



# Radio Test Report

Report No.: STS2604366W02

Issued for

Shenzhen Yawell Intelligent Technology Co.,Ltd.

A402, Wuhan University, Shenzhen Research Institute, No. 6  
Yuxing 2nd Road, Gaoxin District, Yuehai Street, Nanshan  
District, China

Product Name: hamon band V

Brand Name: MITSUFUJI

Model Name: MH10-B26

Series Model(s): N/A

FCC ID: 2BSEJ-MH10-B26

Test Standards: FCC Part15.247

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

**TEST REPORT**

**Applicant's Name** .....: Shenzhen Yawell Intelligent Technology Co.,Ltd.  
**Address**.....: A402, Wuhan University, Shenzhen Research Institute, No. 6  
Yuexing 2nd Road, Gaoxin District, Yuehai Street, Nanshan District,  
China  
**Manufacturer's Name** .....: Shenzhen Yawell Intelligent Technology Co.,Ltd.  
**Address**.....: A402, Wuhan University, Shenzhen Research Institute, No. 6  
Yuexing 2nd Road, Gaoxin District, Yuehai Street, Nanshan District,  
China

**Product Description**

**Product Name**.....: hamon band V  
**Brand Name**.....: MITSUFUJI  
**Model Name** .....: MH10-B26  
**Series Model(s)** .....: N/A

**Test Standards** .....: FCC Part15.247  
**Test Procedure**.....: ANSI C63.10-2020

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the IC requirements. And it is applicable only to the tested sample identified in the report.

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

**Date of Test** .....:

**Date of receipt of test item** .....: 10 Apr. 2026  
**Date (s) of performance of tests**.....: 10 Apr. 2026 to 30 Apr. 2026  
**Date of Issue**.....: 30 Apr. 2026  
**Test Result**.....: **Pass**

Testing Engineer :

Aaron Bu

(Aaron Bu)

Technical Manager :

Skylar Li

(Skylar Li)

Authorized Signatory :

Bovey Yang

(Bovey Yang)





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**Revision History**

| Rev. | Issue Date   | Report No.    | Effect Page | Contents      |
|------|--------------|---------------|-------------|---------------|
| 00   | 30 Apr. 2026 | STS2604366W02 | ALL         | Initial Issue |
|      |              |               |             |               |



## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:  
KDB 558074 D01 15.247 Meas Guidance v05r02.

| FCC Part 15.247, Subpart C        |                                         |          |        |
|-----------------------------------|-----------------------------------------|----------|--------|
| Standard Section                  | Test Item                               | Judgment | Remark |
| 15.207                            | Conducted Emission                      | PASS     | --     |
| 15.247 (a)(2)                     | 6dB Bandwidth                           | PASS     | --     |
| 15.247 (b)(3)                     | Output Power                            | PASS     | --     |
| 15.209                            | Radiated Spurious Emission              | PASS     | --     |
| 15.247 (d)                        | Conducted Spurious & Band Edge Emission | PASS     | --     |
| 15.247 (e)                        | Power Spectral Density                  | PASS     | --     |
| 15.205                            | Restricted bands of operation           | PASS     | --     |
| Part 15.247(d)/<br>Part 15.209(a) | Band Edge Emission                      | PASS     | --     |
| 15.203                            | Antenna Requirement                     | PASS     | --     |

Note:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2020.



### 1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

### 1.2 MEASUREMENT UNCERTAINTY

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

| No. | Item                              | Uncertainty          |
|-----|-----------------------------------|----------------------|
| 1   | RF output power, conducted        | $\pm 0.751\text{dB}$ |
| 2   | Unwanted Emissions, conducted     | $\pm 2.888\text{dB}$ |
| 3   | All emissions, radiated 9K-30MHz  | $\pm 2.48\text{dB}$  |
| 4   | All emissions, radiated 30M-1GHz  | $\pm 2.52\text{dB}$  |
| 5   | All emissions, radiated 1G-18GHz  | $\pm 3.48\text{dB}$  |
| 6   | All emissions, radiated >18GHz    | $\pm 4.18\text{dB}$  |
| 7   | Conducted Emission (9KHz-150KHz)  | $\pm 2.48\text{dB}$  |
| 8   | Conducted Emission (150KHz-30MHz) | $\pm 2.52\text{dB}$  |
| 9   | Occupied Channel Bandwidth        | $\pm 3.6\%$          |
| 10  | Power Spectral Density, conducted | $\pm 1.214\text{dB}$ |
| 11  | Duty Cycle                        | $\pm 3.2\%$          |



## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF THE EUT

|                         |                             |                            |
|-------------------------|-----------------------------|----------------------------|
| Product Name            | hamon band V                |                            |
| Brand Name              | MITSUFUJI                   |                            |
| Model Name              | MH10-B26                    |                            |
| Series Model(s)         | N/A                         |                            |
| Model Difference        | N/A                         |                            |
| Product Description     | The EUT is a hamon band V   |                            |
|                         | Operation Frequency:        | 2402~2480 MHz              |
|                         | Modulation Type:            | GFSK                       |
|                         | Radio Technology:           | BLE                        |
|                         | Bluetooth Configuration:    | LE(Support 1M PHY, 2M PHY) |
|                         | Number Of Channel:          | 40                         |
|                         | Antenna Type:               | Internal antenna           |
|                         | Antenna Gain (dBi)          | 0.17                       |
| Channel List            | Please refer to the Note 3. |                            |
| Power Rating            | DC 5V                       |                            |
| Adapter                 | N/A                         |                            |
| Battery                 | DC 3.8V                     |                            |
| Hardware version number | N/A                         |                            |
| Software version number | N/A                         |                            |
| Connecting I/O Port(s)  | Please refer to the Note 1. |                            |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
2. The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.



3.

| Channel List |                 |         |                 |         |                 |         |                 |
|--------------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| Channel      | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 00           | 2402            | 10      | 2422            | 20      | 2442            | 30      | 2462            |
| 01           | 2404            | 11      | 2424            | 21      | 2444            | 31      | 2464            |
| 02           | 2406            | 12      | 2426            | 22      | 2446            | 32      | 2466            |
| 03           | 2408            | 13      | 2428            | 23      | 2448            | 33      | 2468            |
| 04           | 2410            | 14      | 2430            | 24      | 2450            | 34      | 2470            |
| 05           | 2412            | 15      | 2432            | 25      | 2452            | 35      | 2472            |
| 06           | 2414            | 16      | 2434            | 26      | 2454            | 36      | 2474            |
| 07           | 2416            | 17      | 2436            | 27      | 2456            | 37      | 2476            |
| 08           | 2418            | 18      | 2438            | 28      | 2458            | 38      | 2478            |
| 09           | 2420            | 19      | 2440            | 29      | 2460            | 39      | 2480            |

## 2.2 DESCRIPTION OF THE TEST MODES

For conducted test items and radiated spurious emissions

Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively.

| Worst Mode | Description      | Data/Modulation |
|------------|------------------|-----------------|
| Mode 1     | TX CH00(2402MHz) | 1M PHY /GFSK    |
| Mode 2     | TX CH19(2440MHz) | 1M PHY /GFSK    |
| Mode 3     | TX CH39(2480MHz) | 1M PHY /GFSK    |

| Worst Mode | Description      | Data/Modulation |
|------------|------------------|-----------------|
| Mode 4     | TX CH00(2402MHz) | 2M PHY /GFSK    |
| Mode 5     | TX CH19(2440MHz) | 2M PHY /GFSK    |
| Mode 6     | TX CH39(2480MHz) | 2M PHY /GFSK    |

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

(2) We have be tested for all avaiable U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V/60Hz is shown in the report.

(3) The battery is fully-charged during the radited and RF conducted test.

For AC Conducted Emission

| Test Case             |                        |
|-----------------------|------------------------|
| AC Conducted Emission | Mode 7 : Keeping BT TX |



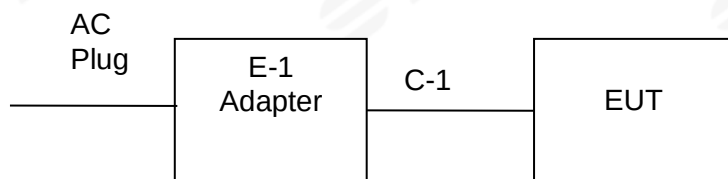
### 2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

| RF Function | Type | Mode or Modulation type | Power Class | Software for Testing |
|-------------|------|-------------------------|-------------|----------------------|
| BLE         | BLE  | GFSK 1Mbps              | Default     | FCC_assist_1.0.4     |
|             |      | GFSK 2Mbps              | Default     |                      |

### 2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

#### CONDUCTED EMISSION TEST



#### RADIATED SPURIOUS EMISSION TEST





## 2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

### Equipment

| Item | Equipment | Mfr/Brand | Model/Type No. | Note |
|------|-----------|-----------|----------------|------|
| E-1  | Adapter   | ZTC       | NB-A515A       | N/A  |
| C-1  | DC Cable  | N/A       | N/A            | N/A  |
|      |           |           |                |      |
|      |           |           |                |      |

### Line

| Item | Equipment | Mfr/Brand | Length | Note |
|------|-----------|-----------|--------|------|
| C-1  | Shielded  | NO        | 150cm  | N/A  |
|      |           |           |        |      |

### Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (2) “YES” is means “with core”; “NO” is means “without core”.



## 2.6 EQUIPMENTS LIST

**RF RADIATION TEST EQUIPMENT**

|                                    |                |                    |              |                  |                  |
|------------------------------------|----------------|--------------------|--------------|------------------|------------------|
| Kind of Equipment                  | Manufacturer   | Type No.           | Serial No.   | Last Calibration | Calibrated Until |
| Temperature & Humidity             | SW-108         | SuWei              | N/A          | 2026.02.04       | 2027.02.03       |
| Pre-Amplifier (0.1M-3GHz)          | EM             | EM330              | 060665       | 2026.02.04       | 2027.02.03       |
| Pre-Amplifier (1G-18GHz)           | SKET           | LNPA-01018G-45     | SK2018080901 | 2025.09.25       | 2026.09.24       |
| Pre-Amplifier (18G-40GHz)          | SKET           | LNPA_1840-50       | SK2018101801 | 2026.02.04       | 2027.02.03       |
| Active loop Antenna                | ZHINAN         | ZN30900C           | 16035        | 2025.02.25       | 2027.02.24       |
| Bilog Antenna                      | TESEQ          | CBL6111D           | 34678        | 2025.09.27       | 2027.09.26       |
| Horn Antenna                       | SCHWARZBECK    | BBHA 9120D         | 02014        | 2025.09.27       | 2027.09.26       |
| Horn Antenna                       | A-INFOMW       | LB-180400-KF       | J211020657   | 2025.09.27       | 2027.09.26       |
| Positioning Controller             | MF             | MF-7802            | MF-780208587 | N/A              | N/A              |
| Signal Analyzer                    | R&S            | FSV 40-N           | 101823       | 2025.09.26       | 2026.09.25       |
| Switch Control Box                 | N/A            | N/A                | N/A          | N/A              | N/A              |
| Band 2.4G-2.5G Filter              | HX MICROWAVE   | HXLBQ-DZA61        | N/A          | 2025.09.23       | 2026.09.22       |
| Antenna Mast                       | MF             | MFA-440H           | N/A          | N/A              | N/A              |
| Turn Table                         | MF             | SC100_1            | 60531        | N/A              | N/A              |
| AC Power Source                    | APC            | KDF-11010G         | F214050035   | N/A              | N/A              |
| DC power supply                    | HONGSHENG FENG | DPS-305AF          | 17064939     | 2025.09.22       | 2026.09.21       |
| RF Coaxial Cable                   | LEITAI M-WAVE  | CA360              | DC-18G       | 2025.09.26       | 2026.09.25       |
| RF Coaxial Cable                   | LEITAI M-WAVE  | CA360              | DC-18G       | 2025.09.26       | 2026.09.25       |
| RF Coaxial Cable                   | LEITAI M-WAVE  | CA3507             | DC-40G       | 2025.09.26       | 2026.09.25       |
| RF Coaxial Cable                   | LEITAI M-WAVE  | CA3507             | DC-40G       | 2025.09.26       | 2026.09.25       |
| Test SW                            | EZ-EMC         | Ver.STSLAB-03A1 RE |              |                  |                  |
| Conduction Test Equipment          |                |                    |              |                  |                  |
| Kind of Equipment                  | Manufacturer   | Type No.           | Serial No.   | Last calibration | Calibrated until |
| Test Receiver                      | R&S            | ESCI               | 101427       | 2025.09.25       | 2026.09.24       |
| Limiter                            | CYBERTEK       | EM5010             | N/A          | 2025.09.25       | 2026.09.24       |
| LISN                               | R&S            | ENV216             | 101242       | 2025.09.25       | 2026.09.24       |
| LISN                               | EMCO           | 3810/2NM           | 23625        | 2025.09.25       | 2026.09.24       |
| Temperature & Humidity             | SW-108         | SuWei              | N/A          | 2026.02.04       | 2027.02.03       |
| Test SW                            | EZ-EMC         | Ver.STSLAB-03A1 CE |              |                  |                  |
| RF Connected Test                  |                |                    |              |                  |                  |
| Kind of Equipment                  | Manufacturer   | Type No.           | Serial No.   | Last calibration | Calibrated until |
| Signal Analyzer                    | Agilent        | N9020A             | MY51510623   | 2026.02.04       | 2027.02.03       |
| RF Coaxial Cable                   | XINQY          | CT26PE             | DC-26.5G     | 2026.02.04       | 2027.02.03       |
| Switch control box                 | MW             | MW100-RFCB         | N/A          | N/A              | N/A              |
| Temperature& Humidity test chamber | Safety test    | AG80L              | 171200018    | 2026.02.04       | 2027.02.03       |
| Temperature & Humidity             | SW-108         | SuWei              | N/A          | 2026.02.04       | 2027.02.03       |
| Test SW                            | MW             | MTS 8310_2.0.0.0   |              |                  |                  |



### 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

##### 3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

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 (MHz) | Conducted Emission limit (dBuV) |           |
|-----------------|---------------------------------|-----------|
|                 | Quasi-peak                      | Average   |
| 0.15 -0.5       | 66 - 56 *                       | 56 - 46 * |
| 0.50 -5.0       | 56.00                           | 46.00     |
| 5.0 -30.0       | 60.00                           | 50.00     |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of “\*” marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

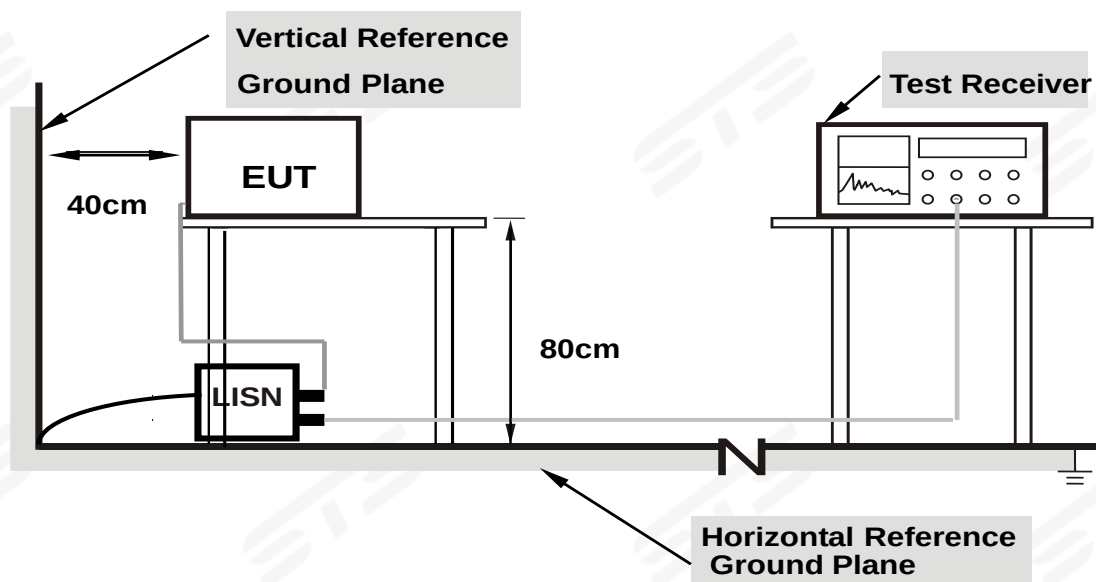
The following table is the setting of the receiver

| Receiver Parameters | Setting  |
|---------------------|----------|
| Attenuation         | 10 dB    |
| Start Frequency     | 0.15 MHz |
| Stop Frequency      | 30 MHz   |
| IF Bandwidth        | 9 kHz    |

### 3.2 TEST PROCEDURE

- The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN is at least 80 cm from the nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

### 3.3 TEST SETUP



**Note: 1. Support units were connected to second LISN.**

**2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.**

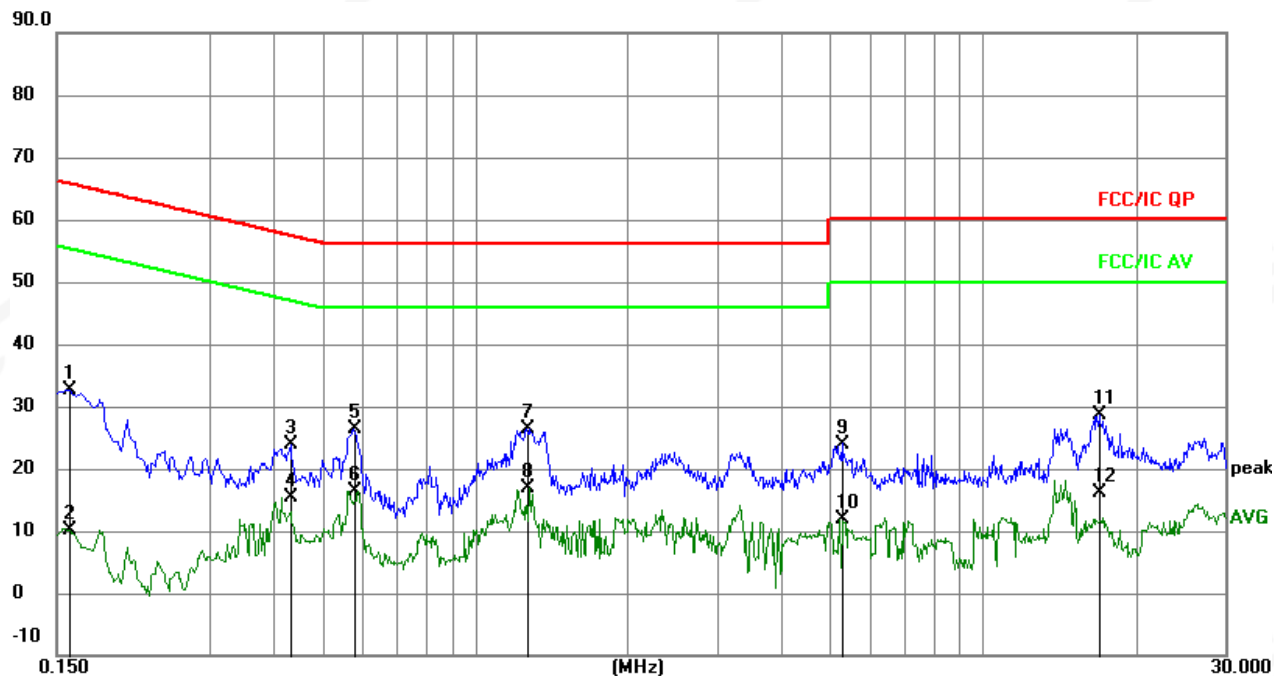
### 3.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



## 3.5 TEST RESULTS

|               |              |                    |      |
|---------------|--------------|--------------------|------|
| Temperature:  | 22.1 °C      | Relative Humidity: | 64 % |
| Test Voltage: | AC 120V/60Hz | Phase:             | L    |
| Test Mode:    | Mode 7       |                    |      |



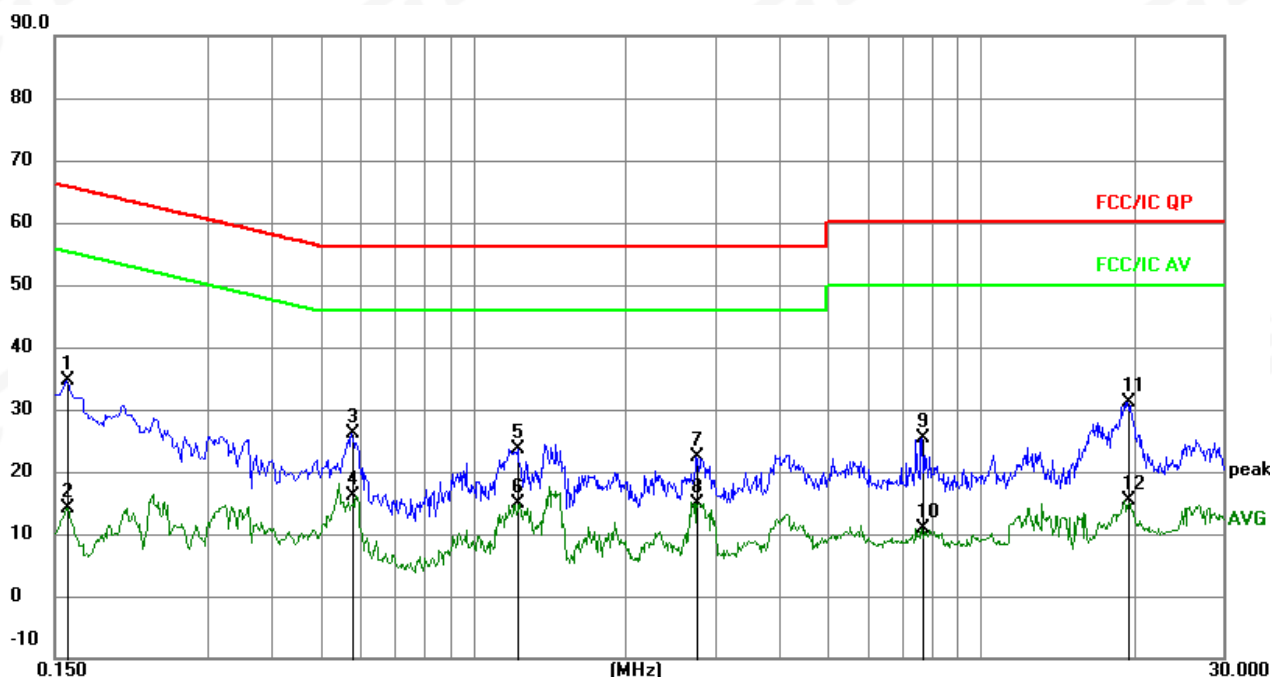
Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement – Limit

| No. | Mk. | Freq.   | Reading Level | Correct Factor | Measurement | Limit | Over   |          |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|
|     |     | MHz     |               | dB             | dBuV        | dBuV  | dB     | Detector |
| 1   |     | 0.1590  | 12.68         | 20.04          | 32.72       | 65.52 | -32.80 | QP       |
| 2   |     | 0.1590  | -9.80         | 20.04          | 10.24       | 55.52 | -45.28 | AVG      |
| 3   |     | 0.4334  | 3.91          | 20.06          | 23.97       | 57.19 | -33.22 | QP       |
| 4   |     | 0.4334  | -4.74         | 20.06          | 15.32       | 47.19 | -31.87 | AVG      |
| 5   |     | 0.5774  | 6.33          | 20.14          | 26.47       | 56.00 | -29.53 | QP       |
| 6   |     | 0.5774  | -3.69         | 20.14          | 16.45       | 46.00 | -29.55 | AVG      |
| 7   |     | 1.2659  | 6.18          | 20.25          | 26.43       | 56.00 | -29.57 | QP       |
| 8   | *   | 1.2659  | -3.26         | 20.25          | 16.99       | 46.00 | -29.01 | AVG      |
| 9   |     | 5.2888  | 3.25          | 20.75          | 24.00       | 60.00 | -36.00 | QP       |
| 10  |     | 5.2888  | -8.92         | 20.75          | 11.83       | 50.00 | -38.17 | AVG      |
| 11  |     | 16.9437 | 5.62          | 22.91          | 28.53       | 60.00 | -31.47 | QP       |
| 12  |     | 16.9437 | -6.87         | 22.91          | 16.04       | 50.00 | -33.96 | AVG      |



|               |              |                    |      |
|---------------|--------------|--------------------|------|
| Temperature:  | 22.1 °C      | Relative Humidity: | 64 % |
| Test Voltage: | AC 120V/60Hz | Phase:             | N    |
| Test Mode:    | Mode 7       |                    |      |



Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement – Limit

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dB | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector |
|-----|-----|--------------|------------------------|-------------------------|--------------------------|---------------|------------|----------|
| 1   |     | 0.1590       | 14.69                  | 20.04                   | 34.73                    | 65.52         | -30.79     | QP       |
| 2   |     | 0.1590       | -5.86                  | 20.04                   | 14.18                    | 55.52         | -41.34     | AVG      |
| 3   |     | 0.5774       | 6.07                   | 20.14                   | 26.21                    | 56.00         | -29.79     | QP       |
| 4   |     | 0.5774       | -3.91                  | 20.14                   | 16.23                    | 46.00         | -29.77     | AVG      |
| 5   |     | 1.2254       | 3.29                   | 20.25                   | 23.54                    | 56.00         | -32.46     | QP       |
| 6   |     | 1.2254       | -5.42                  | 20.25                   | 14.83                    | 46.00         | -31.17     | AVG      |
| 7   |     | 2.7554       | 2.15                   | 20.34                   | 22.49                    | 56.00         | -33.51     | QP       |
| 8   |     | 2.7554       | -5.37                  | 20.34                   | 14.97                    | 46.00         | -31.03     | AVG      |
| 9   |     | 7.6470       | 4.35                   | 21.02                   | 25.37                    | 60.00         | -34.63     | QP       |
| 10  |     | 7.6470       | -10.16                 | 21.02                   | 10.86                    | 50.00         | -39.14     | AVG      |
| 11  | *   | 19.4862      | 7.67                   | 23.48                   | 31.15                    | 60.00         | -28.85     | QP       |
| 12  |     | 19.4862      | -8.21                  | 23.48                   | 15.27                    | 50.00         | -34.73     | AVG      |



## 4. RADIATED EMISSION MEASUREMENT

### 4.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part 15.205(a)&209(a) limit in the table and according to ANSI C63.10-2020 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

| Frequencies<br>(MHz) | Field Strength<br>(micorvolts/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                                |

LIMITS OF RADIATED EMISSION MEASUREMENT (1000MHz-25GHz)

| FREQUENCY (MHz) | (dBuV/m) (at 3M) |         |
|-----------------|------------------|---------|
|                 | PEAK             | AVERAGE |
| Above 1000      | 74               | 54      |

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

### LIMITS OF RESTRICTED FREQUENCY BANDS

| FREQUENCY (MHz)   | FREQUENCY (MHz)     | FREQUENCY (MHz) | FREQUENCY (GHz) |
|-------------------|---------------------|-----------------|-----------------|
| 0.090-0.110       | 16.42-16.423        | 399.9-410       | 4.5-5.15        |
| 0.495-0.505       | 16.69475-16.69525   | 608-614         | 5.35-5.46       |
| 2.1735-2.1905     | 16.80425-16.80475   | 960-1240        | 7.25-7.75       |
| 4.125-4.128       | 25.5-25.67          | 1300-1427       | 8.025-8.5       |
| 4.17725-4.17775   | 37.5-38.25          | 1435-1626.5     | 9.0-9.2         |
| 4.20725-4.20775   | 73-74.6             | 1645.5-1646.5   | 9.3-9.5         |
| 6.215-6.218       | 74.8-75.2           | 1660-1710       | 10.6-12.7       |
| 6.26775-6.26825   | 108-121.94          | 1718.8-1722.2   | 13.25-13.4      |
| 6.31175-6.31225   | 123-138             | 2200-2300       | 14.47-14.5      |
| 8.291-8.294       | 149.9-150.05        | 2310-2390       | 15.35-16.2      |
| 8.362-8.366       | 156.52475-156.52525 | 2483.5-2500     | 17.7-21.4       |
| 8.37625-8.38675   | 156.7-156.9         | 2690-2900       | 22.01-23.12     |
| 8.41425-8.41475   | 162.0125-167.17     | 3260-3267       | 23.6-24.0       |
| 12.29-12.293      | 167.72-173.2        | 3332-3339       | 31.2-31.8       |
| 12.51975-12.52025 | 240-285             | 3345.8-3358     | 36.43-36.5      |
| 12.57675-12.57725 | 322-335.4           | 3600-4400       | Above 38.6      |
| 13.36-13.41       |                     |                 |                 |



## For Radiated Emission

| Spectrum Parameter                    | Setting                                                                                                                         |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Attenuation                           | Auto                                                                                                                            |
| Detector                              | Peak/QP/AV                                                                                                                      |
| Start Frequency                       | 9 KHz/150KHz(Peak/QP/AV)                                                                                                        |
| Stop Frequency                        | 150KHz/30MHz(Peak/QP/AV)                                                                                                        |
| RB / VB (emission in restricted band) | 200Hz (From 9kHz to 0.15MHz)/<br>9KHz (From 0.15MHz to 30MHz);<br>200Hz (From 9kHz to 0.15MHz)/<br>9KHz (From 0.15MHz to 30MHz) |

| Spectrum Parameter                    | Setting            |
|---------------------------------------|--------------------|
| Attenuation                           | Auto               |
| Detector                              | Peak/QP            |
| Start Frequency                       | 30 MHz(Peak/QP)    |
| Stop Frequency                        | 1000 MHz (Peak/QP) |
| RB / VB (emission in restricted band) | 120 KHz / 300 KHz  |

| Spectrum Parameter                    | Setting                                   |
|---------------------------------------|-------------------------------------------|
| Attenuation                           | Auto                                      |
| Detector                              | Peak/AV                                   |
| Start Frequency                       | 1000 MHz(Peak/AV)                         |
| Stop Frequency                        | 10th carrier hamonic(Peak/AV)             |
| RB / VB (emission in restricted band) | 1 MHz / 3 MHz(Peak)<br>1 MHz/1/T MHz(AVG) |

## For Restricted band

| Spectrum Parameter   | Setting                                                                |
|----------------------|------------------------------------------------------------------------|
| Detector             | Peak/AV                                                                |
| Start/Stop Frequency | Lower Band Edge: 2310 to 2410 MHz<br>Upper Band Edge: 2475 to 2500 MHz |
| RB / VB              | 1 MHz / 3 MHz(Peak)<br>1 MHz/1/T MHz(AVG)                              |



| Receiver Parameter     | Setting                              |
|------------------------|--------------------------------------|
| Start ~ Stop Frequency | 9kHz~90kHz / RB 200Hz for PK & AV    |
| Start ~ Stop Frequency | 90kHz~110kHz / RB 200Hz for QP       |
| Start ~ Stop Frequency | 110kHz~490kHz / RB 200Hz for PK & AV |
| Start ~ Stop Frequency | 490kHz~30MHz / RB 9kHz for QP        |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP     |

#### 4.2 TEST PROCEDURE

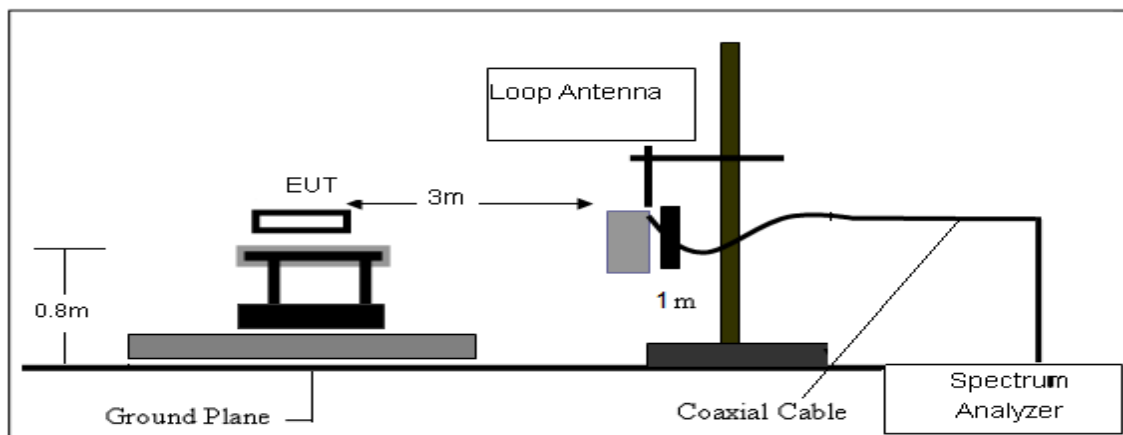
- The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
- If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

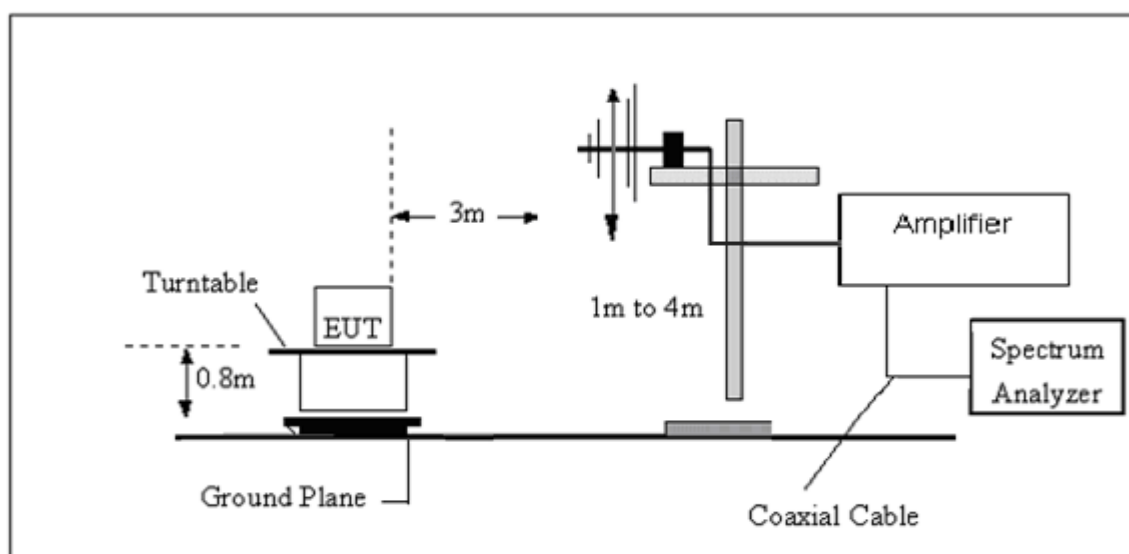
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

### 4.3 TEST SETUP

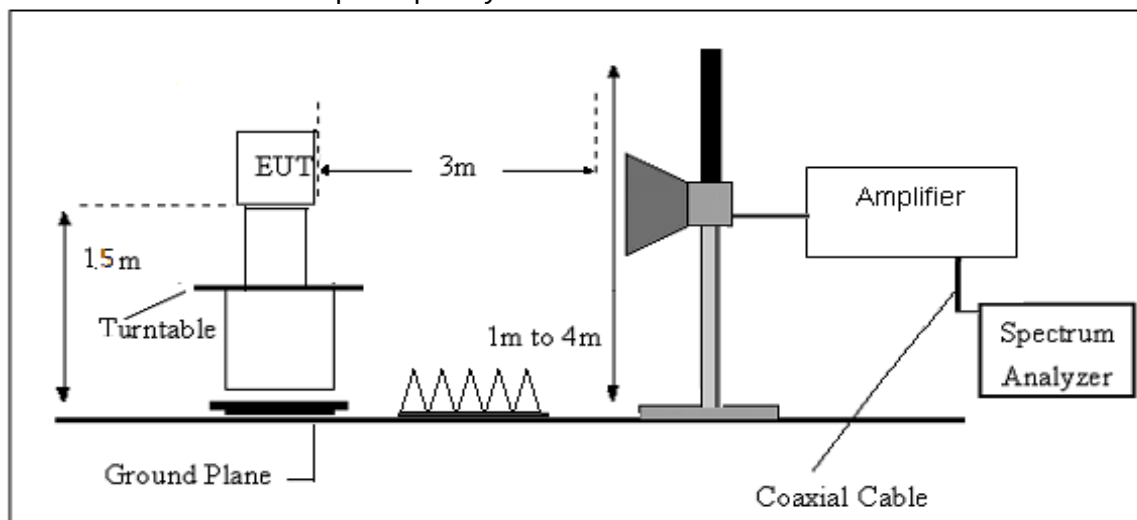
#### (A) Radiated Emission Test-Up Frequency Below 30MHz



#### (B) Radiated Emission Test-Up Frequency 30MHz~1GHz



#### (C) Radiated Emission Test-Up Frequency Above 1GHz



### 4.4 EUT OPERATING CONDITIONS

Please refer to section 3.4 of this report.



#### 4.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

| Frequency | FS       | RA       | AF   | CL   | AG   | Factor |
|-----------|----------|----------|------|------|------|--------|
| (MHz)     | (dBμV/m) | (dBμV/m) | (dB) | (dB) | (dB) | (dB)   |
| 300       | 40       | 58.1     | 12.2 | 1.6  | 31.9 | -18.1  |

$$\text{Factor} = \text{AF} + \text{CL} - \text{AG}$$



## 4.6 TEST RESULTS

(Between 9KHz – 30 MHz)

|               |              |                    |     |
|---------------|--------------|--------------------|-----|
| Temperature:  | 26°C         | Relative Humidity: | 54% |
| Test Voltage: | AC 120V/60Hz | Polarization:      | --  |
| Test Mode:    | TX Mode      |                    |     |

| Freq. | Reading  | Limit    | Margin | State |
|-------|----------|----------|--------|-------|
| (MHz) | (dBuV/m) | (dBuV/m) | (dB)   | P/F   |
| --    | --       | --       | --     | PASS  |
| --    | --       | --       | --     | PASS  |

## Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

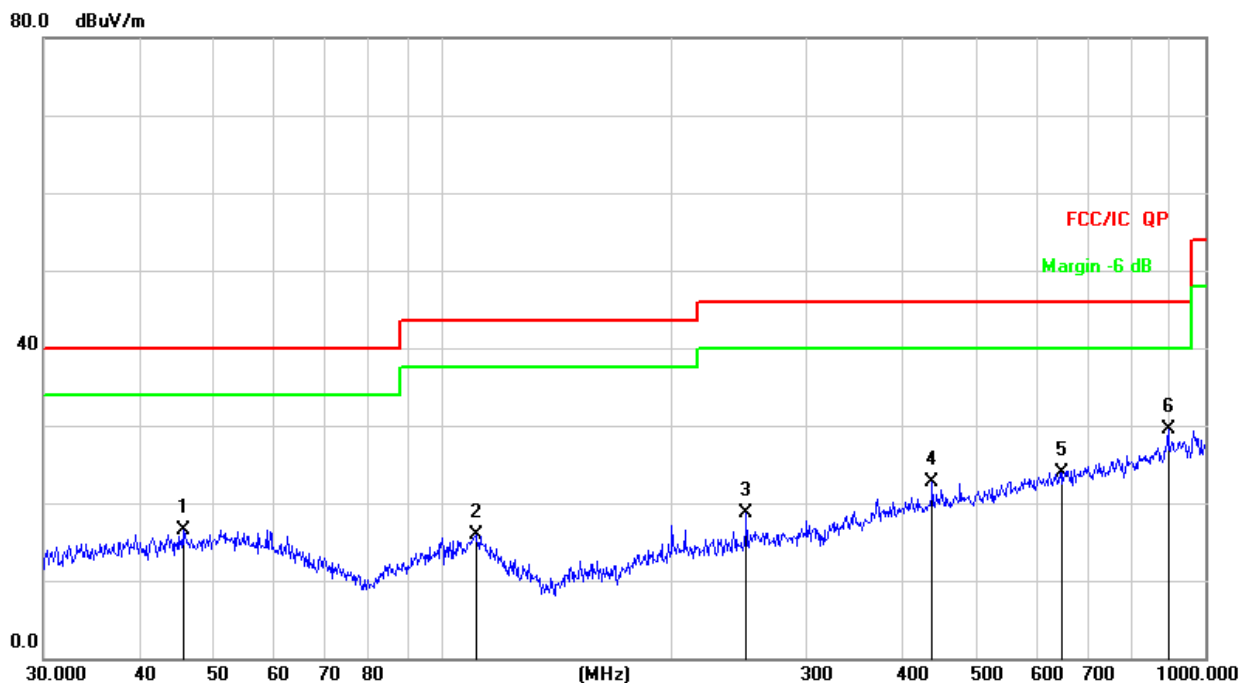
Distance extrapolation factor =  $40 \log (\text{specific distance}/\text{test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



(30MHz -1000MHz)

|               |                    |                    |            |
|---------------|--------------------|--------------------|------------|
| Temperature:  | 24.3 °C            | Relative Humidity: | 53 %       |
| Test Voltage: | AC 120V/60Hz       | Phase:             | Horizontal |
| Test Mode:    | Mode 1(worst mode) |                    |            |



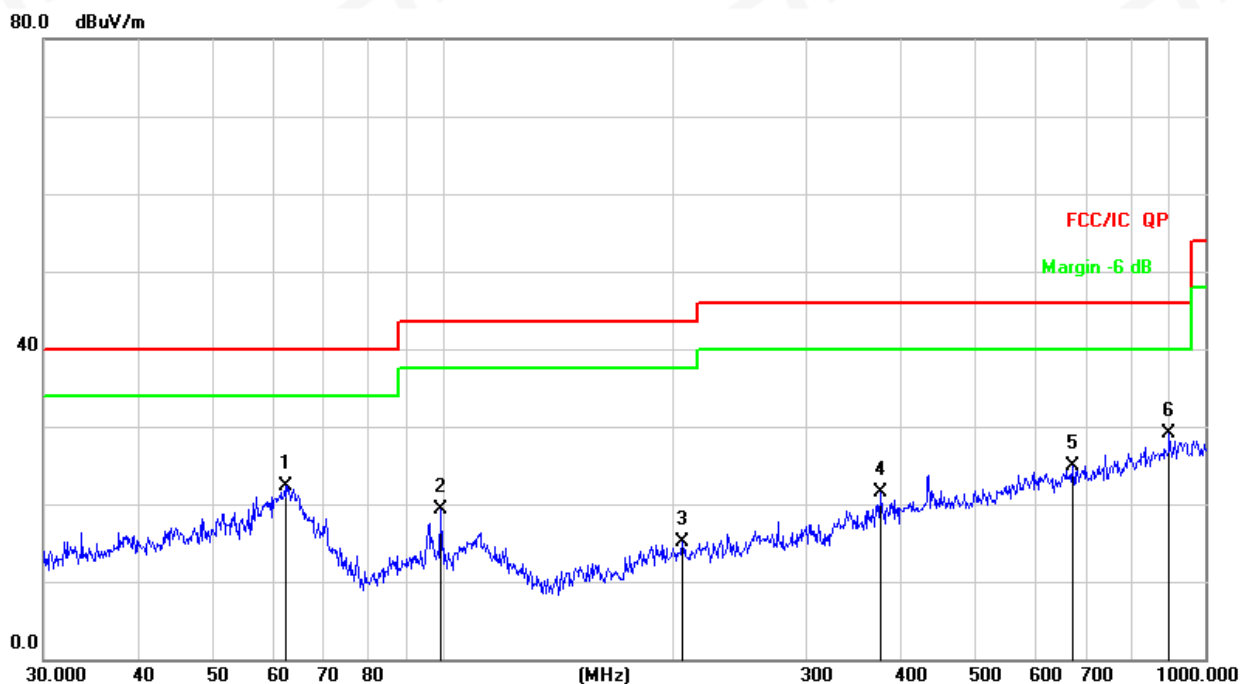
Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement = Reading Level + Correct Factor
3. Over = Measurement - Limit

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dB/m  | dB     | Detector |
| 1   |     | 45.6948  | 24.72         | -8.12          | 16.60       | 40.00 | -23.40 | QP       |
| 2   |     | 110.5687 | 23.46         | -7.64          | 15.82       | 43.50 | -27.68 | QP       |
| 3   |     | 250.3012 | 27.14         | -8.43          | 18.71       | 46.00 | -27.29 | QP       |
| 4   |     | 438.6554 | 27.02         | -4.29          | 22.73       | 46.00 | -23.27 | QP       |
| 5   |     | 649.6597 | 25.40         | -1.46          | 23.94       | 46.00 | -22.06 | QP       |
| 6   | *   | 893.8567 | 27.63         | 1.82           | 29.45       | 46.00 | -16.55 | QP       |



|               |                    |                    |          |
|---------------|--------------------|--------------------|----------|
| Temperature:  | 24.3 °C            | Relative Humidity: | 53 %     |
| Test Voltage: | AC 120V/60Hz       | Phase:             | Vertical |
| Test Mode:    | Mode 1(worst mode) |                    |          |



## Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement = Reading Level + Correct Factor
3. Over = Measurement - Limit

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dB/m  | dB     | Detector |
| 1   |     | 62.2128  | 31.85         | -9.47          | 22.38       | 40.00 | -17.62 | QP       |
| 2   |     | 99.5281  | 29.05         | -9.82          | 19.23       | 43.50 | -24.27 | QP       |
| 3   |     | 206.3976 | 24.49         | -9.43          | 15.06       | 43.50 | -28.44 | QP       |
| 4   |     | 375.9385 | 26.91         | -5.44          | 21.47       | 46.00 | -24.53 | QP       |
| 5   |     | 670.4893 | 26.27         | -1.31          | 24.96       | 46.00 | -21.04 | QP       |
| 6   | *   | 896.9965 | 27.23         | 1.88           | 29.11       | 46.00 | -16.89 | QP       |



## (1GHz-25GHz) Spurious emission Requirements

1M PHY  
GFSK

| Frequency                      | Meter  | Amplifier | Loss  | Antenna | Corrected | Emission | Limits   | Margin | Detect | Comment    |
|--------------------------------|--------|-----------|-------|---------|-----------|----------|----------|--------|--------|------------|
| (MHz)                          | (dBμV) | (dB)      | (dB)  | (dB/m)  | (dB)      | (dBμV/m) | (dBμV/m) | (dB)   | Type   |            |
| Low Channel (GFSK/2402 MHz)    |        |           |       |         |           |          |          |        |        |            |
| 3264.77                        | 61.82  | 44.70     | 6.70  | 28.20   | -9.80     | 52.02    | 74.00    | -21.98 | PK     | Vertical   |
| 3264.77                        | 50.55  | 44.70     | 6.70  | 28.20   | -9.80     | 40.75    | 54.00    | -13.25 | AV     | Vertical   |
| 3264.56                        | 61.00  | 44.70     | 6.70  | 28.20   | -9.80     | 51.20    | 74.00    | -22.80 | PK     | Horizontal |
| 3264.56                        | 50.49  | 44.70     | 6.70  | 28.20   | -9.80     | 40.69    | 54.00    | -13.31 | AV     | Horizontal |
| 4804.36                        | 58.19  | 44.20     | 9.04  | 31.60   | -3.56     | 54.63    | 74.00    | -19.37 | PK     | Vertical   |
| 4804.36                        | 49.85  | 44.20     | 9.04  | 31.60   | -3.56     | 46.29    | 54.00    | -7.71  | AV     | Vertical   |
| 4804.56                        | 58.60  | 44.20     | 9.04  | 31.60   | -3.56     | 55.04    | 74.00    | -18.96 | PK     | Horizontal |
| 4804.56                        | 49.44  | 44.20     | 9.04  | 31.60   | -3.56     | 45.88    | 54.00    | -8.12  | AV     | Horizontal |
| 5359.83                        | 49.00  | 44.20     | 9.86  | 32.00   | -2.34     | 46.66    | 74.00    | -27.34 | PK     | Vertical   |
| 5359.83                        | 39.74  | 44.20     | 9.86  | 32.00   | -2.34     | 37.40    | 54.00    | -16.60 | AV     | Vertical   |
| 5359.75                        | 47.91  | 44.20     | 9.86  | 32.00   | -2.34     | 45.56    | 74.00    | -28.44 | PK     | Horizontal |
| 5359.75                        | 38.70  | 44.20     | 9.86  | 32.00   | -2.34     | 36.36    | 54.00    | -17.64 | AV     | Horizontal |
| 7205.73                        | 54.43  | 43.50     | 11.40 | 35.50   | 3.40      | 57.83    | 74.00    | -16.17 | PK     | Vertical   |
| 7205.73                        | 43.79  | 43.50     | 11.40 | 35.50   | 3.40      | 47.19    | 54.00    | -6.81  | AV     | Vertical   |
| 7205.86                        | 53.64  | 43.50     | 11.40 | 35.50   | 3.40      | 57.04    | 74.00    | -16.96 | PK     | Horizontal |
| 7205.86                        | 43.66  | 43.50     | 11.40 | 35.50   | 3.40      | 47.06    | 54.00    | -6.94  | AV     | Horizontal |
| Middle Channel (GFSK/2440 MHz) |        |           |       |         |           |          |          |        |        |            |
| 3263.16                        | 62.23  | 44.70     | 6.70  | 28.20   | -9.80     | 52.43    | 74.00    | -21.57 | PK     | Vertical   |
| 3263.16                        | 50.57  | 44.70     | 6.70  | 28.20   | -9.80     | 40.77    | 54.00    | -13.23 | AV     | Vertical   |
| 3263.02                        | 61.87  | 44.70     | 6.70  | 28.20   | -9.80     | 52.07    | 74.00    | -21.93 | PK     | Horizontal |
| 3263.02                        | 50.54  | 44.70     | 6.70  | 28.20   | -9.80     | 40.74    | 54.00    | -13.26 | AV     | Horizontal |
| 4879.85                        | 58.23  | 44.20     | 9.04  | 31.60   | -3.56     | 54.67    | 74.00    | -19.33 | PK     | Vertical   |
| 4879.85                        | 49.79  | 44.20     | 9.04  | 31.60   | -3.56     | 46.23    | 54.00    | -7.77  | AV     | Vertical   |
| 4879.94                        | 58.65  | 44.20     | 9.04  | 31.60   | -3.56     | 55.09    | 74.00    | -18.91 | PK     | Horizontal |
| 4879.94                        | 49.15  | 44.20     | 9.04  | 31.60   | -3.56     | 45.59    | 54.00    | -8.41  | AV     | Horizontal |
| 5357.24                        | 48.79  | 44.20     | 9.86  | 32.00   | -2.34     | 46.45    | 74.00    | -27.55 | PK     | Vertical   |
| 5357.24                        | 39.04  | 44.20     | 9.86  | 32.00   | -2.34     | 36.69    | 54.00    | -17.31 | AV     | Vertical   |
| 5357.39                        | 48.34  | 44.20     | 9.86  | 32.00   | -2.34     | 46.00    | 74.00    | -28.00 | PK     | Horizontal |
| 5357.17                        | 39.39  | 44.20     | 9.86  | 32.00   | -2.34     | 37.05    | 54.00    | -16.95 | AV     | Horizontal |
| 7320.85                        | 54.86  | 43.50     | 11.40 | 35.50   | 3.40      | 58.26    | 74.00    | -15.74 | PK     | Vertical   |
| 7320.85                        | 43.86  | 43.50     | 11.40 | 35.50   | 3.40      | 47.26    | 54.00    | -6.74  | AV     | Vertical   |
| 7320.29                        | 54.48  | 43.50     | 11.40 | 35.50   | 3.40      | 57.88    | 74.00    | -16.12 | PK     | Horizontal |
| 7320.29                        | 43.71  | 43.50     | 11.40 | 35.50   | 3.40      | 47.11    | 54.00    | -6.89  | AV     | Horizontal |



| High Channel (GFSK/2480 MHz) |       |       |       |       |       |       |       |        |    |            |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|--------|----|------------|
| 3264.79                      | 62.02 | 44.70 | 6.70  | 28.20 | -9.80 | 52.22 | 74.00 | -21.78 | PK | Vertical   |
| 3264.79                      | 51.18 | 44.70 | 6.70  | 28.20 | -9.80 | 41.38 | 54.00 | -12.62 | AV | Vertical   |
| 3264.82                      | 61.91 | 44.70 | 6.70  | 28.20 | -9.80 | 52.11 | 74.00 | -21.89 | PK | Horizontal |
| 3264.82                      | 50.46 | 44.70 | 6.70  | 28.20 | -9.80 | 40.66 | 54.00 | -13.34 | AV | Horizontal |
| 4960.28                      | 58.52 | 44.20 | 9.04  | 31.60 | -3.56 | 54.96 | 74.00 | -19.04 | PK | Vertical   |
| 4960.28                      | 49.31 | 44.20 | 9.04  | 31.60 | -3.56 | 45.75 | 54.00 | -8.25  | AV | Vertical   |
| 4960.47                      | 58.24 | 44.20 | 9.04  | 31.60 | -3.56 | 54.68 | 74.00 | -19.32 | PK | Horizontal |
| 4960.47                      | 49.77 | 44.20 | 9.04  | 31.60 | -3.56 | 46.21 | 54.00 | -7.79  | AV | Horizontal |
| 5359.86                      | 48.36 | 44.20 | 9.86  | 32.00 | -2.34 | 46.01 | 74.00 | -27.99 | PK | Vertical   |
| 5359.86                      | 39.35 | 44.20 | 9.86  | 32.00 | -2.34 | 37.00 | 54.00 | -17.00 | AV | Vertical   |
| 5359.81                      | 48.26 | 44.20 | 9.86  | 32.00 | -2.34 | 45.92 | 74.00 | -28.08 | PK | Horizontal |
| 5359.81                      | 39.02 | 44.20 | 9.86  | 32.00 | -2.34 | 36.68 | 54.00 | -17.32 | AV | Horizontal |
| 7439.96                      | 53.71 | 43.50 | 11.40 | 35.50 | 3.40  | 57.11 | 74.00 | -16.89 | PK | Vertical   |
| 7439.96                      | 44.06 | 43.50 | 11.40 | 35.50 | 3.40  | 47.46 | 54.00 | -6.54  | AV | Vertical   |
| 7439.82                      | 53.88 | 43.50 | 11.40 | 35.50 | 3.40  | 57.28 | 74.00 | -16.72 | PK | Horizontal |
| 7439.82                      | 44.31 | 43.50 | 11.40 | 35.50 | 3.40  | 47.71 | 54.00 | -6.29  | AV | Horizontal |

Note:

1) Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Emission Level = Reading + Factor.

2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

2M PHY  
GFSK

| Frequency                      | Meter  | Amplifier | Loss  | Antenna | Corrected | Emission | Limits   | Margin | Detect | Comment    |
|--------------------------------|--------|-----------|-------|---------|-----------|----------|----------|--------|--------|------------|
| (MHz)                          | (dBμV) | (dB)      | (dB)  | (dB/m)  | (dB)      | (dBμV/m) | (dBμV/m) | (dB)   | Type   |            |
| Low Channel (GFSK/2402 MHz)    |        |           |       |         |           |          |          |        |        |            |
| 3264.87                        | 62.25  | 44.70     | 6.70  | 28.20   | -9.80     | 52.45    | 74.00    | -21.55 | PK     | Vertical   |
| 3264.87                        | 50.29  | 44.70     | 6.70  | 28.20   | -9.80     | 40.49    | 54.00    | -13.51 | AV     | Vertical   |
| 3264.77                        | 61.03  | 44.70     | 6.70  | 28.20   | -9.80     | 51.23    | 74.00    | -22.77 | PK     | Horizontal |
| 3264.77                        | 49.91  | 44.70     | 6.70  | 28.20   | -9.80     | 40.11    | 54.00    | -13.89 | AV     | Horizontal |
| 4804.49                        | 58.81  | 44.20     | 9.04  | 31.60   | -3.56     | 55.25    | 74.00    | -18.75 | PK     | Vertical   |
| 4804.49                        | 50.19  | 44.20     | 9.04  | 31.60   | -3.56     | 46.63    | 54.00    | -7.37  | AV     | Vertical   |
| 4804.32                        | 59.23  | 44.20     | 9.04  | 31.60   | -3.56     | 55.67    | 74.00    | -18.33 | PK     | Horizontal |
| 4804.32                        | 50.53  | 44.20     | 9.04  | 31.60   | -3.56     | 46.97    | 54.00    | -7.03  | AV     | Horizontal |
| 5359.85                        | 48.24  | 44.20     | 9.86  | 32.00   | -2.34     | 45.89    | 74.00    | -28.11 | PK     | Vertical   |
| 5359.85                        | 39.91  | 44.20     | 9.86  | 32.00   | -2.34     | 37.57    | 54.00    | -16.43 | AV     | Vertical   |
| 5359.80                        | 48.31  | 44.20     | 9.86  | 32.00   | -2.34     | 45.97    | 74.00    | -28.03 | PK     | Horizontal |
| 5359.80                        | 39.45  | 44.20     | 9.86  | 32.00   | -2.34     | 37.11    | 54.00    | -16.89 | AV     | Horizontal |
| 7205.88                        | 54.35  | 43.50     | 11.40 | 35.50   | 3.40      | 57.75    | 74.00    | -16.25 | PK     | Vertical   |
| 7205.88                        | 43.72  | 43.50     | 11.40 | 35.50   | 3.40      | 47.12    | 54.00    | -6.88  | AV     | Vertical   |
| 7205.68                        | 53.54  | 43.50     | 11.40 | 35.50   | 3.40      | 56.94    | 74.00    | -17.06 | PK     | Horizontal |
| 7205.68                        | 44.94  | 43.50     | 11.40 | 35.50   | 3.40      | 48.34    | 54.00    | -5.66  | AV     | Horizontal |
| Middle Channel (GFSK/2440 MHz) |        |           |       |         |           |          |          |        |        |            |
| 3263.04                        | 61.29  | 44.70     | 6.70  | 28.20   | -9.80     | 51.49    | 74.00    | -22.51 | PK     | Vertical   |
| 3263.04                        | 50.46  | 44.70     | 6.70  | 28.20   | -9.80     | 40.66    | 54.00    | -13.34 | AV     | Vertical   |
| 3263.18                        | 61.85  | 44.70     | 6.70  | 28.20   | -9.80     | 52.05    | 74.00    | -21.95 | PK     | Horizontal |
| 3263.18                        | 51.28  | 44.70     | 6.70  | 28.20   | -9.80     | 41.48    | 54.00    | -12.52 | AV     | Horizontal |
| 4879.89                        | 58.81  | 44.20     | 9.04  | 31.60   | -3.56     | 55.25    | 74.00    | -18.75 | PK     | Vertical   |
| 4879.89                        | 50.17  | 44.20     | 9.04  | 31.60   | -3.56     | 46.61    | 54.00    | -7.39  | AV     | Vertical   |
| 4880.18                        | 59.39  | 44.20     | 9.04  | 31.60   | -3.56     | 55.83    | 74.00    | -18.17 | PK     | Horizontal |
| 4880.18                        | 50.52  | 44.20     | 9.04  | 31.60   | -3.56     | 46.96    | 54.00    | -7.04  | AV     | Horizontal |
| 5357.18                        | 48.04  | 44.20     | 9.86  | 32.00   | -2.34     | 45.69    | 74.00    | -28.31 | PK     | Vertical   |
| 5357.18                        | 40.13  | 44.20     | 9.86  | 32.00   | -2.34     | 37.78    | 54.00    | -16.22 | AV     | Vertical   |
| 5357.39                        | 47.97  | 44.20     | 9.86  | 32.00   | -2.34     | 45.63    | 74.00    | -28.37 | PK     | Horizontal |
| 5357.01                        | 39.36  | 44.20     | 9.86  | 32.00   | -2.34     | 37.02    | 54.00    | -16.98 | AV     | Horizontal |
| 7320.85                        | 54.54  | 43.50     | 11.40 | 35.50   | 3.40      | 57.94    | 74.00    | -16.06 | PK     | Vertical   |
| 7320.85                        | 43.87  | 43.50     | 11.40 | 35.50   | 3.40      | 47.27    | 54.00    | -6.73  | AV     | Vertical   |
| 7320.54                        | 53.88  | 43.50     | 11.40 | 35.50   | 3.40      | 57.28    | 74.00    | -16.72 | PK     | Horizontal |
| 7320.54                        | 44.78  | 43.50     | 11.40 | 35.50   | 3.40      | 48.18    | 54.00    | -5.82  | AV     | Horizontal |



| High Channel (GFSK/2480 MHz) |       |       |       |       |       |       |       |        |    |            |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|--------|----|------------|
| 3264.73                      | 61.76 | 44.70 | 6.70  | 28.20 | -9.80 | 51.96 | 74.00 | -22.04 | PK | Vertical   |
| 3264.73                      | 50.95 | 44.70 | 6.70  | 28.20 | -9.80 | 41.15 | 54.00 | -12.85 | AV | Vertical   |
| 3264.64                      | 61.60 | 44.70 | 6.70  | 28.20 | -9.80 | 51.80 | 74.00 | -22.20 | PK | Horizontal |
| 3264.64                      | 50.04 | 44.70 | 6.70  | 28.20 | -9.80 | 40.24 | 54.00 | -13.76 | AV | Horizontal |
| 4960.37                      | 58.44 | 44.20 | 9.04  | 31.60 | -3.56 | 54.88 | 74.00 | -19.12 | PK | Vertical   |
| 4960.37                      | 49.74 | 44.20 | 9.04  | 31.60 | -3.56 | 46.18 | 54.00 | -7.82  | AV | Vertical   |
| 4960.51                      | 59.63 | 44.20 | 9.04  | 31.60 | -3.56 | 56.07 | 74.00 | -17.93 | PK | Horizontal |
| 4960.51                      | 49.94 | 44.20 | 9.04  | 31.60 | -3.56 | 46.38 | 54.00 | -7.62  | AV | Horizontal |
| 5359.65                      | 48.73 | 44.20 | 9.86  | 32.00 | -2.34 | 46.39 | 74.00 | -27.61 | PK | Vertical   |
| 5359.65                      | 40.34 | 44.20 | 9.86  | 32.00 | -2.34 | 38.00 | 54.00 | -16.00 | AV | Vertical   |
| 5359.66                      | 47.42 | 44.20 | 9.86  | 32.00 | -2.34 | 45.08 | 74.00 | -28.92 | PK | Horizontal |
| 5359.66                      | 38.37 | 44.20 | 9.86  | 32.00 | -2.34 | 36.03 | 54.00 | -17.97 | AV | Horizontal |
| 7439.78                      | 54.36 | 43.50 | 11.40 | 35.50 | 3.40  | 57.76 | 74.00 | -16.24 | PK | Vertical   |
| 7439.78                      | 44.50 | 43.50 | 11.40 | 35.50 | 3.40  | 47.90 | 54.00 | -6.10  | AV | Vertical   |
| 7439.90                      | 53.79 | 43.50 | 11.40 | 35.50 | 3.40  | 57.19 | 74.00 | -16.81 | PK | Horizontal |
| 7439.90                      | 44.26 | 43.50 | 11.40 | 35.50 | 3.40  | 47.66 | 54.00 | -6.34  | AV | Horizontal |

Note:

1) Factor = Antenna Factor + Cable Loss – Pre-amplifier.

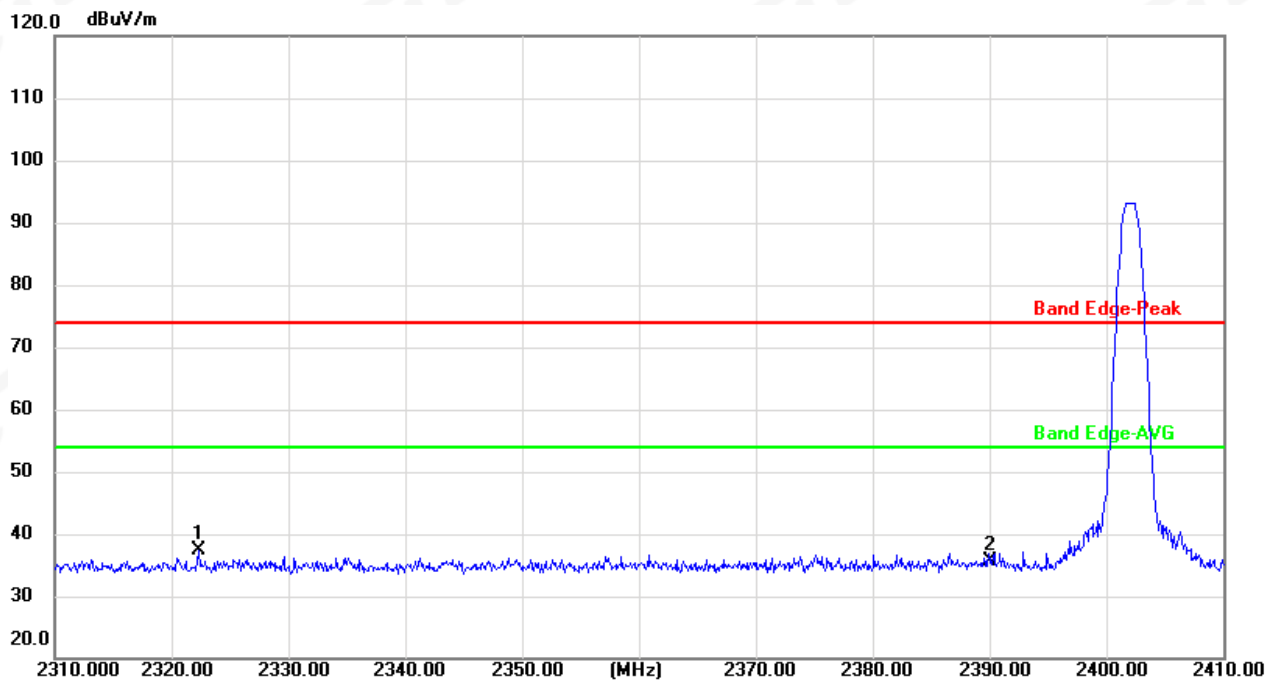
Emission Level = Reading + Factor.

2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.



## 4.6 TEST RESULTS (Restricted Bands Requirements)

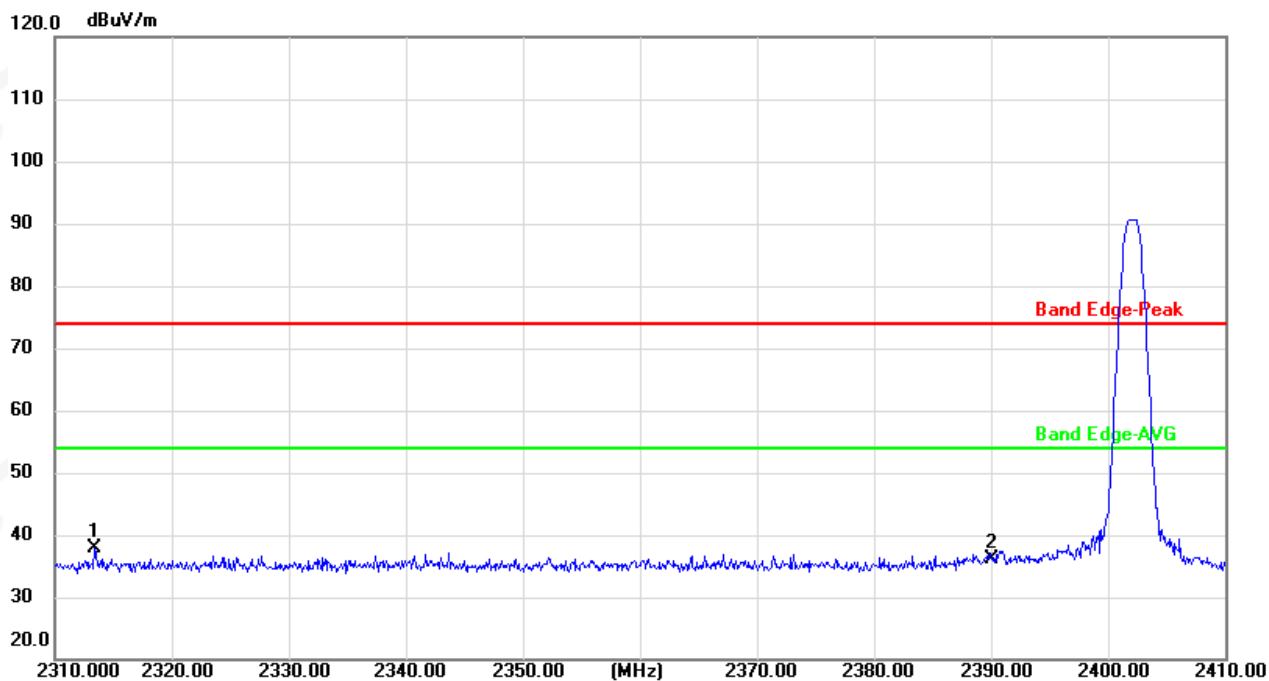
1M PHY  
GFSK-Low  
Horizontal



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 * | 2322.300        | 63.27          | -25.96        | 37.31          | 74.00          | -36.69      | peak     |
| 2   | 2390.000        | 61.55          | -25.82        | 35.73          | 74.00          | -38.27      | peak     |



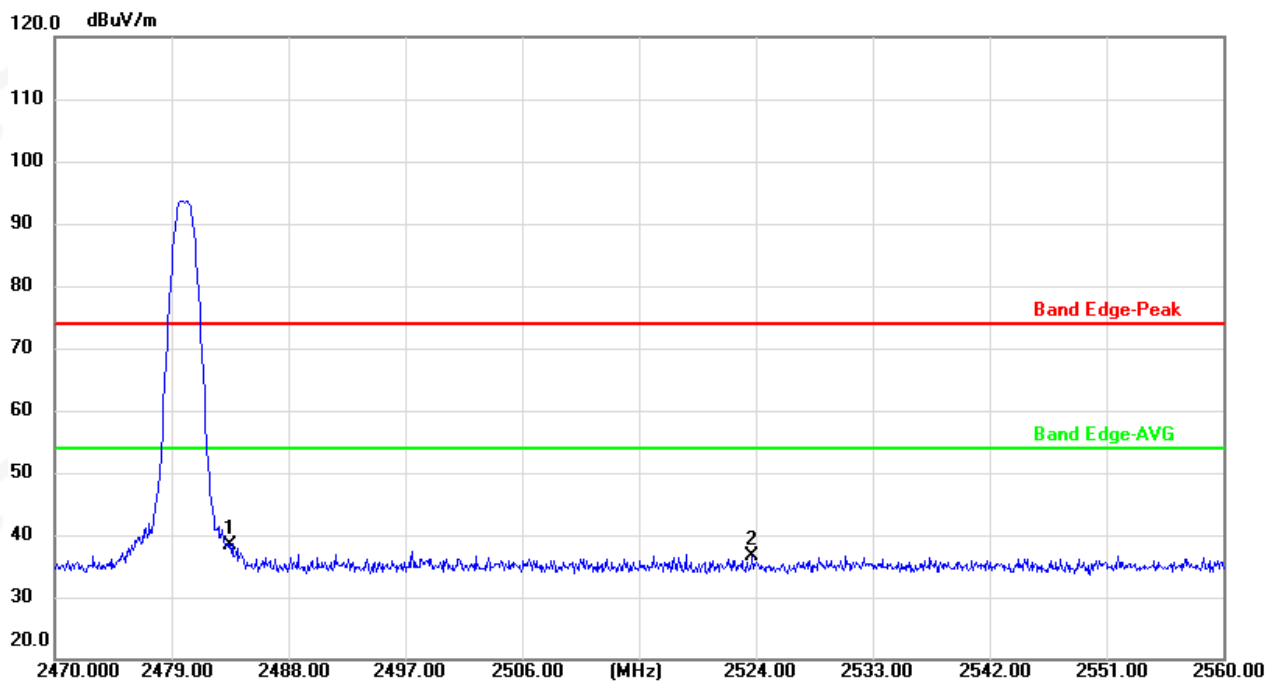
1M PHY  
GFSK-Low  
Vertical



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 * | 2313.400        | 63.93          | -25.97        | 37.96          | 74.00          | -36.04      | peak     |
| 2   | 2390.000        | 62.03          | -25.82        | 36.21          | 74.00          | -37.79      | peak     |



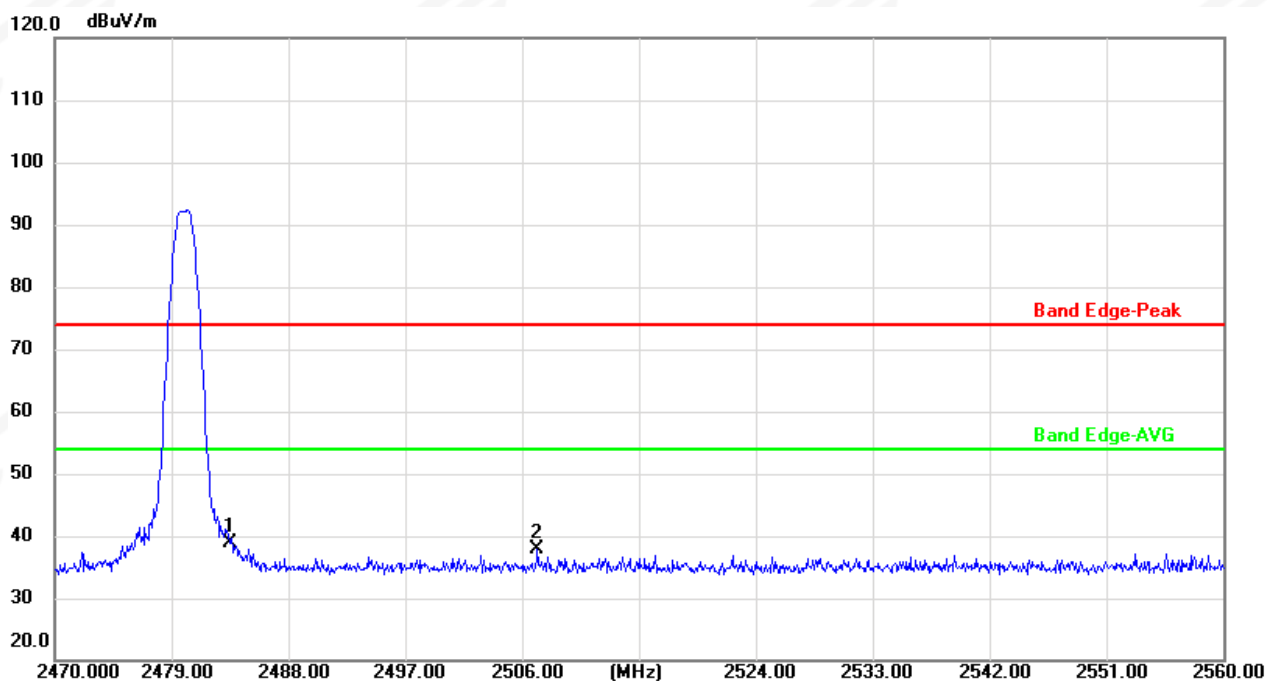
1M PHY  
GFSK-High  
Horizontal



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 * | 2483.500        | 64.13          | -25.63        | 38.50          | 74.00          | -35.50      | peak     |
| 2   | 2523.730        | 62.15          | -25.57        | 36.58          | 74.00          | -37.42      | peak     |



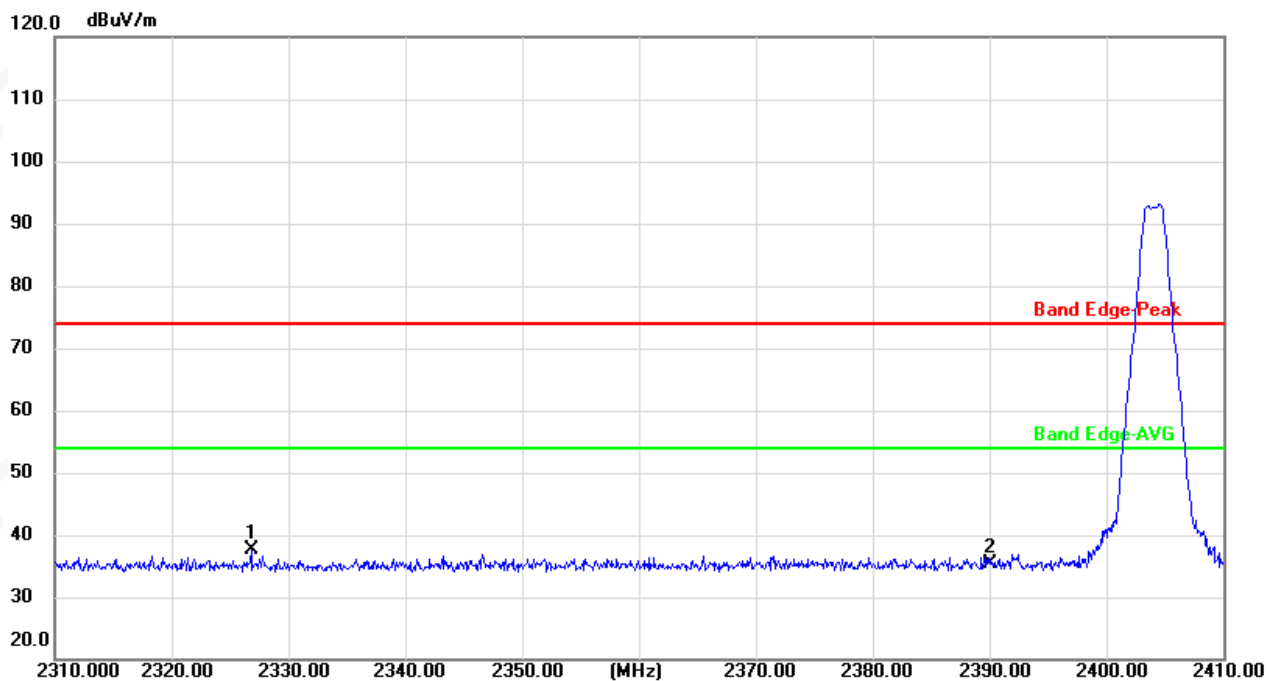
1M PHY  
GFSK-High  
Vertical



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 * | 2483.500        | 64.58          | -25.63        | 38.95          | 74.00          | -35.05      | peak     |
| 2   | 2507.170        | 63.50          | -25.59        | 37.91          | 74.00          | -36.09      | peak     |



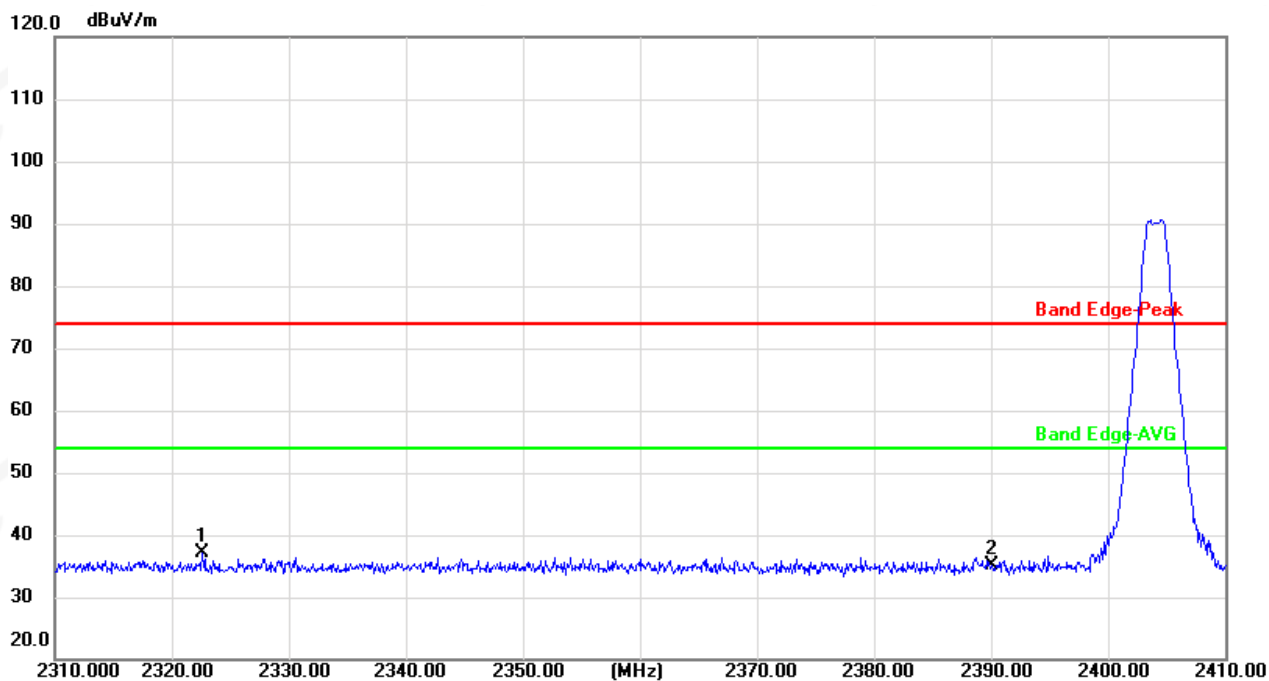
2M PHY  
GFSK-Low  
Horizontal



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 * | 2326.800        | 63.61          | -25.95        | 37.66          | 74.00          | -36.34      | peak     |
| 2   | 2390.000        | 61.10          | -25.82        | 35.28          | 74.00          | -38.72      | peak     |



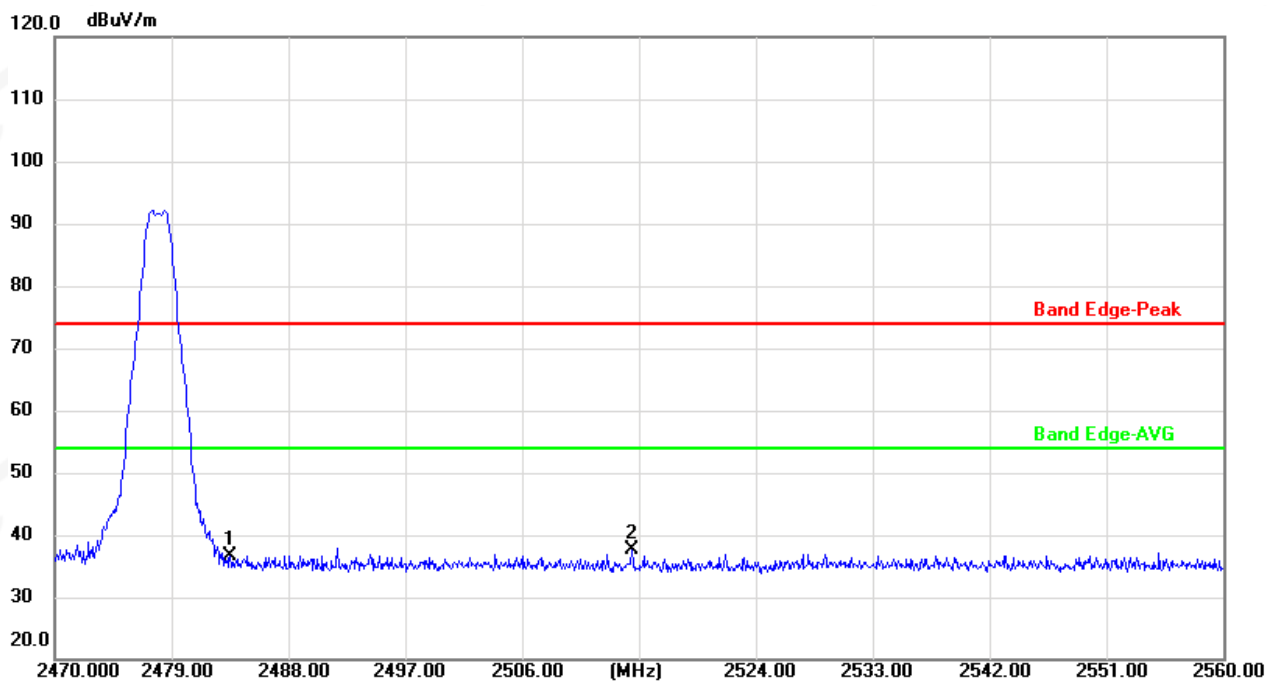
2M PHY  
GFSK-Low  
Vertical



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 * | 2322.600        | 62.99          | -25.95        | 37.04          | 74.00          | -36.96      | peak     |
| 2   | 2390.000        | 61.04          | -25.82        | 35.22          | 74.00          | -38.78      | peak     |



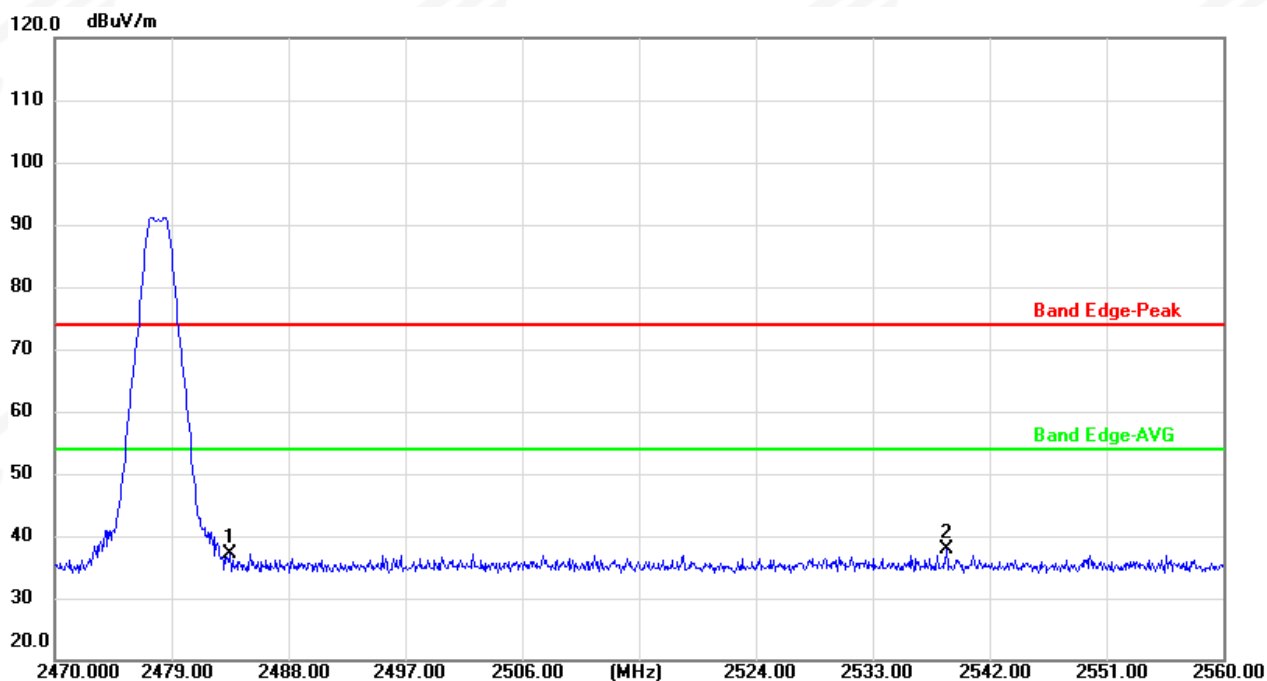
2M PHY  
GFSK-High  
Horizontal



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 2483.500        | 62.21          | -25.63        | 36.58          | 74.00          | -37.42      | peak     |
| 2 * | 2514.460        | 63.25          | -25.58        | 37.67          | 74.00          | -36.33      | peak     |



2M PHY  
GFSK-High  
Vertical



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 2483.500        | 62.81          | -25.63        | 37.18          | 74.00          | -36.82      | peak     |
| 2 * | 2538.670        | 63.45          | -25.55        | 37.90          | 74.00          | -36.10      | peak     |

## 5. CONDUCTED SPURIOUS & BAND EDGE EMISSION

### 5.1 LIMIT

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

### 5.2 TEST PROCEDURE

| Spectrum Parameter                    | Setting                         |
|---------------------------------------|---------------------------------|
| Detector                              | Peak                            |
| Start/Stop Frequency                  | 30 MHz to 10th carrier harmonic |
| RB / VB (emission in restricted band) | 100 KHz/300 KHz                 |
| Trace-Mode:                           | Max hold                        |

For Band edge

| Spectrum Parameter                    | Setting         |
|---------------------------------------|-----------------|
| Detector                              | Peak            |
| RB / VB (emission in restricted band) | 100 KHz/300 KHz |
| Trace-Mode:                           | Max hold        |

### 5.3 TEST SETUP



The EUT is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

### 5.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

### 5.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.

## 6. POWER SPECTRAL DENSITY TEST

### 6.1 LIMIT

| FCC Part 15.247, Subpart C |                        |                                                     |                       |        |
|----------------------------|------------------------|-----------------------------------------------------|-----------------------|--------|
| Section                    | Test Item              | Limit                                               | Frequency Range (MHz) | Result |
| 15.247(e)                  | Power Spectral Density | $\leq 8 \text{ dBm}$<br>(RBW $\geq 3 \text{ KHz}$ ) | 2400-2483.5           | PASS   |

### 6.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW to:  $100 \text{ kHz} \geq \text{RBW} \geq 3 \text{ kHz}$ .
4. Set the VBW  $\geq 3 \times \text{RBW}$ .
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

### 6.3 TEST SETUP



### 6.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

### 6.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



## 7. BANDWIDTH TEST

### 7.1 LIMIT

| FCC Part 15.247, Subpart C |           |                                         |                       |        |
|----------------------------|-----------|-----------------------------------------|-----------------------|--------|
| Section                    | Test Item | Limit                                   | Frequency Range (MHz) | Result |
| 15.247(a)(2)               | Bandwidth | $\geq 500\text{KHz}$<br>(6dB bandwidth) | 2400-2483.5           | PASS   |

### 7.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW  $\geq 3\text{RBW}$ , peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be  $\geq 6$  dB.

### 7.3 TEST SETUP



### 7.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

### 7.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



## 8. PEAK OUTPUT POWER TEST

### 8.1 LIMIT

| FCC Part 15.247, Subpart C |              |                 |                       |        |
|----------------------------|--------------|-----------------|-----------------------|--------|
| Section                    | Test Item    | Limit           | Frequency Range (MHz) | Result |
| 15.247(b)(3)               | Output Power | 1 watt or 30dBm | 2400-2483.5           | PASS   |

### 8.2 TEST PROCEDURE

One of the following procedures may be used to determine the maximum peak conducted output power of a DTS EUT.

RBW  $\geq$  DTS bandwidth

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

- Set the RBW  $\geq$  DTS bandwidth.
- Set VBW  $\geq$  [3  $\times$  RBW].
- Set span  $\geq$  [3  $\times$  RBW].
- Sweep time = auto couple.
- Detector = peak.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use peak marker function to determine the peak amplitude level.

### 8.3 TEST SETUP



### 8.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

### 8.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



## 9. ANTENNA REQUIREMENT

### 9.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

### 9.2 EUT ANTENNA

The EUT antenna is Internal Antenna. It comply with the standard requirement.

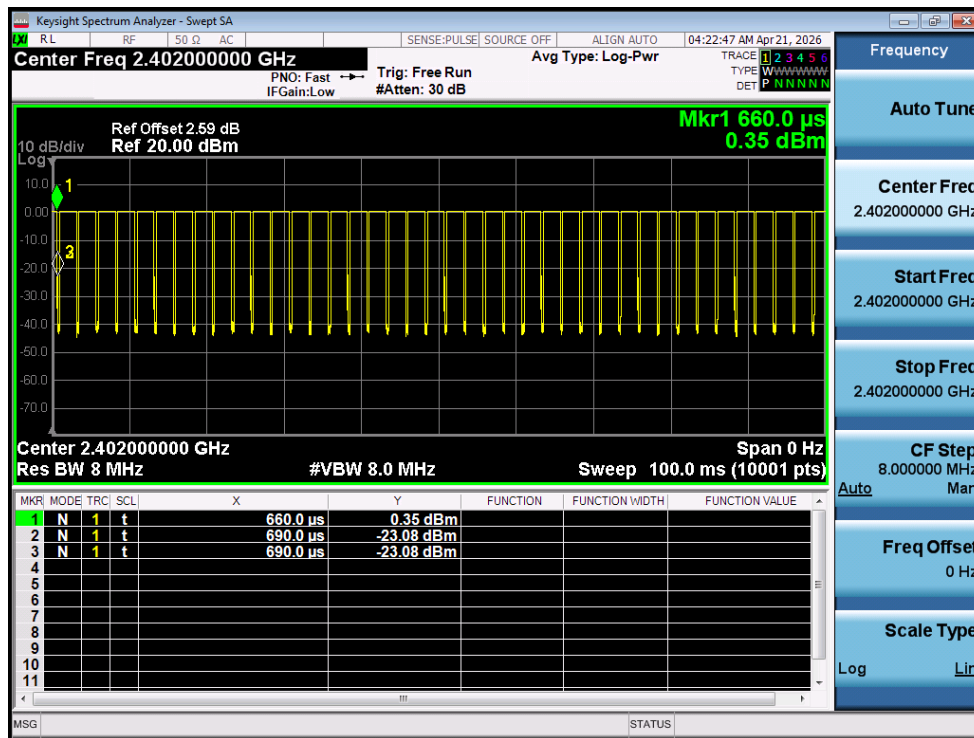
**APPENDIX 1-TEST DATA****Duty Cycle**

| Condition | Mode   | Frequency (MHz) | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|--------|-----------------|----------------|------------------------|-----------|
| NVNT      | BLE 1M | 2402            | 0              | 0                      | $\infty$  |
| NVNT      | BLE 1M | 2440            | 0              | 0                      | $\infty$  |
| NVNT      | BLE 1M | 2480            | 0              | 0                      | $\infty$  |
| NVNT      | BLE 2M | 2402            | 0              | 0                      | $\infty$  |
| NVNT      | BLE 2M | 2440            | 0              | 0                      | $\infty$  |
| NVNT      | BLE 2M | 2480            | 0              | 0                      | $\infty$  |

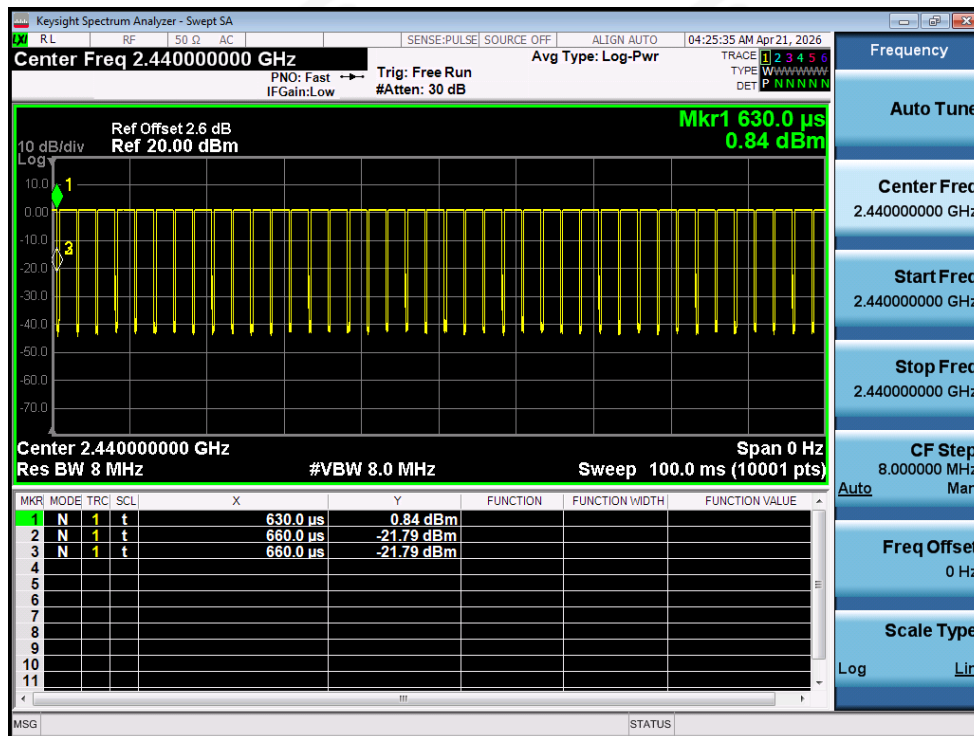


## Test Graphs

## Duty Cycle NVNT BLE 1M 2402MHz

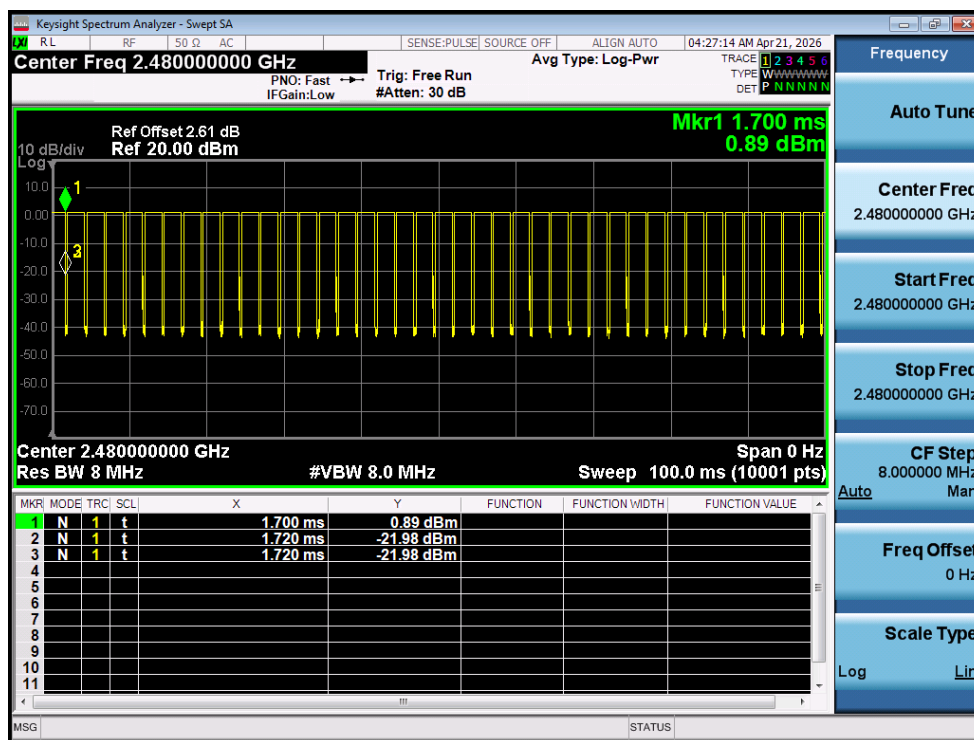


## Duty Cycle NVNT BLE 1M 2440MHz

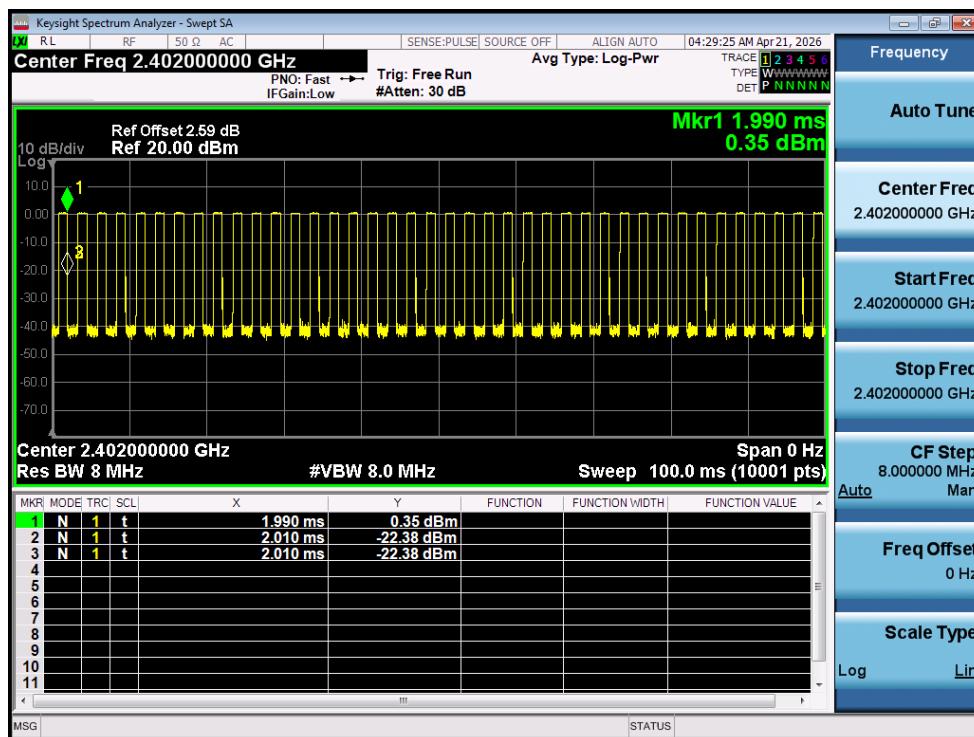




## Duty Cycle NVNT BLE 1M 2480MHz

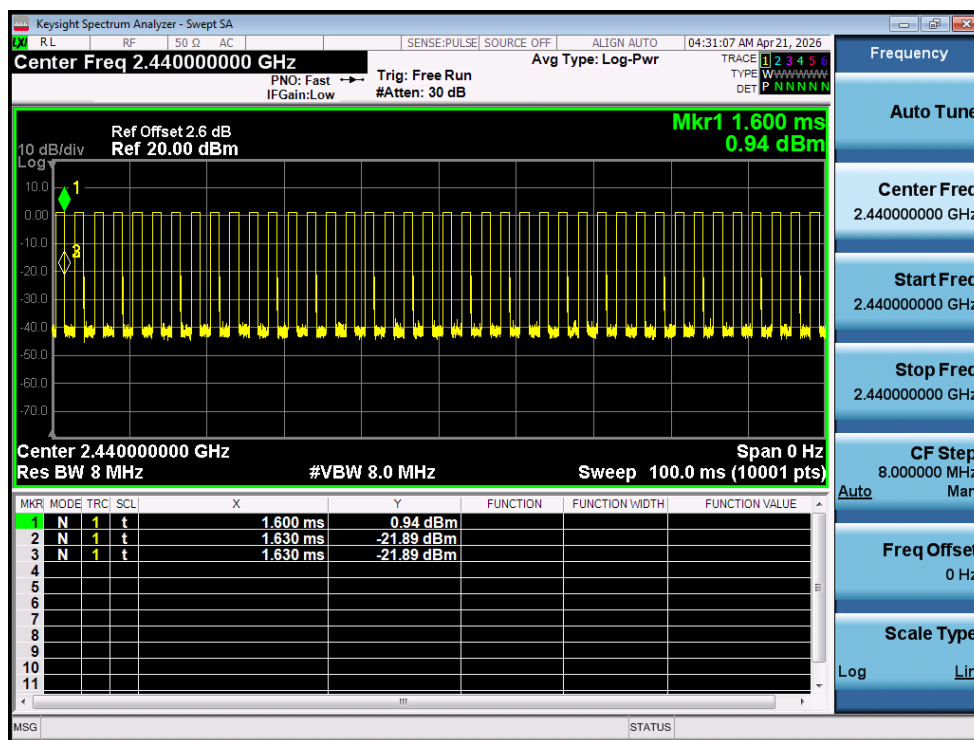


## Duty Cycle NVNT BLE 2M 2402MHz

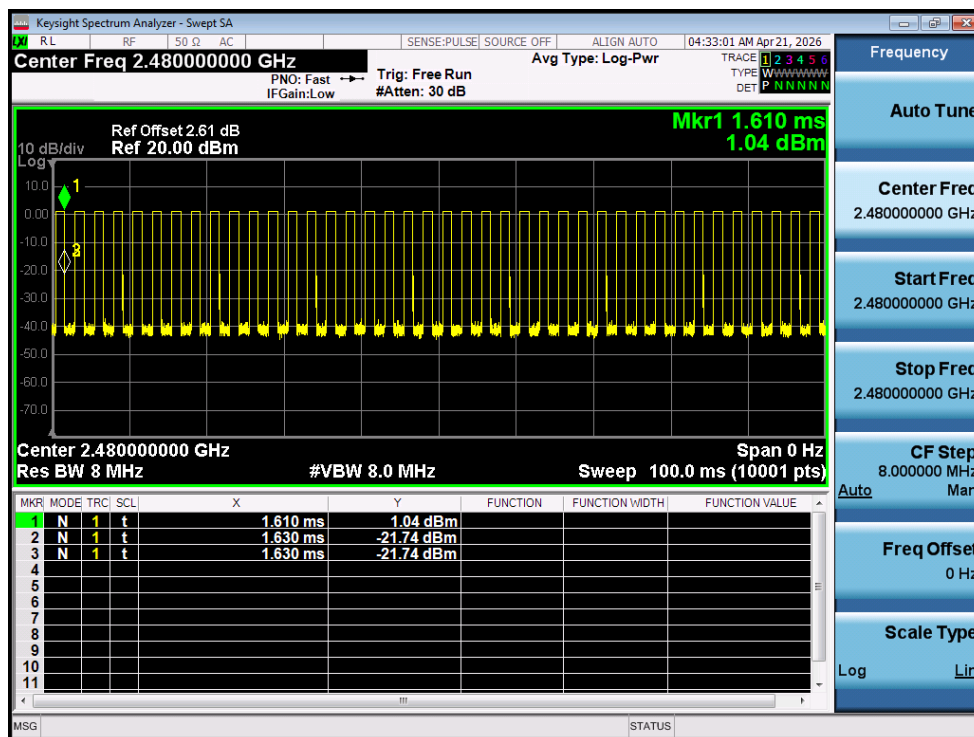




## Duty Cycle NVNT BLE 2M 2440MHz



## Duty Cycle NVNT BLE 2M 2480MHz





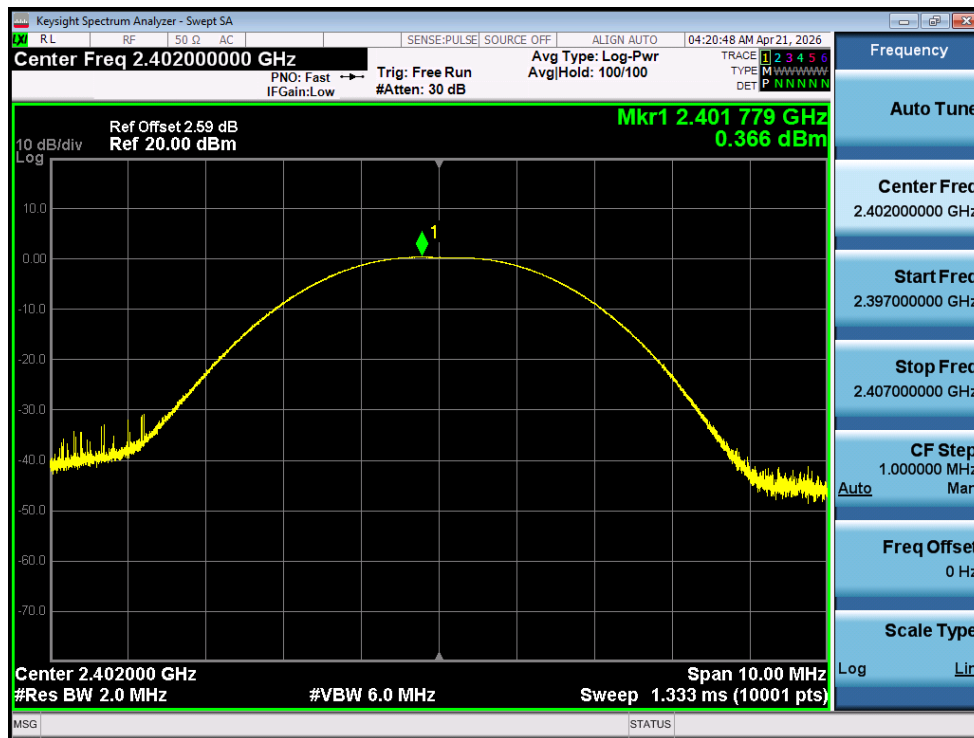
## Maximum Output Power

| Condition | Mode   | Frequency<br>(MHz) | Conducted Power<br>(dBm) | Limit<br>(dBm) | Verdict |
|-----------|--------|--------------------|--------------------------|----------------|---------|
| NVNT      | BLE 1M | 2402               | 0.37                     | 30             | Pass    |
| NVNT      | BLE 1M | 2440               | 0.81                     | 30             | Pass    |
| NVNT      | BLE 1M | 2480               | 0.95                     | 30             | Pass    |
| NVNT      | BLE 2M | 2402               | 0.46                     | 30             | Pass    |
| NVNT      | BLE 2M | 2440               | 0.97                     | 30             | Pass    |
| NVNT      | BLE 2M | 2480               | 1.13                     | 30             | Pass    |

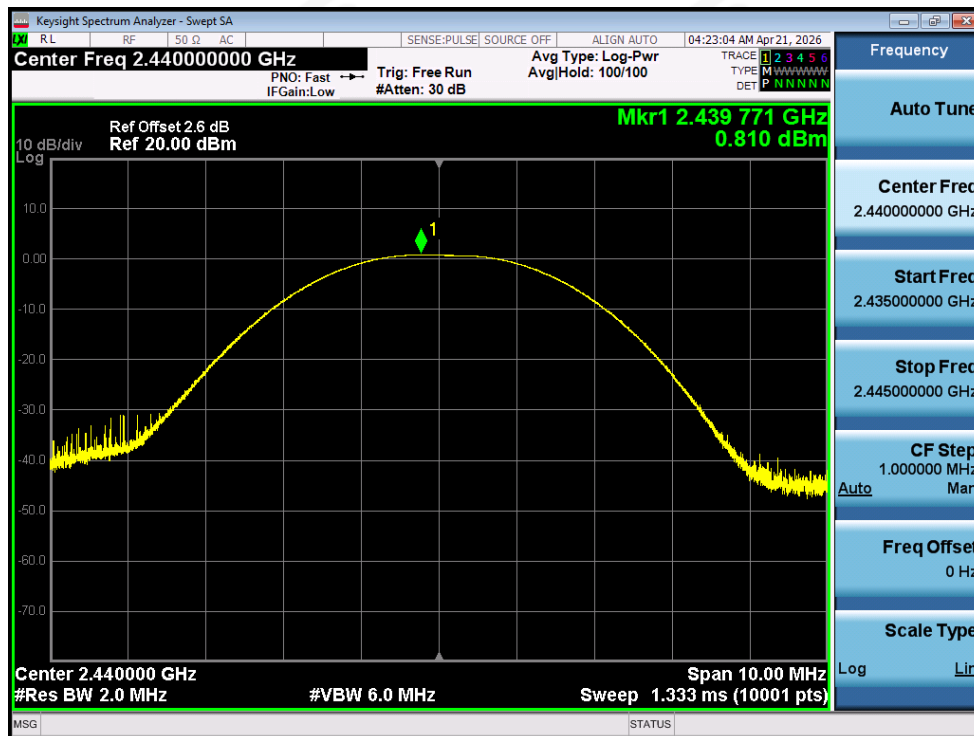


## Test Graphs

## Power NVNT BLE 1M 2402MHz

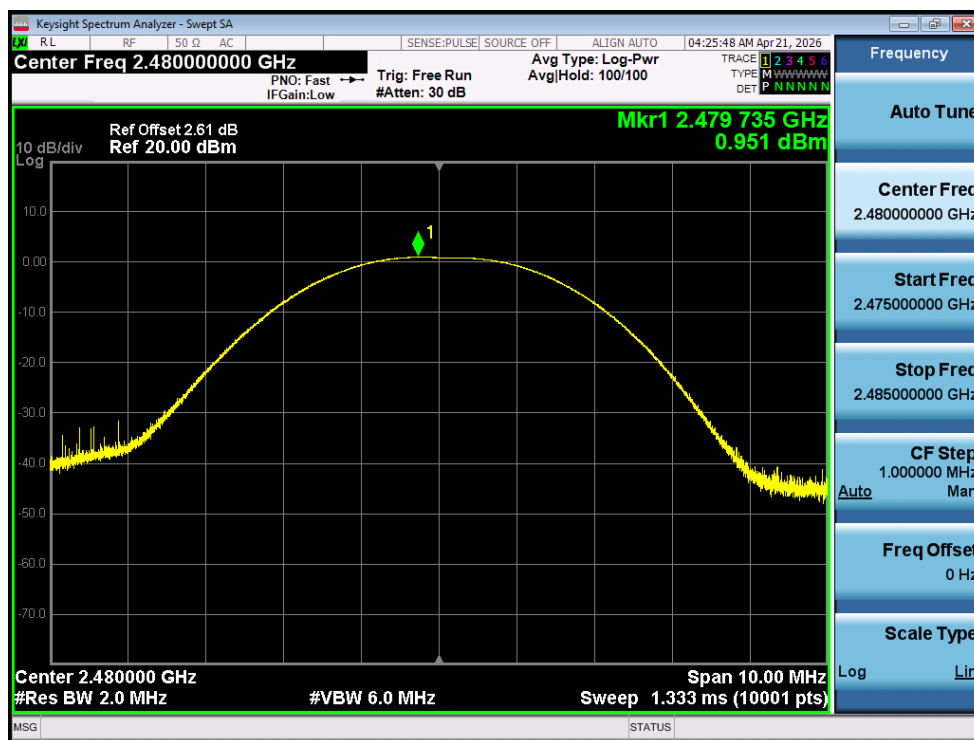


## Power NVNT BLE 1M 2440MHz

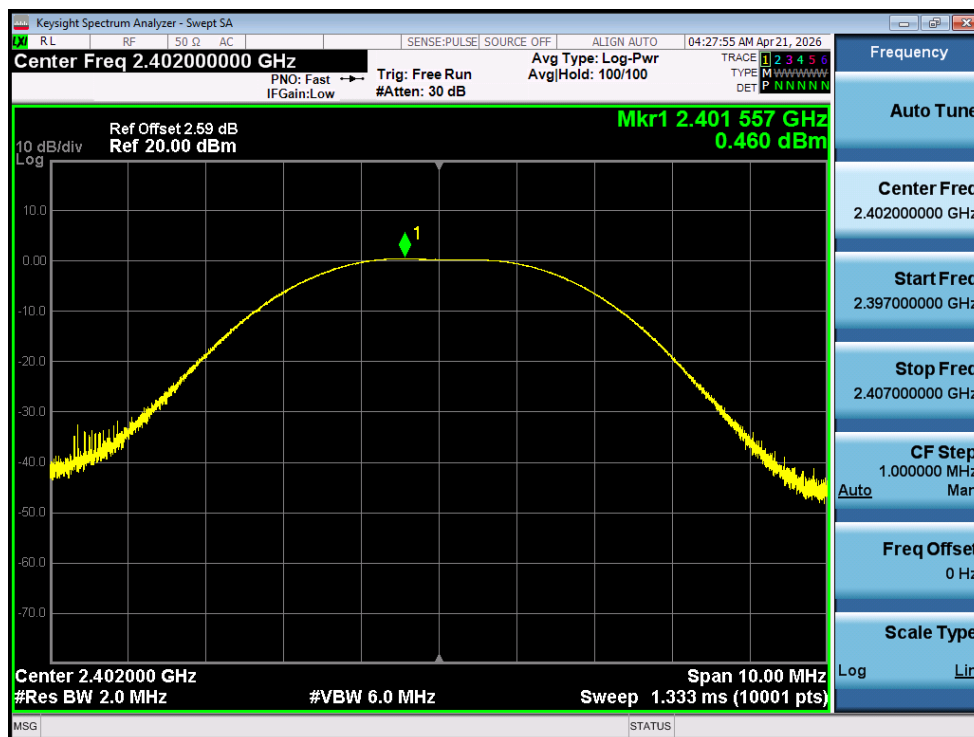




## Power NVNT BLE 1M 2480MHz

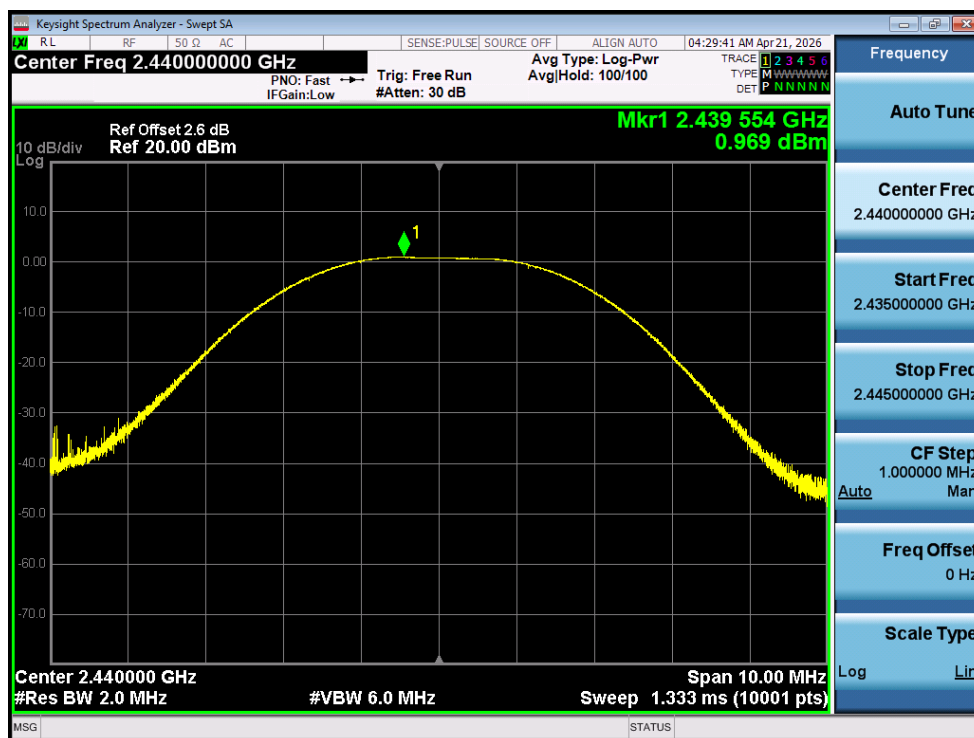


## Power NVNT BLE 2M 2402MHz

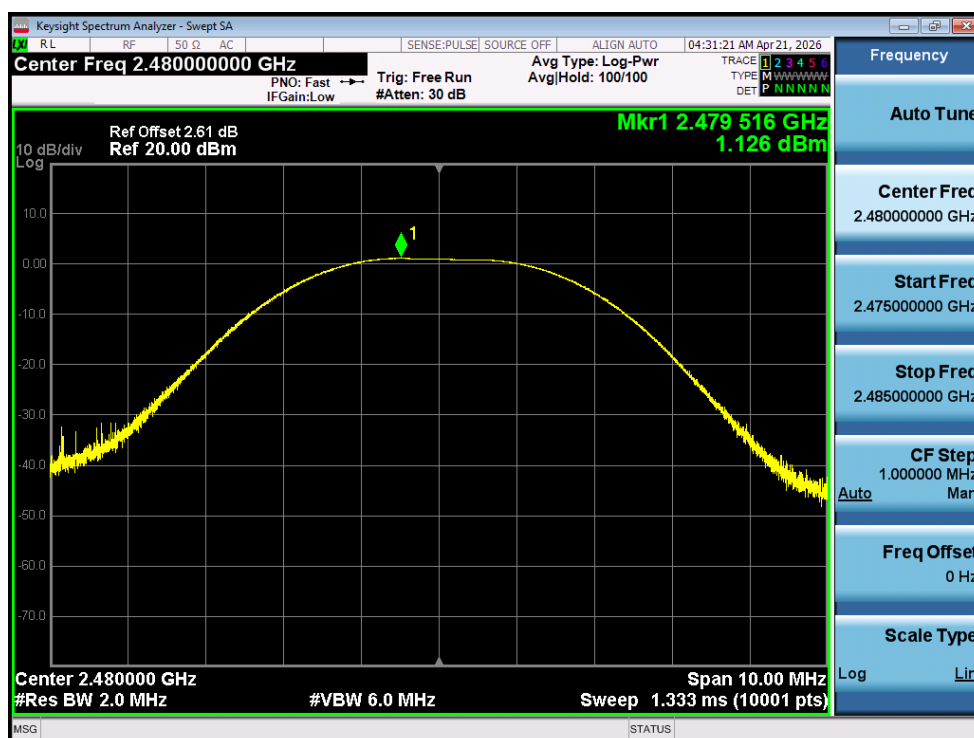




## Power NVNT BLE 2M 2440MHz



## Power NVNT BLE 2M 2480MHz





## -6dB Bandwidth

| Condition | Mode   | Frequency (MHz) | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|--------|-----------------|-----------------------|-----------------------------|---------|
| NVNT      | BLE 1M | 2402            | 0.6573                | 0.5                         | Pass    |
| NVNT      | BLE 1M | 2440            | 0.6534                | 0.5                         | Pass    |
| NVNT      | BLE 1M | 2480            | 0.6752                | 0.5                         | Pass    |
| NVNT      | BLE 2M | 2402            | 1.109                 | 0.5                         | Pass    |
| NVNT      | BLE 2M | 2440            | 1.134                 | 0.5                         | Pass    |
| NVNT      | BLE 2M | 2480            | 1.082                 | 0.5                         | Pass    |

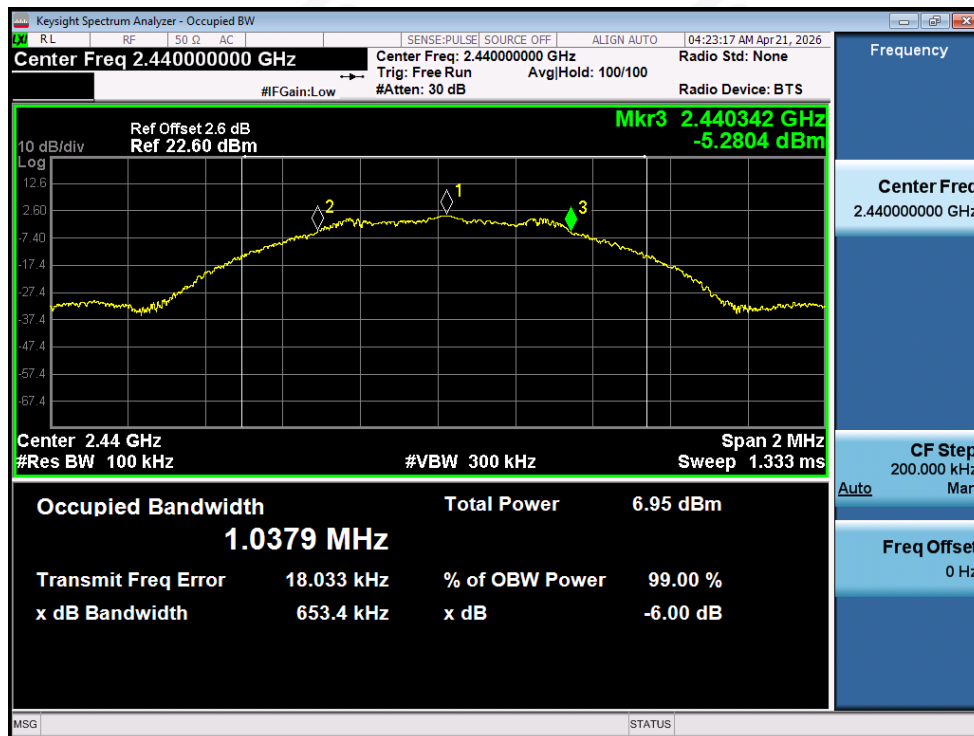


## Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz

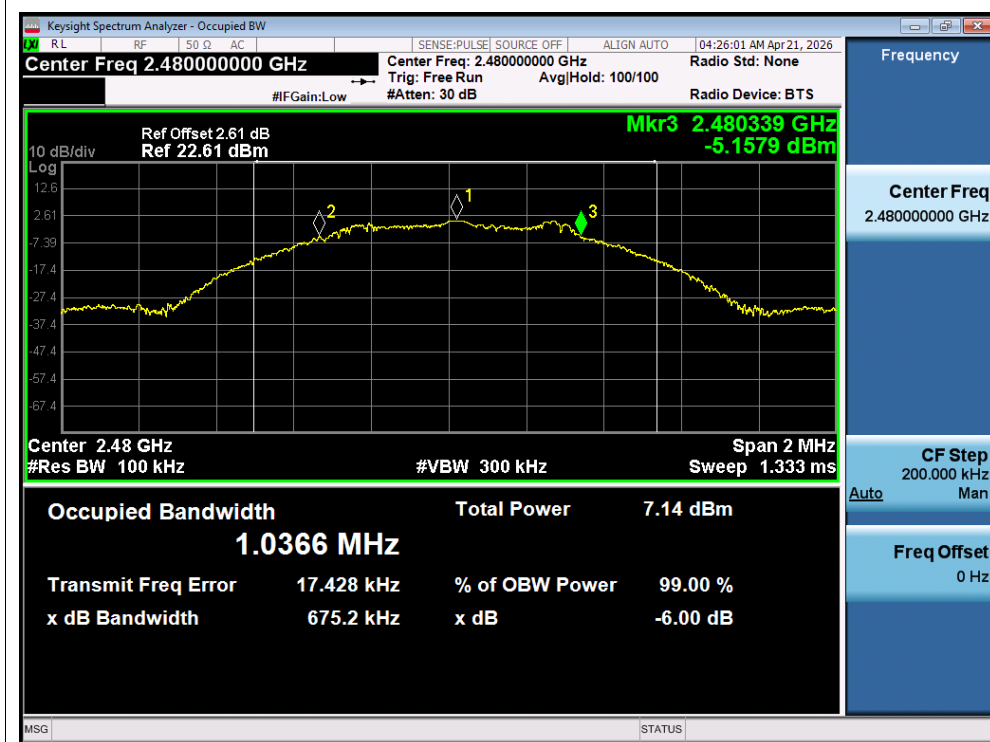


-6dB Bandwidth NVNT BLE 1M 2440MHz

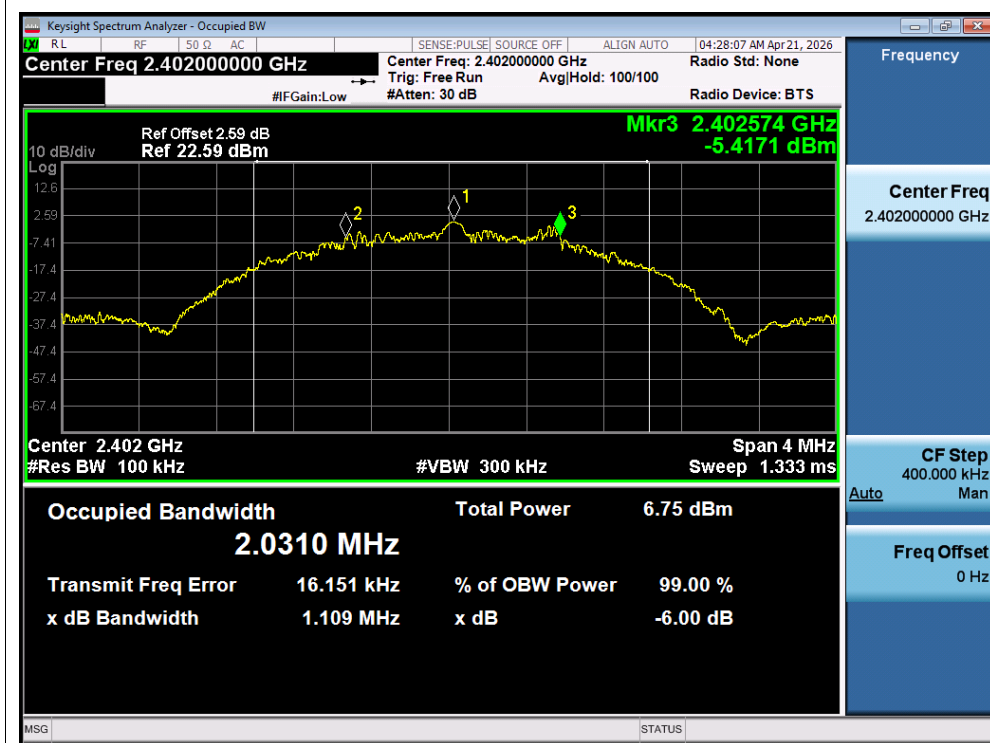




## -6dB Bandwidth NVNT BLE 1M 2480MHz

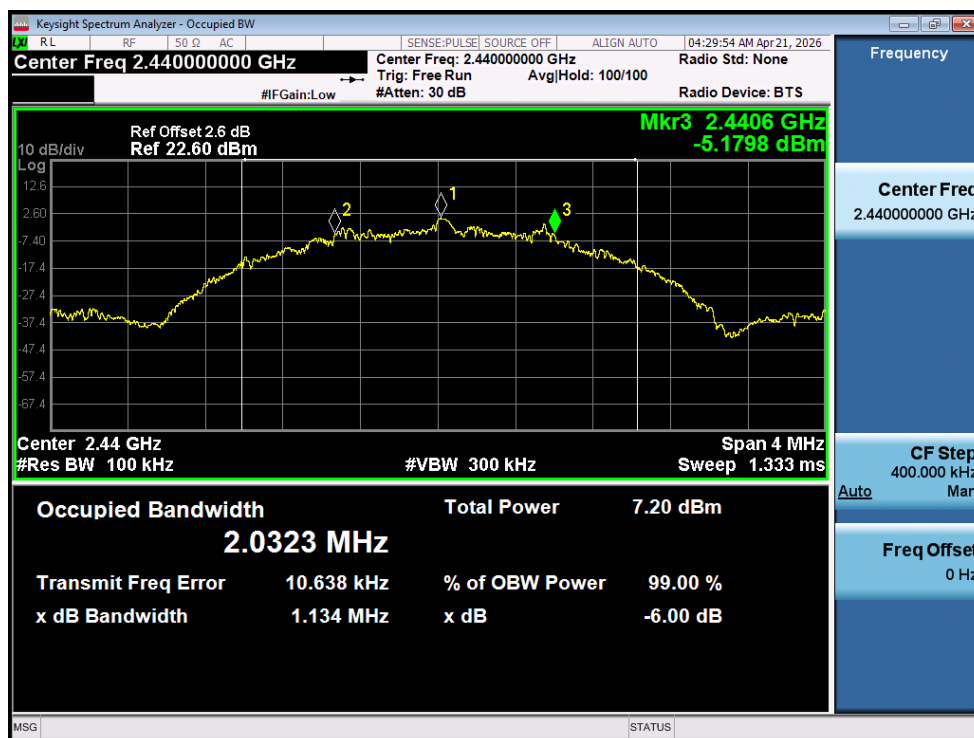


## -6dB Bandwidth NVNT BLE 2M 2402MHz

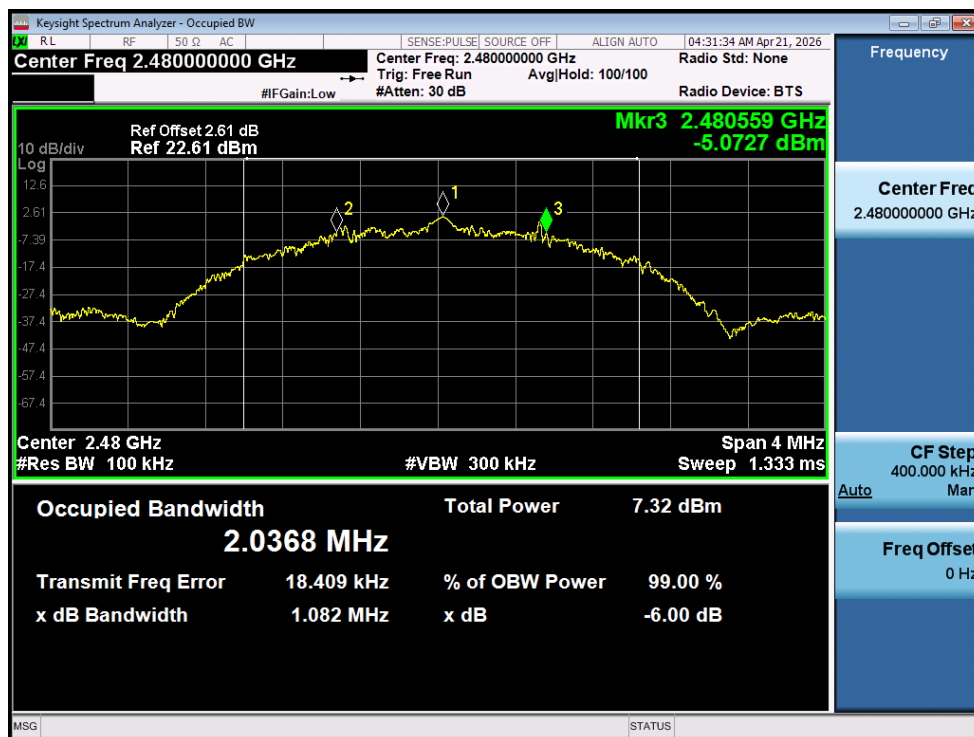




## -6dB Bandwidth NVNT BLE 2M 2440MHz



## -6dB Bandwidth NVNT BLE 2M 2480MHz





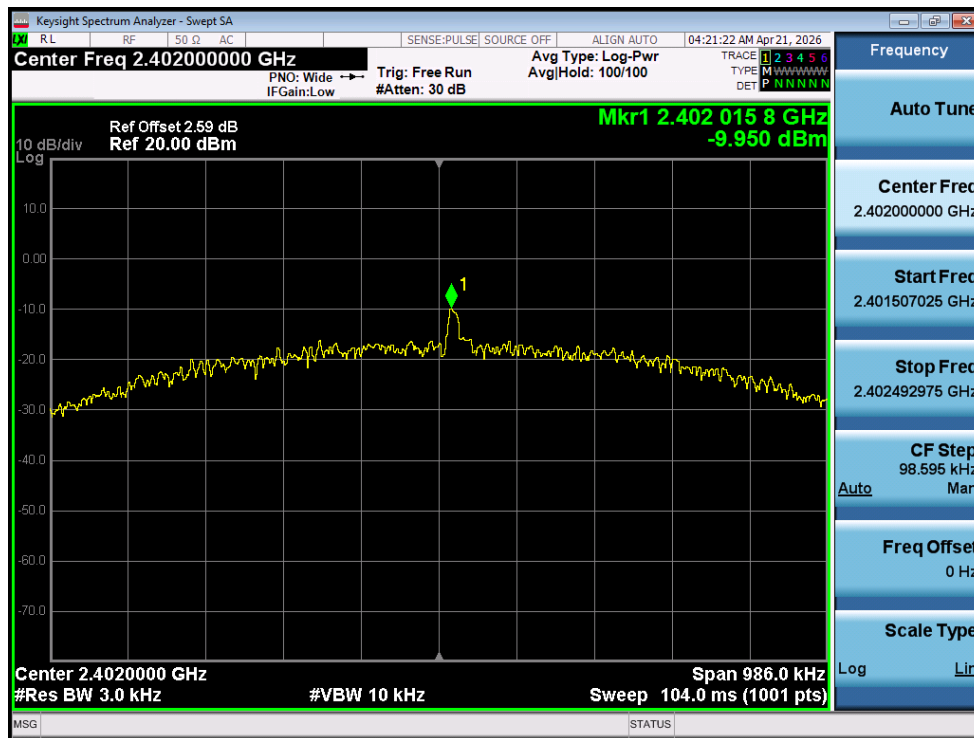
## Maximum Power Spectral Density Level

| Condition | Mode   | Frequency<br>(MHz) | Conducted PSD<br>(dBm/3kHz) | Limit<br>(dBm/3kHz) | Verdict |
|-----------|--------|--------------------|-----------------------------|---------------------|---------|
| NVNT      | BLE 1M | 2402               | -9.95                       | 8                   | Pass    |
| NVNT      | BLE 1M | 2440               | -9.55                       | 8                   | Pass    |
| NVNT      | BLE 1M | 2480               | -9.44                       | 8                   | Pass    |
| NVNT      | BLE 2M | 2402               | -10.55                      | 8                   | Pass    |
| NVNT      | BLE 2M | 2440               | -10.06                      | 8                   | Pass    |
| NVNT      | BLE 2M | 2480               | -9.93                       | 8                   | Pass    |

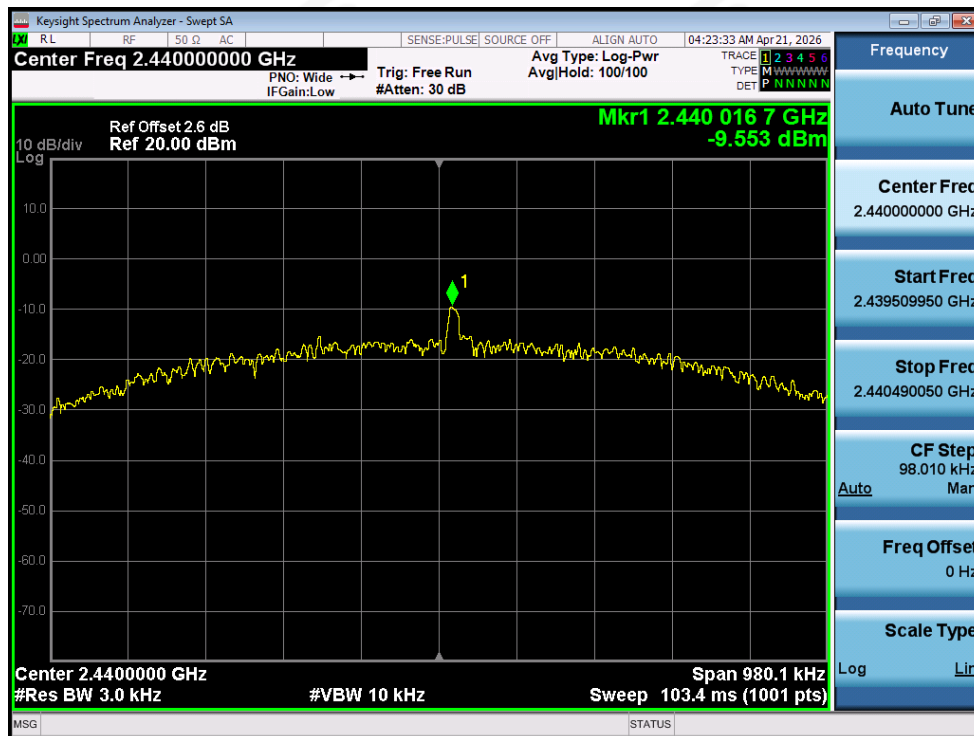


## Test Graphs

## PSD NVNT BLE 1M 2402MHz

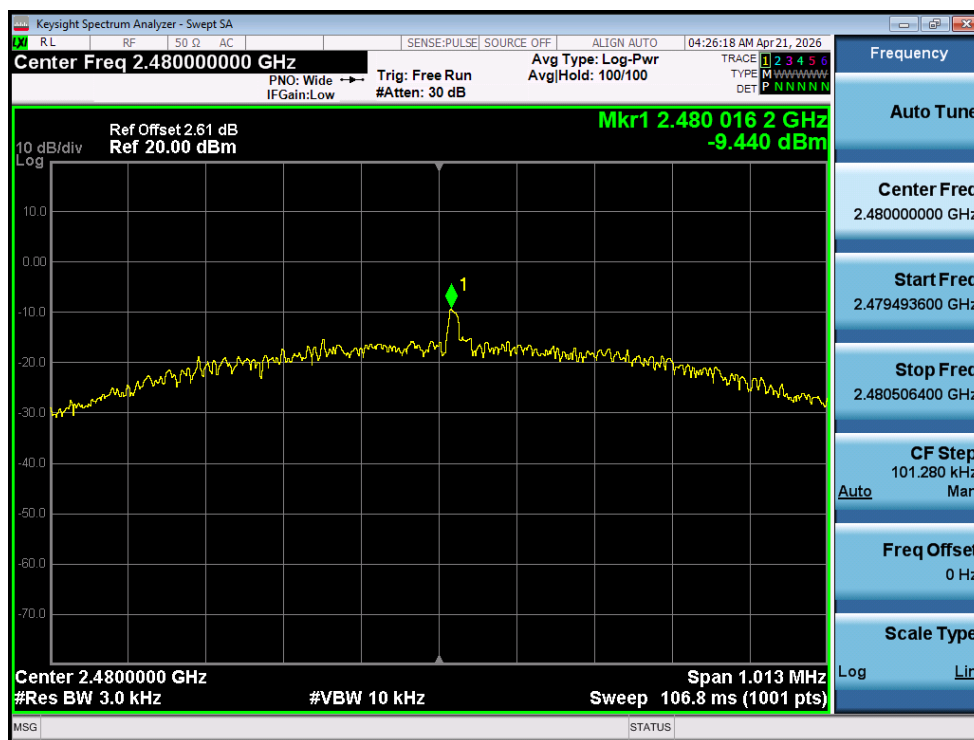


## PSD NVNT BLE 1M 2440MHz

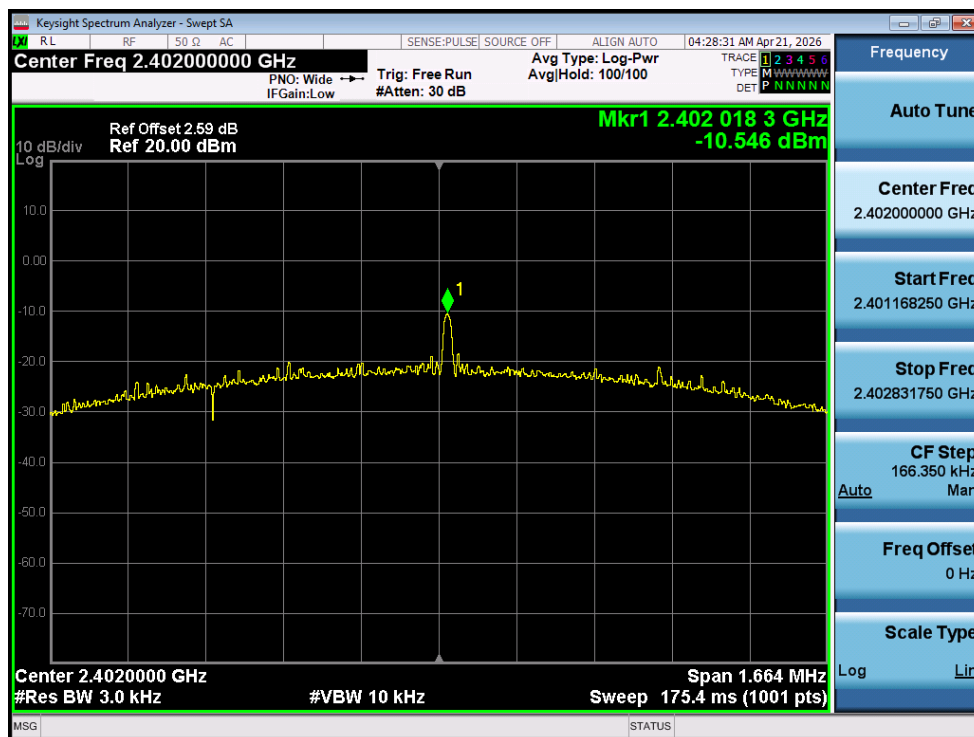




## PSD NVNT BLE 1M 2480MHz

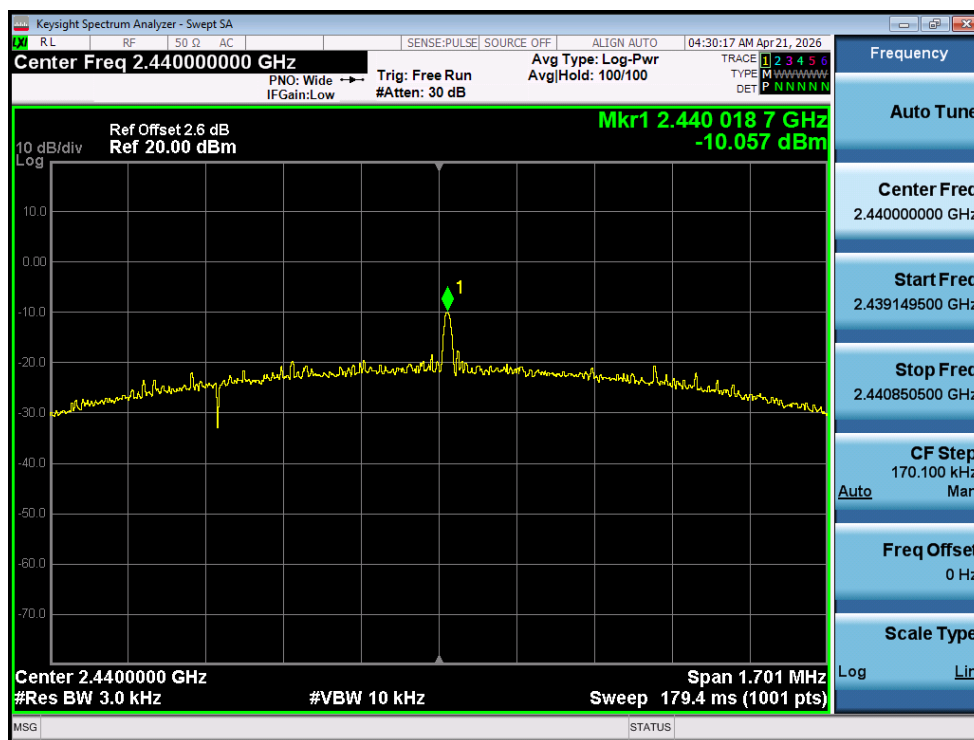


## PSD NVNT BLE 2M 2402MHz

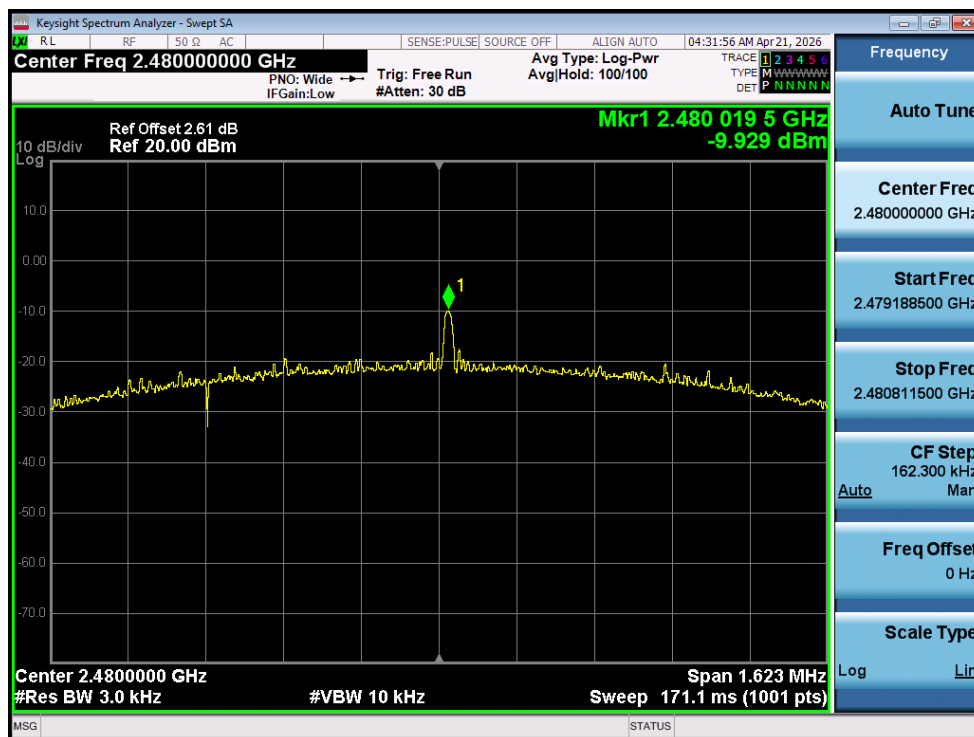




## PSD NVNT BLE 2M 2440MHz



## PSD NVNT BLE 2M 2480MHz





## Band Edge

| Condition | Mode   | Frequency (MHz) | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|-----------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | -41.05          | -20         | Pass    |
| NVNT      | BLE 1M | 2480            | -53.52          | -20         | Pass    |
| NVNT      | BLE 2M | 2402            | -36.1           | -20         | Pass    |
| NVNT      | BLE 2M | 2480            | -54.47          | -20         | Pass    |

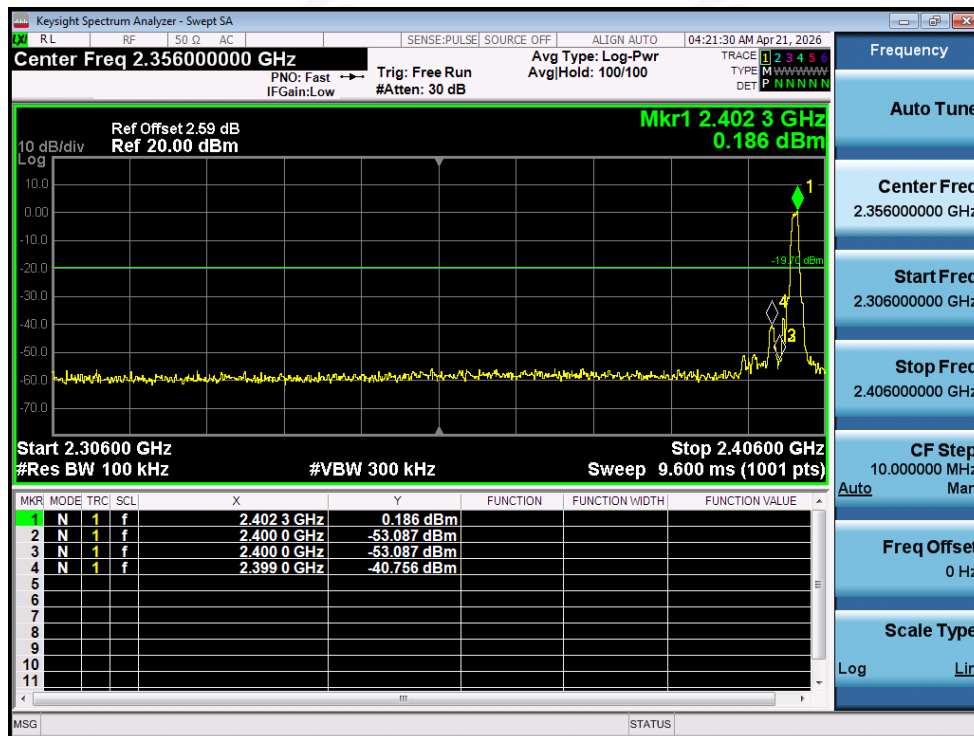


## Test Graphs

## Band Edge NVNT BLE 1M 2402MHz Ref



## Band Edge NVNT BLE 1M 2402MHz Emission

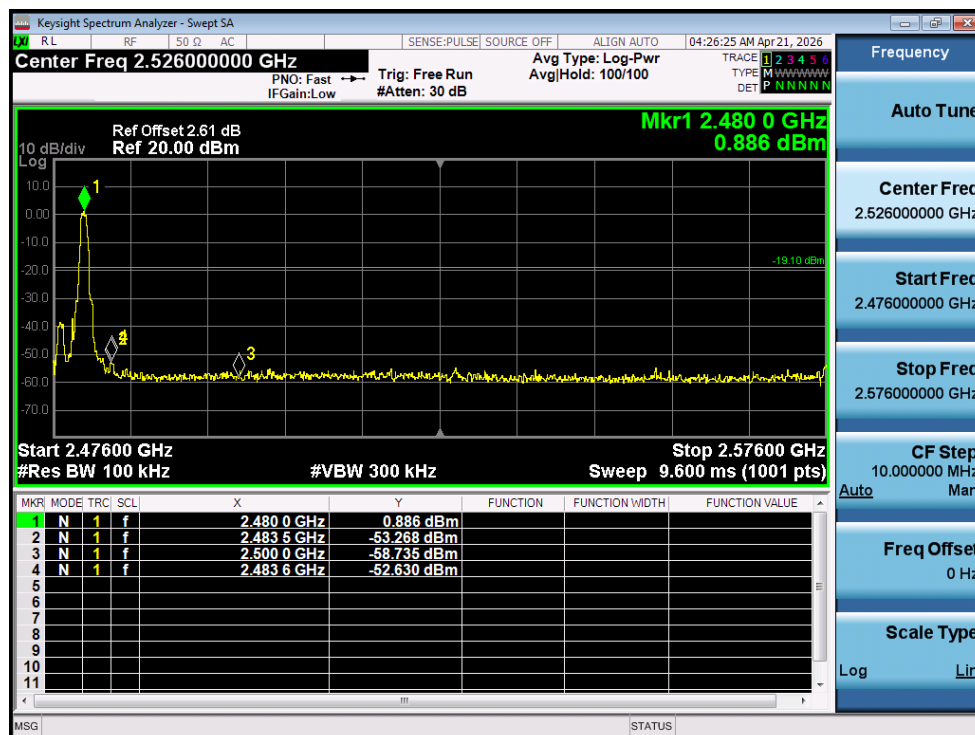




## Band Edge NVNT BLE 1M 2480MHz Ref



## Band Edge NVNT BLE 1M 2480MHz Emission

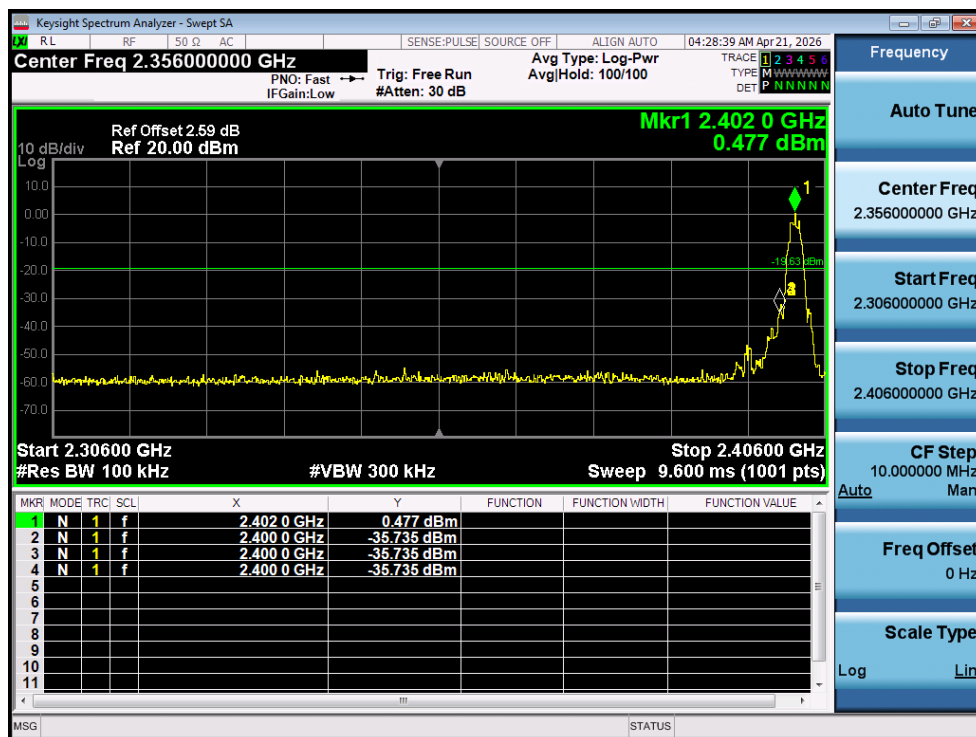




## Band Edge NVNT BLE 2M 2402MHz Ref



## Band Edge NVNT BLE 2M 2402MHz Emission

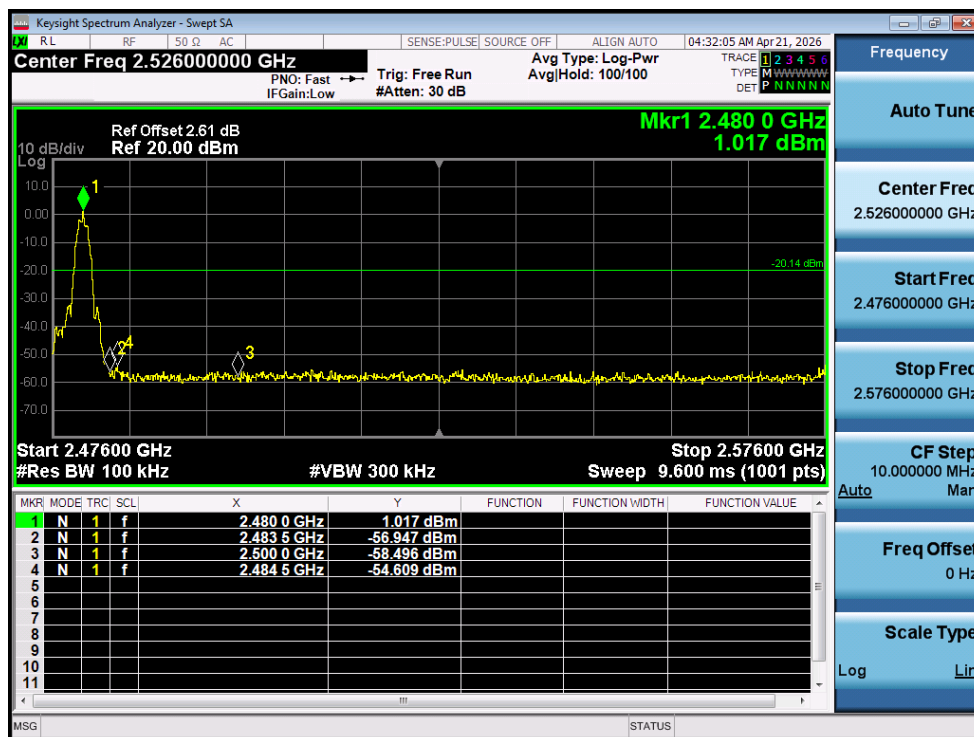




## Band Edge NVNT BLE 2M 2480MHz Ref



## Band Edge NVNT BLE 2M 2480MHz Emission





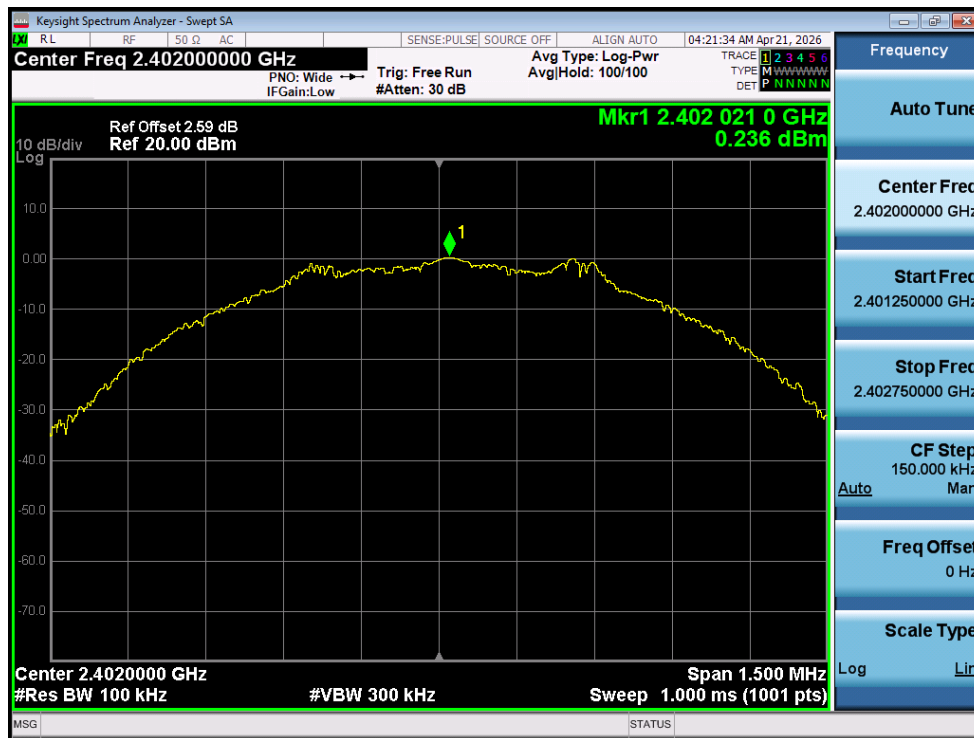
## Conducted RF Spurious Emission

| Condition | Mode   | Frequency (MHz) | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|-----------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | -41.93          | -20         | Pass    |
| NVNT      | BLE 1M | 2440            | -42.14          | -20         | Pass    |
| NVNT      | BLE 1M | 2480            | -42.55          | -20         | Pass    |
| NVNT      | BLE 2M | 2402            | -42.27          | -20         | Pass    |
| NVNT      | BLE 2M | 2440            | -42.3           | -20         | Pass    |
| NVNT      | BLE 2M | 2480            | -43.13          | -20         | Pass    |

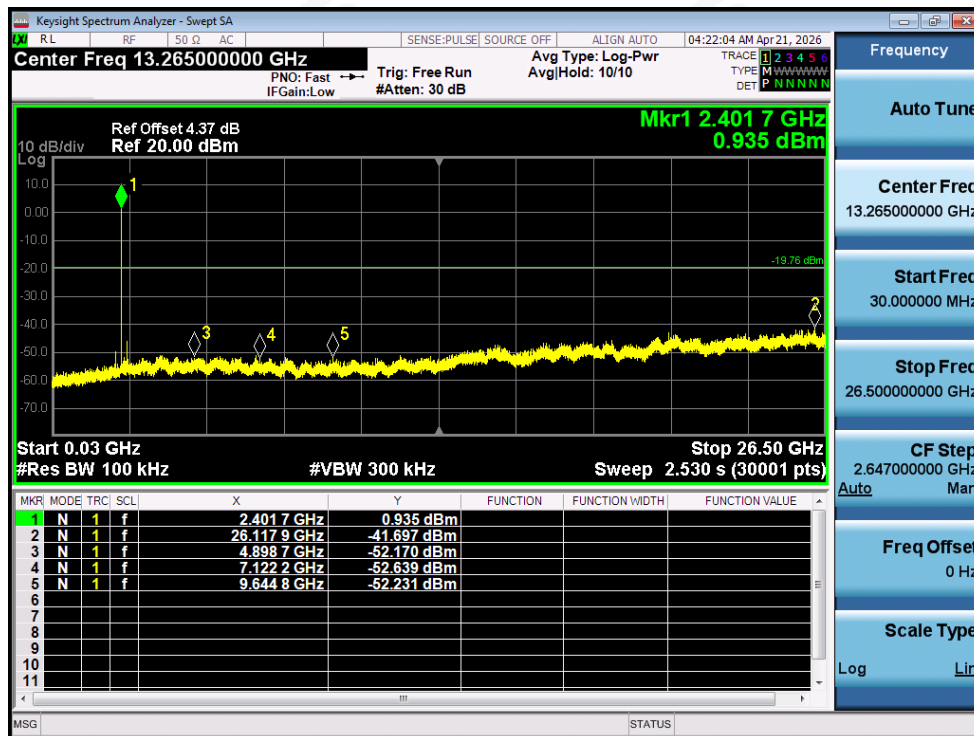


## Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ref



Tx. Spurious NVNT BLE 1M 2402MHz Emission

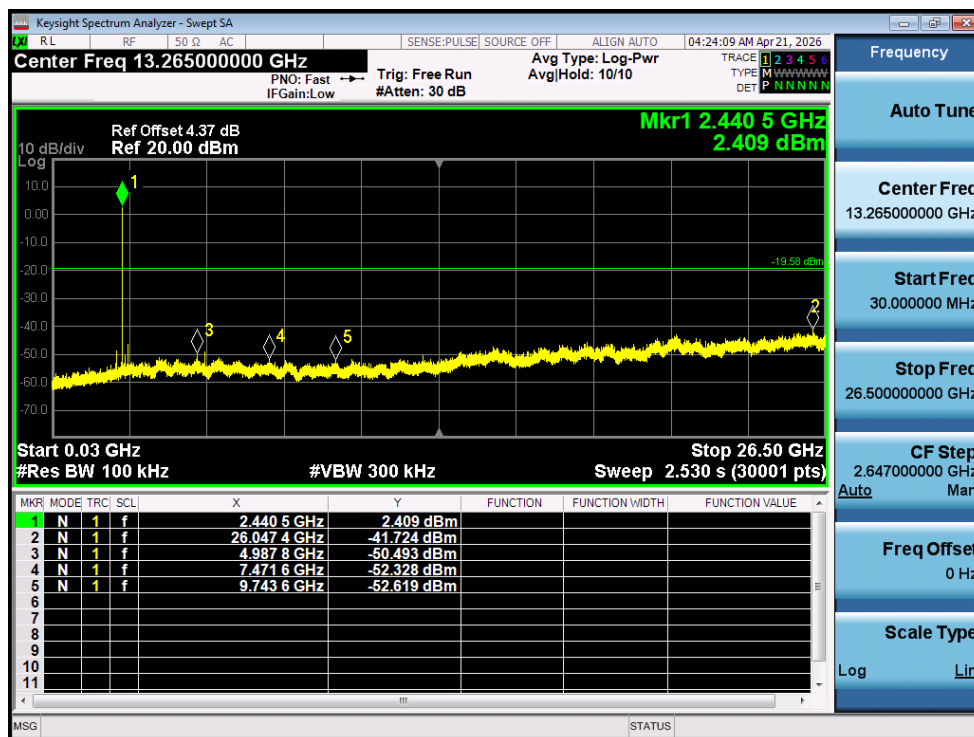




## Tx. Spurious NVNT BLE 1M 2440MHz Ref



## Tx. Spurious NVNT BLE 1M 2440MHz Emission

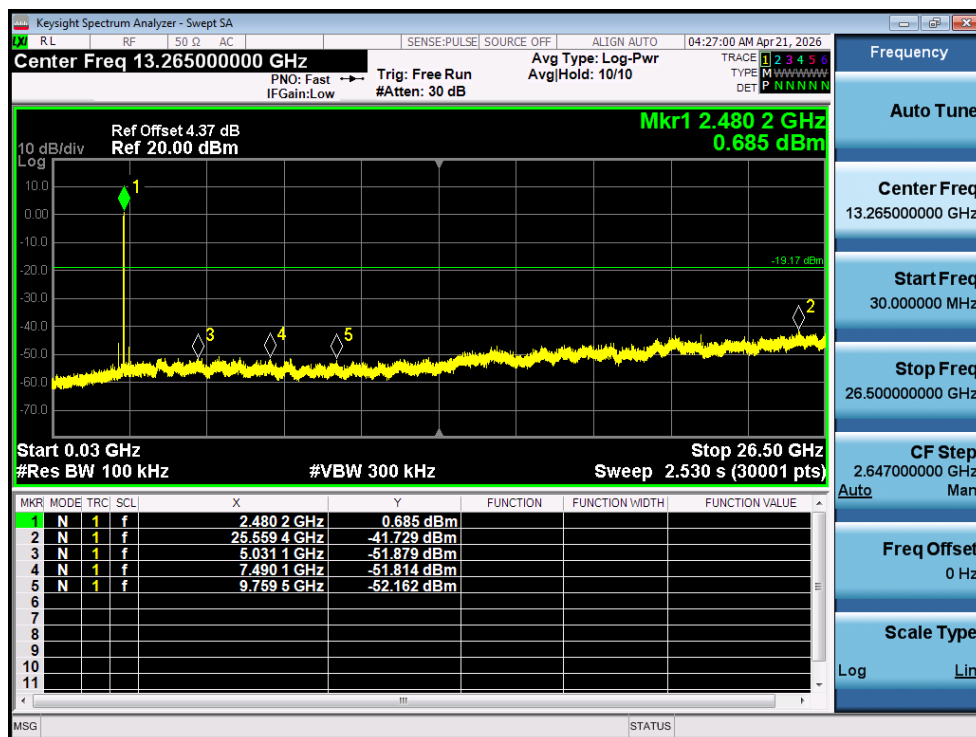




## Tx. Spurious NVNT BLE 1M 2480MHz Ref



## Tx. Spurious NVNT BLE 1M 2480MHz Emission

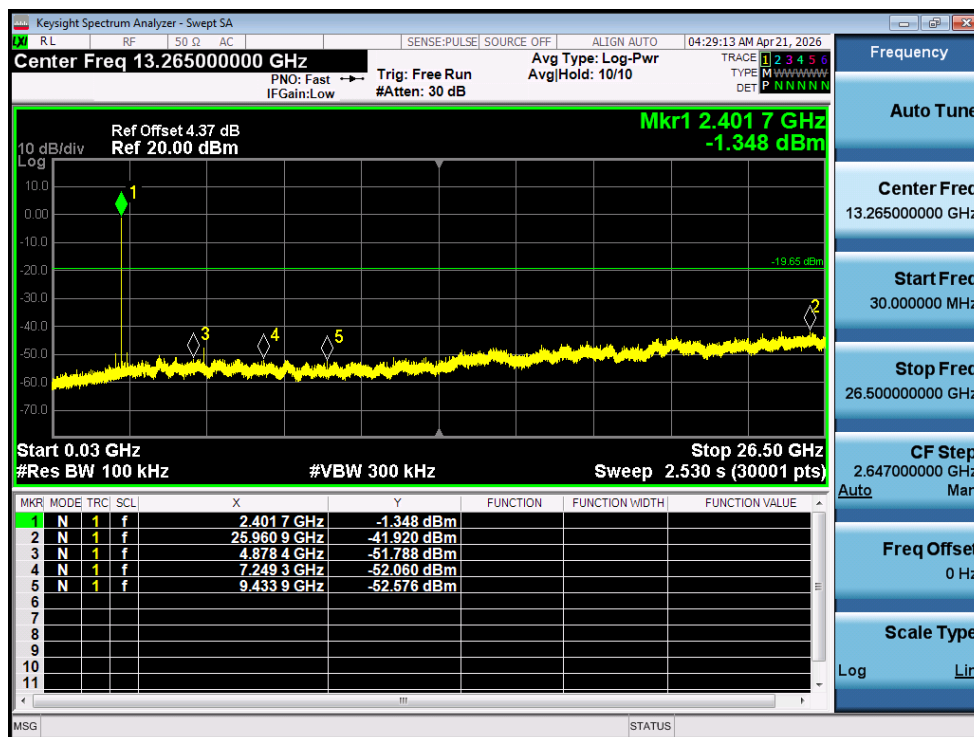




## Tx. Spurious NVNT BLE 2M 2402MHz Ref



## Tx. Spurious NVNT BLE 2M 2402MHz Emission

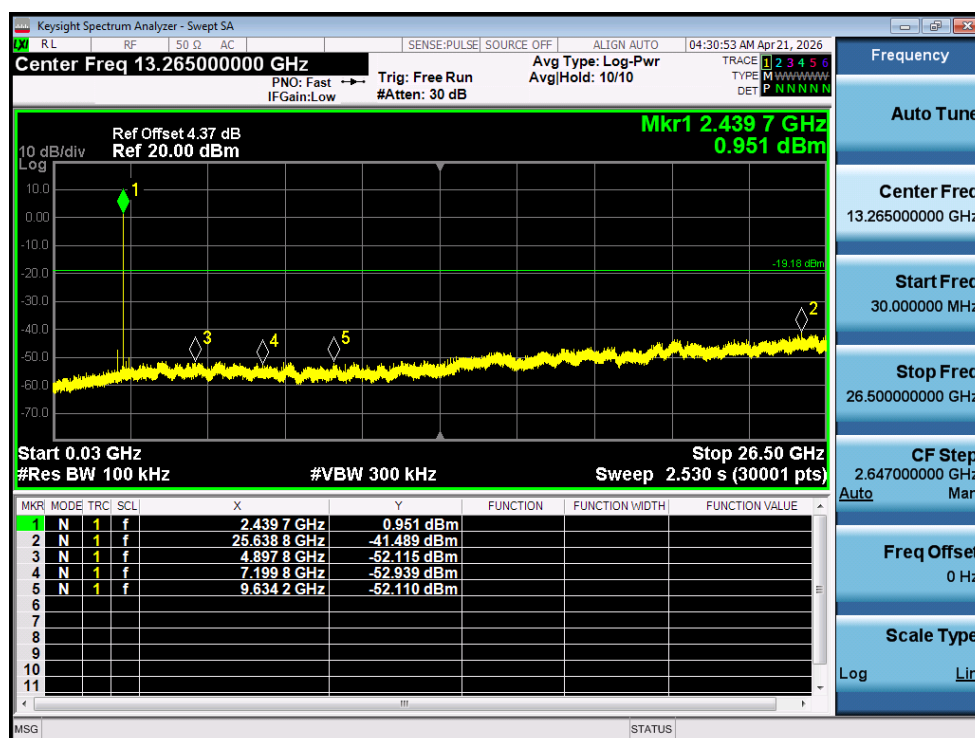




## Tx. Spurious NVNT BLE 2M 2440MHz Ref



## Tx. Spurious NVNT BLE 2M 2440MHz Emission

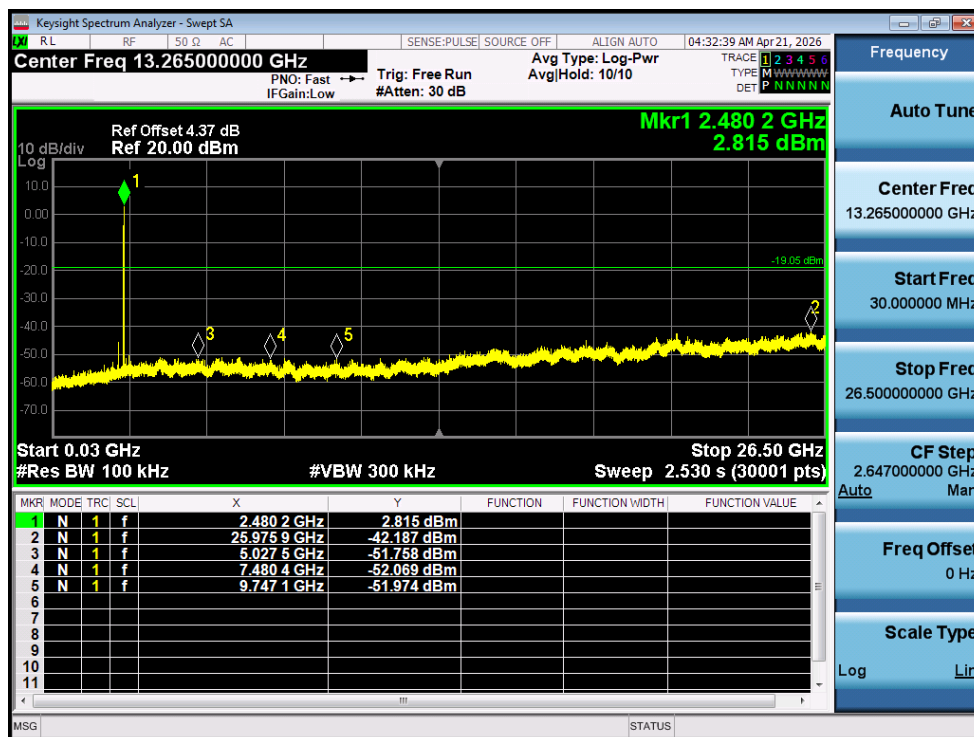




## Tx. Spurious NVNT BLE 2M 2480MHz Ref



## Tx. Spurious NVNT BLE 2M 2480MHz Emission





## APPENDIX 2- EUT TEST PHOTO

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

※※※※END OF THE REPORT※※※※※