remark          |
|      | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | dB/m   | dB     | dB     | cm   | deg             |
| 1    | 2402.00 | 106.93 | -----  | ----- | 93.90  | 32.59  | 6.62   | 32.18  | 6.00 | 350 253 PEAK    |
| 2    | 2402.00 | 82.17  | -----  | ----- | 69.14  | 32.59  | 6.62   | 32.18  | 6.00 | 350 253 AVERAGE |



| Mode            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |        |        |        |        |        |        |        |        |        |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |      |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|-------|------|------|-----|-------|--------|-----|------|------|--|------|-------|------|-------|-------|--------|------|--------|--------|--|--------|--|-----|--------|--------|----|------|------|----|----|----|-----|---|---------|-------|-------|--------|-------|-------|------|-------|------|-----|------|
|                 | Harmonic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |        |        |        |        |        |        |        |        |        |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |      |
|                 | 2400-2483.5_Bluetooth BR_GFSK_CH0_2402MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |        |        |        |        |        |        |        |        |        |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |      |
| Pol.            | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |        |        |        |        |        |        |        |        |        |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |      |
| Peak<br><br>Avg | <table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4804.00</td><td>43.30</td><td>74.00</td><td>-30.70</td><td>60.94</td><td>34.20</td><td>9.44</td><td>61.28</td><td>0.00</td><td>---</td><td>PEAK</td></tr></table> |        |        |        |        |        |        |        |        |        |        |  | Limit | Over | Read | Ant | Cable | Preamp | Aux | APos | TPos |  | Freq | Level | Line | Limit | Level | Factor | Loss | Factor | Factor |  | Remark |  | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | 1 | 4804.00 | 43.30 | 74.00 | -30.70 | 60.94 | 34.20 | 9.44 | 61.28 | 0.00 | --- | PEAK |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Limit  | Over   | Read   | Ant    | Cable  | Preamp | Aux    | APos   | TPos   |        |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |      |
|                 | Freq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Level  | Line   | Limit  | Level  | Factor | Loss   | Factor | Factor |        | Remark |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |      |
|                 | MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | dBuV/m | dBuV/m | dB     | dBuV   | dB/m   | dB     | dB     | cm     | deg    |        |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |      |
| 1               | 4804.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 43.30  | 74.00  | -30.70 | 60.94  | 34.20  | 9.44   | 61.28  | 0.00   | ---    | PEAK   |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |      |
|                 | <table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4804.00</td><td>43.33</td><td>74.00</td><td>-30.67</td><td>60.97</td><td>34.20</td><td>9.44</td><td>61.28</td><td>0.00</td><td>---</td><td>PEAK</td></tr></table> |        |        |        |        |        |        |        |        |        |        |  | Limit | Over | Read | Ant | Cable | Preamp | Aux | APos | TPos |  | Freq | Level | Line | Limit | Level | Factor | Loss | Factor | Factor |  | Remark |  | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | 1 | 4804.00 | 43.33 | 74.00 | -30.67 | 60.97 | 34.20 | 9.44 | 61.28 | 0.00 | --- | PEAK |
|                 | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Over   | Read   | Ant    | Cable  | Preamp | Aux    | APos   | TPos   |        |        |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |      |
| Freq            | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Line   | Limit  | Level  | Factor | Loss   | Factor | Factor |        | Remark |        |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |      |
|                 | MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | dBuV/m | dBuV/m | dB     | dBuV   | dB/m   | dB     | dB     | cm     | deg    |        |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |      |
| 1               | 4804.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 43.33  | 74.00  | -30.67 | 60.97  | 34.20  | 9.44   | 61.28  | 0.00   | ---    | PEAK   |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |      |

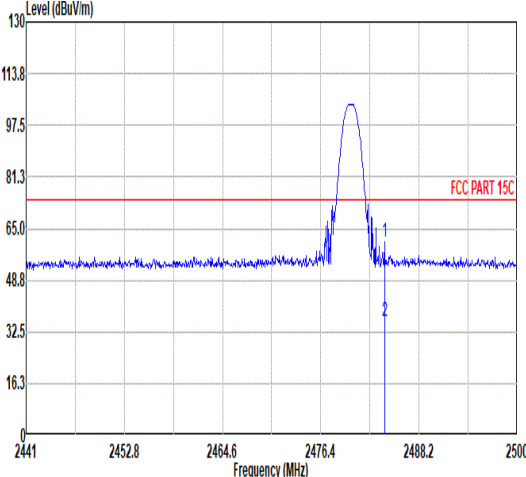


| Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |        |        |        |        |        |        |      |          |  |       |       |      |      |       |        |        |      |      |      |      |       |       |       |       |        |        |        |        |        |        |        |     |        |        |        |      |      |      |    |    |     |     |         |         |       |        |        |       |       |       |       |          |          |         |         |       |        |        |       |       |       |       |          |          |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Harmonic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |        |        |        |        |        |        |      |          |  |       |       |      |      |       |        |        |      |      |      |      |       |       |       |       |        |        |        |        |        |        |        |     |        |        |        |      |      |      |    |    |     |     |         |         |       |        |        |       |       |       |       |          |          |         |         |       |        |        |       |       |       |       |          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        |        |        |        |        |        |        |      |          |  |       |       |      |      |       |        |        |      |      |      |      |       |       |       |       |        |        |        |        |        |        |        |     |        |        |        |      |      |      |    |    |     |     |         |         |       |        |        |       |       |       |       |          |          |         |         |       |        |        |       |       |       |       |          |          |
| Pol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        |        |        |        |        |        |        |      |          |  |       |       |      |      |       |        |        |      |      |      |      |       |       |       |       |        |        |        |        |        |        |        |     |        |        |        |      |      |      |    |    |     |     |         |         |       |        |        |       |       |       |       |          |          |         |         |       |        |        |       |       |       |       |          |          |
| Peak<br><br>Avg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |        |        |        |        |        |        |      |          |  |       |       |      |      |       |        |        |      |      |      |      |       |       |       |       |        |        |        |        |        |        |        |     |        |        |        |      |      |      |    |    |     |     |         |         |       |        |        |       |       |       |       |          |          |         |         |       |        |        |       |       |       |       |          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4882.00</td><td>42.94</td><td>74.00</td><td>-31.06</td><td>60.49</td><td>34.14</td><td>9.53</td><td>61.22</td><td>0.00</td><td>--- PEAK</td></tr><tr><td>2</td><td>7323.00</td><td>44.31</td><td>74.00</td><td>-29.69</td><td>57.67</td><td>35.70</td><td>11.69</td><td>60.75</td><td>0.00</td><td>--- PEAK</td></tr></table> |        |        |        |        |        |        |        |      |          |  |       | Limit | Over | Read | Ant   | Cable  | Preamp | Aux  | APos | TPos |      | Freq  | Level | Line  | Limit | Level  | Factor | Loss   | Factor | Factor |        | Remark |     | MHz    | dBuV/m | dBuV/m | dB   | dBuV | dB/m | dB | dB | cm  | deg | 1       | 4882.00 | 42.94 | 74.00  | -31.06 | 60.49 | 34.14 | 9.53  | 61.22 | 0.00     | --- PEAK | 2       | 7323.00 | 44.31 | 74.00  | -29.69 | 57.67 | 35.70 | 11.69 | 60.75 | 0.00     | --- PEAK |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Limit  | Over   | Read   | Ant    | Cable  | Preamp | Aux    | APos | TPos     |  |       |       |      |      |       |        |        |      |      |      |      |       |       |       |       |        |        |        |        |        |        |        |     |        |        |        |      |      |      |    |    |     |     |         |         |       |        |        |       |       |       |       |          |          |         |         |       |        |        |       |       |       |       |          |          |
| Freq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Line   | Limit  | Level  | Factor | Loss   | Factor | Factor |      | Remark   |  |       |       |      |      |       |        |        |      |      |      |      |       |       |       |       |        |        |        |        |        |        |        |     |        |        |        |      |      |      |    |    |     |     |         |         |       |        |        |       |       |       |       |          |          |         |         |       |        |        |       |       |       |       |          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | dBuV/m | dBuV/m | dB     | dBuV   | dB/m   | dB     | dB     | cm   | deg      |  |       |       |      |      |       |        |        |      |      |      |      |       |       |       |       |        |        |        |        |        |        |        |     |        |        |        |      |      |      |    |    |     |     |         |         |       |        |        |       |       |       |       |          |          |         |         |       |        |        |       |       |       |       |          |          |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4882.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 42.94  | 74.00  | -31.06 | 60.49  | 34.14  | 9.53   | 61.22  | 0.00 | --- PEAK |  |       |       |      |      |       |        |        |      |      |      |      |       |       |       |       |        |        |        |        |        |        |        |     |        |        |        |      |      |      |    |    |     |     |         |         |       |        |        |       |       |       |       |          |          |         |         |       |        |        |       |       |       |       |          |          |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 7323.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 44.31  | 74.00  | -29.69 | 57.67  | 35.70  | 11.69  | 60.75  | 0.00 | --- PEAK |  |       |       |      |      |       |        |        |      |      |      |      |       |       |       |       |        |        |        |        |        |        |        |     |        |        |        |      |      |      |    |    |     |     |         |         |       |        |        |       |       |       |       |          |          |         |         |       |        |        |       |       |       |       |          |          |
| <table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4882.00</td><td>40.93</td><td>74.00</td><td>-33.07</td><td>58.48</td><td>34.14</td><td>9.53</td><td>61.22</td><td>0.00</td><td>--- PEAK</td></tr><tr><td>2</td><td>7323.00</td><td>44.66</td><td>74.00</td><td>-29.34</td><td>58.02</td><td>35.70</td><td>11.69</td><td>60.75</td><td>0.00</td><td>--- PEAK</td></tr></table> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |        |        |        |        |        |        |      |          |  | Limit | Over  | Read | Ant  | Cable | Preamp | Aux    | APos | TPos |      | Freq | Level | Line  | Limit | Level | Factor | Loss   | Factor | Factor |        | Remark |        | MHz | dBuV/m | dBuV/m | dB     | dBuV | dB/m | dB   | dB | cm | deg | 1   | 4882.00 | 40.93   | 74.00 | -33.07 | 58.48  | 34.14 | 9.53  | 61.22 | 0.00  | --- PEAK | 2        | 7323.00 | 44.66   | 74.00 | -29.34 | 58.02  | 35.70 | 11.69 | 60.75 | 0.00  | --- PEAK |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Over   | Read   | Ant    | Cable  | Preamp | Aux    | APos   | TPos |          |  |       |       |      |      |       |        |        |      |      |      |      |       |       |       |       |        |        |        |        |        |        |        |     |        |        |        |      |      |      |    |    |     |     |         |         |       |        |        |       |       |       |       |          |          |         |         |       |        |        |       |       |       |       |          |          |
| Freq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Line   | Limit  | Level  | Factor | Loss   | Factor | Factor |      | Remark   |  |       |       |      |      |       |        |        |      |      |      |      |       |       |       |       |        |        |        |        |        |        |        |     |        |        |        |      |      |      |    |    |     |     |         |         |       |        |        |       |       |       |       |          |          |         |         |       |        |        |       |       |       |       |          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | dBuV/m | dBuV/m | dB     | dBuV   | dB/m   | dB     | dB     | cm   | deg      |  |       |       |      |      |       |        |        |      |      |      |      |       |       |       |       |        |        |        |        |        |        |        |     |        |        |        |      |      |      |    |    |     |     |         |         |       |        |        |       |       |       |       |          |          |         |         |       |        |        |       |       |       |       |          |          |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4882.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 40.93  | 74.00  | -33.07 | 58.48  | 34.14  | 9.53   | 61.22  | 0.00 | --- PEAK |  |       |       |      |      |       |        |        |      |      |      |      |       |       |       |       |        |        |        |        |        |        |        |     |        |        |        |      |      |      |    |    |     |     |         |         |       |        |        |       |       |       |       |          |          |         |         |       |        |        |       |       |       |       |          |          |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 7323.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 44.66  | 74.00  | -29.34 | 58.02  | 35.70  | 11.69  | 60.75  | 0.00 | --- PEAK |  |       |       |      |      |       |        |        |      |      |      |      |       |       |       |       |        |        |        |        |        |        |        |     |        |        |        |      |      |      |    |    |     |     |         |         |       |        |        |       |       |       |       |          |          |         |         |       |        |        |       |       |       |       |          |          |



| Mode | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |        |        |        |        |        |        |      |            |            |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |       |       |      |       |      |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |       |      |       |      |     |         |   |         |       |       |       |       |      |       |      |     |            |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------|--------|--------|--------|--------|--------|------|------------|------------|--|------|-------|------|-------|-------|--------|------|--------|--------|--|--------|--|-----|--------|--------|----|------|------|----|----|----|-----|---|---------|-------|-------|--------|-------|-------|------|-------|------|-----|---------|---|---------|-------|-------|--------|-------|-------|------|-------|------|-----|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------|------|------|-----|-------|--------|-----|------|------|--|------|-------|------|-------|-------|--------|------|--------|--------|--|--------|--|-----|--------|--------|----|------|------|----|----|----|-----|---|---------|--------|-------|-------|-------|------|-------|------|-----|---------|---|---------|-------|-------|-------|-------|------|-------|------|-----|------------|
|      | Band Edge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |        |        |        |        |        |        |      |            |            |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |       |       |      |       |      |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |       |      |       |      |     |         |   |         |       |       |       |       |      |       |      |     |            |
|      | 2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |        |        |        |        |        |        |      |            |            |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |       |       |      |       |      |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |       |      |       |      |     |         |   |         |       |       |       |       |      |       |      |     |            |
| Pol. | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Fundamental |        |        |        |        |        |        |      |            |            |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |       |       |      |       |      |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |       |      |       |      |     |         |   |         |       |       |       |       |      |       |      |     |            |
| Peak | <div><table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2483.51</td><td>63.45</td><td>74.00</td><td>-10.55</td><td>50.35</td><td>32.60</td><td>6.73</td><td>32.23</td><td>6.00</td><td>128</td><td>35 Peak</td></tr><tr><td>2</td><td>2483.51</td><td>38.69</td><td>54.00</td><td>-15.31</td><td>25.59</td><td>32.60</td><td>6.73</td><td>32.23</td><td>6.00</td><td>128</td><td>35 Average</td></tr></table></div> |             | Limit  | Over   | Read   | Ant    | Cable  | Preamp | Aux  | APos       | TPos       |  | Freq | Level | Line | Limit | Level | Factor | Loss | Factor | Factor |  | Remark |  | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | 1 | 2483.51 | 63.45 | 74.00 | -10.55 | 50.35 | 32.60 | 6.73 | 32.23 | 6.00 | 128 | 35 Peak | 2 | 2483.51 | 38.69 | 54.00 | -15.31 | 25.59 | 32.60 | 6.73 | 32.23 | 6.00 | 128 | 35 Average | <div><table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2480.00</td><td>109.39</td><td>-----</td><td>96.31</td><td>32.58</td><td>6.73</td><td>32.23</td><td>6.00</td><td>128</td><td>35 PEAK</td></tr><tr><td>2</td><td>2480.00</td><td>84.63</td><td>-----</td><td>71.55</td><td>32.58</td><td>6.73</td><td>32.23</td><td>6.00</td><td>128</td><td>35 AVERAGE</td></tr></table></div> |  | Limit | Over | Read | Ant | Cable | Preamp | Aux | APos | TPos |  | Freq | Level | Line | Limit | Level | Factor | Loss | Factor | Factor |  | Remark |  | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | 1 | 2480.00 | 109.39 | ----- | 96.31 | 32.58 | 6.73 | 32.23 | 6.00 | 128 | 35 PEAK | 2 | 2480.00 | 84.63 | ----- | 71.55 | 32.58 | 6.73 | 32.23 | 6.00 | 128 | 35 AVERAGE |
|      | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Over        | Read   | Ant    | Cable  | Preamp | Aux    | APos   | TPos |            |            |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |       |       |      |       |      |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |       |      |       |      |     |         |   |         |       |       |       |       |      |       |      |     |            |
| Freq | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Line        | Limit  | Level  | Factor | Loss   | Factor | Factor |      | Remark     |            |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |       |       |      |       |      |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |       |      |       |      |     |         |   |         |       |       |       |       |      |       |      |     |            |
|      | MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | dBuV/m      | dBuV/m | dB     | dBuV   | dB/m   | dB     | dB     | cm   | deg        |            |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |       |       |      |       |      |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |       |      |       |      |     |         |   |         |       |       |       |       |      |       |      |     |            |
| 1    | 2483.51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 63.45       | 74.00  | -10.55 | 50.35  | 32.60  | 6.73   | 32.23  | 6.00 | 128        | 35 Peak    |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |       |       |      |       |      |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |       |      |       |      |     |         |   |         |       |       |       |       |      |       |      |     |            |
| 2    | 2483.51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 38.69       | 54.00  | -15.31 | 25.59  | 32.60  | 6.73   | 32.23  | 6.00 | 128        | 35 Average |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |       |       |      |       |      |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |       |      |       |      |     |         |   |         |       |       |       |       |      |       |      |     |            |
|      | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Over        | Read   | Ant    | Cable  | Preamp | Aux    | APos   | TPos |            |            |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |       |       |      |       |      |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |       |      |       |      |     |         |   |         |       |       |       |       |      |       |      |     |            |
| Freq | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Line        | Limit  | Level  | Factor | Loss   | Factor | Factor |      | Remark     |            |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |       |       |      |       |      |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |       |      |       |      |     |         |   |         |       |       |       |       |      |       |      |     |            |
|      | MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | dBuV/m      | dBuV/m | dB     | dBuV   | dB/m   | dB     | dB     | cm   | deg        |            |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |       |       |      |       |      |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |       |      |       |      |     |         |   |         |       |       |       |       |      |       |      |     |            |
| 1    | 2480.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 109.39      | -----  | 96.31  | 32.58  | 6.73   | 32.23  | 6.00   | 128  | 35 PEAK    |            |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |       |       |      |       |      |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |       |      |       |      |     |         |   |         |       |       |       |       |      |       |      |     |            |
| 2    | 2480.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 84.63       | -----  | 71.55  | 32.58  | 6.73   | 32.23  | 6.00   | 128  | 35 AVERAGE |            |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |         |   |         |       |       |        |       |       |      |       |      |     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |       |       |      |       |      |     |         |   |         |       |       |       |       |      |       |      |     |            |

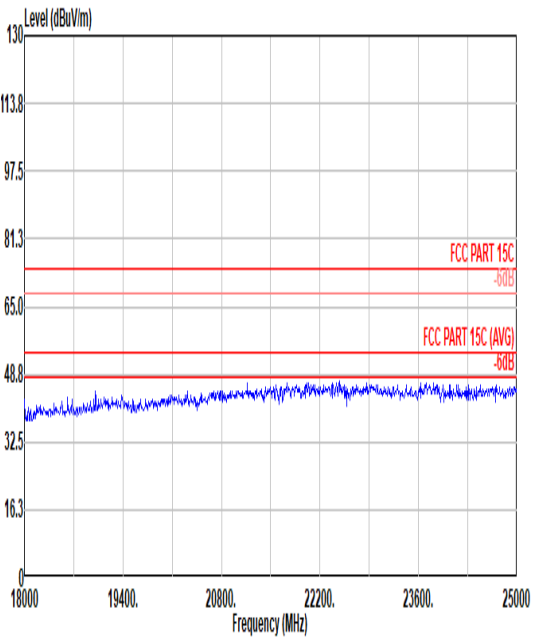
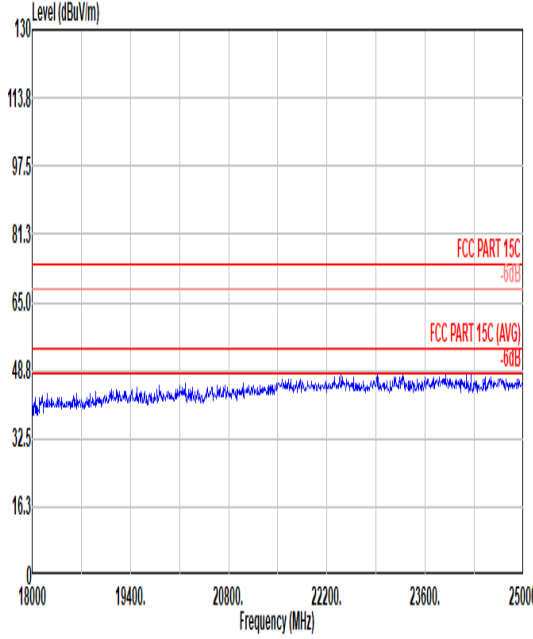


|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3      |        |        |        |        |        |        |      |        |             |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |        |       |       |      |       |      |     |          |   |         |       |       |        |       |       |      |       |      |     |             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|------|--------|-------------|--|-------|------|------|-----|-------|--------|-----|------|------|--|------|-------|------|-------|-------|--------|------|--------|--------|--|--------|--|-----|--------|--------|----|------|------|----|----|----|-----|---|---------|--------|-------|--------|-------|-------|------|-------|------|-----|----------|---|---------|-------|-------|--------|-------|-------|------|-------|------|-----|-------------|
| Mode | Band Edge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |        |        |        |        |        |        |      |        |             |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |        |       |       |      |       |      |     |          |   |         |       |       |        |       |       |      |       |      |     |             |
|      | 2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |        |        |        |        |        |        |      |        |             |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |        |       |       |      |       |      |     |          |   |         |       |       |        |       |       |      |       |      |     |             |
| Pol. | Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |        |        |        |        |        |        |      |        |             |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |        |       |       |      |       |      |     |          |   |         |       |       |        |       |       |      |       |      |     |             |
| Peak |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |        |        |        |        |        |        |      |        |             |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |        |       |       |      |       |      |     |          |   |         |       |       |        |       |       |      |       |      |     |             |
|      | <table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2484.07</td><td>60.64</td><td>74.00</td><td>-13.36</td><td>47.54</td><td>32.60</td><td>6.73</td><td>32.23</td><td>6.00</td><td>287</td><td>266 PEAK</td></tr><tr><td>2</td><td>2484.07</td><td>35.88</td><td>54.00</td><td>-18.12</td><td>22.78</td><td>32.60</td><td>6.73</td><td>32.23</td><td>6.00</td><td>287</td><td>266 AVERAGE</td></tr></table> |        |        |        |        |        |        |        |      |        |             |  | Limit | Over | Read | Ant | Cable | Preamp | Aux | APos | TPos |  | Freq | Level | Line | Limit | Level | Factor | Loss | Factor | Factor |  | Remark |  | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | 1 | 2484.07 | 60.64  | 74.00 | -13.36 | 47.54 | 32.60 | 6.73 | 32.23 | 6.00 | 287 | 266 PEAK | 2 | 2484.07 | 35.88 | 54.00 | -18.12 | 22.78 | 32.60 | 6.73 | 32.23 | 6.00 | 287 | 266 AVERAGE |
|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Limit  | Over   | Read   | Ant    | Cable  | Preamp | Aux    | APos | TPos   |             |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |        |       |       |      |       |      |     |          |   |         |       |       |        |       |       |      |       |      |     |             |
| Freq | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Line   | Limit  | Level  | Factor | Loss   | Factor | Factor |      | Remark |             |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |        |       |       |      |       |      |     |          |   |         |       |       |        |       |       |      |       |      |     |             |
|      | MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | dBuV/m | dBuV/m | dB     | dBuV   | dB/m   | dB     | dB     | cm   | deg    |             |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |        |       |       |      |       |      |     |          |   |         |       |       |        |       |       |      |       |      |     |             |
| 1    | 2484.07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 60.64  | 74.00  | -13.36 | 47.54  | 32.60  | 6.73   | 32.23  | 6.00 | 287    | 266 PEAK    |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |        |       |       |      |       |      |     |          |   |         |       |       |        |       |       |      |       |      |     |             |
| 2    | 2484.07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 35.88  | 54.00  | -18.12 | 22.78  | 32.60  | 6.73   | 32.23  | 6.00 | 287    | 266 AVERAGE |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |        |       |       |      |       |      |     |          |   |         |       |       |        |       |       |      |       |      |     |             |
|      | <table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2480.00</td><td>104.40</td><td>-----</td><td>-----</td><td>91.32</td><td>32.58</td><td>6.73</td><td>32.23</td><td>6.00</td><td>287</td><td>266 PEAK</td></tr><tr><td>2</td><td>2480.00</td><td>79.64</td><td>-----</td><td>-----</td><td>66.56</td><td>32.58</td><td>6.73</td><td>32.23</td><td>6.00</td><td>287</td><td>266 AVERAGE</td></tr></table>  |        |        |        |        |        |        |        |      |        |             |  | Limit | Over | Read | Ant | Cable | Preamp | Aux | APos | TPos |  | Freq | Level | Line | Limit | Level | Factor | Loss | Factor | Factor |  | Remark |  | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | 1 | 2480.00 | 104.40 | ----- | -----  | 91.32 | 32.58 | 6.73 | 32.23 | 6.00 | 287 | 266 PEAK | 2 | 2480.00 | 79.64 | ----- | -----  | 66.56 | 32.58 | 6.73 | 32.23 | 6.00 | 287 | 266 AVERAGE |
|      | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Over   | Read   | Ant    | Cable  | Preamp | Aux    | APos   | TPos |        |             |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |        |       |       |      |       |      |     |          |   |         |       |       |        |       |       |      |       |      |     |             |
| Freq | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Line   | Limit  | Level  | Factor | Loss   | Factor | Factor |      | Remark |             |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |        |       |       |      |       |      |     |          |   |         |       |       |        |       |       |      |       |      |     |             |
|      | MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | dBuV/m | dBuV/m | dB     | dBuV   | dB/m   | dB     | dB     | cm   | deg    |             |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |        |       |       |      |       |      |     |          |   |         |       |       |        |       |       |      |       |      |     |             |
| 1    | 2480.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 104.40 | -----  | -----  | 91.32  | 32.58  | 6.73   | 32.23  | 6.00 | 287    | 266 PEAK    |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |        |       |       |      |       |      |     |          |   |         |       |       |        |       |       |      |       |      |     |             |
| 2    | 2480.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 79.64  | -----  | -----  | 66.56  | 32.58  | 6.73   | 32.23  | 6.00 | 287    | 266 AVERAGE |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |        |       |        |       |       |      |       |      |     |          |   |         |       |       |        |       |       |      |       |      |     |             |

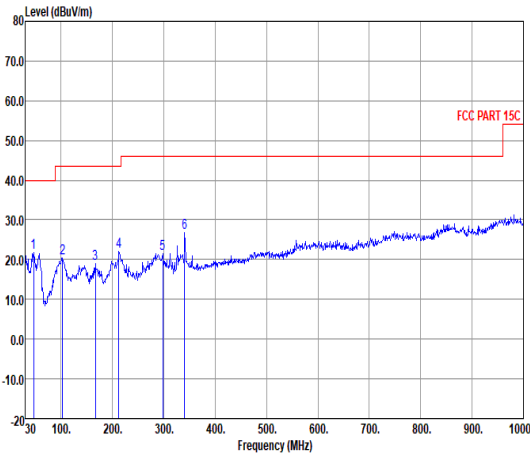
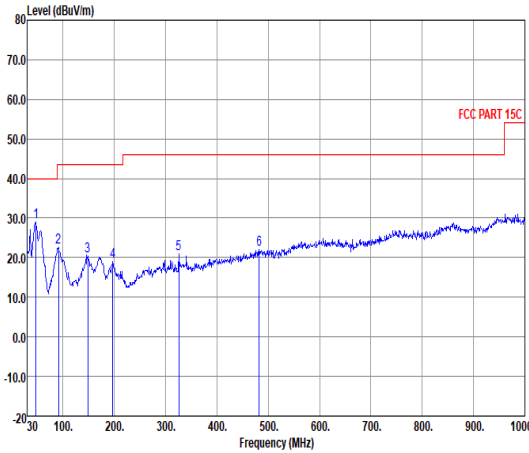


| Mode            | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |        |        |        |        |        |        |      |        |      |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |      |   |         |       |       |        |       |       |       |       |      |     |      |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|------|--------|------|--|-------|------|------|-----|-------|--------|-----|------|------|--|------|-------|------|-------|-------|--------|------|--------|--------|--|--------|--|-----|--------|--------|----|------|------|----|----|----|-----|---|---------|-------|-------|--------|-------|-------|------|-------|------|-----|------|---|---------|-------|-------|--------|-------|-------|-------|-------|------|-----|------|
|                 | Harmonic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |        |        |        |        |        |        |      |        |      |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |      |   |         |       |       |        |       |       |       |       |      |     |      |
|                 | 2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        |        |        |        |        |        |        |      |        |      |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |      |   |         |       |       |        |       |       |       |       |      |     |      |
| Pol.            | Horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        |        |        |        |        |        |        |      |        |      |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |      |   |         |       |       |        |       |       |       |       |      |     |      |
| Peak<br><br>Avg |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |        |        |        |        |        |        |      |        |      |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |      |   |         |       |       |        |       |       |       |       |      |     |      |
|                 | <table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4960.00</td><td>43.14</td><td>74.00</td><td>-30.86</td><td>60.69</td><td>34.00</td><td>9.61</td><td>61.16</td><td>0.00</td><td>---</td><td>PEAK</td></tr><tr><td>2</td><td>7440.00</td><td>44.16</td><td>74.00</td><td>-29.84</td><td>57.71</td><td>35.70</td><td>11.77</td><td>61.02</td><td>0.00</td><td>---</td><td>PEAK</td></tr></table> |        |        |        |        |        |        |        |      |        |      |  | Limit | Over | Read | Ant | Cable | Preamp | Aux | APos | TPos |  | Freq | Level | Line | Limit | Level | Factor | Loss | Factor | Factor |  | Remark |  | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | 1 | 4960.00 | 43.14 | 74.00 | -30.86 | 60.69 | 34.00 | 9.61 | 61.16 | 0.00 | --- | PEAK | 2 | 7440.00 | 44.16 | 74.00 | -29.84 | 57.71 | 35.70 | 11.77 | 61.02 | 0.00 | --- | PEAK |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Limit  | Over   | Read   | Ant    | Cable  | Preamp | Aux    | APos | TPos   |      |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |      |   |         |       |       |        |       |       |       |       |      |     |      |
| Freq            | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Line   | Limit  | Level  | Factor | Loss   | Factor | Factor |      | Remark |      |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |      |   |         |       |       |        |       |       |       |       |      |     |      |
|                 | MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | dBuV/m | dBuV/m | dB     | dBuV   | dB/m   | dB     | dB     | cm   | deg    |      |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |      |   |         |       |       |        |       |       |       |       |      |     |      |
| 1               | 4960.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 43.14  | 74.00  | -30.86 | 60.69  | 34.00  | 9.61   | 61.16  | 0.00 | ---    | PEAK |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |      |   |         |       |       |        |       |       |       |       |      |     |      |
| 2               | 7440.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 44.16  | 74.00  | -29.84 | 57.71  | 35.70  | 11.77  | 61.02  | 0.00 | ---    | PEAK |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |      |   |         |       |       |        |       |       |       |       |      |     |      |
|                 | <table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4960.00</td><td>42.22</td><td>74.00</td><td>-31.78</td><td>59.77</td><td>34.00</td><td>9.61</td><td>61.16</td><td>0.00</td><td>---</td><td>PEAK</td></tr><tr><td>2</td><td>7440.00</td><td>44.74</td><td>74.00</td><td>-29.26</td><td>58.29</td><td>35.70</td><td>11.77</td><td>61.02</td><td>0.00</td><td>---</td><td>PEAK</td></tr></table> |        |        |        |        |        |        |        |      |        |      |  | Limit | Over | Read | Ant | Cable | Preamp | Aux | APos | TPos |  | Freq | Level | Line | Limit | Level | Factor | Loss | Factor | Factor |  | Remark |  | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | 1 | 4960.00 | 42.22 | 74.00 | -31.78 | 59.77 | 34.00 | 9.61 | 61.16 | 0.00 | --- | PEAK | 2 | 7440.00 | 44.74 | 74.00 | -29.26 | 58.29 | 35.70 | 11.77 | 61.02 | 0.00 | --- | PEAK |
|                 | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Over   | Read   | Ant    | Cable  | Preamp | Aux    | APos   | TPos |        |      |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |      |   |         |       |       |        |       |       |       |       |      |     |      |
| Freq            | Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Line   | Limit  | Level  | Factor | Loss   | Factor | Factor |      | Remark |      |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |      |   |         |       |       |        |       |       |       |       |      |     |      |
|                 | MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | dBuV/m | dBuV/m | dB     | dBuV   | dB/m   | dB     | dB     | cm   | deg    |      |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |      |   |         |       |       |        |       |       |       |       |      |     |      |
| 1               | 4960.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 42.22  | 74.00  | -31.78 | 59.77  | 34.00  | 9.61   | 61.16  | 0.00 | ---    | PEAK |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |      |   |         |       |       |        |       |       |       |       |      |     |      |
| 2               | 7440.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 44.74  | 74.00  | -29.26 | 58.29  | 35.70  | 11.77  | 61.02  | 0.00 | ---    | PEAK |  |       |      |      |     |       |        |     |      |      |  |      |       |      |       |       |        |      |        |        |  |        |  |     |        |        |    |      |      |    |    |    |     |   |         |       |       |        |       |       |      |       |      |     |      |   |         |       |       |        |       |       |       |       |      |     |      |



|             |                                                                                    |                                                                                     |
|-------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Mode        | 3                                                                                  |                                                                                     |
|             | 18G-25G                                                                            |                                                                                     |
|             | 2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz                                         |                                                                                     |
| Pol.        | Horizontal                                                                         | Vertical                                                                            |
| Peak<br>Avg |  |  |

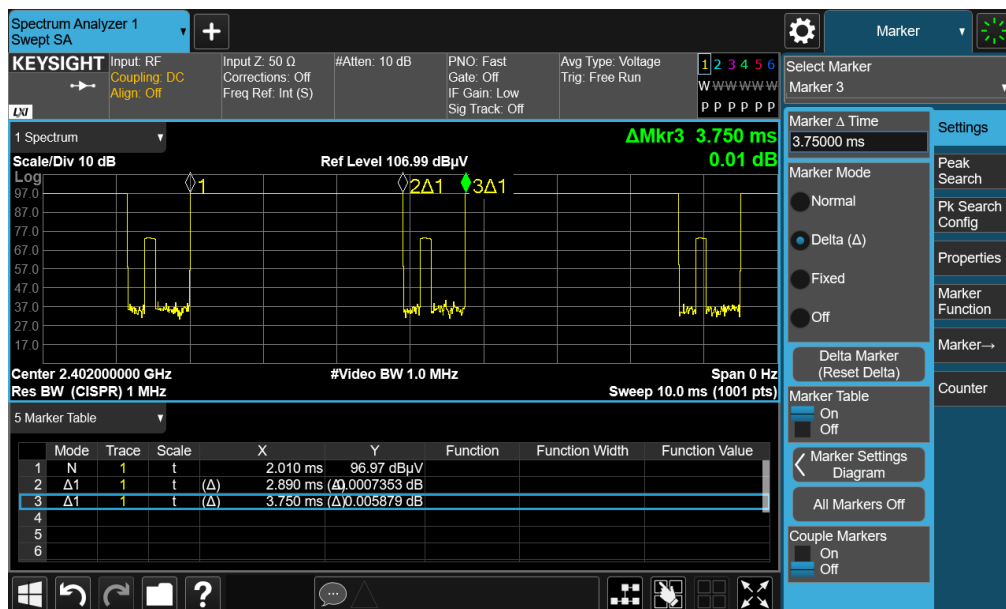


| Mode | 3                                                                                  |        |       |       |        |       |       |      |       |      |     |                                                                       |                                                                                     |   |        |       |       |        |       |       |      |       |      |     |     |      |
|------|------------------------------------------------------------------------------------|--------|-------|-------|--------|-------|-------|------|-------|------|-----|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------|---|--------|-------|-------|--------|-------|-------|------|-------|------|-----|-----|------|
|      | 30M-1G                                                                             |        |       |       |        |       |       |      |       |      |     |                                                                       |                                                                                     |   |        |       |       |        |       |       |      |       |      |     |     |      |
|      | 2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz                                         |        |       |       |        |       |       |      |       |      |     |                                                                       |                                                                                     |   |        |       |       |        |       |       |      |       |      |     |     |      |
| Pol. | Horizontal                                                                         |        |       |       |        |       |       |      |       |      |     | Vertical                                                              |                                                                                     |   |        |       |       |        |       |       |      |       |      |     |     |      |
| Peak |  |        |       |       |        |       |       |      |       |      |     |                                                                       |  |   |        |       |       |        |       |       |      |       |      |     |     |      |
|      | Freq Level Limit Over ReadAntenna Cable Preamp Aux A/Pos T/Pos Remark              |        |       |       |        |       |       |      |       |      |     | Freq Level Limit Over ReadAntenna Cable Preamp Aux A/Pos T/Pos Remark |                                                                                     |   |        |       |       |        |       |       |      |       |      |     |     |      |
|      | MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB dB cm deg                                  |        |       |       |        |       |       |      |       |      |     | MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB dB dB cm deg                  |                                                                                     |   |        |       |       |        |       |       |      |       |      |     |     |      |
|      | 1                                                                                  | 46.49  | 21.85 | 40.00 | -18.15 | 38.06 | 15.76 | 0.99 | 32.96 | 0.00 | --- | ---                                                                   | Peak                                                                                | 1 | 47.46  | 28.97 | 40.00 | -11.03 | 45.50 | 15.40 | 1.01 | 32.94 | 0.00 | --- | --- | Peak |
|      | 2                                                                                  | 102.75 | 20.45 | 43.50 | -23.05 | 34.77 | 17.02 | 1.53 | 32.87 | 0.00 | --- | ---                                                                   | Peak                                                                                | 2 | 91.11  | 22.73 | 43.50 | -20.77 | 38.00 | 15.35 | 1.43 | 32.85 | 0.00 | --- | --- | Peak |
|      | 3                                                                                  | 166.77 | 18.87 | 43.50 | -24.63 | 33.67 | 16.08 | 1.95 | 32.83 | 0.00 | --- | ---                                                                   | Peak                                                                                | 3 | 148.34 | 20.26 | 43.50 | -23.24 | 34.00 | 16.44 | 1.84 | 32.82 | 0.00 | --- | --- | Peak |
|      | 4                                                                                  | 212.36 | 22.00 | 43.50 | -21.50 | 36.44 | 16.16 | 2.22 | 32.82 | 0.00 | --- | ---                                                                   | Peak                                                                                | 4 | 196.84 | 19.02 | 43.50 | -24.48 | 34.26 | 15.47 | 2.13 | 32.84 | 0.00 | --- | --- | Peak |
|      | 5                                                                                  | 297.72 | 21.55 | 46.00 | -24.45 | 32.46 | 19.28 | 2.63 | 32.82 | 0.00 | --- | ---                                                                   | Peak                                                                                | 5 | 325.85 | 20.93 | 46.00 | -25.07 | 31.16 | 19.90 | 2.75 | 32.88 | 0.00 | --- | --- | Peak |
|      | 6                                                                                  | 340.40 | 26.77 | 46.00 | -19.23 | 36.65 | 20.22 | 2.81 | 32.91 | 0.00 | --- | ---                                                                   | Peak                                                                                | 6 | 482.02 | 22.17 | 46.00 | -23.83 | 28.57 | 23.22 | 3.35 | 32.97 | 0.00 | --- | --- | Peak |

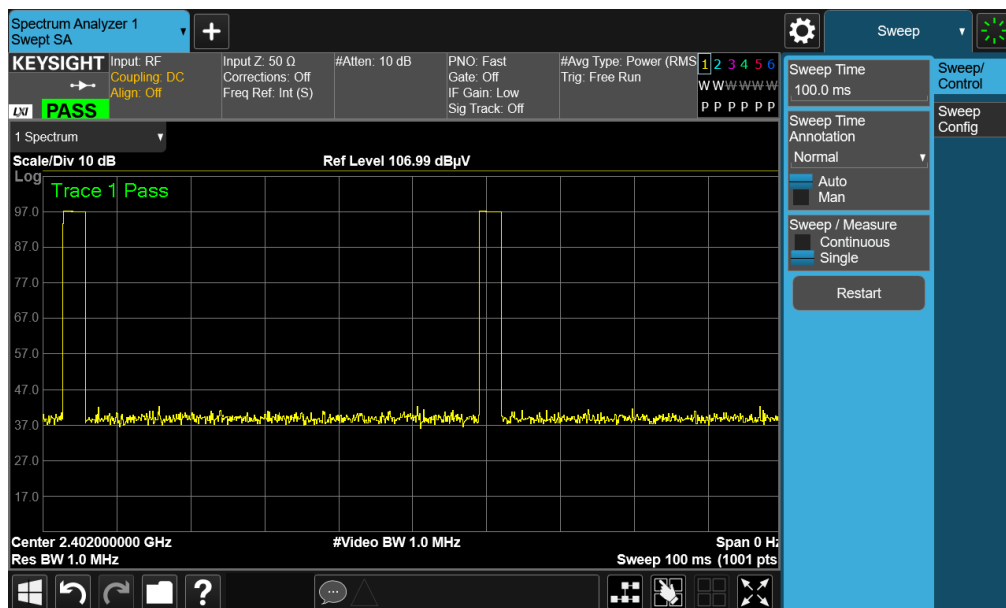


## Appendix D. Duty Cycle Plots

### DH5 on time (One Pulse) Plot on Channel 39



### DH5 on time (Count Pulses) Plot on Channel 39



#### Note:

1. Worst case Duty cycle = on time/100 milliseconds =  $2 * 2.89 / 100 = 5.78 \%$
2. Worst case Duty cycle correction factor =  $20 * \log(\text{Duty cycle}) = -24.76 \text{ dB}$
3. DH5 has the highest duty cycle worst case and is reported.