

Project No.: TM-2305000172P  
Report No.: TMWK2305001499KR

FCC ID: 2AKZA-IW416  
IC: 22364-IW416

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Rev.: 01

# RADIO TEST REPORT

## FCC 47 CFR PART 15 SUBPART C

### INDUSTRY CANADA RSS-247

|                                 |  |
|---------------------------------|--|
| <b>Test Standard</b>            | <b>FCC Part 15.247<br/>IC RSS-247 issue 2 and IC RSS-GEN issue 5</b>   |
| <b>Product name</b>             | <b>WiFi+Bluetooth 5.2 System on Module</b>   |
| <b>Brand Name</b>               | <b>TechNexion</b>  |
| <b>Model No.</b>                | <b>PIXI-IW416</b>  |
| <b>Test Result</b>              | <b>Pass</b>  |
| <b>Statements of Conformity</b> | <b>Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.</b> |

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report.

The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory)

Approved by:



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Shawn Wu  
Supervisor

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.  
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### Revision History

| Rev. | Issue Date         | Revisions                       | Effect Page | Revised By   |
|------|--------------------|---------------------------------|-------------|--------------|
| 00   | August 7, 2023     | Initial Issue                   | ALL         | Allison Chen |
| 01   | September 13, 2023 | See the following Note Rev.(01) | P.53        | Allison Chen |

**Note:**

**Rev.(01)**

1. Modify test data in section 4.7.4.

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## 1. GENERAL INFORMATION

### 1.1 EUT INFORMATION

|                          |   |
|--------------------------|---|
| <b>Applicant</b>         | TechNexion Ltd.<br>16F-5, No. 736, Zhongzheng Road, ZhongHe District, 23511,<br>New Taipei City, Taiwan |
| <b>Manufacturer</b>      | TechNexion Ltd.<br>16F-5, No. 736, Zhongzheng Road, ZhongHe District, 23511,<br>New Taipei City, Taiwan |
| <b>Equipment</b>         | WiFi+Bluetooth 5.2 System on Module   |
| <b>Model Name</b>        | PIXI-IW416  |
| <b>Model Discrepancy</b> | N/A   |
| <b>Brand Name</b>        | TechNexion  |
| <b>Received Date</b>     | May 16, 2023  |
| <b>Date of Test</b>      | May 19 ~ June 27, 2023  |
| <b>Power Supply</b>      | Power from host system. (DC 3.3V)   |
| <b>HW Version</b>        | A1  |
| <b>SW Version</b>        | 1.0   |

**Remark:**

1. For more details, please refer to the User's manual of the EUT.
2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

## 1.2 INFORMATION ABOUT THE FHSS CHARACTERISTICS

### 1.2.1 Pseudorandom Frequency Hopping Sequence

The channel is represented by a pseudo-random hopping sequence hopping through the 79 RF channels. The hopping sequence is unique for the piconet and is determined by the Bluetooth device address of the master; the phase in the hopping sequence is determined by the Bluetooth clock of the master. The channel is divided into time slots where each slot corresponds to an RF hop frequency. Consecutive hops correspond to different RF hop frequencies. The nominal hop rate is 1 600 hops/s.

### 1.2.2 Equal Hopping Frequency Use

The channels of this system will be used equally over the long-term distribution of the hopsets.

### 1.2.3 Example of a 79 hopping sequence in data mode:

02, 05, 31, 24, 20, 10, 43, 36, 30, 23, 40, 06, 21, 50, 44, 09, 71, 78, 01, 13, 73, 07, 70, 72, 35, 62, 42, 11, 41, 08, 16, 29, 60, 15, 34, 61, 58, 04, 67, 12, 22, 53, 57, 18, 27, 76, 39, 32, 17, 77, 52, 33, 56, 46, 37, 47, 64, 49, 45, 38, 69, 14, 51, 26, 79, 19, 28, 65, 75, 54, 48, 03, 25, 66, 05, 16, 68, 74, 59, 63, 55

### 1.2.4 System Receiver Input Bandwidth

Each channel bandwidth is 1MHz.

The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

### 1.2.5 Equipment Description

15.247(a)(1) that the Rx input bandwidths shift frequencies in synchronization with the transmitted signals.

15.247(g): In accordance with the Bluetooth Industry Standard, the system is designed to comply with all of the regulations in Section 15.247 when the transmitter is presented with a continuous data (or information) system.

15.247(h): In accordance with the Bluetooth Industry Standard, the system does not coordinate its channels selection/ hopping sequence with other frequency hopping systems for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters.

### 1.3 EUT CHANNEL INFORMATION

|                   |  |
|-------------------|--|
| Frequency Range   | 2402MHz-2480MHz  |
| Modulation Type   | 1. GFSK for BDR-1Mbps<br>2. $\pi/4$ -DQPSK for EDR-2Mbps<br>3. 8DPSK for EDR-3Mbps |
| Number of channel | 79 Channels  |

**Remark:**

Refer as ANSI C63.10: 2013 clause 5.6.1 Table 4 for test channels

| Number of frequencies to be tested                   |                       |  |
|--|-----------------------|--|
| Frequency range in which device operates             | Number of frequencies | Location in frequency range of operation     |
| <input type="checkbox"/> 1 MHz or less               | 1                     | Middle                                       |
| <input type="checkbox"/> 1 MHz to 10 MHz             | 2                     | 1 near top and 1 near bottom                 |
| <input checked="" type="checkbox"/> More than 10 MHz | 3                     | 1 near top, 1 near middle, and 1 near bottom |

### 1.4 ANTENNA INFORMATION

|                       |   |
|-----------------------|---|
| Antenna Specification | <input type="checkbox"/> PCB <input checked="" type="checkbox"/> PIFA <input checked="" type="checkbox"/> Dipole <input type="checkbox"/> Coils |
| Antenna Gain          | 1. PIFA Antenna Gain: 2.5 dBi<br>2. Dipole Antenna Gain: 4 dBi  |
| Brand / Model         | 1. PIFA Antenna:<br>TechNexion / VM2450-25523-OOX-180<br>2. Dipole Antenna:<br>TechNexion / VM2450-ASSY1005                                     |
| Antenna connector     | MHF   |

**Notes:**

1. The antenna(s) of the EUT are permanently attached and there are no provisions for connection to an external antenna. So the EUT complies with the requirements of §15.203 and RSS-Gen §6.8.

## 1.5 MEASUREMENT UNCERTAINTY

| PARAMETER                                    | UNCERTAINTY |
|--|-------------|
| AC Powerline Conducted Emission              | ± 2.213 dB  |
| Channel Bandwidth                            | ± 2.7 %     |
| RF output power (Power Meter + Power sensor) | ± 0.243 dB  |
| Power Spectral density                       | ± 2.739 dB  |
| Conducted Bandedge                           | ± 2.739 dB  |
| Conducted Spurious Emission                  | ± 2.742 dB  |
| Radiated Emission_9kHz-30MHz                 | ± 3.115 dB  |
| Radiated Emission_30MHz-200MHz               | ± 4.071 dB  |
| Radiated Emission_200MHz-1GHz                | ± 4.419 dB  |
| Radiated Emission_1GHz-6GHz                  | ± 5.023 dB  |
| Radiated Emission_6GHz-18GHz                 | ± 5.068 dB  |
| Radiated Emission_18GHz-26GHz                | ± 3.349 dB  |
| Radiated Emission_26GHz-40GHz                | ± 3.229 dB  |

**Remark:**

- 1.This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2
2. ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.

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## 1.6 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at

AC Powerline Conducted Emission and Conducted:

No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan.

Radiated emission 9kHz to 40GHz:

No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan.

No. 12, Ln. 116, Wugong 3rd Rd., Wugu Dist., New Taipei City, Taiwan 24803

CAB identifier: TW1309

| Test site          | Test Engineer | Remark |
|--------------------|---------------|--------|
| AC Conduction Room | Tony Chao     | -      |
| Radiation          | Czerny Lin    | -      |
| RF Conducted       | David Li      | -      |

**Remark:** The lab has been recognized as the FCC accredited lab. under the KDB 974614 D01 and is listed in the FCC pubic Access Link (PAL) database, FCC Registration No. :444940, the FCC Designation No.:TW1309.

## 1.7 INSTRUMENT CALIBRATION

| RF Conducted Test Site |   |         |               |            |            |
|------------------------|---|---------|---------------|------------|------------|
| Name of Equipment      | Manufacturer  | Model   | Serial Number | Cal Date   | Cal Due    |
| Power Sensor           | Anritsu   | MA2411B | 1911386       | 2022-08-08 | 2023-08-07 |
| Power Sensor           | Anritsu   | MA2411B | 1911387       | 2022-08-08 | 2023-08-07 |
| EXA Signal Analyzer    | Keysight  | N9010B  | MY60242460    | 2023-02-20 | 2024-02-01 |
| Power Meter            | Anritsu   | ML2496A | 2136002       | 2022-11-24 | 2023-11-23 |
| <b>Software</b>        | Radio Test Software Ver. 21 & E3-Ver: 6.11-20180413 |         |               |            |            |

**Remark:**

1. Each piece of equipment is scheduled for calibration once a year.
2. N.C.R. = No Calibration Required.



| 3M 966 Chamber Test Site (966D_Radiated) |               |                        |                          |            |            |
|--|---------------|------------------------|--------------------------|------------|------------|
| Name of Equipment                        | Manufacturer  | Model                  | Serial Number            | Cal Date   | Cal Due    |
| Antenna                                  | SHWARZBECK    | VULB 9168              | 1277                     | 2023-01-13 | 2024-01-12 |
| Pre-Amplifier                            | EMCI          | EMC118A45SE            | 980820                   | 2022-12-23 | 2023-12-22 |
| Pre-Amplifier                            | EMCI          | EMC330N                | 980853                   | 2022-12-23 | 2023-12-22 |
| Coaxial Cable                            | EMC           | EMC101G-KM-K<br>M-9000 | 220407+211228+<br>230205 | 2023-03-21 | 2024-03-20 |
| Signal Generator                         | Agilent       | N9010A                 | MY52220817               | 2023-03-09 | 2024-03-08 |
| Coaxial Cable                            | EMC           | EMCCFD400              | 211212+211222+<br>211020 | 2023-03-21 | 2024-03-20 |
| High Pass Filter                         | TITAN         | T04H300018000<br>70S01 | 211215-7-1               | 2023-02-02 | 2024-02-01 |
| Thermo-Hygro<br>Meter                    | EDSDS         | EDS-A49                | 966D1                    | 2023-05-11 | 2024-05-10 |
| Pre-Amplifier                            | EMCI          | EMC184045SE            | 980872                   | 2023-01-03 | 2024-01-02 |
| Horn Antenna                             | RF SPIN       | DRH18-E                | 210301A18ES              | 2023-02-03 | 2024-02-02 |
| Horn Antenna                             | SHWARZBECK    | BBHA 9170              | 1134                     | 2022-12-30 | 2023-12-29 |
| Loop Antenna                             | SCHWARZBECK   | FMZB 1513-60           | 1513-60-028              | 2022-12-27 | 2023-12-26 |
| <b>Software</b>                          | e3 V9-210616c |                        |                          |            |            |

| AC Conducted Emissions Test Site |                         |           |               |            |            |
|----------------------------------|-------------------------|-----------|---------------|------------|------------|
| Name of Equipment                | Manufacturer            | Model     | Serial Number | Cal Date   | Cal Due    |
| EMI Test Receiver                | R&S                     | ESCI      | 100064        | 2023-06-07 | 2024-06-06 |
| Cable                            | EMCI                    | CFD300-NL | CERF          | 2023-06-26 | 2024-06-25 |
| LISN                             | TESEQ                   | LN2-16N   | 22012         | 2023-03-08 | 2024-03-07 |
| <b>Software</b>                  | EZ-EMC(CCS-3A1-CE-wugu) |           |               |            |            |

**Remark:**

1. Each piece of equipment is scheduled for calibration once a year.
2. N.C.R. = No Calibration Required.

## 1.8 SUPPORT AND EUT ACCESSORIES EQUIPMENT

| EUT Accessories Equipment |           |       |       |            |        |    |
|---------------------------|-----------|-------|-------|------------|--------|----|
| No.                       | Equipment | Brand | Model | Series No. | FCC ID | IC |
|                           | N/A       |       |       |            |        |    |
|                           |           |       |       |            |        |    |

| Support Equipment |           |        |       |            |        |     |
|-------------------|-----------|--------|-------|------------|--------|-----|
| No.               | Equipment | Brand  | Model | Series No. | FCC ID | IC  |
| 1                 | NB(E)     | Lenovo | T460  | N/A        | N/A    | N/A |
|                   | N/A       |        |       |            |        |     |

## 1.9 TEST METHODOLOGY AND APPLIED STANDARDS

The test methodology, setups and results comply with all requirements in accordance with ANSI C63.10:2013, FCC Part 2, FCC Part 15.247, KDB 558074, RSS-247 Issue 2 and RSS-GEN Issue 5.

## 2. TEST SUMMARY

| FCC Standard Section | IC Standard Section  | Report Section | Test Item                   | Result |
|----------------------|----------------------|----------------|-----------------------------|--------|
| 15.203               | -                    | 1.3            | Antenna Requirement         | Pass   |
| 15.207(a)            | RSS-GEN 8.8          | 4.1            | AC Conducted Emission       | Pass   |
| 15.247(a)(1)         | RSS-247(5.1)(a)      | 4.2            | 20 dB Bandwidth             | Pass   |
| -                    | RSS-GEN 6.7          | 4.2            | Occupied Bandwidth (99%)    | Pass   |
| 15.247(b)(1)         | RSS-247(5.4)(b)      | 4.3            | Output Power Measurement    | Pass   |
| 15.247(a)(1)         | RSS-247(5.1)(b)      | 4.4            | Frequency Separation        | Pass   |
| 15.247(a)(1)(iii)    | RSS-247(5.1)(d)      | 4.5            | Number of Hopping           | Pass   |
| 15.247(d)            | RSS-247(5.5)         | 4.6            | Conducted Band Edge         | Pass   |
| 15.247(d)            | RSS-247(5.5)         | 4.6            | Conducted Spurious Emission | Pass   |
| 15.247(a)(1)(iii)    | RSS-247(5.1)(d)      | 4.7            | Time of Occupancy           | Pass   |
| 15.247(d)            | RSS-GEN 8.9,<br>8.10 | 4.8            | Radiation Band Edge         | Pass   |
| 15.247(d)            | RSS-GEN 8.9,<br>8.10 | 4.8            | Radiation Spurious Emission | Pass   |

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### 3. DESCRIPTION OF TEST MODES

#### 3.1 THE WORST MODE OF OPERATING CONDITION

|                          |   |
|--------------------------|---|
| Operation mode           | GFSK for BDR-1Mbps (DH5)<br>$\pi/4$ -DQPSK for 2Mbps (2DH5)<br>8DPSK for EDR-3Mbps (3DH5)   |
| Test Channel Frequencies | <p><b>GFSK for BDR-1Mbps:</b><br/>1.Lowest Channel: 2402MHz<br/>2.Middle Channel: 2441MHz<br/>3.Highest Channel: 2480MHz</p> <p><b><math>\pi/4</math>-DQPSK for 2Mbps:</b><br/>1.Lowest Channel: 2402MHz<br/>2.Middle Channel: 2441MHz<br/>3.Highest Channel: 2480MHz</p> <p><b>8DPSK for EDR-3Mbps:</b><br/>1.Lowest Channel: 2402MHz<br/>2.Middle Channel: 2441MHz<br/>3.Highest Channel: 2480MHz</p> |

Remark:

1. EUT pre-scanned data rate of output power for each mode, the worst data rate were recorded in this report.
2. The system support GFSK ,  $\pi/4$  DQPSK , 8DPSK , the  $\pi/4$  DQPSK were reduced since the identical parameters with 8dpsk. In the following test items, frequency hopping, Conducted band edge, radiated band edge and spurious emissions.

### 3.2 THE WORST MODE OF MEASUREMENT

| AC Power Line Conducted Emission |   |
|----------------------------------|---|
| Test Condition                   | AC Power line conducted emission for line and neutral   |
| Power supply Mode                | Mode 1: EUT power by NB. (Dipole Antenna)<br>Mode 2: EUT power by NB. (PIFA Antenna)  |
| Worst Mode                       | <input checked="" type="checkbox"/> Mode 1 <input checked="" type="checkbox"/> Mode 2 <input type="checkbox"/> Mode 3 <input type="checkbox"/> Mode 4 |

| Radiated Emission Measurement Above 1G |   |
|--|---|
| Test Condition                         | Radiated Emission Above 1G  |
| Power supply Mode                      | Mode 1: EUT power by System. (Dipole Antenna)<br>Mode 2: EUT power by System. (PIFA Antenna)  |
| Worst Mode                             | <input checked="" type="checkbox"/> Mode 1 <input checked="" type="checkbox"/> Mode 2 <input type="checkbox"/> Mode 3 <input type="checkbox"/> Mode 4   |
| Worst Position                         | <input type="checkbox"/> Placed in fixed position.<br><input type="checkbox"/> Placed in fixed position at X-Plane (E2-Plane)<br><input type="checkbox"/> Placed in fixed position at Y-Plane (E1-Plane)<br><input checked="" type="checkbox"/> Placed in fixed position at Z-Plane (H-Plane) |

| Radiated Emission Measurement Below 1G |   |
|--|---|
| Test Condition                         | Radiated Emission Below 1G  |
| Power supply Mode                      | Mode 1: EUT power by System. (Dipole Antenna)<br>Mode 2: EUT power by System. (PIFA Antenna)  |
| Worst Mode                             | <input checked="" type="checkbox"/> Mode 1 <input checked="" type="checkbox"/> Mode 2 <input type="checkbox"/> Mode 3 <input type="checkbox"/> Mode 4 |

Remark:

1. The worst mode was record in this test report.
2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(Z-Plane) were recorded in this report
3. AC power line conducted emission and for below 1G radiation emission were performed the EUT transmit at the highest output power channel as worse case.

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### 3.3 EUT DUTY CYCLE

**Temperature:** 25.2°C

**Test date:** May 19, 2023

**Humidity:** 58% RH

**Tested by:** David Li

| Duty Cycle    |                                      |  |           |                      |
|---------------|--------------------------------------|--|-----------|----------------------|
| Configuration | Duty Cycle (%)<br>= Ton / (Ton+Toff) | Duty Factor (dB)<br>=10*log ( 1/Duty Cycle ) | 1/T (kHz) | VBW setting<br>(kHz) |
| DH1           | 30.80                                | 5.11   | 2.60      | 3.00                 |
| DH3           | 66.00                                | 1.80   | 0.61      | 1.00                 |
| DH5           | 77.20                                | 1.12   | 0.35      | 1.00                 |
| 2DH1          | 31.20                                | 5.06   | 2.56      | 3.00                 |
| 2DH3          | 65.20                                | 1.86   | 0.61      | 1.00                 |
| 2DH5          | 76.80                                | 1.15   | 0.35      | 1.00                 |
| 3DH1          | 30.80                                | 5.11   | 2.60      | 3.00                 |
| 3DH3          | 65.60                                | 1.83   | 0.61      | 1.00                 |
| 3DH5          | 76.80                                | 1.15   | 0.35      | 1.00                 |

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## For GFSK (1Mbps)



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## For $\pi/4$ -DQPSK (2Mbps)





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## For 8-DPSK (3Mbps)



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## 4. TEST RESULT

### 4.1 AC POWER LINE CONDUCTED EMISSION

#### 4.1.1 Test Limit

According to §15.207(a)(2), RSS-GEN section 8.8,

| Frequency Range (MHz) | Limits(dBμV) |           |
|-----------------------|--------------|-----------|
|                       | Quasi-peak   | Average   |
| 0.15 to 0.50          | 66 to 56*    | 56 to 46* |
| 0.50 to 5             | 56           | 46        |
| 5 to 30               | 60           | 50        |

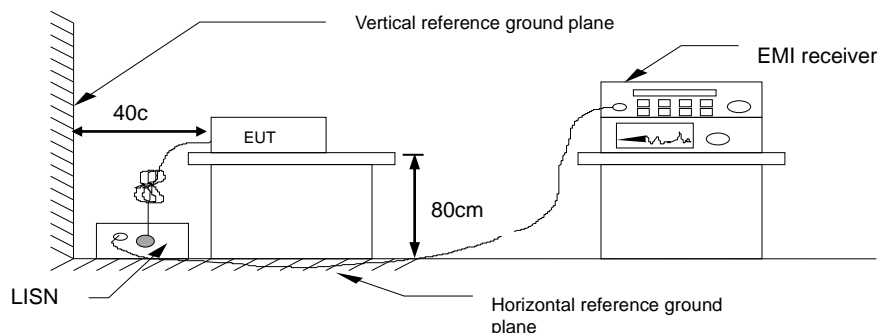
\* Decreases with the logarithm of the frequency.

#### 4.1.2 Test Procedure

Test method Refer as ANSI C63.10: 2013 clause 6.2,

1. The EUT was placed on a non-conducted table, which is 0.8m above horizontal ground plane and 0.4m above vertical ground plane.
2. EUT connected to the line impedance stabilization network (LISN)
3. Receiver set RBW of 9kHz and Detector Peak, and note as quasi-peak and average.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. Recorded Line for Neutral and Line.

#### 4.1.3 Test Setup

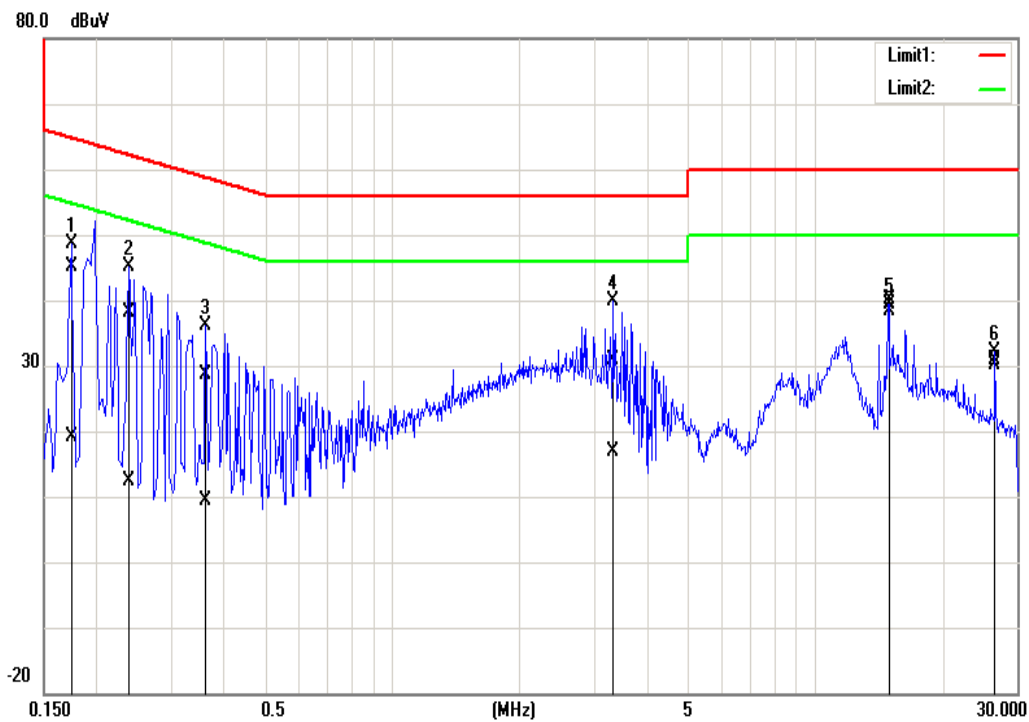


#### 4.1.4 Test Result

Pass.

### Test Data

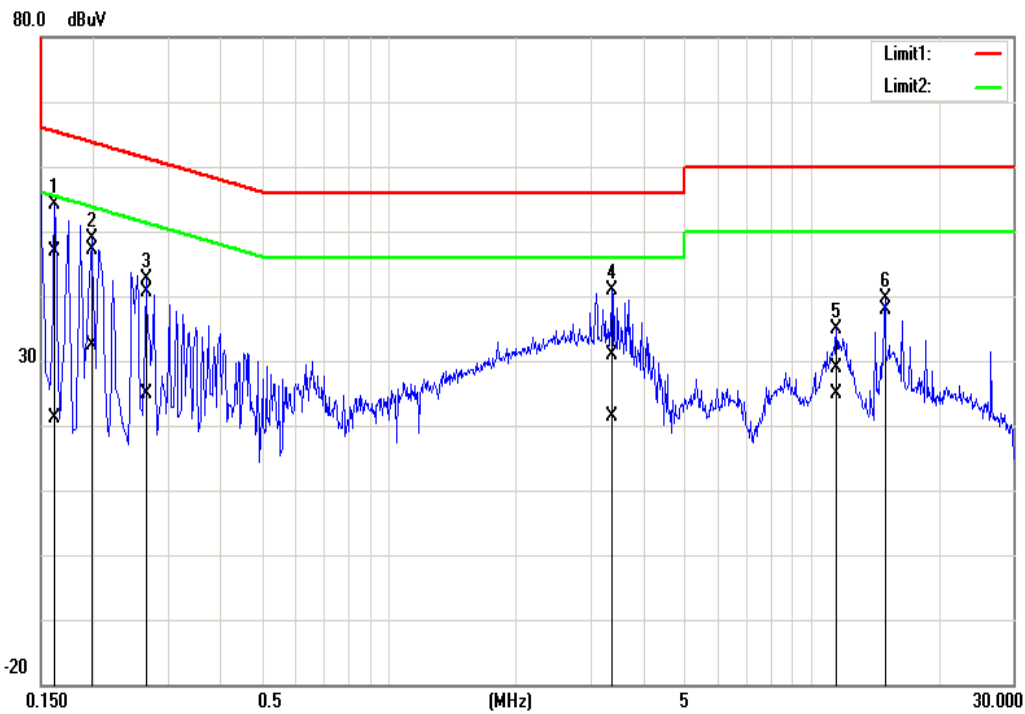
|               |              |               |                 |
|---------------|--------------|---------------|-----------------|
| Test Mode:    | Mode 1       | Temp/Hum      | 24.3(°C)/ 61%RH |
| Phase:        | Line         | Test Date     | June 27, 2023   |
| Test Voltage: | 120Vac, 60Hz | Test Engineer | Tony Chao       |



| Frequency (MHz) | Quasi Peak reading (dBuV) | Average reading (d uV) | Correction factor (dB) | Quasi Peak result (dBuV) | Average result (dBuV) | Quasi Peak limit (dBuV) | Average limit (dBuV) | Quasi Peak margin (dB) | Average margin (dB) | Remark |
|-----------------|---------------------------|------------------------|------------------------|--------------------------|-----------------------|-------------------------|----------------------|------------------------|---------------------|--------|
| 0.1740          | 44.87                     | 18.87                  | 0.15                   | 45.02                    | 19.02                 | 64.77                   | 54.77                | -19.75                 | -35.75              | Pass   |
| 0.2380          | 37.93                     | 12.30                  | 0.15                   | 38.08                    | 12.45                 | 62.17                   | 52.17                | -24.09                 | -39.72              | Pass   |
| 0.3620          | 28.58                     | 9.18                   | 0.15                   | 28.73                    | 9.33                  | 58.68                   | 48.68                | -29.95                 | -39.35              | Pass   |
| 3.3420          | 30.76                     | 16.59                  | 0.24                   | 31.00                    | 16.83                 | 56.00                   | 46.00                | -25.00                 | -29.17              | Pass   |
| 14.9100         | 39.62                     | 37.95                  | 0.43                   | 40.05                    | 38.38                 | 60.00                   | 50.00                | -19.95                 | -11.62              | Pass   |
| 26.6220         | 30.19                     | 29.56                  | 0.61                   | 30.80                    | 30.17                 | 60.00                   | 50.00                | -29.20                 | -19.83              | Pass   |

**Note:** 1. Correction factor = LISN loss + Cable loss.

|               |              |               |                 |
|---------------|--------------|---------------|-----------------|
| Test Mode:    | Mode 1       | Temp/Hum      | 24.3(°C)/ 61%RH |
| Phase:        | Neutral      | Test Date     | June 27, 2023   |
| Test Voltage: | 120Vac, 60Hz | Test Engineer | Tony Chao       |

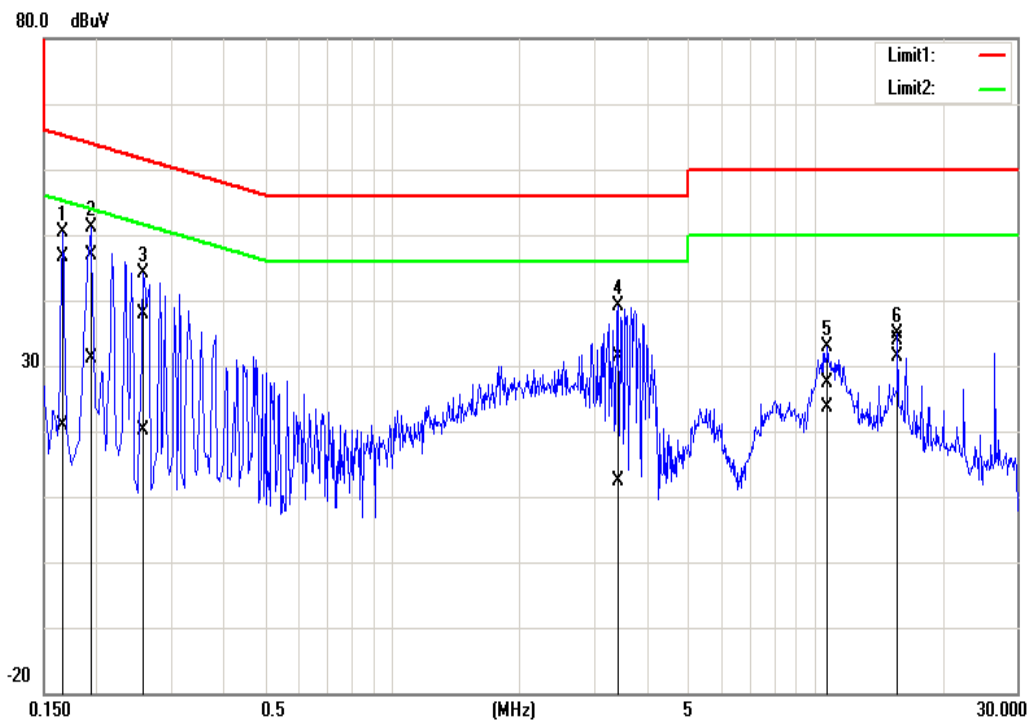


| Frequency (MHz) | Quasi Peak reading (dBuV) | Average reading (dBuV) | Correction factor (dB) | Quasi Peak result (dBuV) | Average result (dBuV) | Quasi Peak limit (dBuV) | Average limit (dBuV) | Quasi Peak margin (dB) | Average margin (dB) | Remark |
|-----------------|---------------------------|------------------------|------------------------|--------------------------|-----------------------|-------------------------|----------------------|------------------------|---------------------|--------|
| 0.1620          | 46.57                     | 20.81                  | 0.20                   | 46.77                    | 21.01                 | 65.36                   | 55.36                | -18.59                 | -34.35              | Pass   |
| 0.1980          | 46.82                     | 32.10                  | 0.19                   | 47.01                    | 32.29                 | 63.69                   | 53.69                | -16.68                 | -21.40              | Pass   |
| 0.2660          | 40.48                     | 24.69                  | 0.19                   | 40.67                    | 24.88                 | 61.24                   | 51.24                | -20.57                 | -26.36              | Pass   |
| 3.3780          | 30.68                     | 21.05                  | 0.29                   | 30.97                    | 21.34                 | 56.00                   | 46.00                | -25.03                 | -24.66              | Pass   |
| 11.4860         | 28.54                     | 24.49                  | 0.41                   | 28.95                    | 24.90                 | 60.00                   | 50.00                | -31.05                 | -25.10              | Pass   |
| 14.9100         | 39.29                     | 37.44                  | 0.45                   | 39.74                    | 37.89                 | 60.00                   | 50.00                | -20.26                 | -12.11              | Pass   |

**Note:** 1. Correction factor = LISN loss + Cable loss.

### Test Data

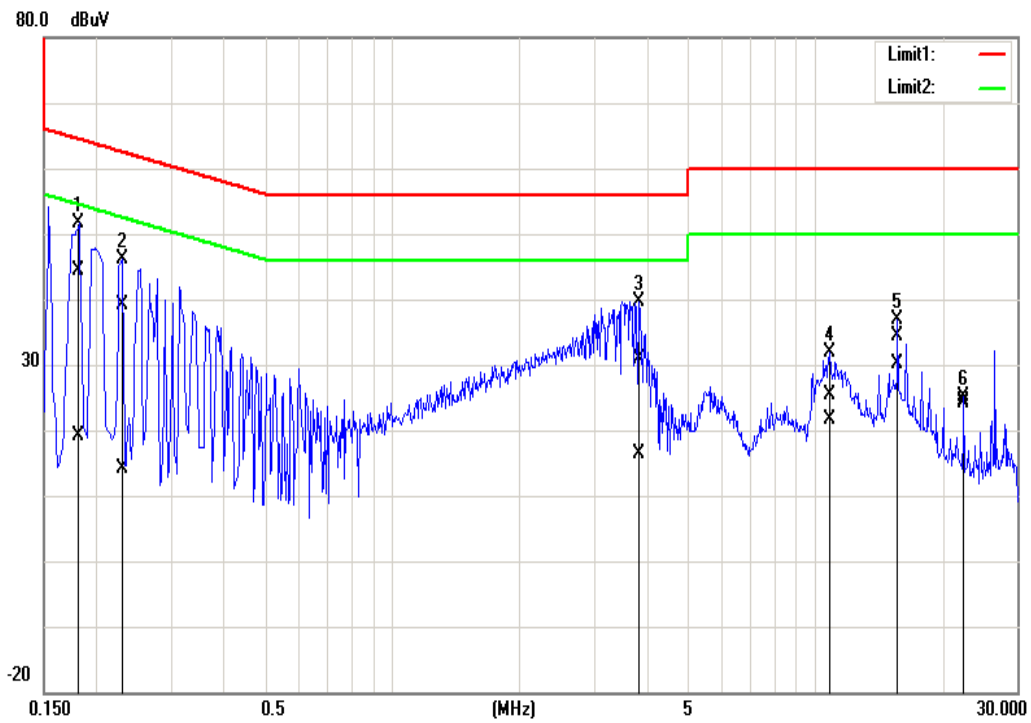
|               |              |               |                 |
|---------------|--------------|---------------|-----------------|
| Test Mode:    | Mode 2       | Temp/Hum      | 24.3(°C)/ 61%RH |
| Phase:        | Line         | Test Date     | June 27, 2023   |
| Test Voltage: | 120Vac, 60Hz | Test Engineer | Tony Chao       |



| Frequency (MHz) | Quasi Peak reading (dBuV) | Average reading (d uV) | Correction factor (dB) | Quasi Peak result (dBuV) | Average result (dBuV) | Quasi Peak limit (dBuV) | Average limit (dBuV) | Quasi Peak margin (dB) | Average margin (dB) | Remark |
|-----------------|---------------------------|------------------------|------------------------|--------------------------|-----------------------|-------------------------|----------------------|------------------------|---------------------|--------|
| 0.1660          | 46.39                     | 20.70                  | 0.15                   | 46.54                    | 20.85                 | 65.16                   | 55.16                | -18.62                 | -34.31              | Pass   |
| 0.1940          | 46.71                     | 31.07                  | 0.15                   | 46.86                    | 31.22                 | 63.86                   | 53.86                | -17.00                 | -22.64              | Pass   |
| 0.2580          | 37.79                     | 19.94                  | 0.15                   | 37.94                    | 20.09                 | 61.50                   | 51.50                | -23.56                 | -31.41              | Pass   |
| 3.4260          | 31.17                     | 12.13                  | 0.24                   | 31.41                    | 12.37                 | 56.00                   | 46.00                | -24.59                 | -33.63              | Pass   |
| 10.7180         | 27.11                     | 23.19                  | 0.38                   | 27.49                    | 23.57                 | 60.00                   | 50.00                | -32.51                 | -26.43              | Pass   |
| 15.6620         | 33.38                     | 31.02                  | 0.45                   | 33.83                    | 31.47                 | 60.00                   | 50.00                | -26.17                 | -18.53              | Pass   |

**Note:** 1. Correction factor = LISN loss + Cable loss.

|               |              |               |                 |
|---------------|--------------|---------------|-----------------|
| Test Mode:    | Mode 2       | Temp/Hum      | 24.3(°C)/ 61%RH |
| Phase:        | Neutral      | Test Date     | June 27, 2023   |
| Test Voltage: | 120Vac, 60Hz | Test Engineer | Tony Chao       |



| Frequency (MHz) | Quasi Peak reading (dBuV) | Average reading (dBuV) | Correction factor (dB) | Quasi Peak result (dBuV) | Average result (dBuV) | Quasi Peak limit (dBuV) | Average limit (dBuV) | Quasi Peak margin (dB) | Average margin (dB) | Remark |
|-----------------|---------------------------|------------------------|------------------------|--------------------------|-----------------------|-------------------------|----------------------|------------------------|---------------------|--------|
| 0.1820          | 44.09                     | 19.04                  | 0.20                   | 44.29                    | 19.24                 | 64.39                   | 54.39                | -20.10                 | -35.15              | Pass   |
| 0.2300          | 38.90                     | 13.99                  | 0.19                   | 39.09                    | 14.18                 | 62.45                   | 52.45                | -23.36                 | -38.27              | Pass   |
| 3.8300          | 30.48                     | 15.97                  | 0.31                   | 30.79                    | 16.28                 | 56.00                   | 46.00                | -25.21                 | -29.72              | Pass   |
| 10.8380         | 25.07                     | 21.15                  | 0.40                   | 25.47                    | 21.55                 | 60.00                   | 50.00                | -34.53                 | -28.45              | Pass   |
| 15.6660         | 33.80                     | 29.57                  | 0.47                   | 34.27                    | 30.04                 | 60.00                   | 50.00                | -25.73                 | -19.96              | Pass   |
| 22.5260         | 23.92                     | 23.48                  | 0.54                   | 24.46                    | 24.02                 | 60.00                   | 50.00                | -35.54                 | -25.98              | Pass   |

**Note:** 1. Correction factor = LISN loss + Cable loss.

## 4.2 20dB BANDWIDTH AND OCCUPIED BANDWIDTH (99%)

### 4.2.1 Test Limit

According to §15.247(a) (1), RSS-247(5.1)(a) and RSS-GEN 6.7

**20 dB Bandwidth** : For reporting purposes only.

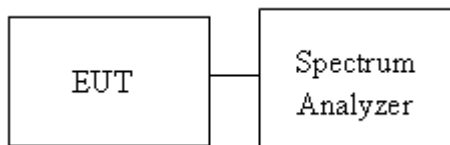
**Occupied Bandwidth(99%)** : For reporting purposes only.

### 4.2.2 Test Procedure

Test method Refer as ANSI C63.10: 2013 clause 7.8.7,

1. The EUT RF output connected to the spectrum analyzer by RF cable.
2. Setting maximum power transmit of EUT
3. SA set RBW = 1% ~ 5% OBW, VBW  $\geq 3 \times$  RBW and Detector = Peak, to measurement 20 dB Bandwidth.
4. SA set RBW = 1% ~ 5% OBW, VBW  $\geq$  three times the RBW and Detector = Peak, to measurement 99% Bandwidth
5. Measure and record the result of 20 dB Bandwidth and 99% Bandwidth. in the test report.

### 4.2.3 Test Setup



### 4.2.4 Test Result

Temperature: 25.2°C

Test date: May 19, 2023

Humidity: 58% RH

Tested by: David Li

| Test mode: GFSK_BDR-1Mbps mode / 2402-2480 MHz |                 |                |               |
|--|-----------------|----------------|---------------|
| Channel  | Frequency (MHz) | OBW(99%) (MHz) | 20dB BW (MHz) |
| Low  | 2402            | 0.85970        | 0.9640        |
| Mid  | 2441            | 0.86014        | 0.9638        |
| High   | 2480            | 0.86080        | 0.9638        |

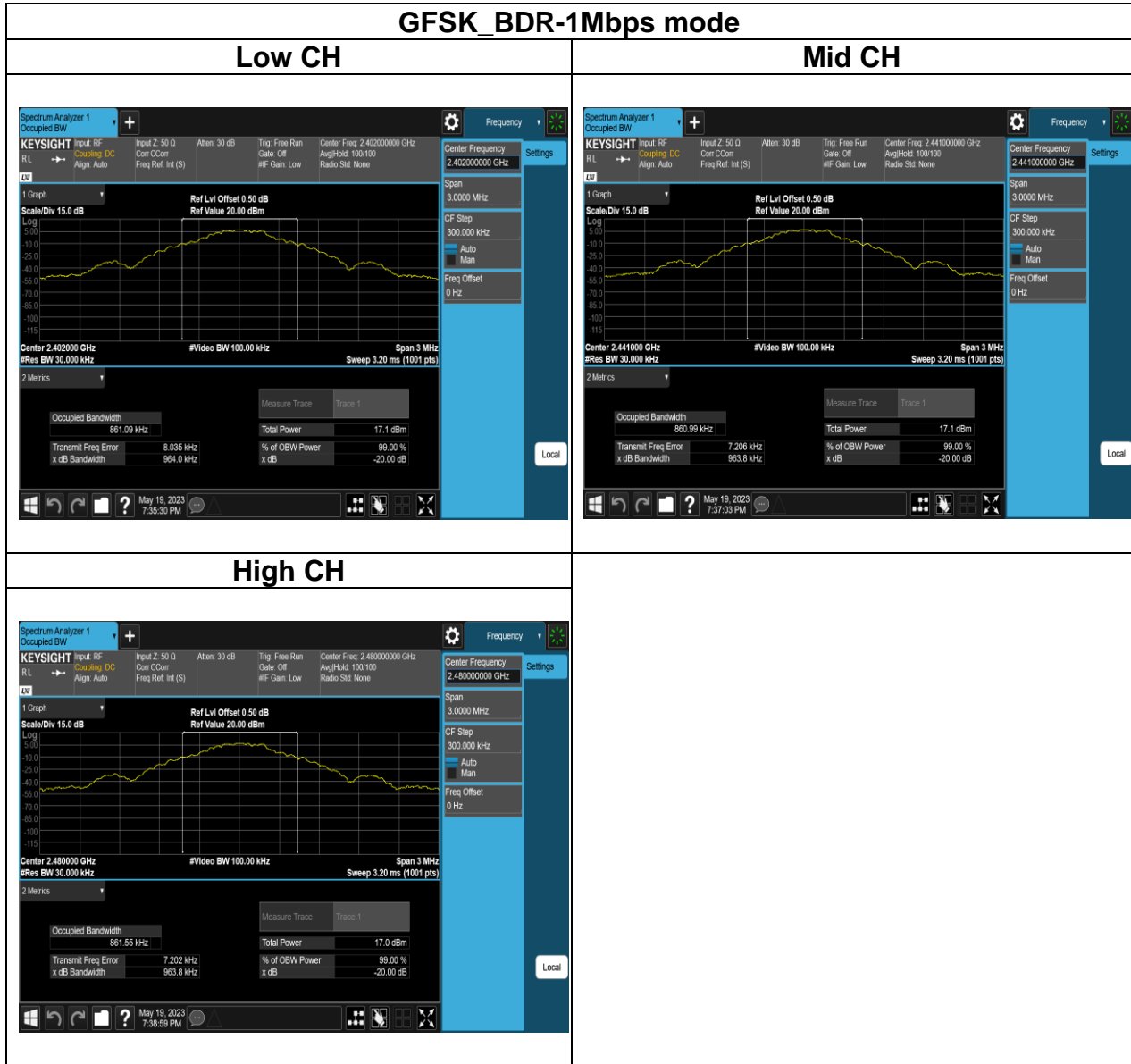
| Test mode: $\pi/4$ -DQPSK_2Mbps mode / 2402-2480 MHz |                 |                |               |
|--|-----------------|----------------|---------------|
| Channel  | Frequency (MHz) | OBW(99%) (MHz) | 20dB BW (MHz) |
| Low  | 2402            | 1.1764         | 1.328         |
| Mid  | 2441            | 1.1765         | 1.334         |
| High   | 2480            | 1.1724         | 1.325         |

| Test mode: 8DPSK_EDR-3Mbps mode / 2402-2480 MHz |                 |                |               |
|---|-----------------|----------------|---------------|
| Channel   | Frequency (MHz) | OBW(99%) (MHz) | 20dB BW (MHz) |
| Low   | 2402            | 1.1790         | 1.314         |
| Mid   | 2441            | 1.1795         | 1.314         |
| High  | 2480            | 1.1795         | 1.314         |

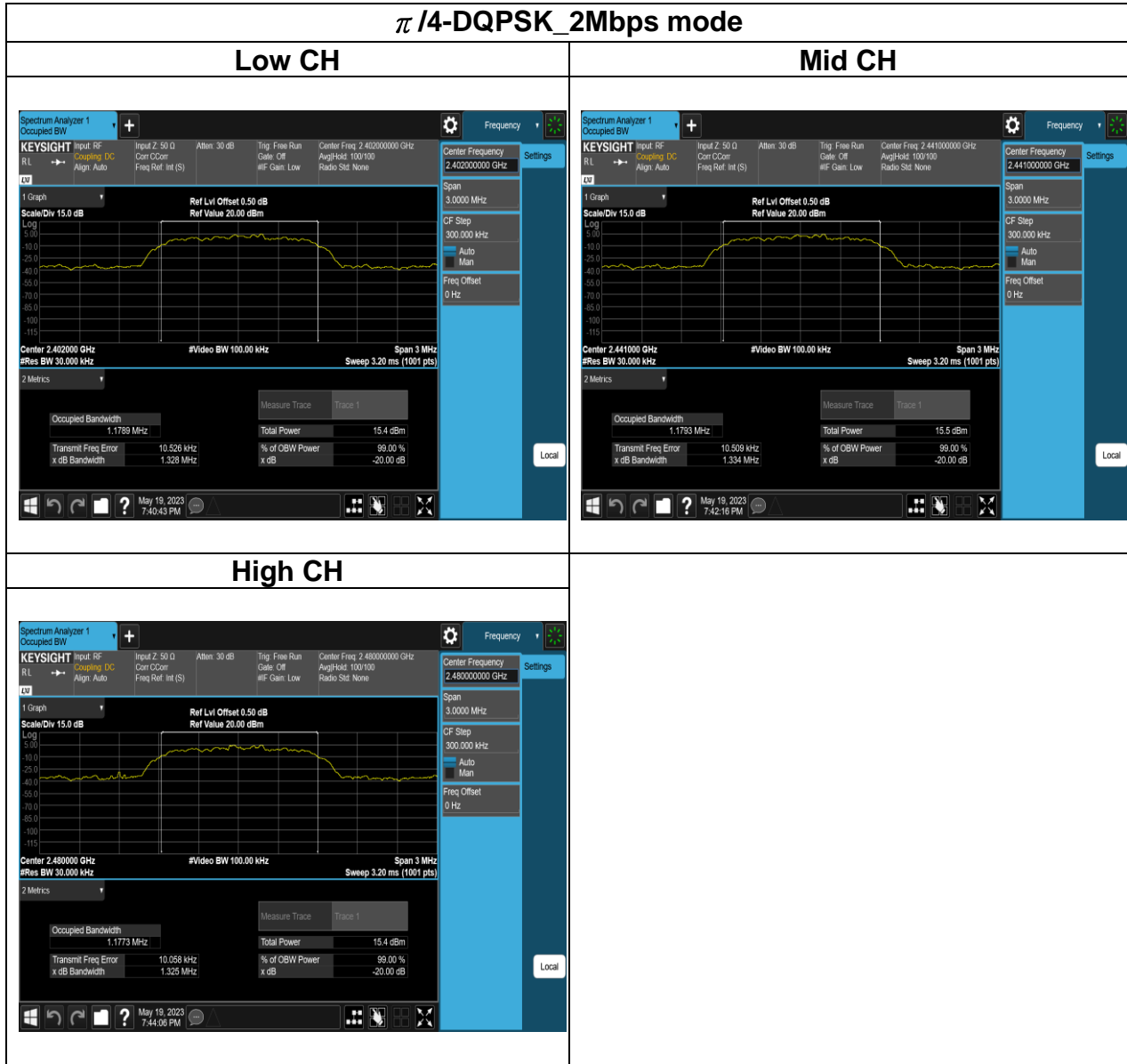


Report No.: TMWK2305001499KR

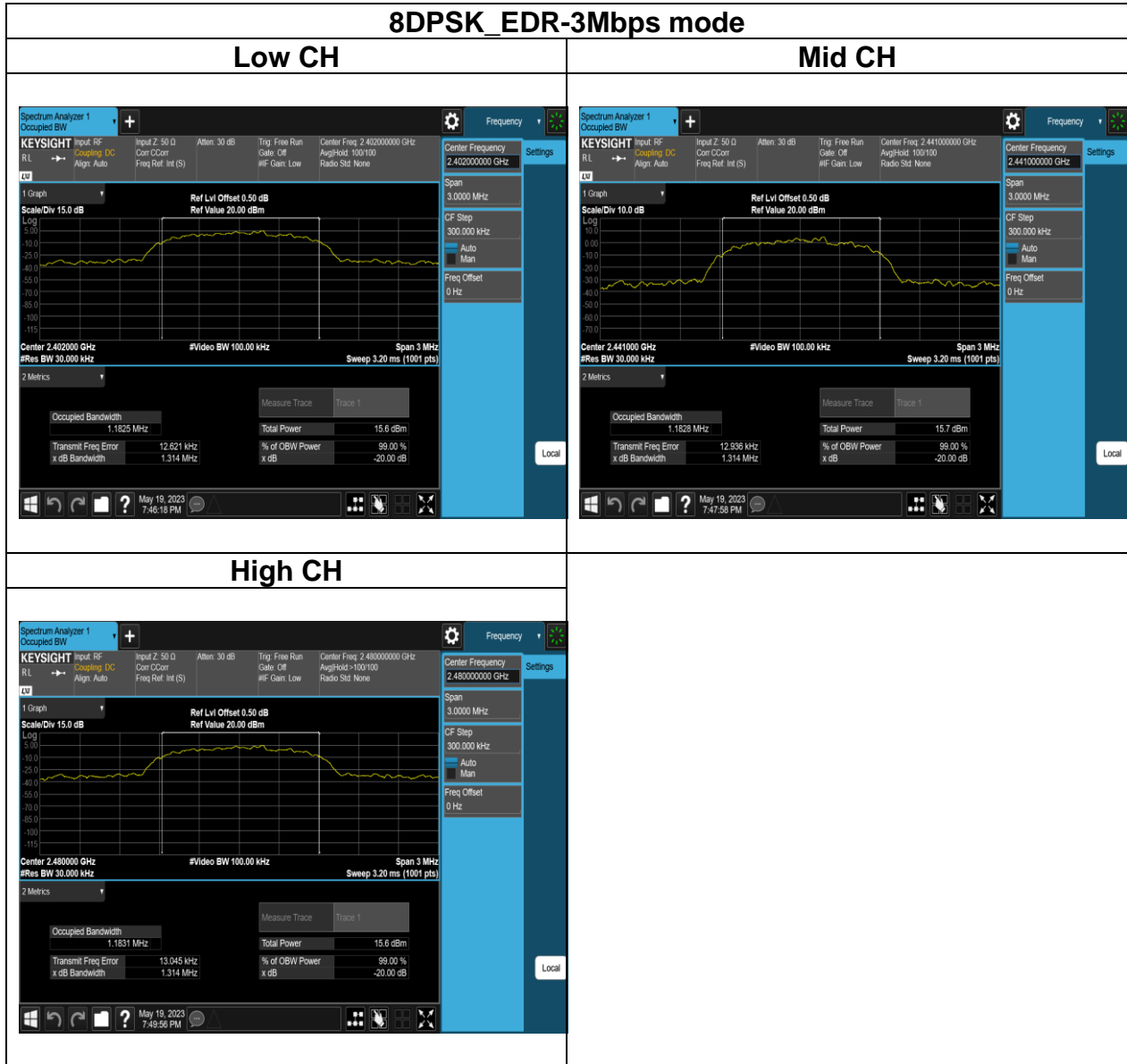
## Test Data (20dB BANDWIDTH)



Report No.: TMWK2305001499KR



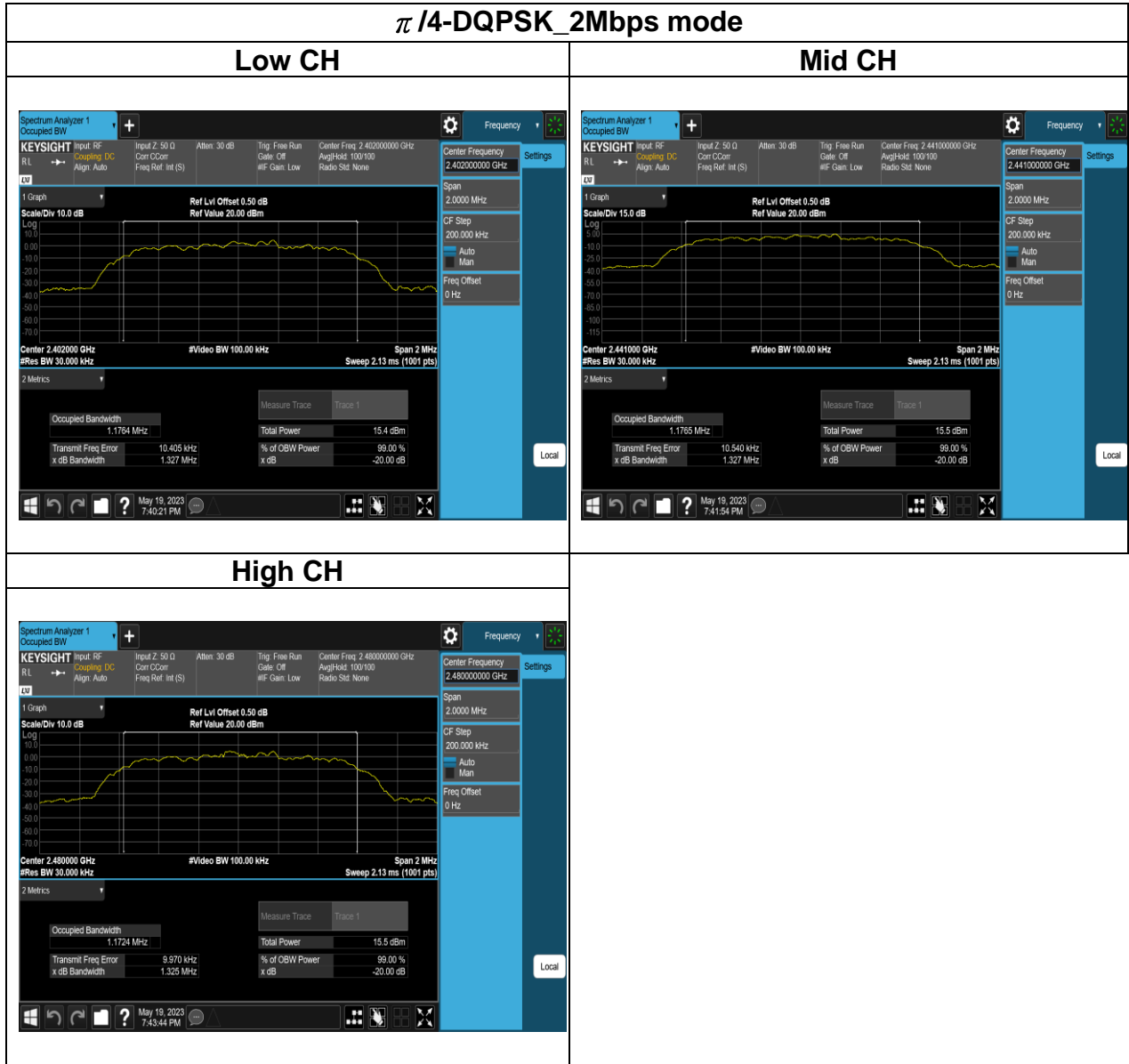
Report No.: TMWK2305001499KR



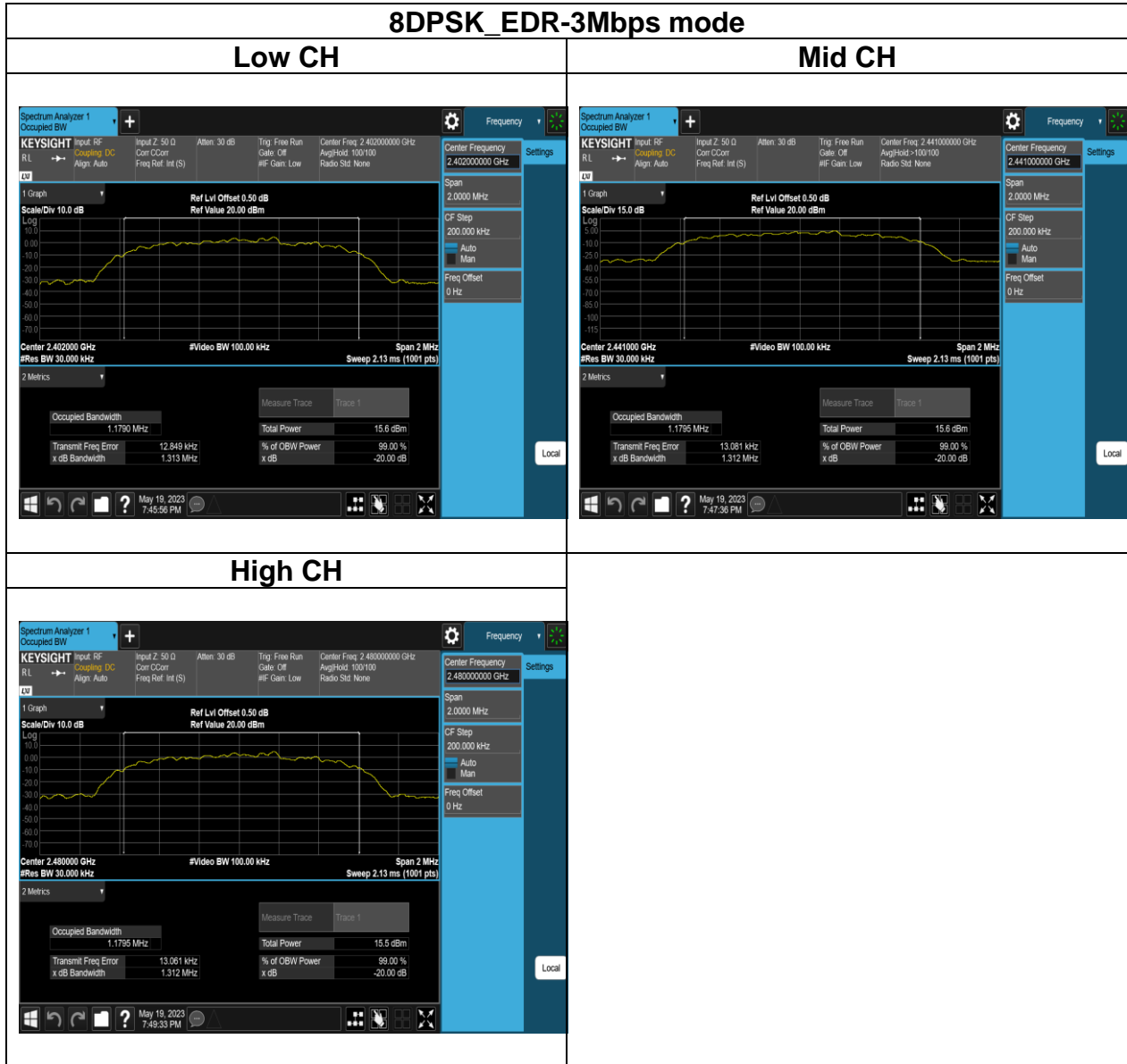
Report No.: TMWK2305001499KR

## Test Data (BANDWIDTH 99%)





Report No.: TMWK2305001499KR



Report No.: TMWK2305001499KR

### 4.3 OUTPUT POWER MEASUREMENT

#### 4.3.1 Test Limit

According to §15.247(a)(1), RSS-247 section 5.4(b)

**Peak output power** :

**FCC**

Alternatively, 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, provided the systems operate with an output power no greater than 125 mW.

**IC**

According to RSS-247 section 5.4(b), For FHSs operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W if the hopset uses 75 or more hopping channels; the maximum peak conducted output power shall not exceed 0.125 W if the hopset uses less than 75 hopping channels. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e).

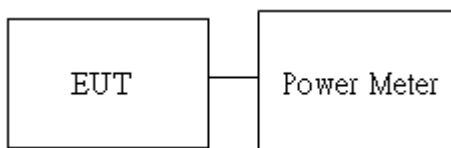
|       |  |
|-------|--|
| Limit | <input checked="" type="checkbox"/> Antenna not exceed 6 dBi : 21dBm<br><input type="checkbox"/> Antenna with DG greater than 6 dBi : 21dBm [ Limit = 30 – (DG – 6)] |
|-------|--|

**Average output power** : For reporting purposes only.

#### 4.3.2 Test Procedure

1. The EUT RF output connected to the power meter by RF cable.
2. Setting maximum power transmit of EUT.
3. The path loss was compensated to the results for each measurement.
4. Measure and record the result of Peak output power and Average output power. in the test report.

#### 4.3.3 Test Setup



Report No.: TMWK2305001499KR

### 4.3.4 Test Result

Temperature: 25.2°C

Test date: May 19, 2023

Humidity: 58% RH

Tested by: David Li

#### Peak output power :

##### 1M BR mode (Peak):

| CH   | Freq. (MHz) | Power set | Peak Output Power (dBm) | Output Power (mW) | Limit (mW) |
|------|-------------|-----------|-------------------------|-------------------|------------|
| Low  | 2402        | 11        | <b>9.29</b>             | 8.492             | 125        |
| Mid  | 2441        | 11        | 9.25                    | 8.414             | 125        |
| High | 2480        | 11        | 9.12                    | 8.166             | 125        |

##### 2M EDR mode (Peak):

| CH   | Freq. (MHz) | Power set | Peak Output Power (dBm) | Output Power (mW) | Limit (mW) |
|------|-------------|-----------|-------------------------|-------------------|------------|
| Low  | 2402        | 12        | <b>9.50</b>             | 8.913             | 125        |
| Mid  | 2441        | 12        | 9.46                    | 8.831             | 125        |
| High | 2480        | 12        | 9.32                    | 8.551             | 125        |

##### 3M EDR mode (Peak):

| CH   | Freq. (MHz) | Power set | Peak Output Power (dBm) | Output Power (mW) | Limit (mW) |
|------|-------------|-----------|-------------------------|-------------------|------------|
| Low  | 2402        | 12        | <b>9.74</b>             | 9.419             | 125        |
| Mid  | 2441        | 12        | 9.71                    | 9.354             | 125        |
| High | 2480        | 12        | 9.57                    | 9.057             | 125        |



**Average output power :**

**1M BR mode (Average):**

| CH   | Freq. (MHz) | Power set | Max. Avg. Output Power (dBm) | Output Power (mW) | Limit (mW) |
|------|-------------|-----------|------------------------------|-------------------|------------|
| Low  | 2402        | 11        | 9.26                         | 8.441             | 125        |
| Mid  | 2441        | 11        | 9.16                         | 8.249             | 125        |
| High | 2480        | 11        | 9.07                         | 8.079             | 125        |

**2M EDR mode (Average):**

| CH   | Freq. (MHz) | Power set | Max. Avg. Output Power (dBm) | Output Power (mW) | Limit (mW) |
|------|-------------|-----------|------------------------------|-------------------|------------|
| Low  | 2402        | 12        | 7.48                         | 5.593             | 125        |
| Mid  | 2441        | 12        | 7.46                         | 5.567             | 125        |
| High | 2480        | 12        | 7.32                         | 5.391             | 125        |

**3M EDR mode (Average):**

| CH   | Freq. (MHz) | Power set | Max. Avg. Output Power (dBm) | Output Power (mW) | Limit (mW) |
|------|-------------|-----------|------------------------------|-------------------|------------|
| Low  | 2402        | 12        | 7.51                         | 5.632             | 125        |
| Mid  | 2441        | 12        | 7.50                         | 5.619             | 125        |
| High | 2480        | 12        | 7.36                         | 5.440             | 125        |

**EIRP :**

**1M BR mode EIRP**

| Channel | Frequency (MHz) | Power set | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (mW) | Limit (mW) |
|---------|-----------------|-----------|-------------------------|--------------------|-----------|------------|
| Low     | 2402            | 11        | 9.26                    | 4.00               | 21.202    | 4000       |
| Mid     | 2441            | 11        | 9.16                    | 4.00               | 20.720    | 4000       |
| High    | 2480            | 11        | 9.07                    | 4.00               | 20.295    | 4000       |

**2M EDR mode EIRP**

| Channel | Frequency (MHz) | Power set | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (mW) | Limit (mW) |
|---------|-----------------|-----------|-------------------------|--------------------|-----------|------------|
| Low     | 2402            | 12        | 7.48                    | 4.00               | 14.049    | 4000       |
| Mid     | 2441            | 12        | 7.46                    | 4.00               | 13.984    | 4000       |
| High    | 2480            | 12        | 7.32                    | 4.00               | 13.541    | 4000       |

**3M EDR mode EIRP**

| Channel | Frequency (MHz) | Power set | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (mW) | Limit (mW) |
|---------|-----------------|-----------|-------------------------|--------------------|-----------|------------|
| Low     | 2402            | 12        | 7.51                    | 4.00               | 14.146    | 4000       |
| Mid     | 2441            | 12        | 7.50                    | 4.00               | 14.114    | 4000       |
| High    | 2480            | 12        | 7.36                    | 4.00               | 13.666    | 4000       |

Report No.: TMWK2305001499KR

## 4.4 FREQUENCY SEPARATION

### 4.4.1 Test Limit

According to §15.247(a)(1) and RSS-247 section 5.1(b)

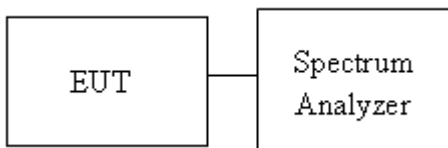
Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

|       |                                     |
|-------|-------------------------------------|
| Limit | > two-thirds of the 20 dB bandwidth |
|-------|-------------------------------------|

### 4.4.2 Test Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. EUT RF output port connected to the SA by RF cable.
3. Set the spectrum analyzer as RBW = 300kHz, VBW = 300kHz, Sweep = auto.  
Max hold, mark 3 peaks of hopping channel and record the 3 peaks frequency

### 4.4.3 Test Setup



#### 4.4.4 Test Result

Temperature: 25.2°C

Test date: May 19, 2023

Humidity: 58% RH

Tested by: David Li

| Test mode: GFSK_BDR-1Mbps mode / 2402-2480 MHz |                 |                          |                                 |        |
|--|-----------------|--------------------------|---------------------------------|--------|
| Channel  | Frequency (MHz) | Channel Separation (MHz) | Channel Separation Limits (MHz) | Result |
| Low  | 2402            | 0.9640                   | 0.64                            | PASS   |
| Mid  | 2441            | 0.9638                   | 0.64                            | PASS   |
| High   | 2480            | 0.9638                   | 0.64                            | PASS   |

| Test mode: $\pi/4$ -DQPSK_2Mbps mode / 2402-2480 MHz |                 |                          |                                 |        |
|--|-----------------|--------------------------|---------------------------------|--------|
| Channel  | Frequency (MHz) | Channel Separation (MHz) | Channel Separation Limits (MHz) | Result |
| Low  | 2402            | 1.328                    | 0.89                            | PASS   |
| Mid  | 2441            | 1.334                    | 0.89                            | PASS   |
| High   | 2480            | 1.325                    | 0.88                            | PASS   |

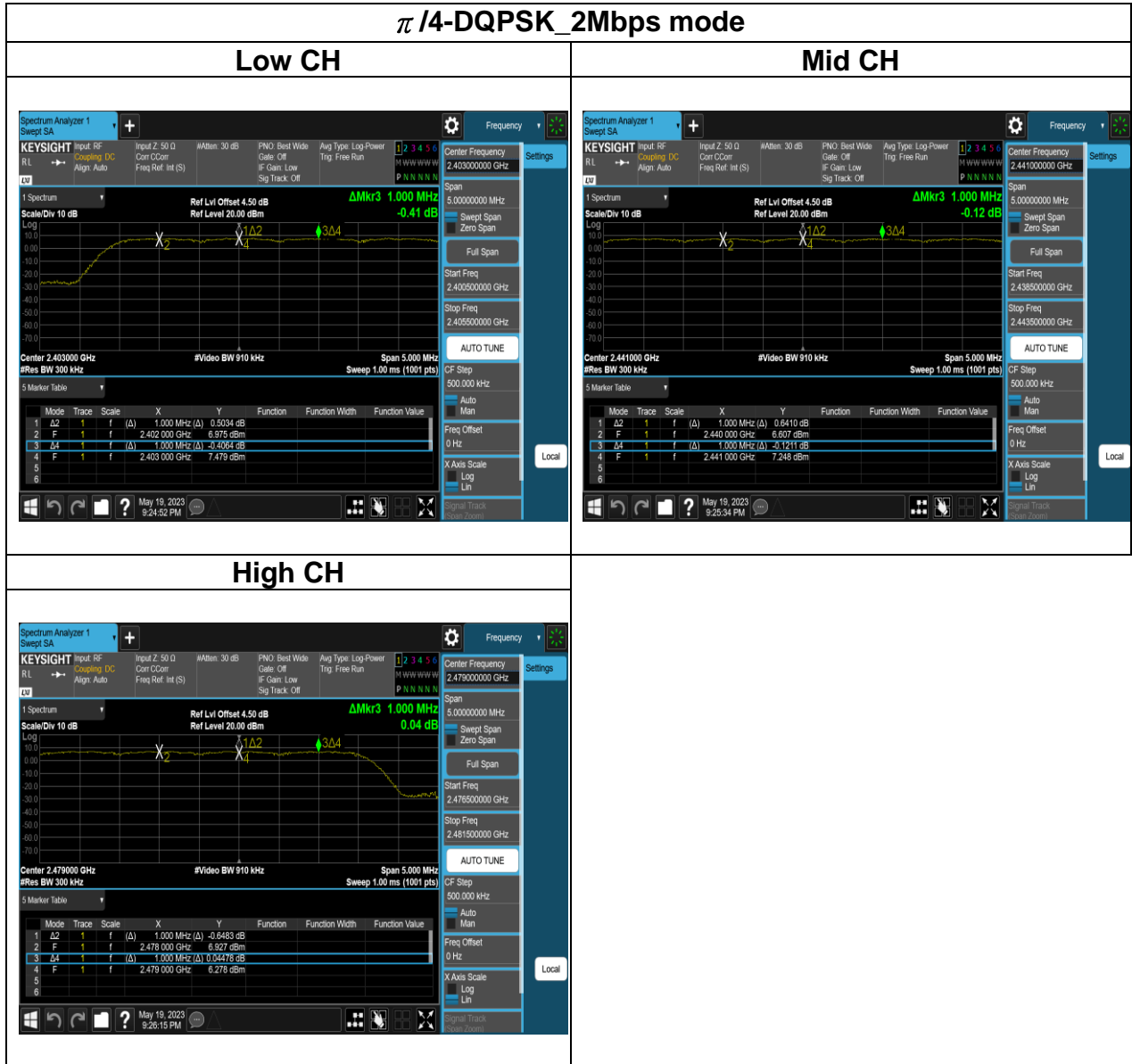
| Test mode: 8DPSK_EDR-3Mbps mode / 2402-2480 MHz |                 |                          |                                 |        |
|---|-----------------|--------------------------|---------------------------------|--------|
| Channel   | Frequency (MHz) | Channel Separation (MHz) | Channel Separation Limits (MHz) | Result |
| Low   | 2402            | 1.314                    | 0.88                            | PASS   |
| Mid   | 2441            | 1.314                    | 0.88                            | PASS   |
| High  | 2480            | 1.314                    | 0.88                            | PASS   |

Report No.: TMWK2305001499KR

## Test Data



Report No.: TMWK2305001499KR



Report No.: TMWK2305001499KR



Report No.: TMWK2305001499KR

## 4.5 NUMBER OF HOPPING

### 4.5.1 Test Limit

According to §15.247(a)(1)(iii) and RSS-247 section 5.1(d)

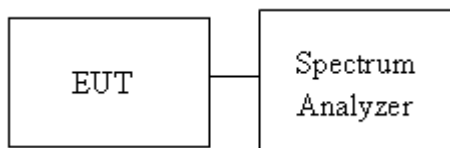
Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

### 4.5.2 Test Procedure

Test method Refer as ANSI C63.10: 2013 clause 7.8.3

1. Place the EUT on the table and set it in transmitting mode.
2. EUT RF output port connected to the SA by RF cable.
3. Set spectrum analyzer Start Freq. = 2400 MHz, Stop Freq. = 2441 MHz for Low range, Start Freq. = 2441 MHz, Stop Freq. = 2483.5 MHz for High range ; RBW=430KHz, VBW = 1.5MHz.
4. Max hold, view and count how many channel in the band.

### 4.5.3 Test Setup





### 4.5.4 Test Result

**Temperature:** 25.2°C

**Test date:** May 19, 2023

**Humidity:** 58% RH

**Tested by:** David Li

| Number of Hopping |                 |                        |                               |        |
|-------------------|-----------------|------------------------|-------------------------------|--------|
| Mode              | Frequency (MHz) | Hopping Channel Number | Hopping Channel Number Limits | Result |
| BDR-1Mbps         | 2402-2480       | 79                     | 15                            | Pass   |
| EDR-3Mbps         | 2402-2480       | 79                     | 15                            |        |

Report No.: TMWK2305001499KR

## Test Data



Report No.: TMWK2305001499KR

## 4.6 CONDUCTED BANDEDGE AND SPURIOUS EMISSION

### 4.6.1 Test Limit

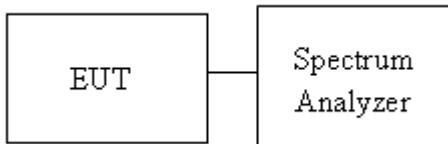
According to §15.247(d) and RSS-247 section 5.5

|       |         |
|-------|---------|
| Limit | -20 dBc |
|-------|---------|

### 4.6.2 Test Procedure

1. EUT RF output port connected to the SA by RF cable, and the path loss was compensated to result.
2. SA setting, RBW=100kHz, VBW=300kHz, Detector=Peak, Trace mode = max hold, SWT = Auto.
3. The Band Edge at 2.4GHz and 2.4835GHz are investigated with both hopping "ON" and "OFF" modes ".

### 4.6.3 Test Setup



Report No.: TMWK2305001499KR

## 4.6.4 Test Result

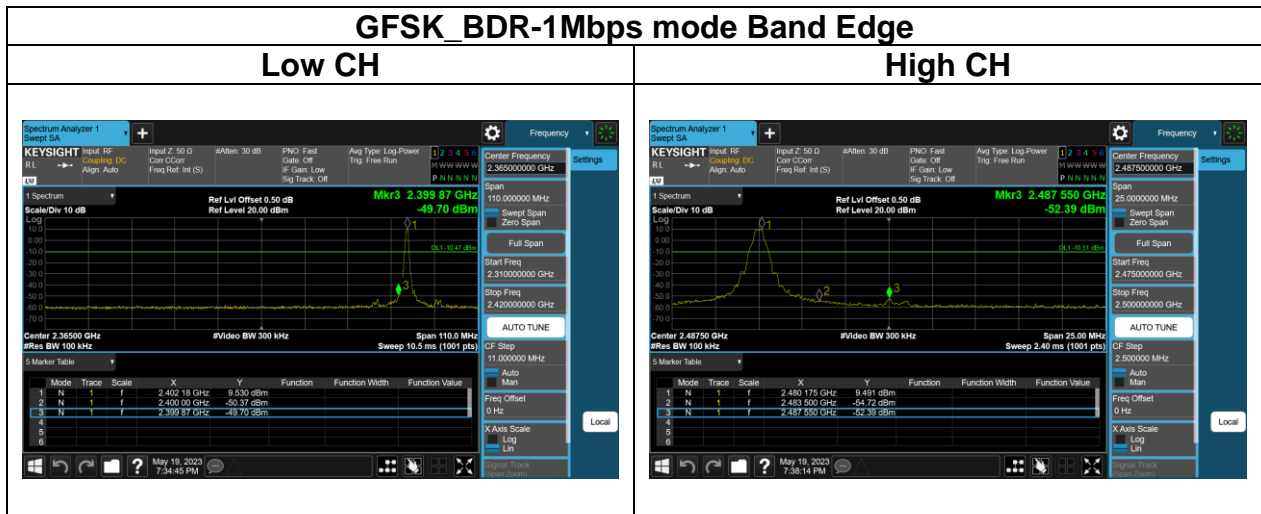
Temperature: 25.2°C

Test date: May 19, 2023

Humidity: 58% RH

Tested by: David Li

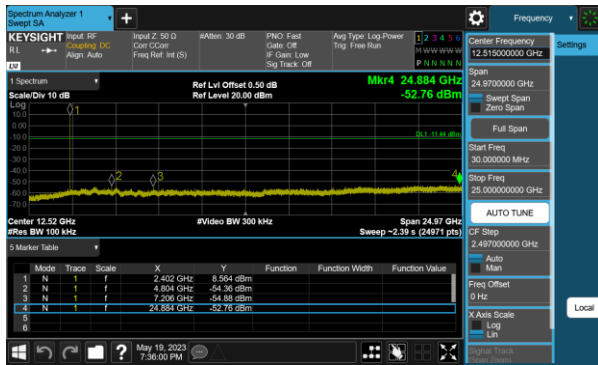
### Test Data



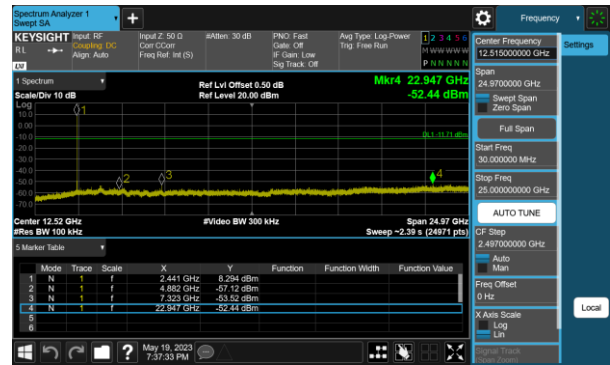
Report No.: TMWK2305001499KR

## GFSK\_BDR-1Mbps mode Spurious Emission 30MHz-25GHz

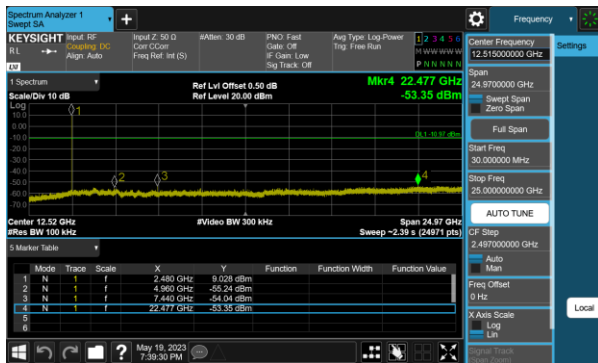
### Low CH



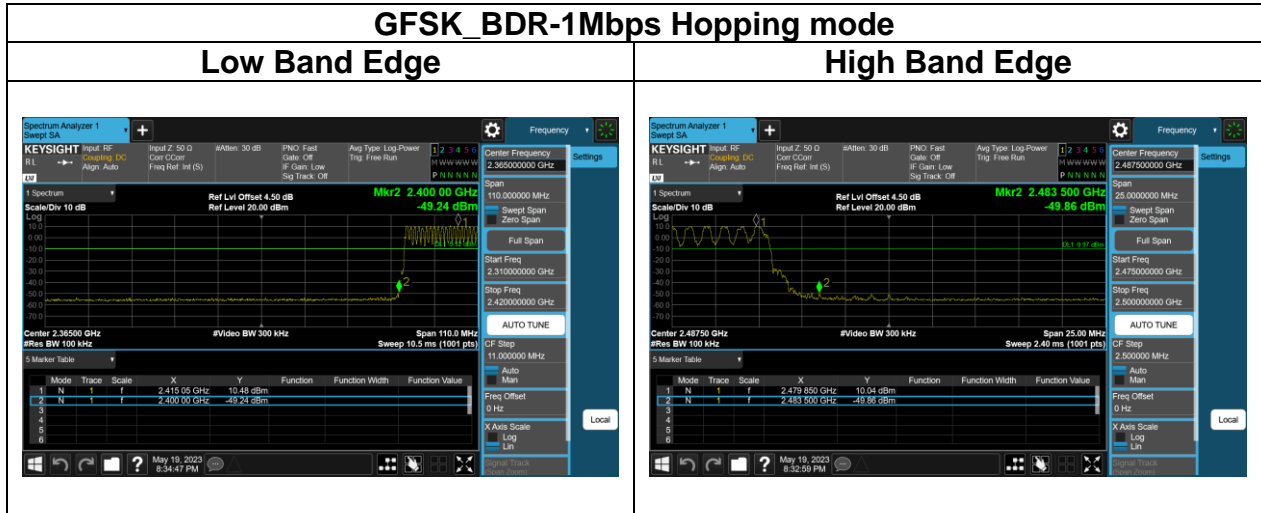
### Mid CH



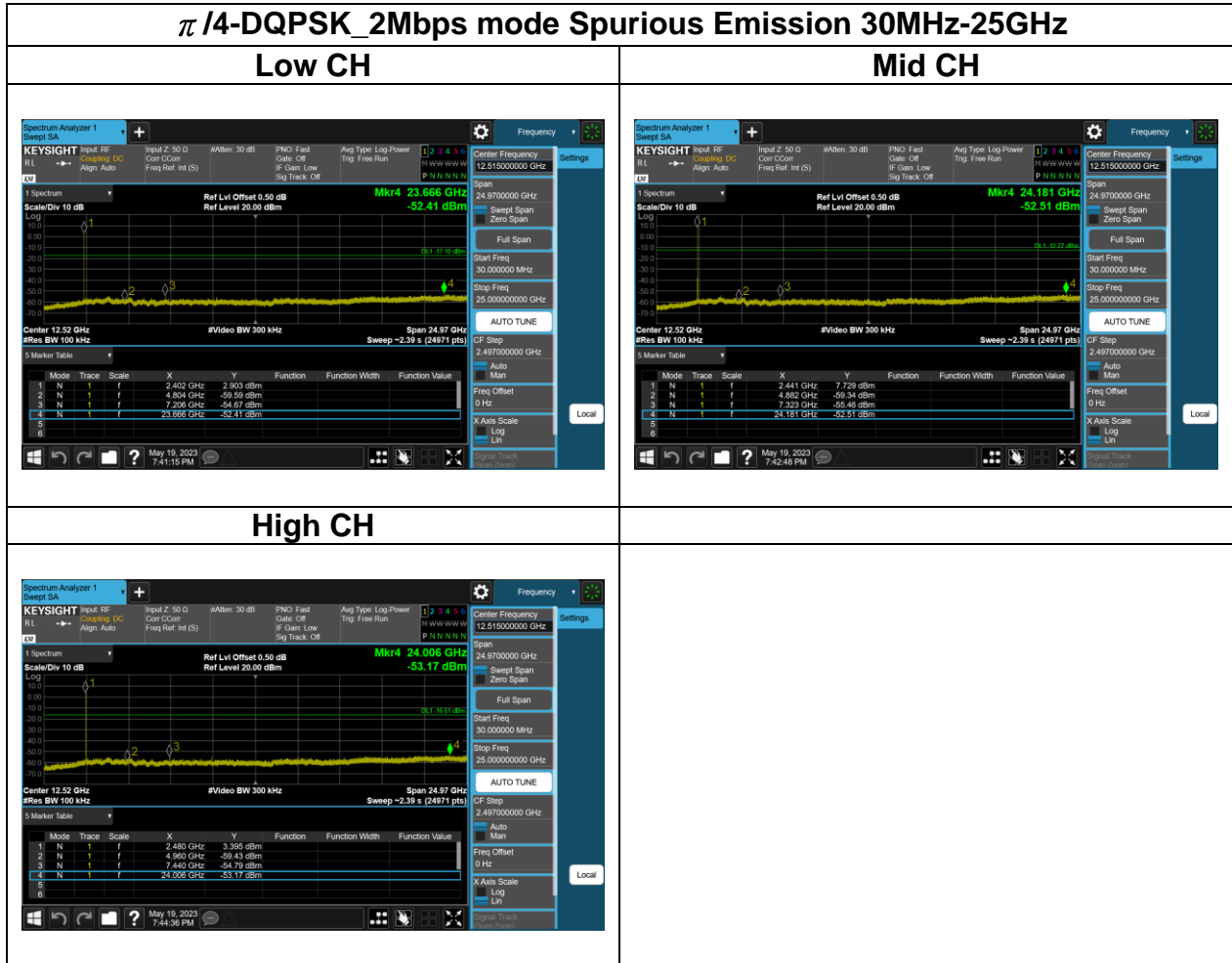
### High CH

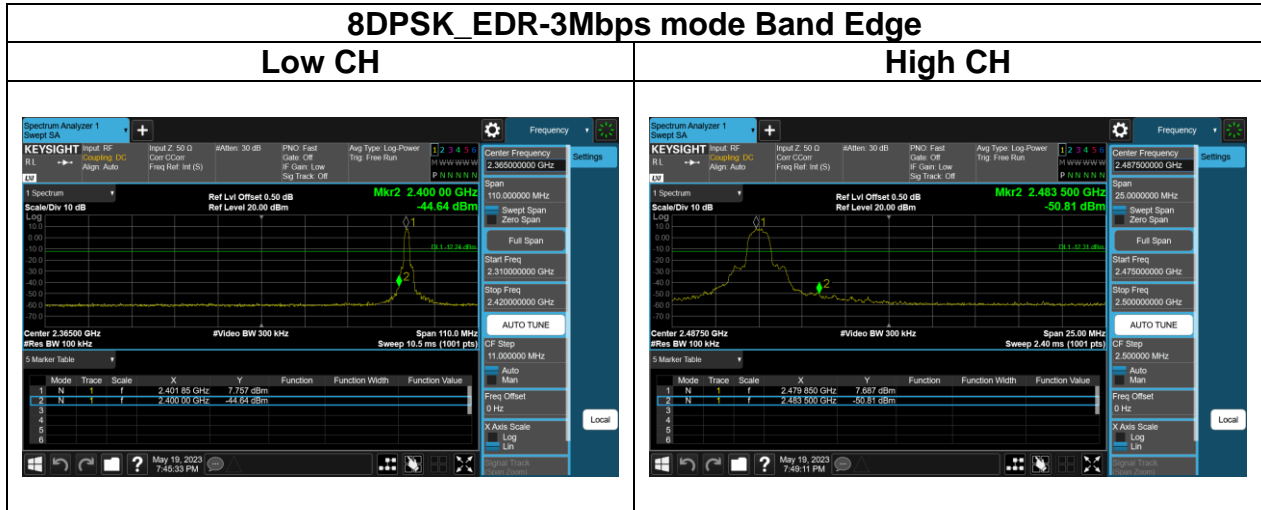


Report No.: TMWK2305001499KR



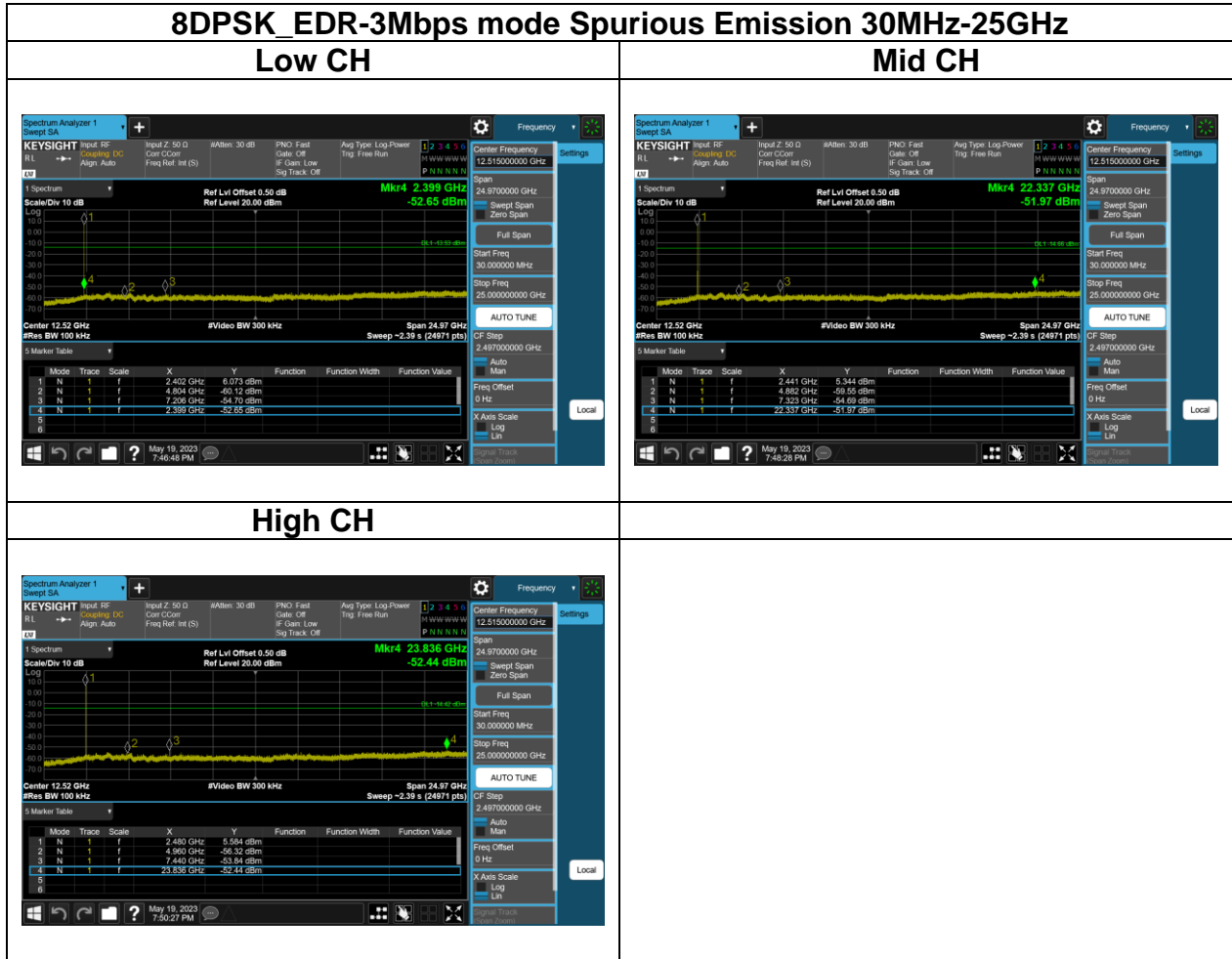
Report No.: TMWK2305001499KR

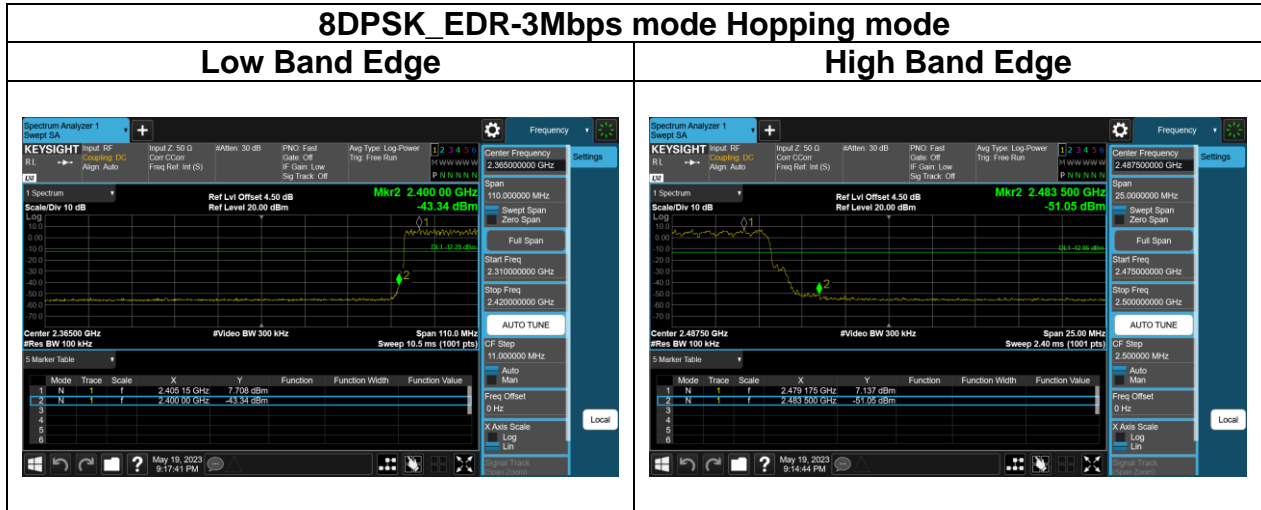






Report No.: TMWK2305001499KR





Report No.: TMWK2305001499KR

## 4.7 TIME OF OCCUPANCY (DWELL TIME)

### 4.7.1 Test Limit

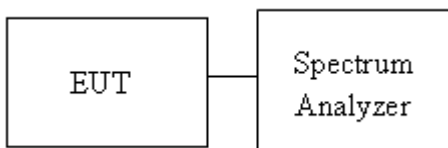
According to §15.247(a)(1)(iii)

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.

### 4.7.2 Test Procedure

1. EUT RF output port connected to the SA by RF cable.
2. Set center frequency of spectrum analyzer = operating frequency.
3. Set the spectrum analyzer as RBW, VBW=3MHz, Sweep > one cycle.

### 4.7.3 Test Setup



### 4.7.4 Test Result

Temperature: 25.2°C

Test date: May 19, 2023

Humidity: 58% RH

Tested by: David Li

#### For GFSK (1Mbps)

| Channel | PACKET TYPE | Measurement Result (ms) | Limit (ms) |
|---------|-------------|-------------------------|------------|
| Mid     | DH1         | 123.20                  | 400ms      |
|         | DH3         | 264.00                  | 400ms      |
|         | DH5         | 308.80                  | 400ms      |

CH Mid      DH1 time slot    =    0.385 \*    (1600/2/79)    \*    31.6    =    123.20 (ms)  
                  DH3 time slot    =    1.650 \*    (1600/4/79)    \*    31.6    =    264.00 (ms)  
                  DH5 time slot    =    2.895 \*    (1600/6/79)    \*    31.6    =    308.80 (ms)

#### For $\pi/4$ -DQPSK (2Mbps):

| Channel | PACKET TYPE | Measurement Result (ms) | Limit (ms) |
|---------|-------------|-------------------------|------------|
| Mid     | 2DH1        | 124.80                  | 400ms      |
|         | 2DH3        | 260.80                  | 400ms      |
|         | 2DH5        | 307.20                  | 400ms      |

CH Mid      2DH1 time slot    =    0.390 \*    (1600/2/79)    \*    31.6    =    124.80 (ms)  
                  2DH3 time slot    =    1.630 \*    (1600/4/79)    \*    31.6    =    260.80 (ms)  
                  2DH5 time slot    =    2.880 \*    (1600/6/79)    \*    31.6    =    307.20 (ms)

#### For 8-DPSK (3Mbps)

| Channel | PACKET TYPE | Measurement Result (ms) | Limit (ms) |
|---------|-------------|-------------------------|------------|
| Mid     | 3DH1        | 123.20                  | 400ms      |
|         | 3DH3        | 262.40                  | 400ms      |
|         | 3DH5        | 307.20                  | 400ms      |

CH Mid      3DH1 time slot    =    0.385 \*    (1600/2/79)    \*    31.6    =    123.20 (ms)  
                  3DH3 time slot    =    1.640 \*    (1600/4/79)    \*    31.6    =    262.40 (ms)  
                  3DH5 time slot    =    2.880 \*    (1600/6/79)    \*    31.6    =    307.20 (ms)

| <b>GFSK (1Mbps) for AFH Mode</b>                     |                    |                                |                   |
|--|--------------------|--------------------------------|-------------------|
| <b>Hopping Channel Number</b>                        | <b>PACKET TYPE</b> | <b>Measurement Result (ms)</b> | <b>Limit (ms)</b> |
| 20   | DH5                | 154.40                         | 400               |
| <b><math>\pi/4</math> DQPSK (2Mbps) for AFH Mode</b> |                    |                                |                   |
| <b>Hopping Channel Number</b>                        | <b>PACKET TYPE</b> | <b>Measurement Result (ms)</b> | <b>Limit (ms)</b> |
| 20   | 2DH5               | 153.60                         | 400               |
| <b>8-DPSK (3Mbps) for AFH Mode</b>                   |                    |                                |                   |
| <b>Hopping Channel Number</b>                        | <b>PACKET TYPE</b> | <b>Measurement Result (ms)</b> | <b>Limit (ms)</b> |
| 20   | 3DH5               | 153.60                         | 400               |

Report No.: TMWK2305001499KR

## For GFSK (1Mbps)



Report No.: TMWK2305001499KR

## For $\pi/4$ -DQPSK (2Mbps)



Report No.: TMWK2305001499KR

## For 8-DPSK (3Mbps)





## 4.8 RADIATION BANDEDGE AND SPURIOUS EMISSION

### 4.8.1 Test Limit

FCC according to §15.247(d), §15.209 and §15.205,

IC according to RSS-247 section 5.5, RSS-Gen, Section 8.9 and 8.10

In any 100 kHz bandwidth outside the authorized frequency band, all harmonic and spurious must be least 20 dB below the highest emission level with the authorized frequency band. Radiation emission which fall in the restricted bands must also follow the FCC section 15.209 as below limit in table.

#### Below 30 MHz

| Frequency     | Field Strength (microvolts/m) | Magnetic H-Field (microamperes/m) | Measurement Distance (metres) |
|---------------|-------------------------------|-----------------------------------|-------------------------------|
| 9-490 kHz     | 2,400/F (F in kHz)            | 2,400/F (F in kHz)                | 300                           |
| 490-1,705 kHz | 24,000/F (F in kHz)           | 24,000/F (F in kHz)               | 30                            |
| 1.705-30 MHz  | 30                            | N/A                               | 30                            |

#### Above 30 MHz

| Frequency (MHz) | Field Strength microvolts/m at 3 metres (watts, e.i.r.p.) |              |
|-----------------|---|--------------|
|                 | Transmitters  | Receivers    |
| 30-88           | 100 (3 nW)  | 100 (3 nW)   |
| 88-216          | 150 (6.8 nW)  | 150 (6.8 nW) |
| 216-960         | 200 (12 nW)   | 200 (12 nW)  |
| Above 960       | 500 (75 nW)   | 500 (75 nW)  |

Remark:

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

**RSS-Gen Table 3 and Table 5 – General Field Strength Limits for Transmitters and Receivers at Frequencies Above 30 MHz <sup>(Note)</sup>**

| Frequency (MHz) | Field Strength<br>microvolts/m at 3 metres (watts, e.i.r.p.) |              |
|-----------------|--|--------------|
|                 | Transmitters   | Receivers    |
| 30-88           | 100 (3 nW)   | 100 (3 nW)   |
| 88-216          | 150 (6.8 nW)   | 150 (6.8 nW) |
| 216-960         | 200 (12 nW)  | 200 (12 nW)  |
| Above 960       | 500 (75 nW)  | 500 (75 nW)  |

**Note:** Measurements for compliance with the limits in table 3 may be performed at distances other than 3 metres, in accordance with Section 6.6.

**RSS-Gen Table 6: General Field Strength Limits for Transmitters at Frequencies Below 30 MHz (Transmit)**

| Frequency                 | Magnetic field strength (H-Field) (µA/m) | Measurement Distance (m) |
|---------------------------|--|--------------------------|
| 9-490 kHz <sup>Note</sup> | 6.37/F (F in kHz)                        | 300                      |
| 490-1,705 kHz             | 63.7/F (F in kHz)                        | 30                       |
| 1.705-30 MHz              | 0.08                                     | 30                       |

**Note:** The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

## 4.8.2 Test Procedure

1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10: 2013, and the EUT set in a continuous mode.

2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.

3. Span shall wide enough to full capture the emission measured. The SA from 9kHz to 26.5GHz set to the low, Mid and High channels with the EUT transmit.

Note: No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)

4. The SA setting following :

(1) Below 1G : RBW = 100kHz, VBW  $\geq$  3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.

(2) Above 1G :

(2.1) For Peak measurement : RBW = 1MHz, VBW  $\geq$  3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.

(2.2) For Average measurement : RBW = 1MHz, VBW

·If Duty Cycle  $\geq$  98%, VBW=10Hz.

·If Duty Cycle < 98%, VBW $\geq$ 1/T.

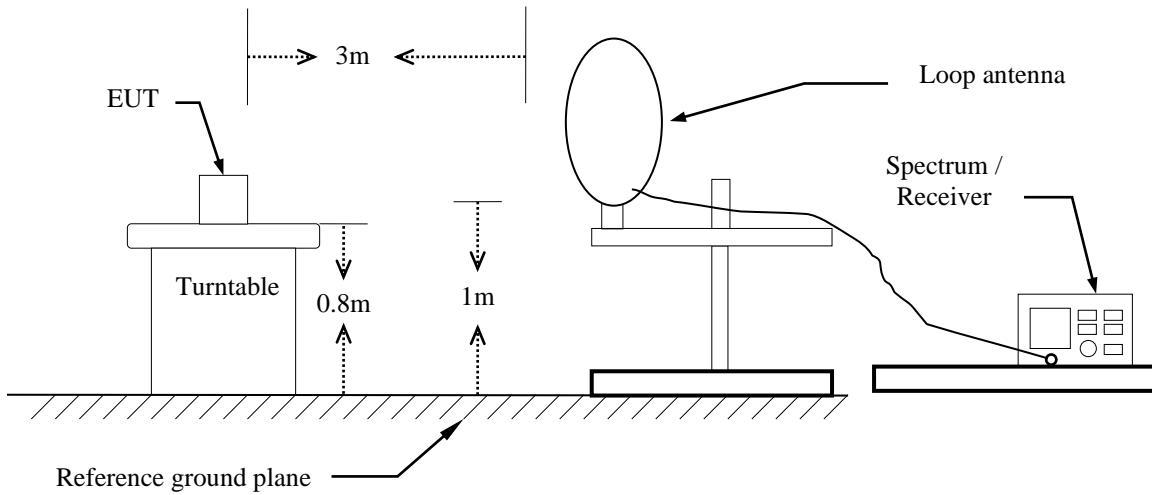
5. Data result

Actual FS=Spectrum Reading Level + Factor

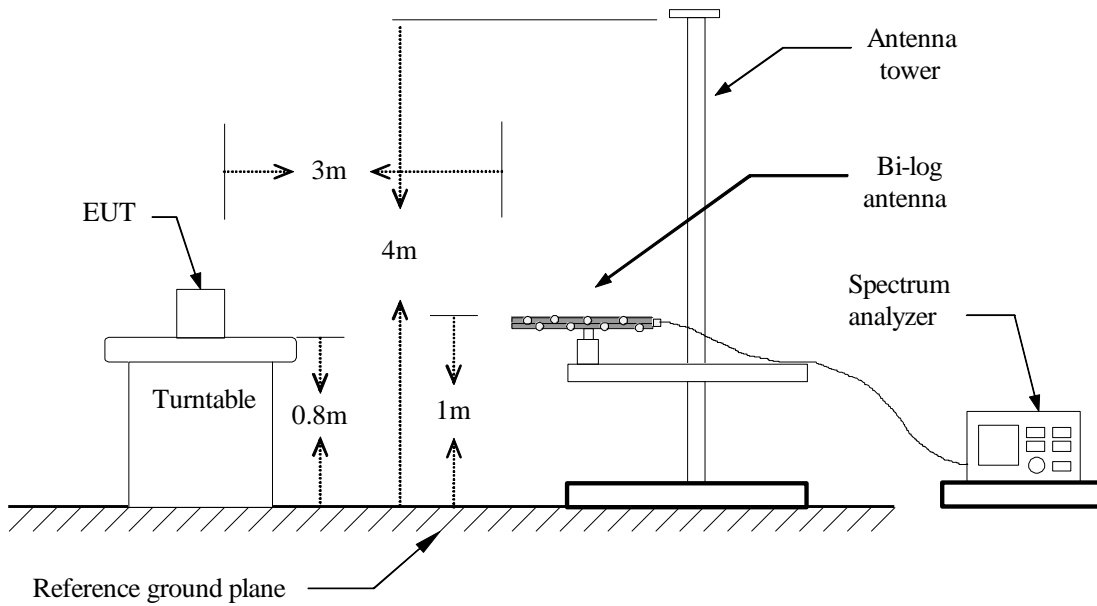
Margin=Actual FS- Limit

## 4.8.3 Test Setup

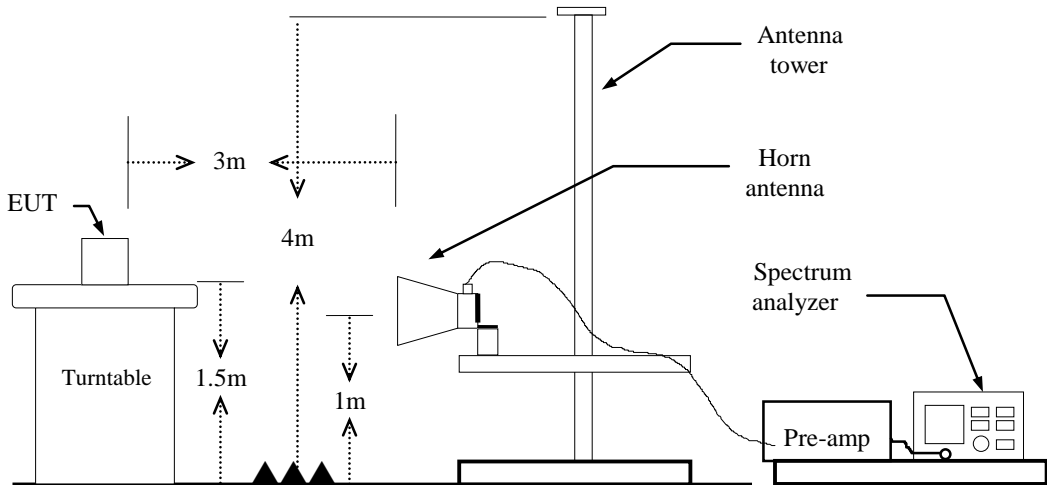
### 9kHz ~ 30MHz



### 30MHz ~ 1GHz



## Above 1 GHz

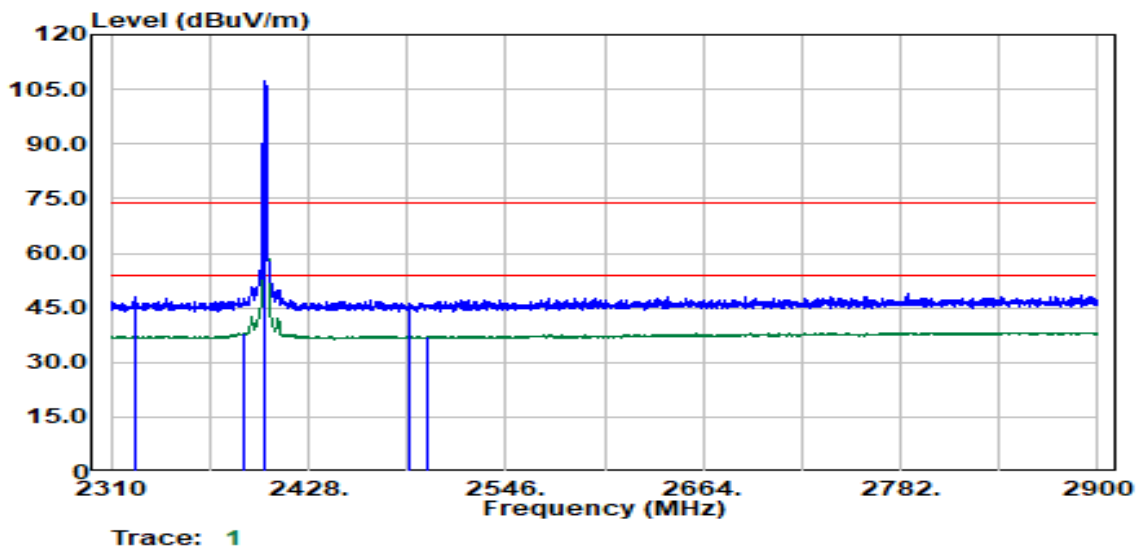


### 4.8.4 Test Result

#### Band Edge Test Data

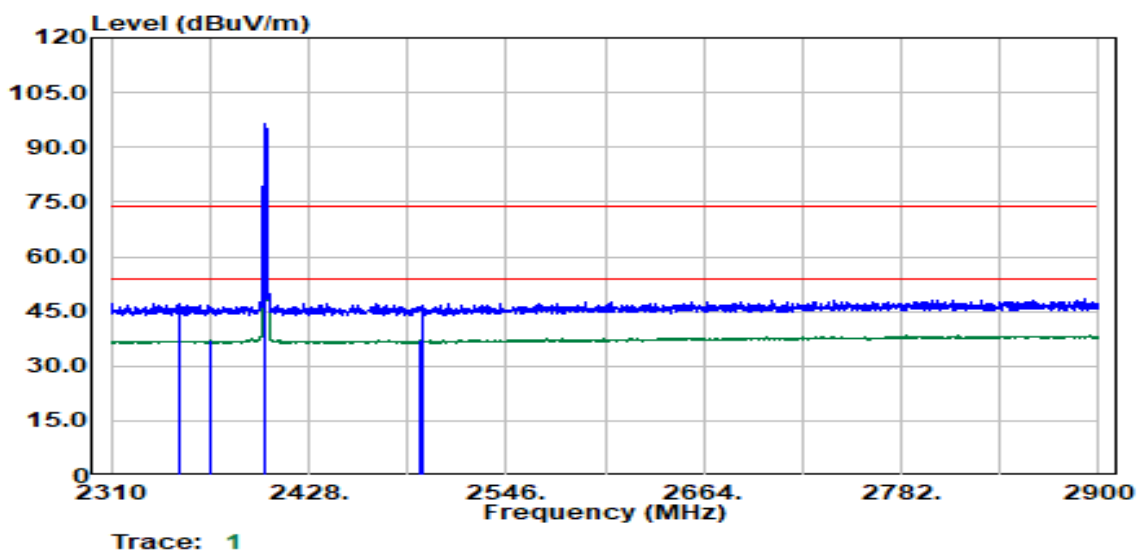
Test Mode: Mode 1 (Dipole Antenna)

|            |                          |               |                 |
|------------|--------------------------|---------------|-----------------|
| Test Mode: | GFSK_BDR-1Mbps<br>Low CH | Temp/Hum      | 22.5(°C)/ 59%RH |
| Test Item  | Band Edge                | Test Date     | May 29, 2023    |
| Polarize   | Vertical                 | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average           |               |                 |



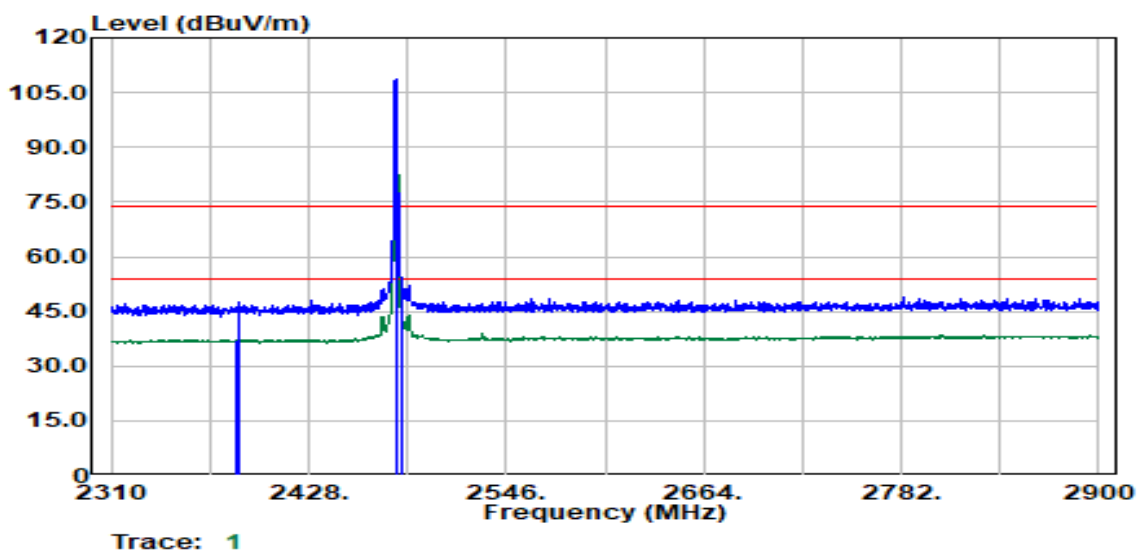
| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBµV) | Factor<br>(dB) | Actual<br>FS<br>(dBµV/m) | Limit<br>@3m<br>(dBµV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 2323.76        | Peak                           | 43.40                                  | 4.66           | 48.06                    | 74.00                    | -25.94         |
| 2389.78        | Average                        | 33.18                                  | 4.80           | 37.99                    | 54.00                    | -16.01         |
| 2402.00        | Peak                           | 102.75                                 | 4.51           | 107.27                   | --                       | --             |
| 2402.00        | Average                        | --                                     | -25.18         | 82.09                    | --                       | --             |
| 2489.08        | Peak                           | 41.75                                  | 4.56           | 46.31                    | 74.00                    | -27.69         |
| 2499.33        | Average                        | 32.64                                  | 4.64           | 37.29                    | 54.00                    | -16.71         |

|            |                          |               |                 |
|------------|--------------------------|---------------|-----------------|
| Test Mode: | GFSK_BDR-1Mbps<br>Low CH | Temp/Hum      | 22.5(°C)/ 59%RH |
| Test Item  | Band Edge                | Test Date     | May 29, 2023    |
| Polarize   | Horizontal               | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average           |               |                 |



| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBμV) | Factor<br>(dB) | Actual<br>FS<br>(dBμV/m) | Limit<br>@3m<br>(dBμV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 2351.52        | Peak                           | 42.42                                  | 4.87           | 47.28                    | 74.00                    | -26.72         |
| 2368.53        | Average                        | 32.26                                  | 4.71           | 36.96                    | 54.00                    | -17.04         |
| 2402.00        | Peak                           | 91.87                                  | 4.51           | 96.38                    | --                       | --             |
| 2402.00        | Average                        |  | -25.18         | 71.2                     | --                       | --             |
| 2495.08        | Average                        | 32.34                                  | 4.60           | 36.94                    | 54.00                    | -17.06         |
| 2495.58        | Peak                           | 41.90                                  | 4.60           | 46.51                    | 74.00                    | -27.49         |

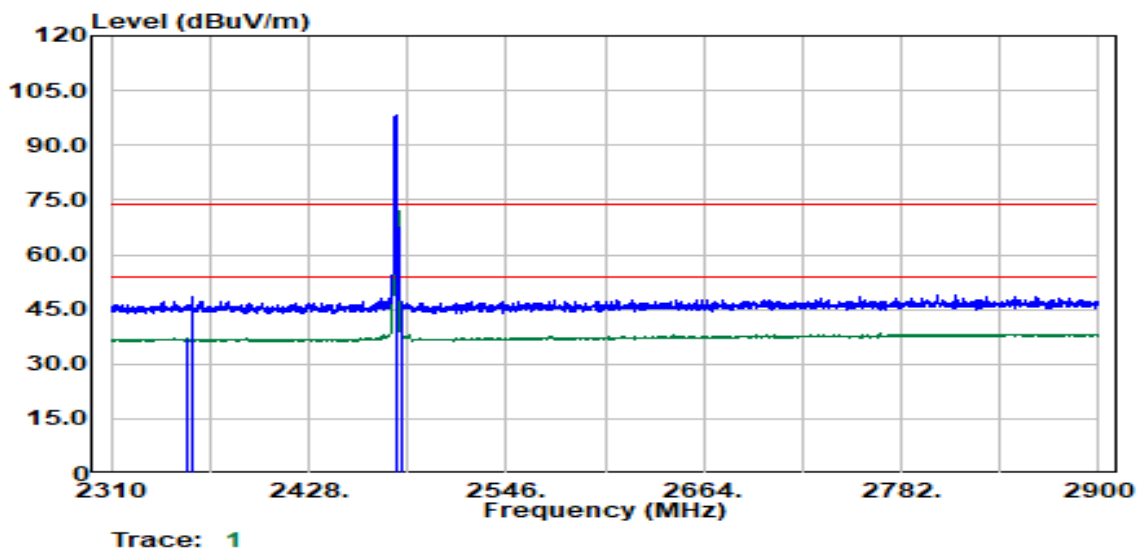
|            |                           |               |                 |
|------------|---------------------------|---------------|-----------------|
| Test Mode: | GFSK_BDR-1Mbps<br>High CH | Temp/Hum      | 22.5(°C)/ 59%RH |
| Test Item  | Band Edge                 | Test Date     | May 29, 2023    |
| Polarize   | Vertical                  | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average            |               |                 |



| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBμV) | Factor<br>(dB) | Actual<br>FS<br>(dBμV/m) | Limit<br>@3m<br>(dBμV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 2384.03        | Average                        | 32.36                                  | 4.80           | 37.16                    | 54.00                    | -16.84         |
| 2386.28        | Peak                           | 42.68                                  | 4.80           | 47.48                    | 74.00                    | -26.52         |
| 2480.00        | Peak                           | 104.23                                 | 4.65           | 108.87                   | --                       | --             |
| 2480.00        | Average                        |  | -25.18         | 83.69                    | --                       | --             |
| 2483.57        | Peak                           | 48.91                                  | 4.61           | 53.52                    | 74.00                    | -20.48         |
| 2483.57        | Average                        | 39.52                                  | 4.61           | 44.13                    | 54.00                    | -9.87          |

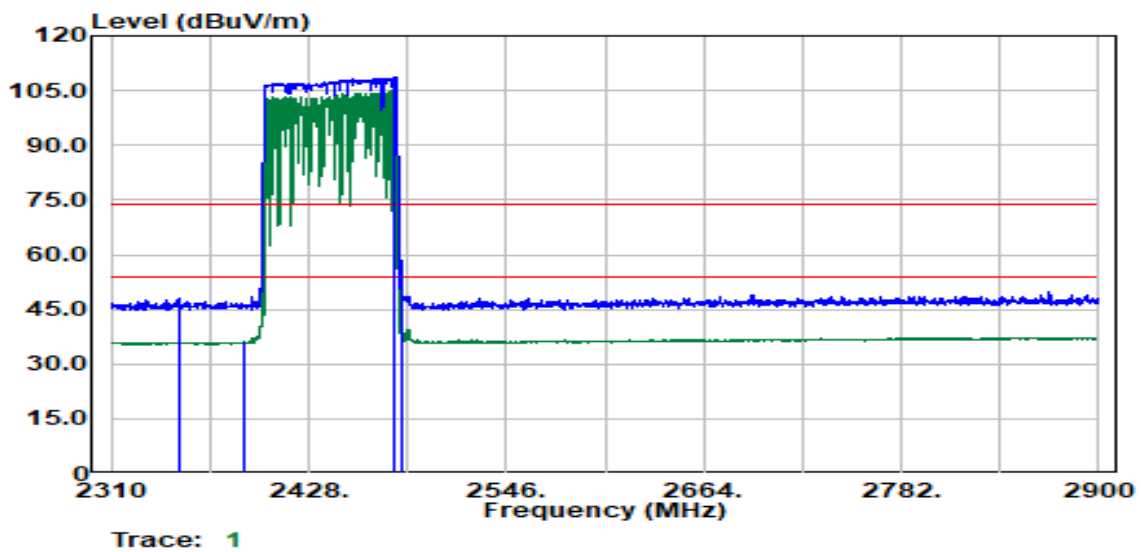


|            |                           |               |                 |
|------------|---------------------------|---------------|-----------------|
| Test Mode: | GFSK_BDR-1Mbps<br>High CH | Temp/Hum      | 22.5(°C)/ 59%RH |
| Test Item  | Band Edge                 | Test Date     | May 29, 2023    |
| Polarize   | Horizontal                | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average            |               |                 |



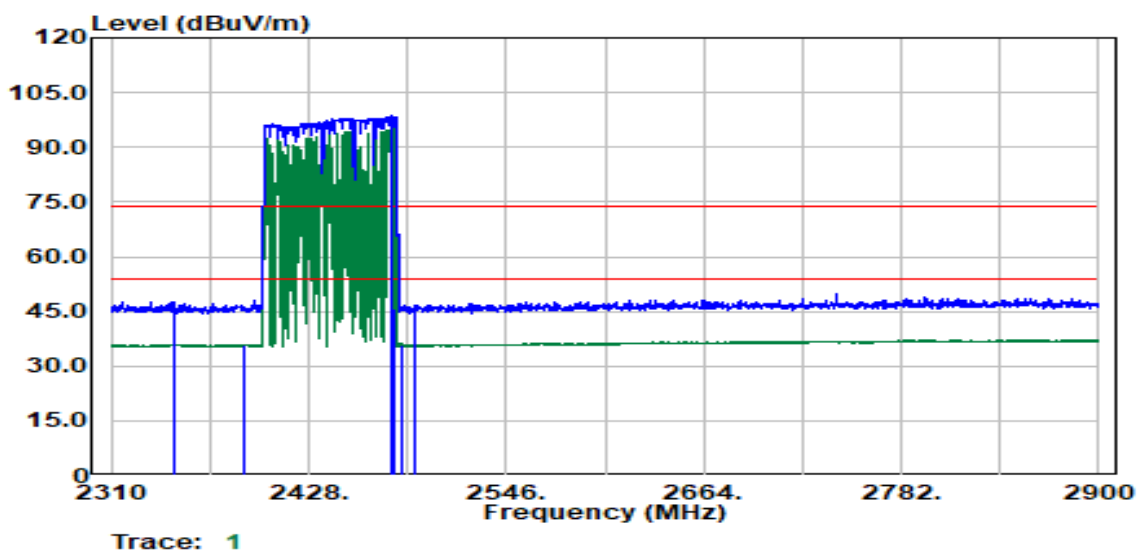
| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBμV) | Factor<br>(dB) | Actual<br>FS<br>(dBμV/m) | Limit<br>@3m<br>(dBμV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 2355.52        | Average                        | 32.25                                  | 4.83           | 37.07                    | 54.00                    | -16.93         |
| 2358.02        | Peak                           | 43.47                                  | 4.80           | 48.27                    | 74.00                    | -25.73         |
| 2480.00        | Peak                           | 93.77                                  | 4.65           | 98.41                    | --                       | --             |
| 2480.00        | Average                        |  | -25.18         | 73.23                    | --                       | --             |
| 2483.82        | Peak                           | 42.02                                  | 4.61           | 46.63                    | 74.00                    | -27.37         |
| 2483.82        | Average                        | 33.35                                  | 4.61           | 37.96                    | 54.00                    | -16.04         |

|            |                        |               |                 |
|------------|------------------------|---------------|-----------------|
| Test Mode: | GFSK_BDR-1Mbps Hopping | Temp/Hum      | 24.3(°C)/ 60%RH |
| Test Item  | Band Edge              | Test Date     | May 30, 2023    |
| Polarize   | Vertical               | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average         |               |                 |



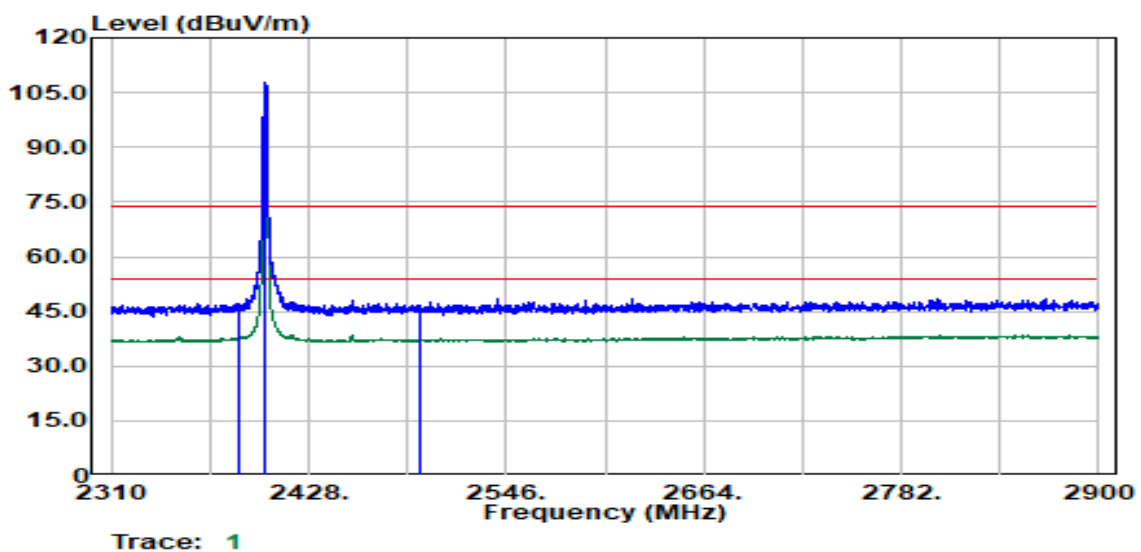
| Freq. (MHz) | Detector Mode (PK/QP/AV) | Spectrum Reading Level (dBμV) | Factor (dB) | Actual FS (dBμV/m) | Limit @3m (dBμV/m) | Margin (dB) |
|-------------|--------------------------|-------------------------------|-------------|--------------------|--------------------|-------------|
| 2350.77     | Peak                     | 43.01                         | 4.87        | 47.88              | 74.00              | -26.12      |
| 2389.53     | Average                  | 31.31                         | 4.80        | 36.11              | 54.00              | -17.89      |
| 2479.07     | Peak                     | 104.20                        | 4.66        | 108.85             | --                 | --          |
| 2479.07     | Average                  |                               | -25.18      | 83.67              | --                 | --          |
| 2483.57     | Peak                     | 53.78                         | 4.61        | 58.39              | 74.00              | -15.61      |
| 2483.57     | Average                  | 35.49                         | 4.61        | 40.10              | 54.00              | -13.90      |

|            |                        |               |                 |
|------------|------------------------|---------------|-----------------|
| Test Mode: | GFSK_BDR-1Mbps Hopping | Temp/Hum      | 24.3(°C)/ 60%RH |
| Test Item  | Band Edge              | Test Date     | May 30, 2023    |
| Polarize   | Horizontal             | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average         |               |                 |



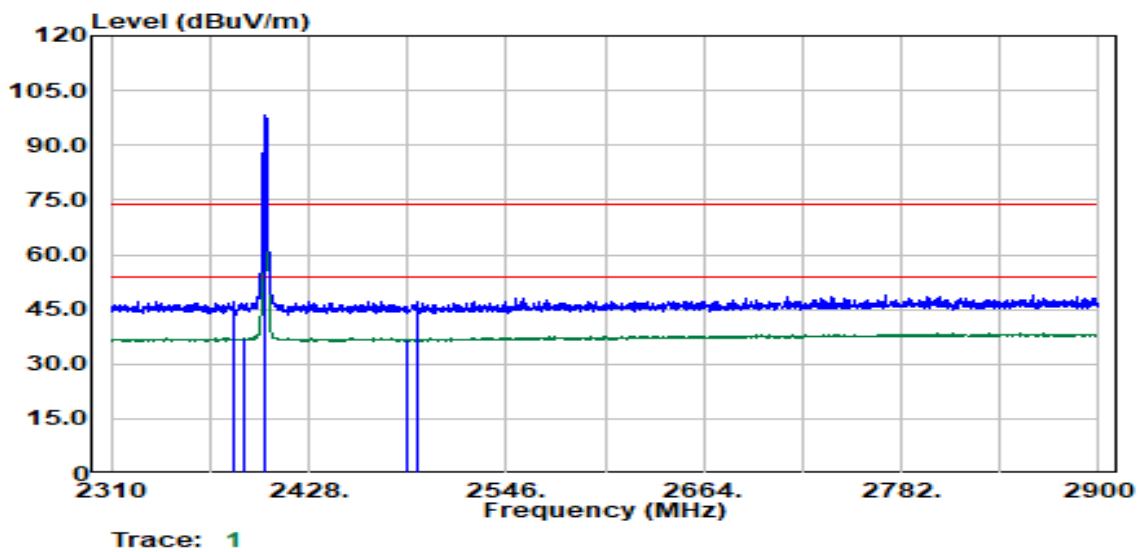
| Freq. (MHz) | Detector Mode (PK/QP/AV) | Spectrum Reading Level (dBμV) | Factor (dB) | Actual FS (dBμV/m) | Limit @3m (dBμV/m) | Margin (dB) |
|-------------|--------------------------|-------------------------------|-------------|--------------------|--------------------|-------------|
| 2347.02     | Peak                     | 42.77                         | 4.85        | 47.62              | 74.00              | -26.38      |
| 2388.78     | Average                  | 31.07                         | 4.80        | 35.87              | 54.00              | -18.13      |
| 2477.32     | Peak                     | 93.95                         | 4.67        | 98.62              | --                 | --          |
| 2479.07     | Average                  |                               | -25.18      | 73.44              | --                 | --          |
| 2483.82     | Average                  | 31.20                         | 4.61        | 35.81              | 54.00              | -18.19      |
| 2492.08     | Peak                     | 42.16                         | 4.57        | 46.73              | 74.00              | -27.27      |

|            |                           |               |                 |
|------------|---------------------------|---------------|-----------------|
| Test Mode: | 8DPSK_EDR-3Mbps<br>Low CH | Temp/Hum      | 24.3(°C)/ 60%RH |
| Test Item  | Band Edge                 | Test Date     | May 30, 2023    |
| Polarize   | Vertical                  | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average            |               |                 |



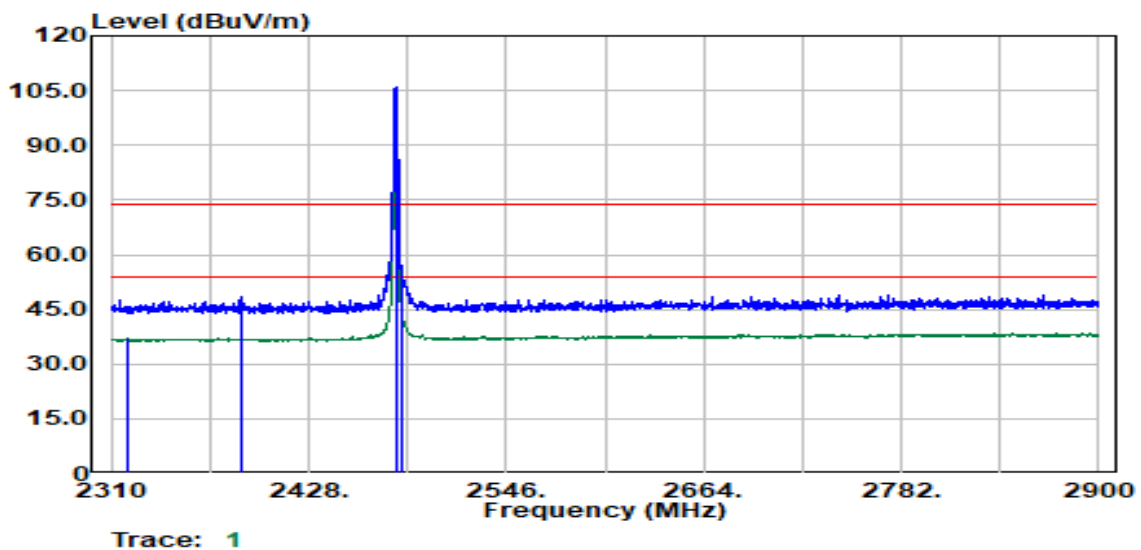
| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBμV) | Factor<br>(dB) | Actual<br>FS<br>(dBμV/m) | Limit<br>@3m<br>(dBμV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 2386.03        | Peak                           | 42.45                                  | 4.80           | 47.25                    | 74.00                    | -26.75         |
| 2386.53        | Average                        | 34.11                                  | 4.80           | 38.91                    | 54.00                    | -15.09         |
| 2402.00        | Peak                           | 103.44                                 | 4.51           | 107.95                   | --                       | --             |
| 2402.00        | Average                        | --                                     | -24.87         | 83.08                    | --                       | --             |
| 2494.83        | Peak                           | 42.19                                  | 4.60           | 46.78                    | 74.00                    | -27.22         |
| 2494.83        | Average                        | 32.73                                  | 4.60           | 37.32                    | 54.00                    | -16.68         |

|            |                           |               |                 |
|------------|---------------------------|---------------|-----------------|
| Test Mode: | 8DPSK_EDR-3Mbps<br>Low CH | Temp/Hum      | 24.3(°C)/ 60%RH |
| Test Item  | Band Edge                 | Test Date     | May 30, 2023    |
| Polarize   | Horizontal                | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average            |               |                 |



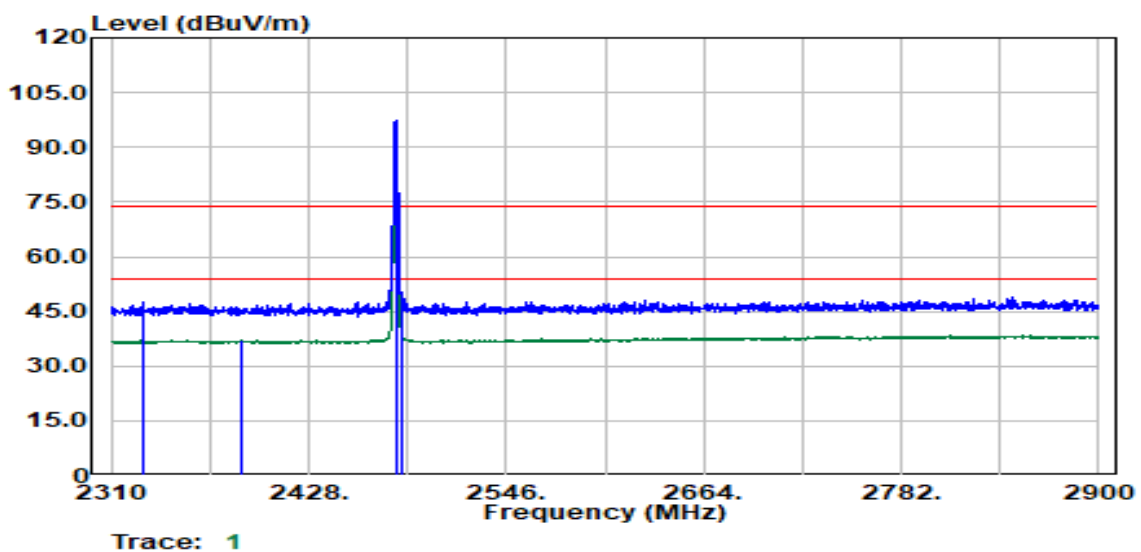
| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBμV) | Factor<br>(dB) | Actual<br>FS<br>(dBμV/m) | Limit<br>@3m<br>(dBμV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 2383.03        | Peak                           | 42.40                                  | 4.80           | 47.20                    | 74.00                    | -26.80         |
| 2389.03        | Average                        | 32.31                                  | 4.80           | 37.12                    | 54.00                    | -16.88         |
| 2402.00        | Peak                           | 93.68                                  | 4.51           | 98.19                    | --                       | --             |
| 2402.00        | Average                        | --                                     | -24.87         | 73.32                    | --                       | --             |
| 2486.33        | Average                        | 32.26                                  | 4.58           | 36.85                    | 54.00                    | -17.15         |
| 2493.08        | Peak                           | 42.53                                  | 4.58           | 47.11                    | 74.00                    | -26.89         |

|            |                            |               |                 |
|------------|----------------------------|---------------|-----------------|
| Test Mode: | 8DPSK_EDR-3Mbps<br>High CH | Temp/Hum      | 22.5(°C)/ 59%RH |
| Test Item  | Band Edge                  | Test Date     | May 29, 2023    |
| Polarize   | Vertical                   | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average             |               |                 |



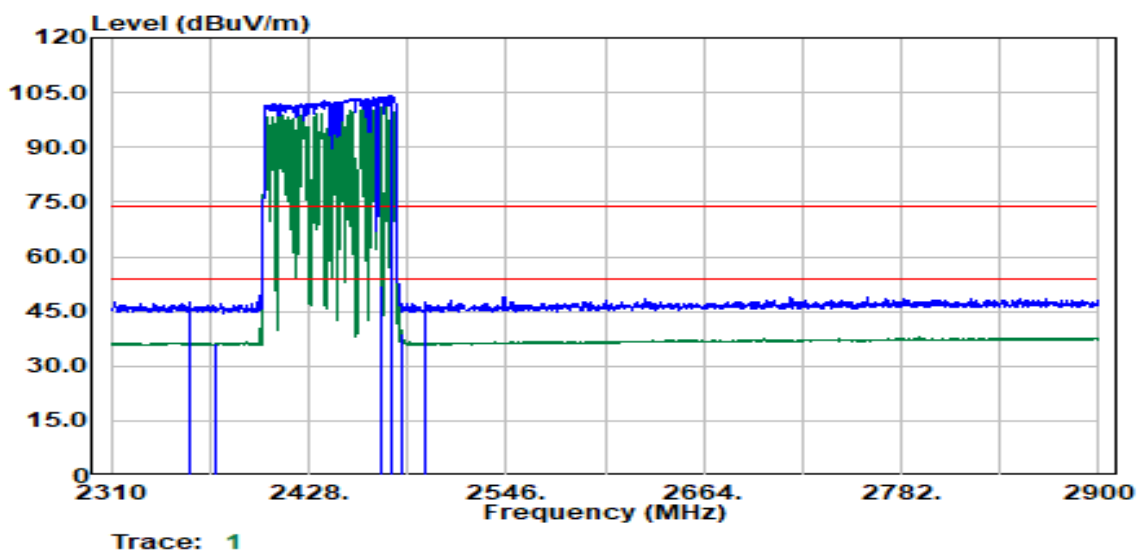
| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBμV) | Factor<br>(dB) | Actual<br>FS<br>(dBμV/m) | Limit<br>@3m<br>(dBμV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 2320.50        | Average                        | 32.35                                  | 4.66           | 37.01                    | 54.00                    | -16.99         |
| 2388.53        | Peak                           | 43.58                                  | 4.80           | 48.38                    | 74.00                    | -25.62         |
| 2480.00        | Peak                           | 101.25                                 | 4.65           | 105.89                   | --                       | --             |
| 2480.00        | Average                        | --                                     | -24.87         | 81.02                    | --                       | --             |
| 2483.57        | Average                        | 39.92                                  | 4.61           | 44.54                    | 54.00                    | -9.46          |
| 2484.07        | Peak                           | 51.41                                  | 4.61           | 56.01                    | 74.00                    | -17.99         |

|            |                            |               |                 |
|------------|----------------------------|---------------|-----------------|
| Test Mode: | 8DPSK_EDR-3Mbps<br>High CH | Temp/Hum      | 22.5(°C)/ 59%RH |
| Test Item  | Band Edge                  | Test Date     | May 29, 2023    |
| Polarize   | Horizontal                 | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average             |               |                 |



| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBμV) | Factor<br>(dB) | Actual<br>FS<br>(dBμV/m) | Limit<br>@3m<br>(dBμV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 2329.51        | Peak                           | 42.67                                  | 4.66           | 47.33                    | 74.00                    | -26.67         |
| 2388.28        | Average                        | 32.28                                  | 4.80           | 37.09                    | 54.00                    | -16.91         |
| 2480.00        | Peak                           | 92.92                                  | 4.65           | 97.56                    | --                       | --             |
| 2480.00        | Average                        | --                                     | -24.87         | 72.69                    | --                       | --             |
| 2483.57        | Peak                           | 43.85                                  | 4.61           | 48.46                    | 74.00                    | -25.54         |
| 2483.57        | Average                        | 34.36                                  | 4.61           | 38.97                    | 54.00                    | -15.03         |

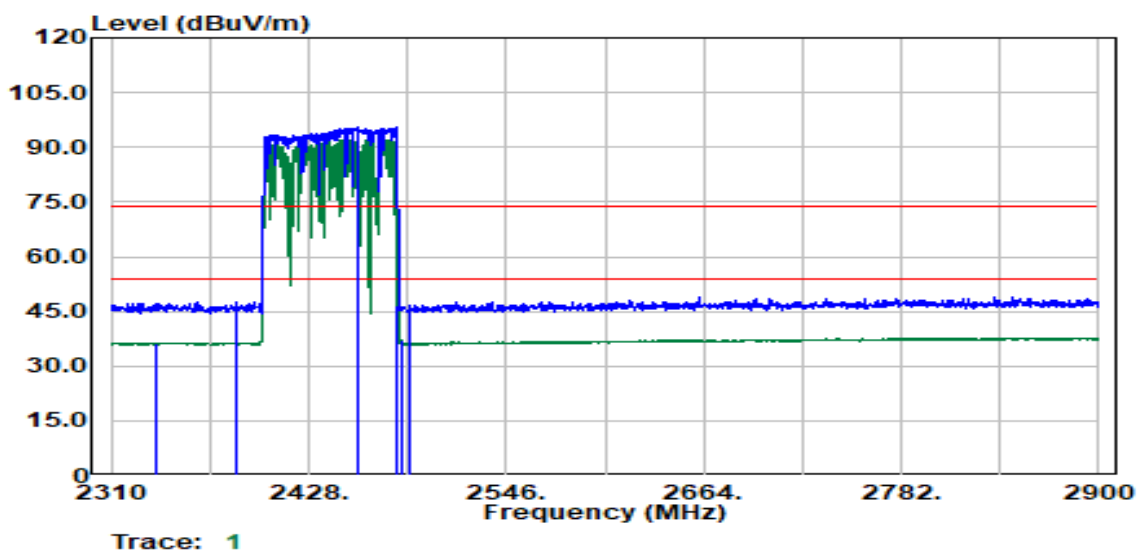
|            |                         |               |                 |
|------------|-------------------------|---------------|-----------------|
| Test Mode: | 8DPSK_EDR-3Mbps Hopping | Temp/Hum      | 24.3(°C)/ 60%RH |
| Test Item  | Band Edge               | Test Date     | May 30, 2023    |
| Polarize   | Vertical                | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average          |               |                 |



| Freq. (MHz) | Detector Mode (PK/QP/AV) | Spectrum Reading Level (dBμV) | Factor (dB) | Actual FS (dBμV/m) | Limit @3m (dBμV/m) | Margin (dB) |
|-------------|--------------------------|-------------------------------|-------------|--------------------|--------------------|-------------|
| 2356.77     | Peak                     | 42.86                         | 4.82        | 47.68              | 74.00              | -26.32      |
| 2373.03     | Average                  | 31.68                         | 4.72        | 36.40              | 54.00              | -17.60      |
| 2471.07     | Average                  | --                            | -24.87      | 79.45              | --                 | --          |
| 2477.07     | Peak                     | 99.65                         | 4.67        | 104.32             | --                 | --          |
| 2484.07     | Average                  | 34.31                         | 4.61        | 38.92              | 54.00              | -15.08      |
| 2498.33     | Peak                     | 42.70                         | 4.63        | 47.34              | 74.00              | -26.66      |



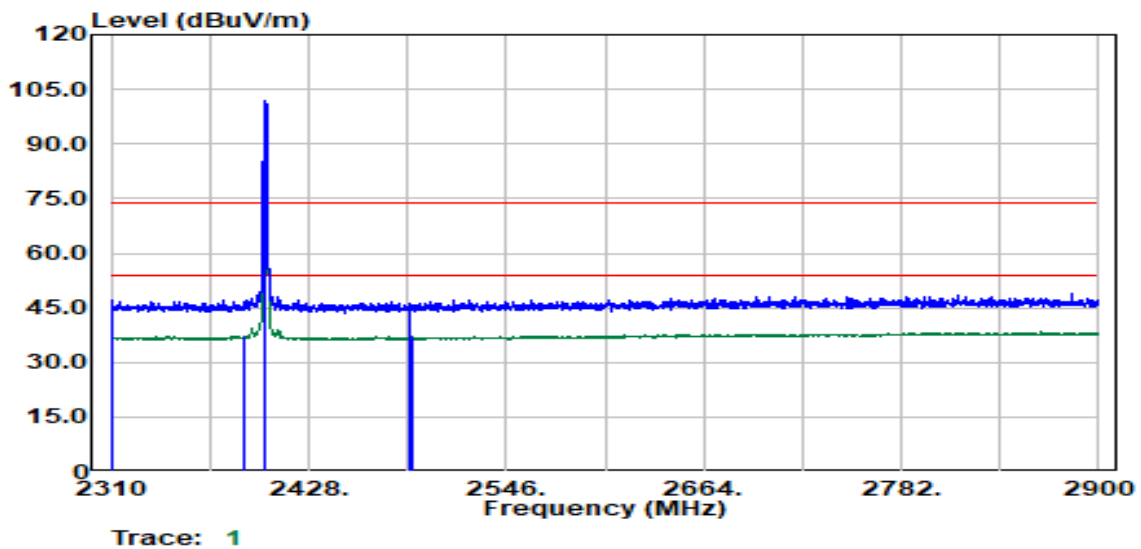
|            |                         |               |                 |
|------------|-------------------------|---------------|-----------------|
| Test Mode: | 8DPSK_EDR-3Mbps Hopping | Temp/Hum      | 24.3(°C)/ 60%RH |
| Test Item  | Band Edge               | Test Date     | May 30, 2023    |
| Polarize   | Horizontal              | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average          |               |                 |



| Freq. (MHz) | Detector Mode (PK/QP/AV) | Spectrum Reading Level (dBµV) | Factor (dB) | Actual FS (dBµV/m) | Limit @3m (dBµV/m) | Margin (dB) |
|-------------|--------------------------|-------------------------------|-------------|--------------------|--------------------|-------------|
| 2337.26     | Average                  | 31.70                         | 4.74        | 36.44              | 54.00              | -17.56      |
| 2384.78     | Peak                     | 42.71                         | 4.80        | 47.51              | 74.00              | -26.49      |
| 2457.31     | Peak                     | 90.96                         | 4.61        | 95.58              | --                 | --          |
| 2480.00     | Average                  | --                            | -24.87      | 70.71              | --                 | --          |
| 2484.07     | Average                  | 32.39                         | 4.61        | 37.00              | 54.00              | -17.00      |
| 2487.83     | Peak                     | 42.00                         | 4.57        | 46.56              | 74.00              | -27.44      |

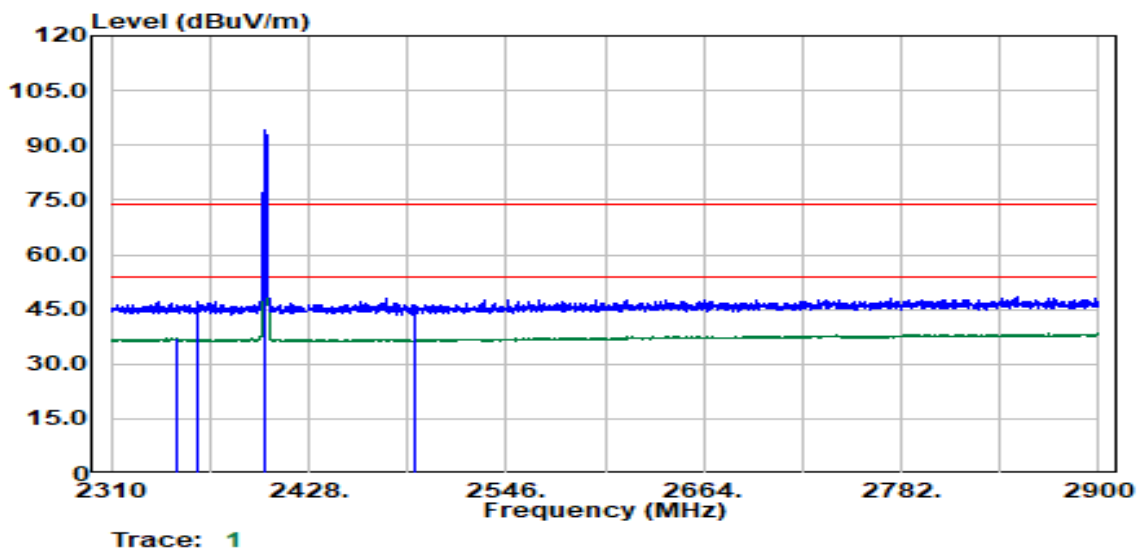
**Test Mode: Mode 2 (PIFA Antenna)**

|            |                          |               |                 |
|------------|--------------------------|---------------|-----------------|
| Test Mode: | GFSK_BDR-1Mbps<br>Low CH | Temp/Hum      | 24.4(°C)/ 59%RH |
| Test Item  | Band Edge                | Test Date     | June 5, 2023    |
| Polarize   | Vertical                 | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average           |               |                 |



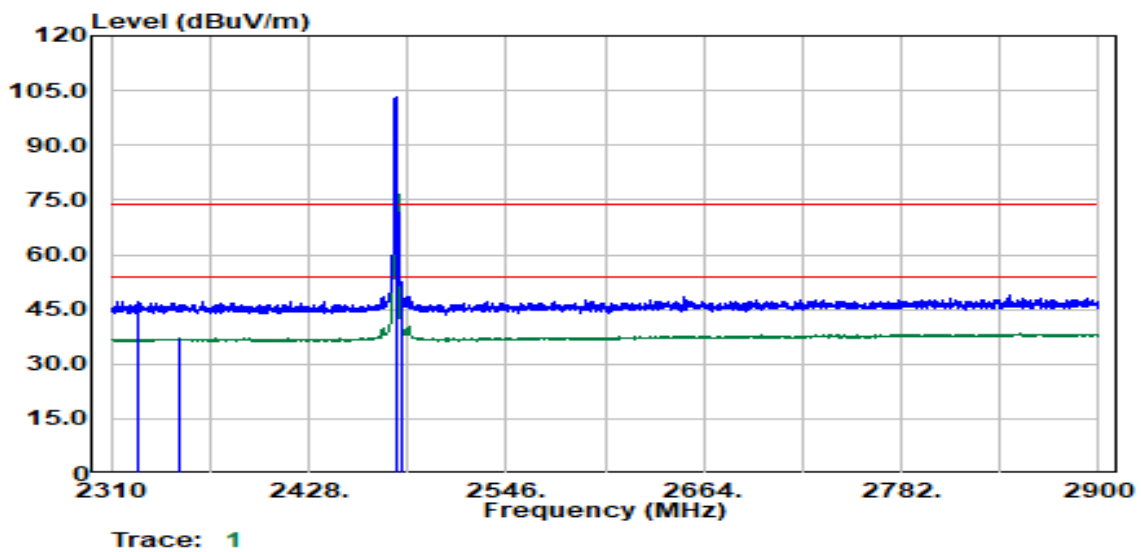
| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBµV) | Factor<br>(dB) | Actual<br>FS<br>(dBµV/m) | Limit<br>@3m<br>(dBµV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 2311.25        | Peak                           | 42.47                                  | 4.74           | 47.21                    | 74.00                    | -26.79         |
| 2389.28        | Average                        | 32.36                                  | 4.80           | 37.16                    | 54.00                    | -16.84         |
| 2402.00        | Peak                           | 97.57                                  | 4.51           | 102.08                   | --                       | --             |
| 2402.00        | Average                        | --                                     | -25.18         | 76.9                     | --                       | --             |
| 2488.83        | Peak                           | 41.69                                  | 4.56           | 46.25                    | 74.00                    | -27.75         |
| 2490.58        | Average                        | 32.38                                  | 4.55           | 36.93                    | 54.00                    | -17.07         |

|            |                          |               |                 |
|------------|--------------------------|---------------|-----------------|
| Test Mode: | GFSK_BDR-1Mbps<br>Low CH | Temp/Hum      | 24.4(°C)/ 59%RH |
| Test Item  | Band Edge                | Test Date     | June 5, 2023    |
| Polarize   | Horizontal               | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average           |               |                 |



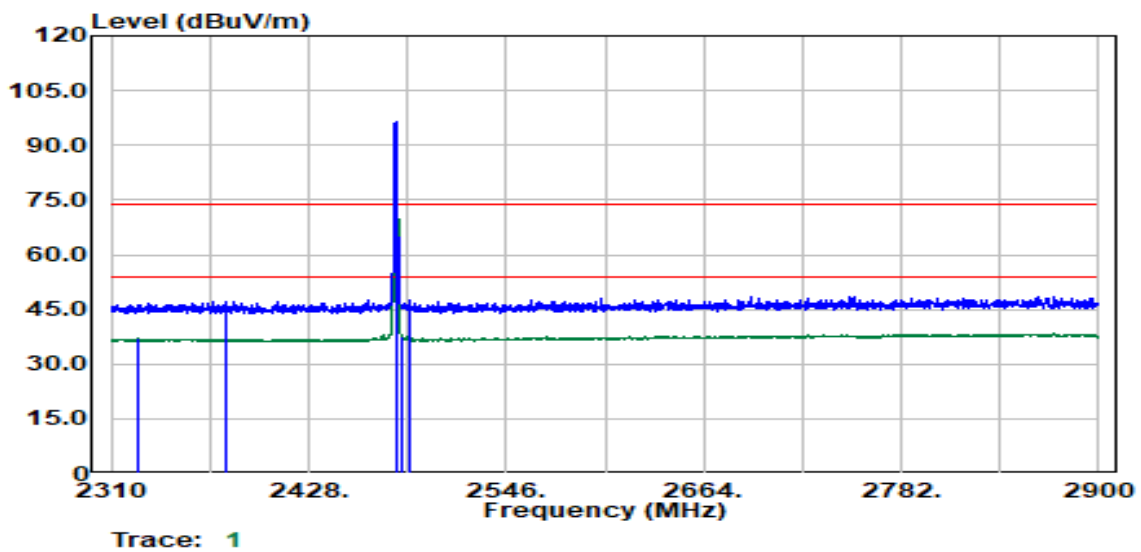
| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBμV) | Factor<br>(dB) | Actual<br>FS<br>(dBμV/m) | Limit<br>@3m<br>(dBμV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 2349.27        | Average                        | 32.12                                  | 4.87           | 36.99                    | 54.00                    | -17.01         |
| 2361.52        | Peak                           | 42.14                                  | 4.77           | 46.91                    | 74.00                    | -27.09         |
| 2402.00        | Peak                           | 89.53                                  | 4.51           | 94.04                    | --                       | --             |
| 2402.00        | Average                        | --                                     | -25.18         | 68.86                    | --                       | --             |
| 2491.08        | Peak                           | 41.72                                  | 4.56           | 46.28                    | 74.00                    | -27.72         |
| 2491.58        | Average                        | 32.31                                  | 4.56           | 36.87                    | 54.00                    | -17.13         |

|            |                           |               |                 |
|------------|---------------------------|---------------|-----------------|
| Test Mode: | GFSK_BDR-1Mbps<br>High CH | Temp/Hum      | 24.4(°C)/ 59%RH |
| Test Item  | Band Edge                 | Test Date     | June 5, 2023    |
| Polarize   | Vertical                  | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average            |               |                 |



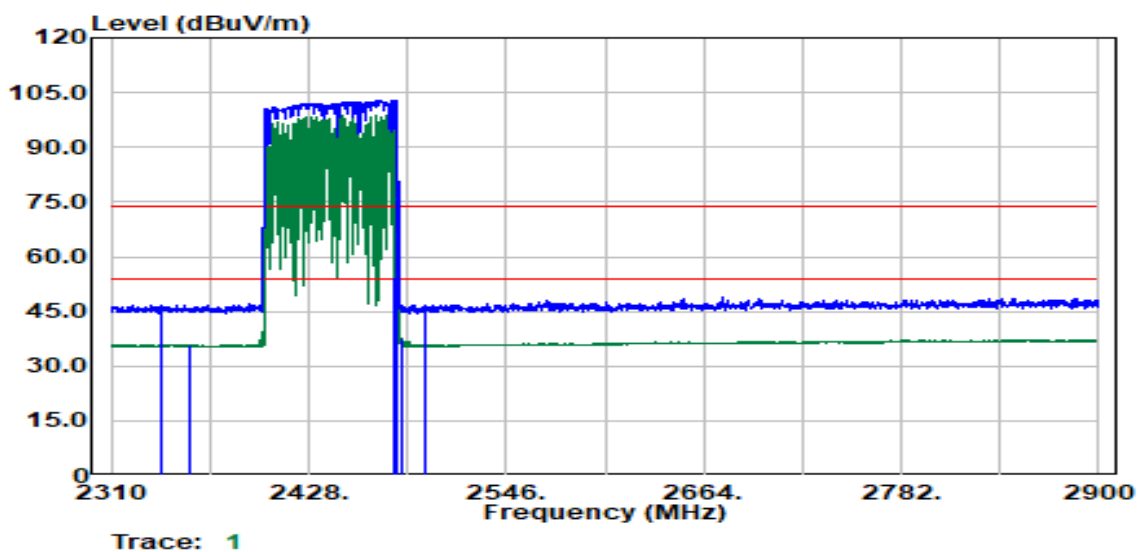
| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBμV) | Factor<br>(dB) | Actual<br>FS<br>(dBμV/m) | Limit<br>@3m<br>(dBμV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 2326.51        | Peak                           | 42.58                                  | 4.66           | 47.24                    | 74.00                    | -26.76         |
| 2350.27        | Average                        | 32.08                                  | 4.88           | 36.96                    | 54.00                    | -17.04         |
| 2480.00        | Peak                           | 98.42                                  | 4.65           | 103.07                   | --                       | --             |
| 2480.00        | Average                        | --                                     | -25.18         | 77.89                    | --                       | --             |
| 2483.57        | Average                        | 35.91                                  | 4.61           | 40.52                    | 54.00                    | -13.48         |
| 2484.07        | Peak                           | 44.76                                  | 4.61           | 49.37                    | 74.00                    | -24.63         |

|            |                           |               |                 |
|------------|---------------------------|---------------|-----------------|
| Test Mode: | GFSK_BDR-1Mbps<br>High CH | Temp/Hum      | 24.4(°C)/ 59%RH |
| Test Item  | Band Edge                 | Test Date     | June 5, 2023    |
| Polarize   | Horizontal                | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average            |               |                 |



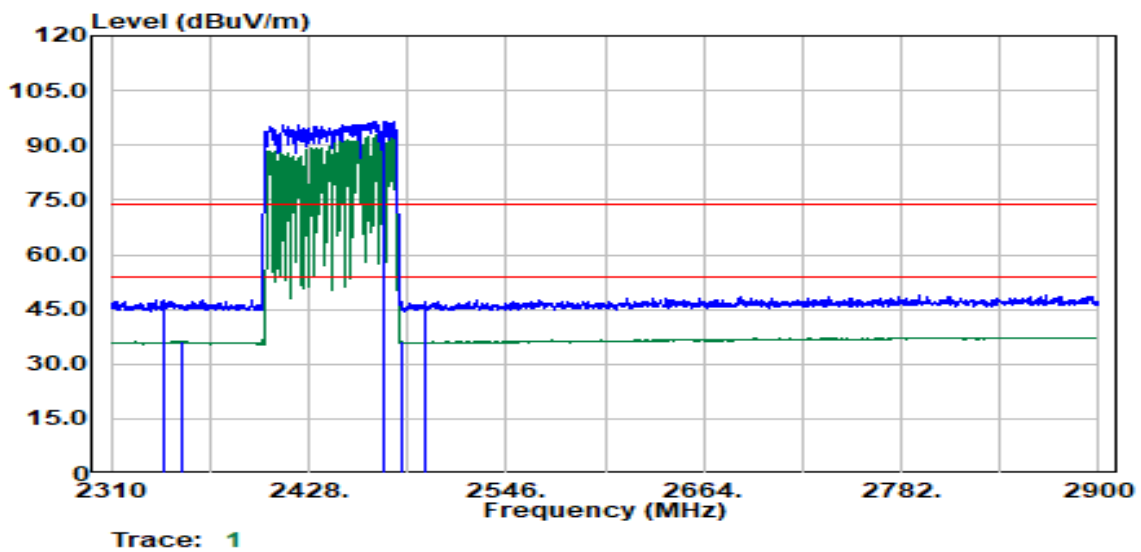
| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBµV) | Factor<br>(dB) | Actual<br>FS<br>(dBµV/m) | Limit<br>@3m<br>(dBµV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 2326.76        | Average                        | 32.35                                  | 4.66           | 37.01                    | 54.00                    | -16.99         |
| 2378.03        | Peak                           | 42.43                                  | 4.78           | 47.21                    | 74.00                    | -26.79         |
| 2480.00        | Peak                           | 91.63                                  | 4.65           | 96.27                    | --                       | --             |
| 2480.00        | Average                        | --                                     | -25.18         | 71.09                    | --                       | --             |
| 2483.82        | Average                        | 32.99                                  | 4.61           | 37.59                    | 54.00                    | -16.41         |
| 2488.08        | Peak                           | 43.04                                  | 4.57           | 47.60                    | 74.00                    | -26.40         |

|            |                        |               |                 |
|------------|------------------------|---------------|-----------------|
| Test Mode: | GFSK_BDR-1Mbps Hopping | Temp/Hum      | 24.4(°C)/ 59%RH |
| Test Item  | Band Edge              | Test Date     | June 5, 2023    |
| Polarize   | Vertical               | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average         |               |                 |



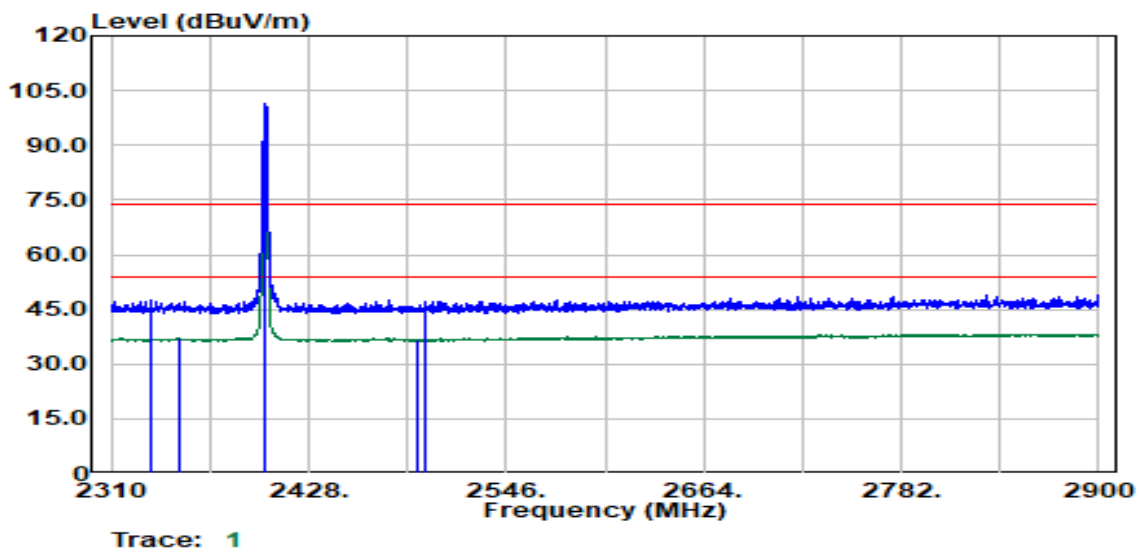
| Freq. (MHz) | Detector Mode (PK/QP/AV) | Spectrum Reading Level (dBμV) | Factor (dB) | Actual FS (dBμV/m) | Limit @3m (dBμV/m) | Margin (dB) |
|-------------|--------------------------|-------------------------------|-------------|--------------------|--------------------|-------------|
| 2340.01     | Peak                     | 42.05                         | 4.77        | 46.82              | 74.00              | -27.18      |
| 2357.02     | Average                  | 31.02                         | 4.81        | 35.83              | 54.00              | -18.17      |
| 2478.82     | Average                  | --                            | -25.18      | 77.83              | --                 | --          |
| 2480.00     | Peak                     | 98.37                         | 4.65        | 103.01             | --                 | --          |
| 2483.57     | Average                  | 32.87                         | 4.61        | 37.48              | 54.00              | -16.52      |
| 2497.83     | Peak                     | 42.08                         | 4.63        | 46.70              | 74.00              | -27.30      |

|            |                        |               |                 |
|------------|------------------------|---------------|-----------------|
| Test Mode: | GFSK_BDR-1Mbps Hopping | Temp/Hum      | 24.4(°C)/ 59%RH |
| Test Item  | Band Edge              | Test Date     | June 5, 2023    |
| Polarize   | Horizontal             | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average         |               |                 |



| Freq. (MHz) | Detector Mode (PK/QP/AV) | Spectrum Reading Level (dBμV) | Factor (dB) | Actual FS (dBμV/m) | Limit @3m (dBμV/m) | Margin (dB) |
|-------------|--------------------------|-------------------------------|-------------|--------------------|--------------------|-------------|
| 2340.76     | Peak                     | 42.85                         | 4.78        | 47.63              | 74.00              | -26.37      |
| 2353.02     | Average                  | 31.33                         | 4.85        | 36.18              | 54.00              | -17.82      |
| 2473.07     | Peak                     | 91.78                         | 4.71        | 96.50              | --                 | --          |
| 2473.07     | Average                  | --                            | -25.18      | 71.32              | --                 | --          |
| 2483.82     | Average                  | 31.57                         | 4.61        | 36.18              | 54.00              | -17.82      |
| 2497.83     | Peak                     | 42.25                         | 4.63        | 46.87              | 74.00              | -27.13      |

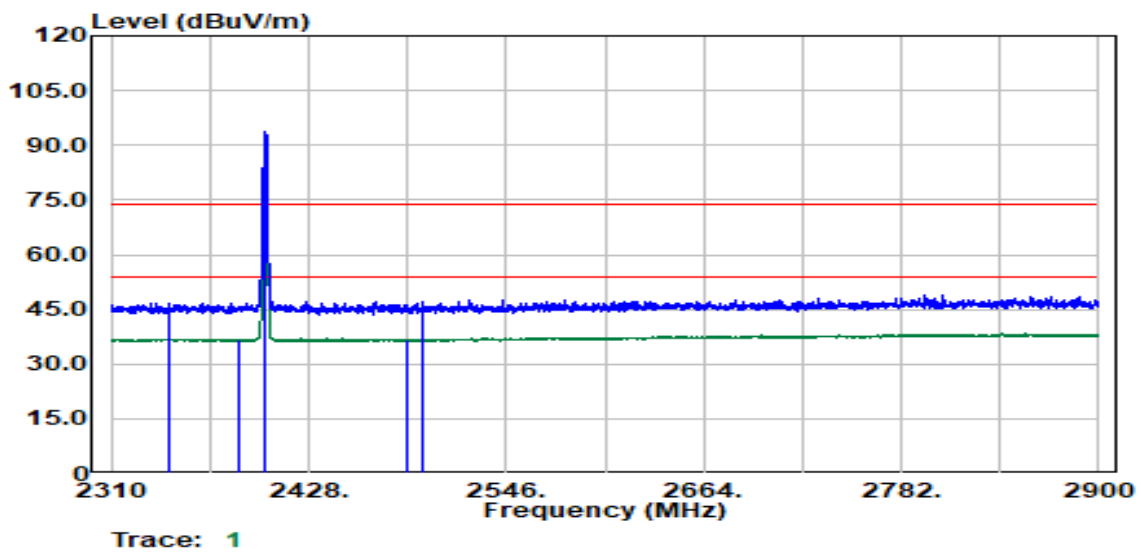
|            |                           |               |                 |
|------------|---------------------------|---------------|-----------------|
| Test Mode: | 8DPSK_EDR-3Mbps<br>Low CH | Temp/Hum      | 24.4(°C)/ 59%RH |
| Test Item  | Band Edge                 | Test Date     | June 5, 2023    |
| Polarize   | Vertical                  | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average            |               |                 |



| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBμV) | Factor<br>(dB) | Actual<br>FS<br>(dBμV/m) | Limit<br>@3m<br>(dBμV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 2334.01        | Peak                           | 42.97                                  | 4.71           | 47.67                    | 74.00                    | -26.33         |
| 2350.27        | Average                        | 32.23                                  | 4.88           | 37.11                    | 54.00                    | -16.89         |
| 2402.00        | Peak                           | 96.85                                  | 4.51           | 101.36                   | --                       | --             |
| 2402.00        | Average                        | --                                     | -24.87         | 76.49                    | --                       | --             |
| 2492.58        | Average                        | 32.26                                  | 4.57           | 36.83                    | 54.00                    | -17.17         |
| 2497.83        | Peak                           | 42.30                                  | 4.63           | 46.92                    | 74.00                    | -27.08         |

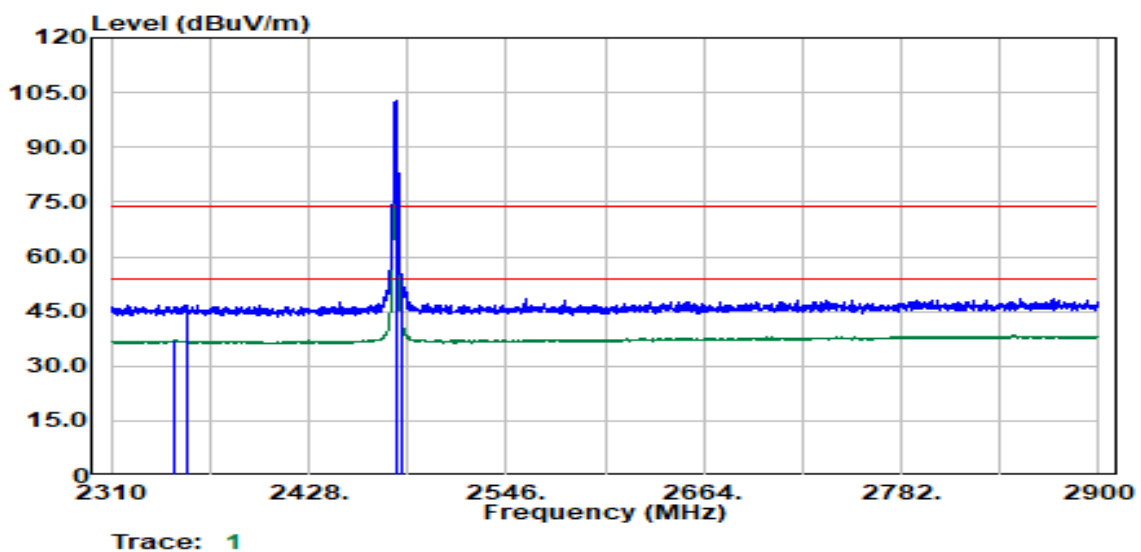


|            |                           |               |                 |
|------------|---------------------------|---------------|-----------------|
| Test Mode: | 8DPSK_EDR-3Mbps<br>Low CH | Temp/Hum      | 24.4(°C)/ 59%RH |
| Test Item  | Band Edge                 | Test Date     | June 5, 2023    |
| Polarize   | Horizontal                | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average            |               |                 |



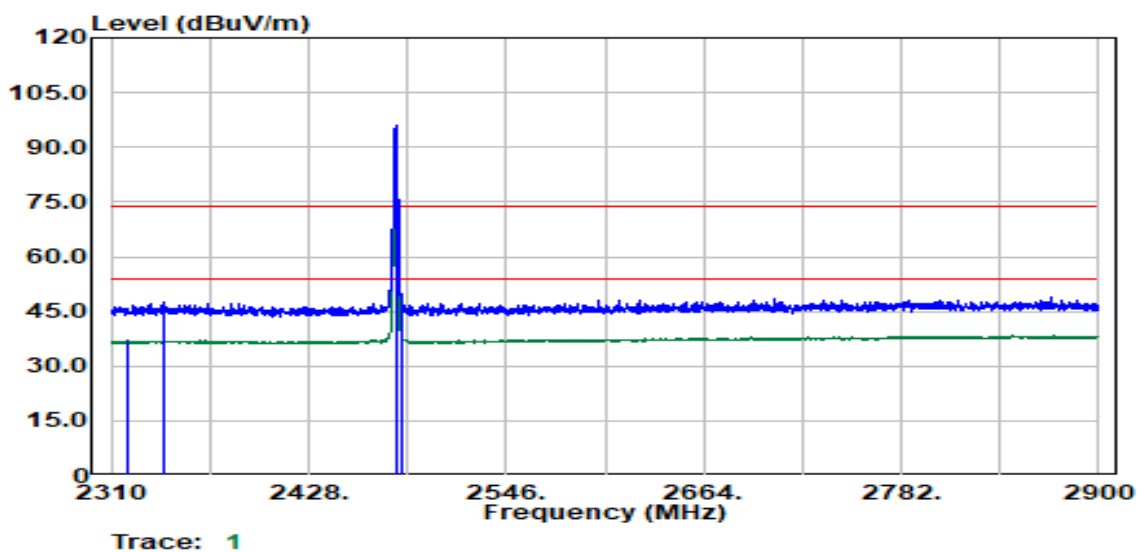
| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBμV) | Factor<br>(dB) | Actual<br>FS<br>(dBμV/m) | Limit<br>@3m<br>(dBμV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 2344.77        | Peak                           | 41.77                                  | 4.82           | 46.60                    | 74.00                    | -27.40         |
| 2385.78        | Average                        | 32.10                                  | 4.80           | 36.90                    | 54.00                    | -17.10         |
| 2402.00        | Peak                           | 89.35                                  | 4.51           | 93.87                    | --                       | --             |
| 2402.00        | Average                        | --                                     | -24.87         | 69.00                    | --                       | --             |
| 2486.33        | Average                        | 32.25                                  | 4.58           | 36.83                    | 54.00                    | -17.17         |
| 2496.58        | Peak                           | 42.36                                  | 4.62           | 46.98                    | 74.00                    | -27.02         |

|            |                            |               |                 |
|------------|----------------------------|---------------|-----------------|
| Test Mode: | 8DPSK_EDR-3Mbps<br>High CH | Temp/Hum      | 24.4(°C)/ 59%RH |
| Test Item  | Band Edge                  | Test Date     | June 5, 2023    |
| Polarize   | Vertical                   | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average             |               |                 |



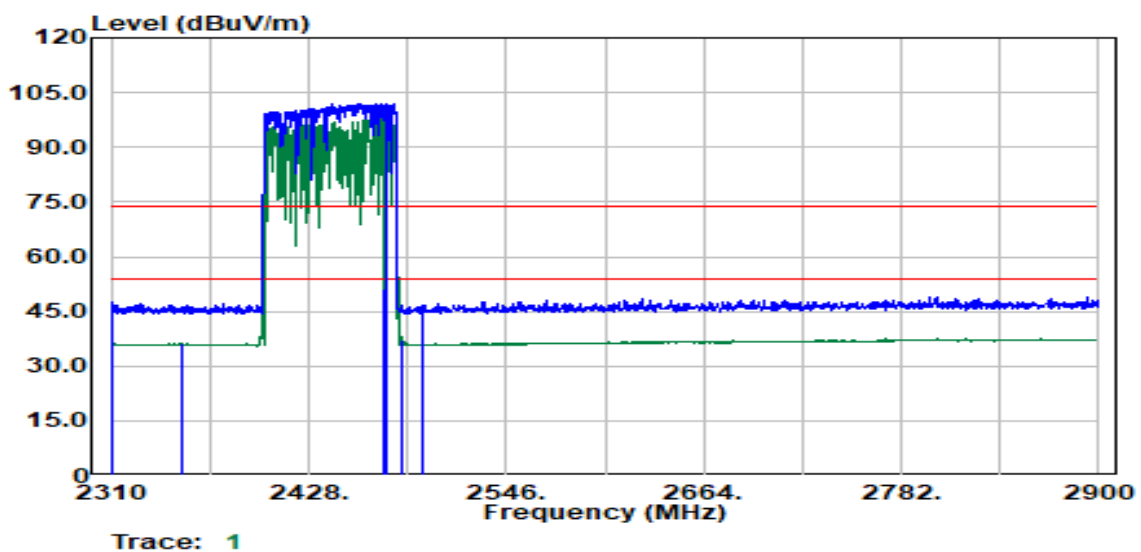
| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBμV) | Factor<br>(dB) | Actual<br>FS<br>(dBμV/m) | Limit<br>@3m<br>(dBμV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 2347.77        | Average                        | 32.23                                  | 4.86           | 37.09                    | 54.00                    | -16.91         |
| 2355.27        | Peak                           | 41.88                                  | 4.83           | 46.71                    | 74.00                    | -27.29         |
| 2480.00        | Peak                           | 98.29                                  | 4.65           | 102.94                   | --                       | --             |
| 2480.00        | Average                        | --                                     | -24.87         | 78.07                    | --                       | --             |
| 2483.57        | Peak                           | 50.47                                  | 4.61           | 55.08                    | 74.00                    | -18.92         |
| 2483.57        | Average                        | 38.09                                  | 4.61           | 42.70                    | 54.00                    | -11.30         |

|            |                            |               |                 |
|------------|----------------------------|---------------|-----------------|
| Test Mode: | 8DPSK_EDR-3Mbps<br>High CH | Temp/Hum      | 24.4(°C)/ 59%RH |
| Test Item  | Band Edge                  | Test Date     | June 5, 2023    |
| Polarize   | Horizontal                 | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average             |               |                 |



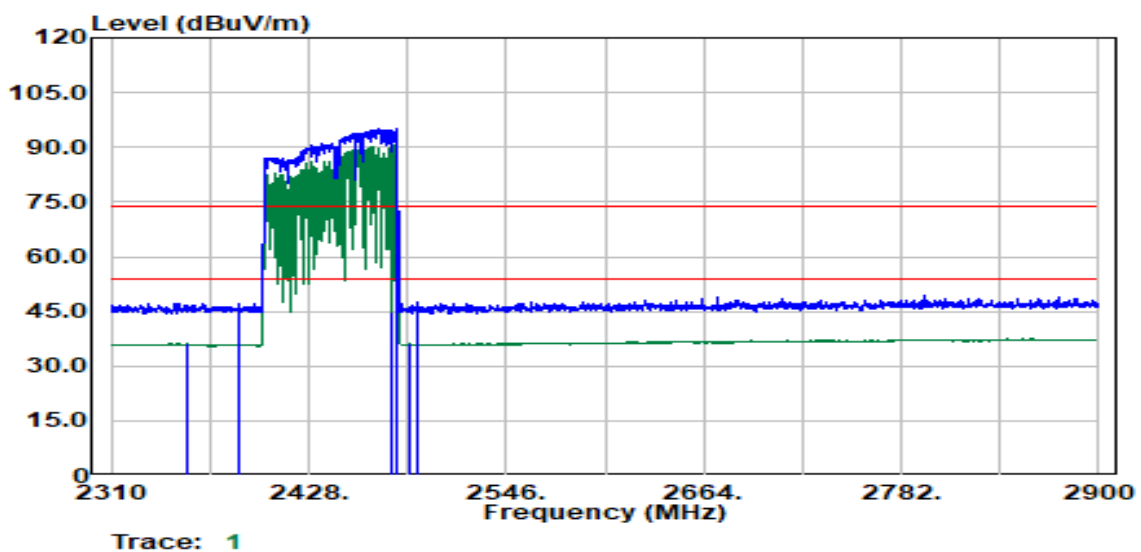
| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBμV) | Factor<br>(dB) | Actual<br>FS<br>(dBμV/m) | Limit<br>@3m<br>(dBμV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 2319.50        | Average                        | 32.30                                  | 4.66           | 36.96                    | 54.00                    | -17.04         |
| 2341.01        | Peak                           | 42.66                                  | 4.78           | 47.45                    | 74.00                    | -26.55         |
| 2480.00        | Peak                           | 91.20                                  | 4.65           | 95.85                    | --                       | --             |
| 2480.00        | Average                        | --                                     | -24.87         | 70.98                    | --                       | --             |
| 2483.57        | Peak                           | 44.53                                  | 4.61           | 49.14                    | 74.00                    | -24.86         |
| 2483.82        | Average                        | 33.63                                  | 4.61           | 38.24                    | 54.00                    | -15.76         |

|            |                         |               |                 |
|------------|-------------------------|---------------|-----------------|
| Test Mode: | 8DPSK_EDR-3Mbps Hopping | Temp/Hum      | 24.4(°C)/ 59%RH |
| Test Item  | Band Edge               | Test Date     | June 5, 2023    |
| Polarize   | Vertical                | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average          |               |                 |



| Freq. (MHz) | Detector Mode (PK/QP/AV) | Spectrum Reading Level (dBμV) | Factor (dB) | Actual FS (dBμV/m) | Limit @3m (dBμV/m) | Margin (dB) |
|-------------|--------------------------|-------------------------------|-------------|--------------------|--------------------|-------------|
| 2311.25     | Peak                     | 42.90                         | 4.74        | 47.64              | 74.00              | -26.36      |
| 2352.02     | Average                  | 31.33                         | 4.86        | 36.19              | 54.00              | -17.81      |
| 2473.07     | Average                  | --                            | -24.87      | 77.01              | --                 | --          |
| 2474.32     | Peak                     | 97.18                         | 4.70        | 101.88             | --                 | --          |
| 2484.07     | Average                  | 32.74                         | 4.61        | 37.35              | 54.00              | -16.65      |
| 2496.58     | Peak                     | 42.12                         | 4.62        | 46.74              | 74.00              | -27.26      |

|            |                         |               |                 |
|------------|-------------------------|---------------|-----------------|
| Test Mode: | 8DPSK_EDR-3Mbps Hopping | Temp/Hum      | 24.4(°C)/ 59%RH |
| Test Item  | Band Edge               | Test Date     | June 5, 2023    |
| Polarize   | Horizontal              | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average          |               |                 |

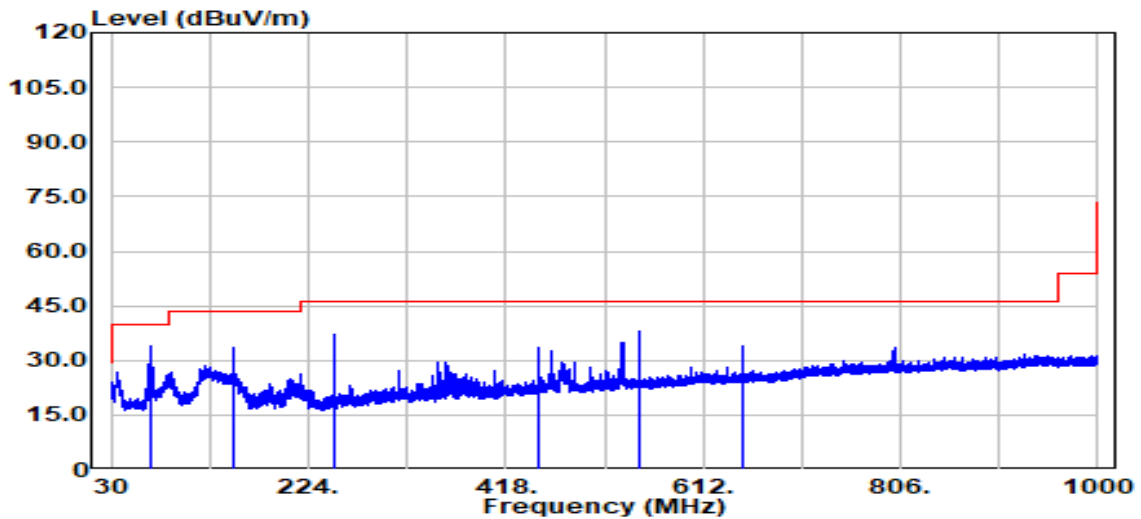


| Freq. (MHz) | Detector Mode (PK/QP/AV) | Spectrum Reading Level (dBμV) | Factor (dB) | Actual FS (dBμV/m) | Limit @3m (dBμV/m) | Margin (dB) |
|-------------|--------------------------|-------------------------------|-------------|--------------------|--------------------|-------------|
| 2354.77     | Average                  | 31.29                         | 4.84        | 36.13              | 54.00              | -17.87      |
| 2386.78     | Peak                     | 42.43                         | 4.80        | 47.23              | 74.00              | -26.77      |
| 2477.07     | Average                  | --                            | -24.87      | 70.25              | --                 | --          |
| 2480.07     | Peak                     | 90.48                         | 4.65        | 95.12              | --                 | --          |
| 2488.33     | Average                  | 31.59                         | 4.56        | 36.15              | 54.00              | -17.85      |
| 2492.83     | Peak                     | 43.03                         | 4.58        | 47.61              | 74.00              | -26.39      |

**Below 1G Test Data**

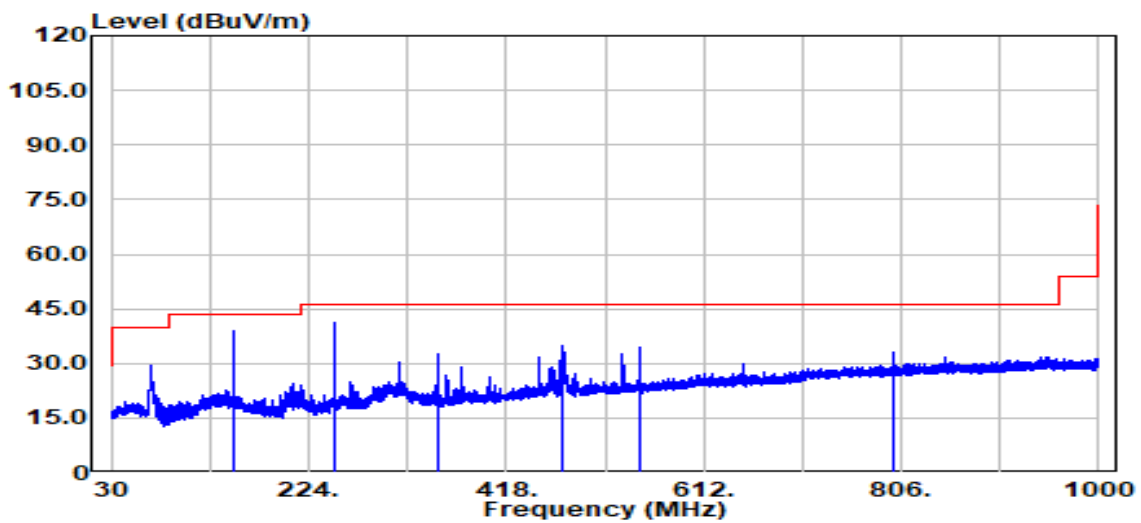
**Test Mode: Mode 1 (Dipole Antenna)**

|            |                           |               |                 |
|------------|---------------------------|---------------|-----------------|
| Test Mode: | GFSK_BDR-1Mbps<br>High CH | Temp/Hum      | 24.5(°C)/ 62%RH |
| Test Item  | 30MHz-1GHz                | Test Date     | May 31, 2023    |
| Polarize   | Vertical                  | Test Engineer | Czerny Lin      |
| Detector   | Peak                      |               |                 |



| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBµV) | Factor<br>(dB) | Actual<br>FS<br>(dBµV/m) | Limit<br>@3m<br>(dBµV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 69.19          | Peak                           | 49.14                                  | -15.07         | 34.07                    | 40.00                    | -5.93          |
| 149.99         | Peak                           | 46.39                                  | -12.86         | 33.53                    | 43.50                    | -9.97          |
| 250.00         | Peak                           | 51.14                                  | -14.00         | 37.14                    | 46.00                    | -8.86          |
| 450.01         | Peak                           | 41.70                                  | -8.31          | 33.39                    | 46.00                    | -12.61         |
| 550.02         | Peak                           | 44.90                                  | -6.69          | 38.21                    | 46.00                    | -7.79          |
| 650.02         | Peak                           | 38.33                                  | -4.30          | 34.03                    | 46.00                    | -11.97         |

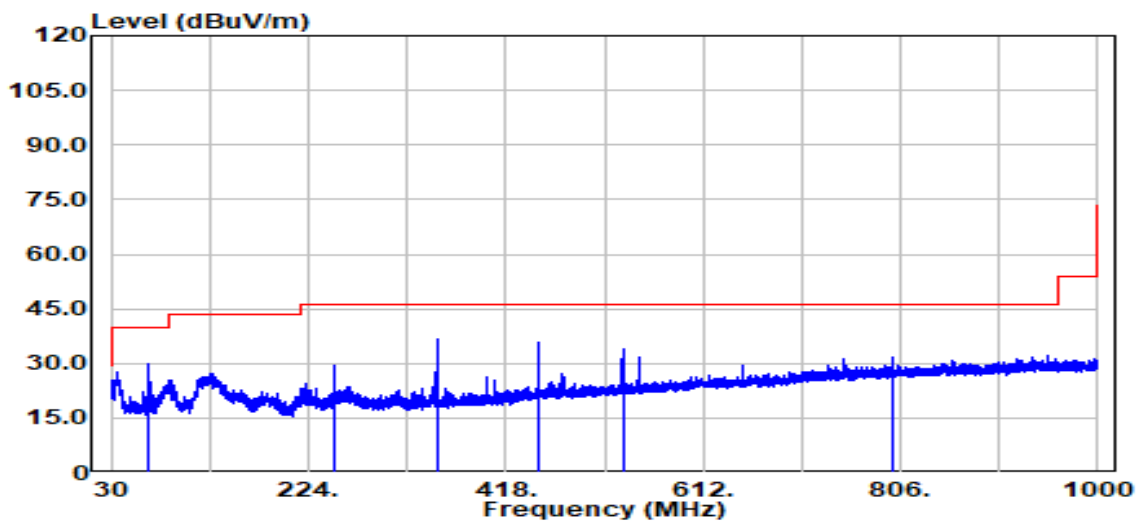
|            |                           |               |                 |
|------------|---------------------------|---------------|-----------------|
| Test Mode: | GFSK_BDR-1Mbps<br>High CH | Temp/Hum      | 24.5(°C)/ 62%RH |
| Test Item  | 30MHz-1GHz                | Test Date     | May 31, 2023    |
| Polarize   | Horizontal                | Test Engineer | Czerny Lin      |
| Detector   | Peak                      |               |                 |



| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBµV) | Factor<br>(dB) | Actual<br>FS<br>(dBUV/m) | Limit<br>@3m<br>(dBUV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 149.99         | Peak                           | 51.63                                  | -12.86         | 38.77                    | 43.50                    | -4.73          |
| 250.00         | Peak                           | 55.36                                  | -14.00         | 41.36                    | 46.00                    | -4.64          |
| 350.00         | Peak                           | 43.92                                  | -11.18         | 32.74                    | 46.00                    | -13.26         |
| 474.26         | Peak                           | 42.72                                  | -7.94          | 34.77                    | 46.00                    | -11.23         |
| 550.02         | Peak                           | 40.90                                  | -6.69          | 34.21                    | 46.00                    | -11.79         |
| 797.56         | Peak                           | 35.13                                  | -2.04          | 33.09                    | 46.00                    | -12.91         |

**Test Mode: Mode 2 (PIFA Antenna)**

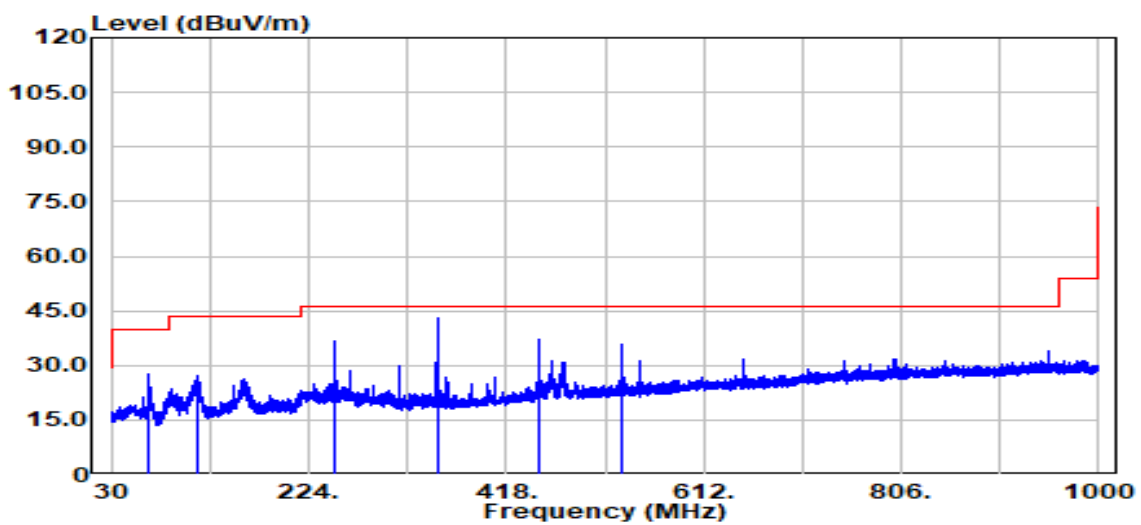
|            |                           |               |                  |
|------------|---------------------------|---------------|------------------|
| Test Mode: | GFSK_EDR-1Mbps<br>High CH | Temp/Hum      | 25.4 (°C)/ 57%RH |
| Test Item  | 30MHz-1GHz                | Test Date     | June 6, 2023     |
| Polarize   | Vertical                  | Test Engineer | Czerny Lin       |
| Detector   | Peak                      |               |                  |



| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBμV) | Factor<br>(dB) | Actual<br>FS<br>(dBμV/m) | Limit<br>@3m<br>(dBμV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 67.05          | Peak                           | 44.19                                  | -14.43         | 29.77                    | 40.00                    | -10.23         |
| 250.00         | Peak                           | 43.57                                  | -14.00         | 29.57                    | 46.00                    | -16.43         |
| 350.00         | Peak                           | 47.90                                  | -11.18         | 36.72                    | 46.00                    | -9.28          |
| 450.01         | Peak                           | 44.06                                  | -8.31          | 35.75                    | 46.00                    | -10.25         |
| 533.33         | Peak                           | 40.63                                  | -6.84          | 33.79                    | 46.00                    | -12.21         |
| 799.21         | Peak                           | 33.85                                  | -2.04          | 31.81                    | 46.00                    | -14.19         |



|            |                           |               |                  |
|------------|---------------------------|---------------|------------------|
| Test Mode: | GFSK_EDR-1Mbps<br>High CH | Temp/Hum      | 25.4 (°C)/ 57%RH |
| Test Item  | 30MHz-1GHz                | Test Date     | June 6, 2023     |
| Polarize   | Horizontal                | Test Engineer | Czerny Lin       |
| Detector   | Peak                      |               |                  |

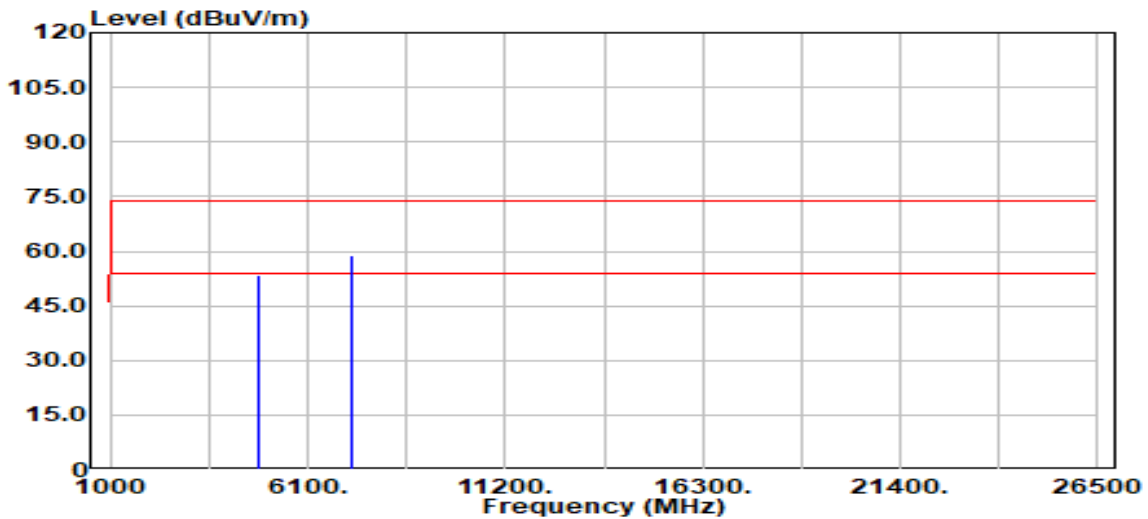


| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBμV) | Factor<br>(dB) | Actual<br>FS<br>(dBμV/m) | Limit<br>@3m<br>(dBμV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 66.38          | Peak                           | 42.06                                  | -14.49         | 27.57                    | 40.00                    | -12.43         |
| 113.91         | Peak                           | 43.01                                  | -15.88         | 27.13                    | 43.50                    | -16.37         |
| 250.00         | Peak                           | 50.85                                  | -14.00         | 36.85                    | 46.00                    | -9.15          |
| 350.00         | Peak                           | 54.04                                  | -11.18         | 42.86                    | 46.00                    | -3.14          |
| 450.01         | Peak                           | 45.58                                  | -8.31          | 37.27                    | 46.00                    | -8.73          |
| 531.10         | Peak                           | 42.48                                  | -6.89          | 35.60                    | 46.00                    | -10.40         |

**Above 1G Test Data**

**Test Mode: Mode 1 (Dipole Antenna)**

|            |                          |               |                 |
|------------|--------------------------|---------------|-----------------|
| Test Mode: | GFSK_BDR-1Mbps<br>Low CH | Temp/Hum      | 24.5(°C)/ 62%RH |
| Test Item  | Harmonic                 | Test Date     | May 31, 2023    |
| Polarize   | Vertical                 | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average           |               |                 |

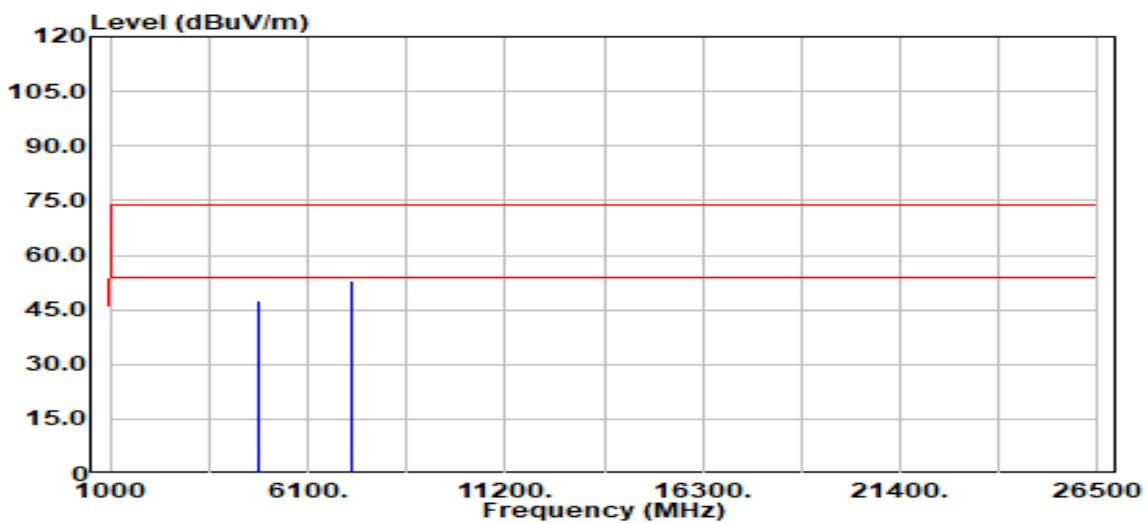


| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBμV) | Factor<br>(dB) | Actual<br>FS<br>(dBμV/m) | Limit<br>@3m<br>(dBμV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 4804.00        | Peak                           | 52.92                                  | 0.38           | 53.31                    | 74.00                    | -20.69         |
| 4804.00        | Average                        | --                                     | -25.18         | 28.13                    | 54.00                    | -25.87         |
| 7206.00        | Peak                           | 53.57                                  | 5.33           | 58.89                    | 74.00                    | -15.11         |
| 7206.00        | Average                        | --                                     | -25.18         | 33.71                    | 54.00                    | -20.29         |
| N/A            |                                |  |                |                          |                          |                |

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

|            |                          |               |                 |
|------------|--------------------------|---------------|-----------------|
| Test Mode: | GFSK_BDR-1Mbps<br>Low CH | Temp/Hum      | 24.5(°C)/ 62%RH |
| Test Item  | Harmonic                 | Test Date     | May 31, 2023    |
| Polarize   | Horizontal               | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average           |               |                 |

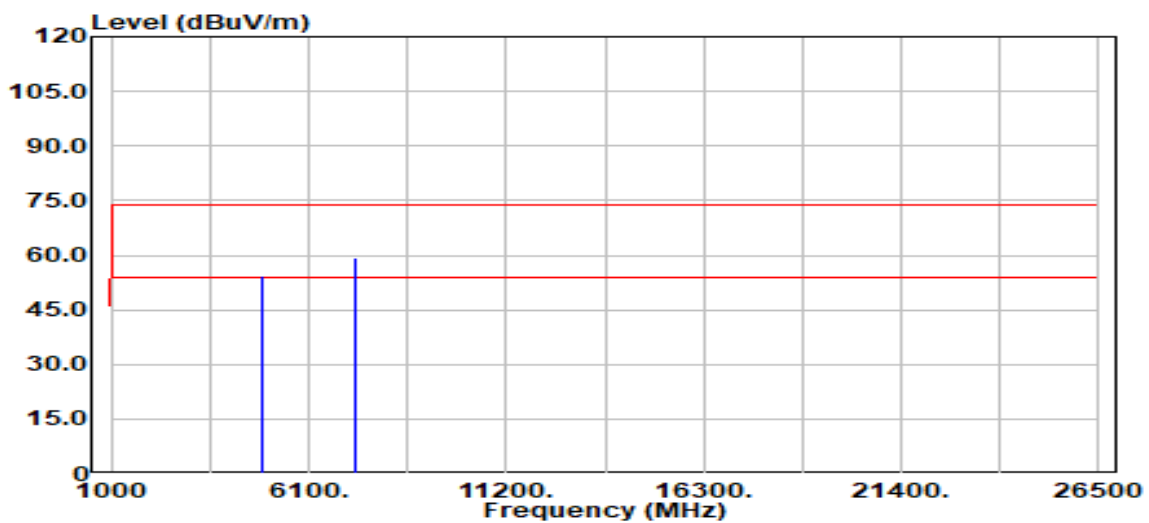


| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBμV) | Factor<br>(dB) | Actual<br>FS<br>(dBμV/m) | Limit<br>@3m<br>(dBμV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 4804.00        | Peak                           | 47.14                                  | 0.38           | 47.52                    | 74.00                    | -26.48         |
| 4804.00        | Average                        | --                                     | -25.18         | 22.34                    | 54.00                    | -31.66         |
| 7206.00        | Peak                           | 47.69                                  | 5.33           | 53.02                    | 74.00                    | -20.98         |
| 7206.00        | Average                        | --                                     | -25.18         | 27.84                    | 54.00                    | -26.16         |
| N/A            |                                |  |                |                          |                          |                |

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

|            |                          |               |                 |
|------------|--------------------------|---------------|-----------------|
| Test Mode: | GFSK_BDR-1Mbps<br>Mid CH | Temp/Hum      | 24.5(°C)/ 62%RH |
| Test Item  | Harmonic                 | Test Date     | May 31, 2023    |
| Polarize   | Vertical                 | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average           |               |                 |

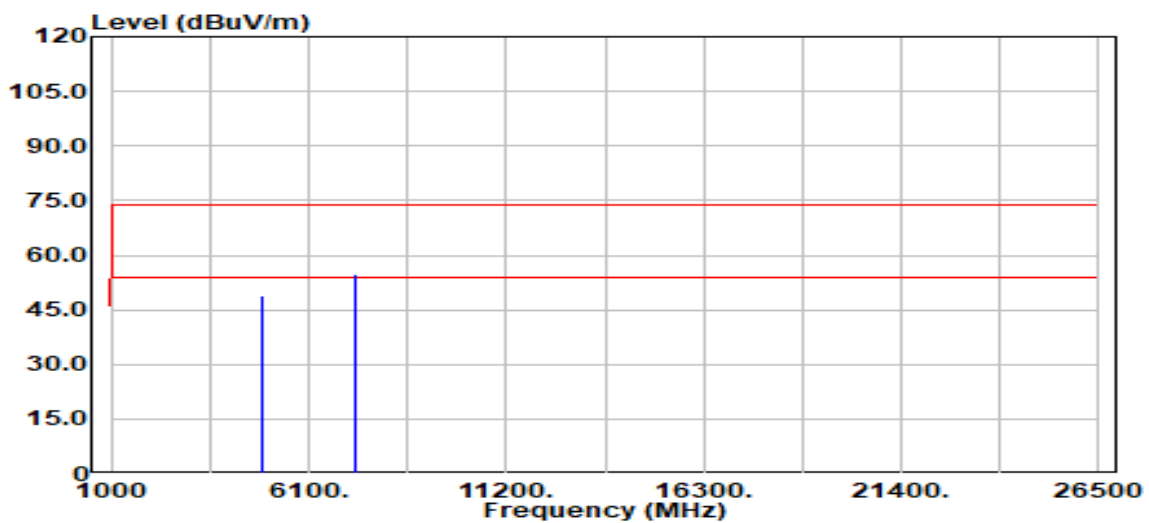


| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBμV) | Factor<br>(dB) | Actual<br>FS<br>(dBμV/m) | Limit<br>@3m<br>(dBμV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 4882.00        | Peak                           | 53.95                                  | 0.49           | 54.44                    | 74.00                    | -19.56         |
| 4882.00        | Average                        | --                                     | -25.18         | 29.26                    | 54.00                    | -24.74         |
| 7323.00        | Peak                           | 53.81                                  | 5.48           | 59.29                    | 74.00                    | -14.71         |
| 7323.00        | Average                        | --                                     | -25.18         | 34.11                    | 54.00                    | -19.89         |
| N/A            |                                |  |                |                          |                          |                |

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

|            |                          |               |                 |
|------------|--------------------------|---------------|-----------------|
| Test Mode: | GFSK_BDR-1Mbps<br>Mid CH | Temp/Hum      | 24.5(°C)/ 62%RH |
| Test Item  | Harmonic                 | Test Date     | May 31, 2023    |
| Polarize   | Horizontal               | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average           |               |                 |

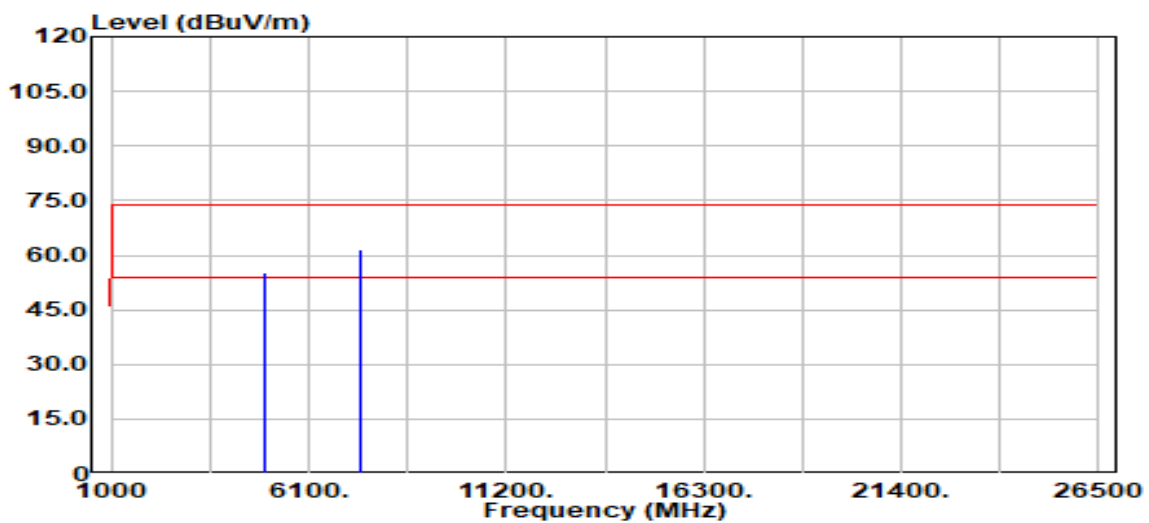


| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBμV) | Factor<br>(dB) | Actual<br>FS<br>(dBμV/m) | Limit<br>@3m<br>(dBμV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 4882.00        | Peak                           | 48.23                                  | 0.49           | 48.71                    | 74.00                    | -25.29         |
| 4882.00        | Average                        | --                                     | -25.18         | 23.53                    | 54.00                    | -30.47         |
| 7323.00        | Peak                           | 49.35                                  | 5.48           | 54.83                    | 74.00                    | -19.17         |
| 7323.00        | Average                        | --                                     | -25.18         | 29.65                    | 54.00                    | -24.35         |
| N/A            |                                |  |                |                          |                          |                |

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

|            |                           |               |                 |
|------------|---------------------------|---------------|-----------------|
| Test Mode: | GFSK_BDR-1Mbps<br>High CH | Temp/Hum      | 24.5(°C)/ 62%RH |
| Test Item  | Harmonic                  | Test Date     | May 31, 2023    |
| Polarize   | Vertical                  | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average            |               |                 |

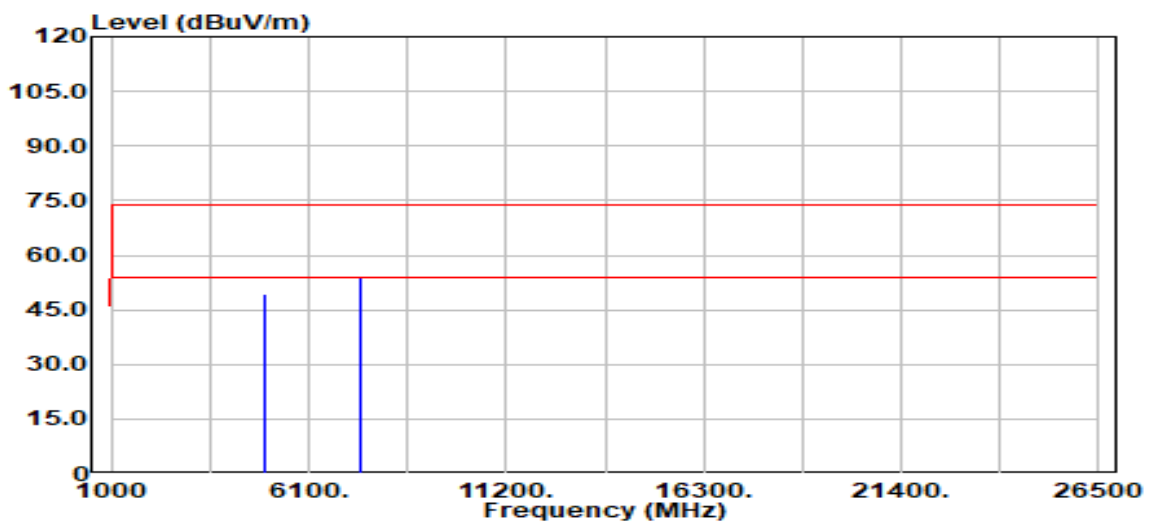


| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dB $\mu$ V) | Factor<br>(dB) | Actual<br>FS<br>(dB $\mu$ V/m) | Limit<br>@3m<br>(dB $\mu$ V/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------------|--------------------------------|----------------|
| 4960.00        | Peak                           | 54.74  | 0.65           | 55.39                          | 74.00                          | -18.61         |
| 4960.00        | Average                        | --   | -25.18         | 30.21                          | 54.00                          | -23.79         |
| 7440.00        | Peak                           | 56.02  | 5.56           | 61.58                          | 74.00                          | -12.42         |
| 7440.00        | Average                        | --   | -25.18         | 36.4                           | 54.00                          | -17.6          |
| N/A            |                                |  |                |                                |                                |                |

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

|            |                           |               |                 |
|------------|---------------------------|---------------|-----------------|
| Test Mode: | GFSK_BDR-1Mbps<br>High CH | Temp/Hum      | 24.5(°C)/ 62%RH |
| Test Item  | Harmonic                  | Test Date     | May 31, 2023    |
| Polarize   | Horizontal                | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average            |               |                 |

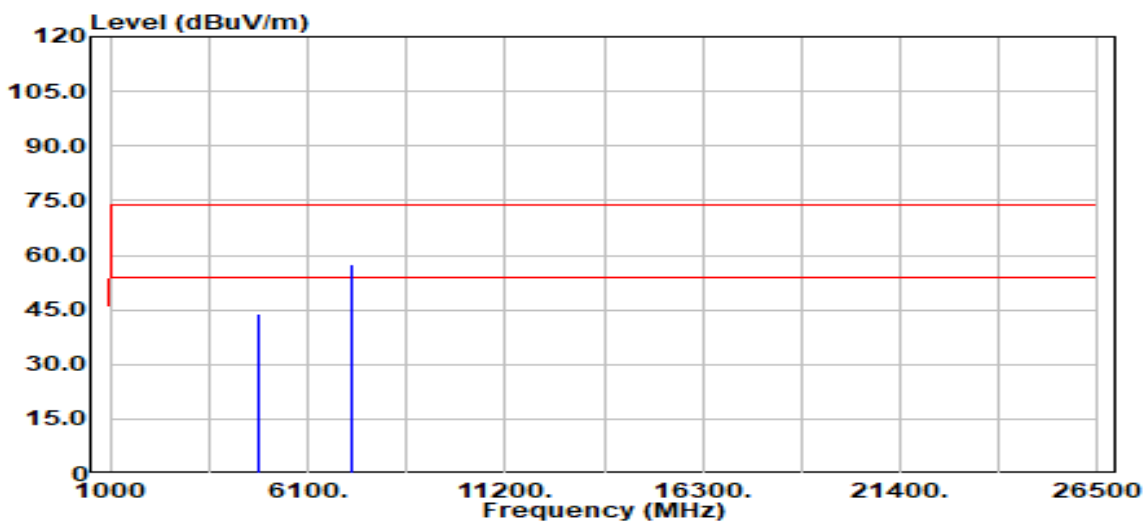


| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBμV) | Factor<br>(dB) | Actual<br>FS<br>(dBμV/m) | Limit<br>@3m<br>(dBμV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 4960.00        | Peak                           | 48.67                                  | 0.65           | 49.32                    | 74.00                    | -24.69         |
| 4960.00        | Average                        | --                                     | -25.18         | 24.14                    | 54.00                    | -29.86         |
| 7440.00        | Peak                           | 48.47                                  | 5.56           | 54.03                    | 74.00                    | -19.97         |
| 7440.00        | Average                        | --                                     | -25.18         | 28.85                    | 54.00                    | -25.15         |
| N/A            |                                |  |                |                          |                          |                |

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

|            |                           |               |                 |
|------------|---------------------------|---------------|-----------------|
| Test Mode: | 8DPSK_EDR-3Mbps<br>Low CH | Temp/Hum      | 24.5(°C)/ 62%RH |
| Test Item  | Harmonic                  | Test Date     | May 31, 2023    |
| Polarize   | Vertical                  | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average            |               |                 |



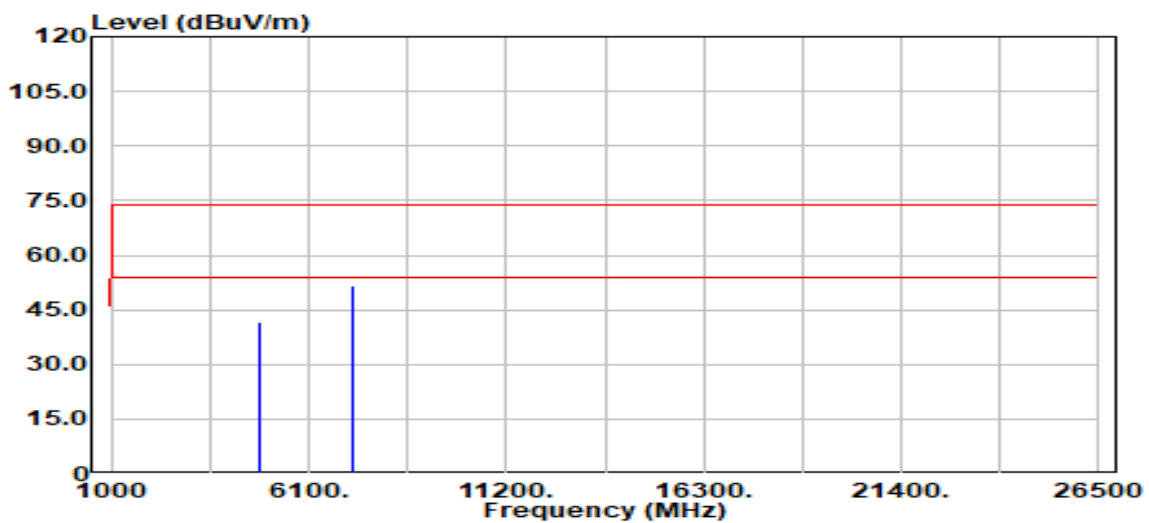
| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBμV) | Factor<br>(dB) | Actual<br>FS<br>(dBμV/m) | Limit<br>@3m<br>(dBμV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 4804.00        | Peak                           | 43.57                                  | 0.38           | 43.95                    | 74.00                    | -30.05         |
| 4804.00        | Average                        | --                                     | -24.87         | 19.11                    | 54.00                    | -34.89         |
| 7206.00        | Peak                           | 52.35                                  | 5.33           | 57.68                    | 74.00                    | -16.32         |
| 7206.00        | Average                        | --                                     | -24.87         | 32.81                    | 54.00                    | -21.19         |
| N/A            |                                |  |                |                          |                          |                |

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.



|            |                           |               |                 |
|------------|---------------------------|---------------|-----------------|
| Test Mode: | 8DPSK_EDR-3Mbps<br>Low CH | Temp/Hum      | 24.5(°C)/ 62%RH |
| Test Item  | Harmonic                  | Test Date     | May 31, 2023    |
| Polarize   | Horizontal                | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average            |               |                 |

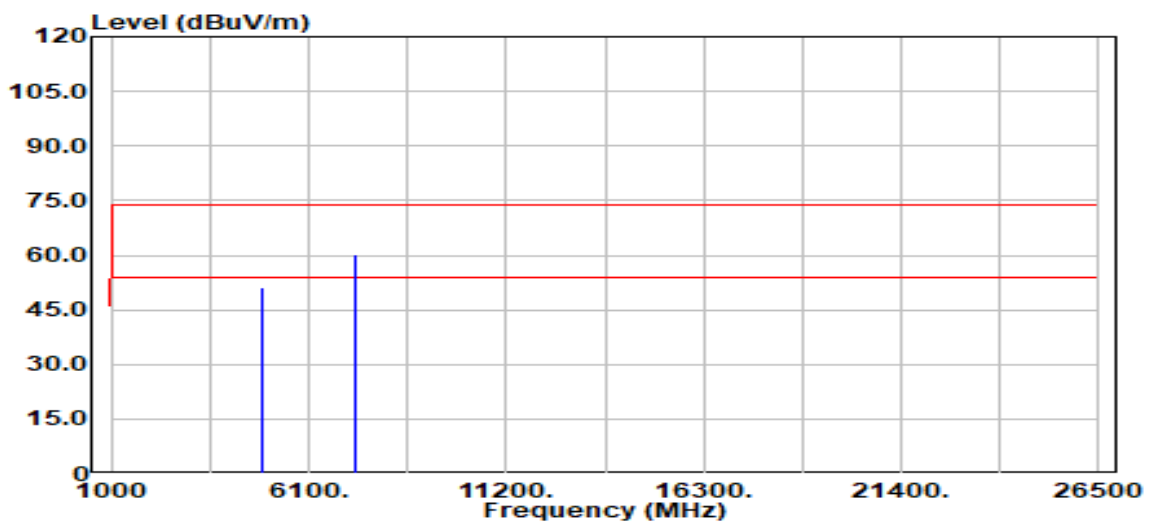


| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBμV) | Factor<br>(dB) | Actual<br>FS<br>(dBμV/m) | Limit<br>@3m<br>(dBμV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 4804.00        | Peak                           | 41.10                                  | 0.38           | 41.48                    | 74.00                    | -32.52         |
| 4804.00        | Average                        | --                                     | -24.87         | 16.61                    | 54.00                    | -37.39         |
| 7206.00        | Peak                           | 46.47                                  | 5.33           | 51.80                    | 74.00                    | -22.20         |
| 7206.00        | Average                        | --                                     | -24.87         | 26.93                    | 54.00                    | -27.07         |
| N/A            |                                |  |                |                          |                          |                |

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

|            |                           |               |                 |
|------------|---------------------------|---------------|-----------------|
| Test Mode: | 8DPSK_EDR-3Mbps<br>Mid CH | Temp/Hum      | 24.5(°C)/ 62%RH |
| Test Item  | Harmonic                  | Test Date     | May 31, 2023    |
| Polarize   | Vertical                  | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average            |               |                 |

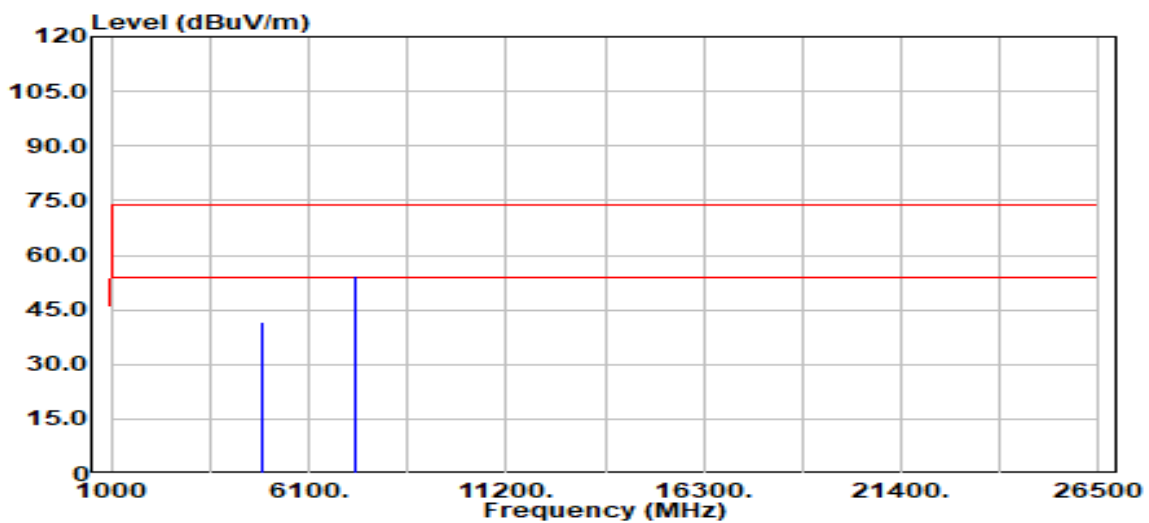


| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBµV) | Factor<br>(dB) | Actual<br>FS<br>(dBµV/m) | Limit<br>@3m<br>(dBµV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 4882.00        | Peak                           | 50.62                                  | 0.49           | 51.10                    | 74.00                    | -22.90         |
| 4882.00        | Average                        | --                                     | -24.87         | 26.23                    | 54.00                    | -27.77         |
| 7323.00        | Peak                           | 54.74                                  | 5.48           | 60.22                    | 74.00                    | -13.78         |
| 7323.00        | Average                        | --                                     | -24.87         | 35.35                    | 54.00                    | -18.65         |
| N/A            |                                |  |                |                          |                          |                |

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

|            |                           |               |                 |
|------------|---------------------------|---------------|-----------------|
| Test Mode: | 8DPSK_EDR-3Mbps<br>Mid CH | Temp/Hum      | 24.5(°C)/ 62%RH |
| Test Item  | Harmonic                  | Test Date     | May 31, 2023    |
| Polarize   | Horizontal                | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average            |               |                 |

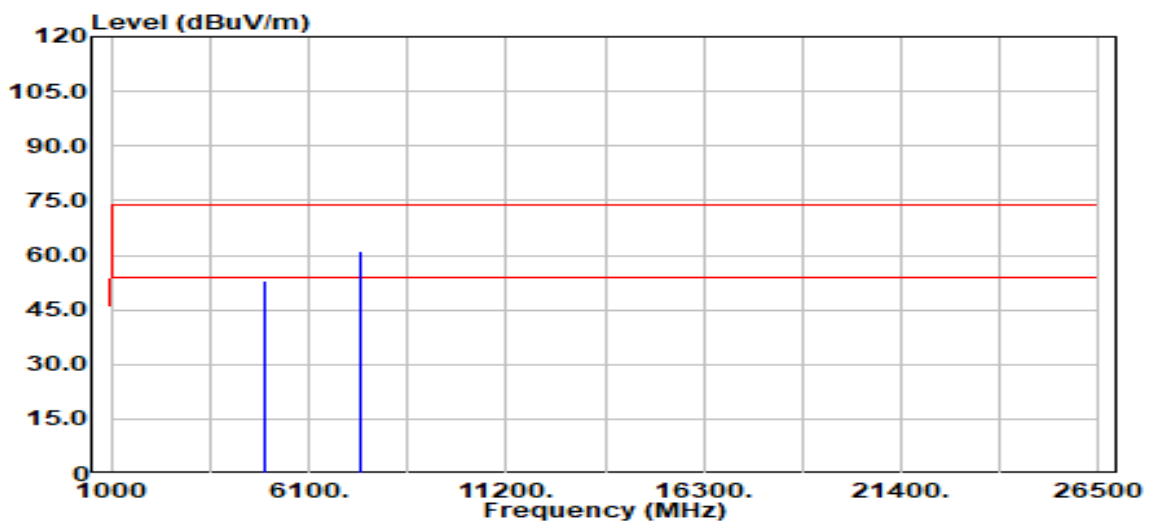


| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dB $\mu$ V) | Factor<br>(dB) | Actual<br>FS<br>(dB $\mu$ V/m) | Limit<br>@3m<br>(dB $\mu$ V/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------------|--------------------------------|----------------|
| 4882.00        | Peak                           | 40.99  | 0.49           | 41.48                          | 74.00                          | -32.52         |
| 4882.00        | Average                        | --   | -24.87         | 16.61                          | 54.00                          | -37.39         |
| 7323.00        | Peak                           | 48.69  | 5.48           | 54.17                          | 74.00                          | -19.83         |
| 7323.00        | Average                        | --   | -24.87         | 29.33                          | 54.00                          | -24.67         |
| N/A            |                                |  |                |                                |                                |                |

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

|            |                            |               |                 |
|------------|----------------------------|---------------|-----------------|
| Test Mode: | 8DPSK_EDR-3Mbps<br>High CH | Temp/Hum      | 24.5(°C)/ 62%RH |
| Test Item  | Harmonic                   | Test Date     | May 31, 2023    |
| Polarize   | Vertical                   | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average             |               |                 |

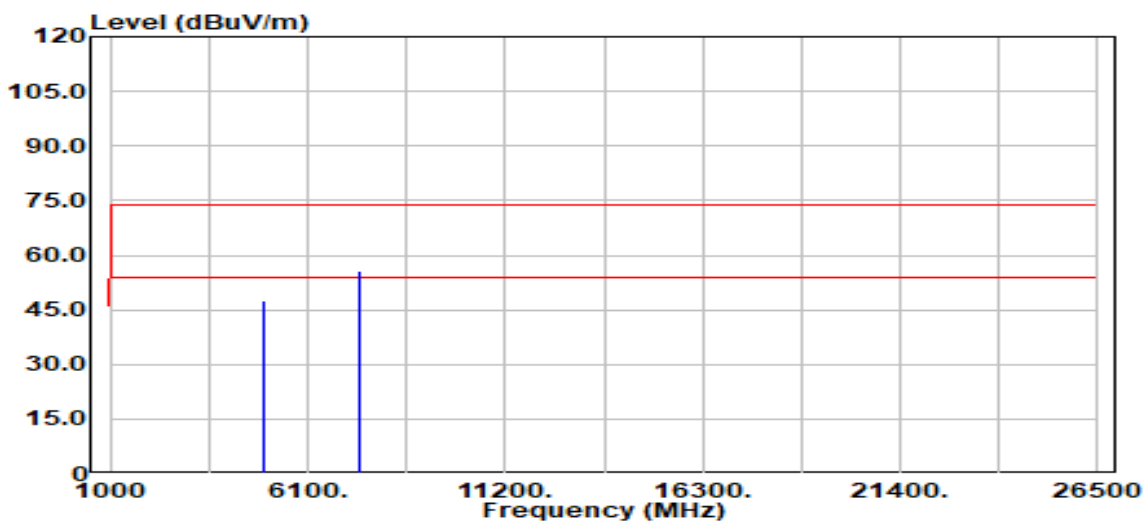


| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBμV) | Factor<br>(dB) | Actual<br>FS<br>(dBμV/m) | Limit<br>@3m<br>(dBμV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 4960.00        | Peak                           | 52.30                                  | 0.65           | 52.95                    | 74.00                    | -21.05         |
| 4960.00        | Average                        | --                                     | -24.87         | 28.08                    | 54.00                    | -25.92         |
| 7440.00        | Peak                           | 55.42                                  | 5.56           | 60.99                    | 74.00                    | -13.02         |
| 7440.00        | Average                        | --                                     | -24.87         | 36.12                    | 54.00                    | -17.88         |
| N/A            |                                |  |                |                          |                          |                |

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

|            |                            |               |                 |
|------------|----------------------------|---------------|-----------------|
| Test Mode: | 8DPSK_EDR-3Mbps<br>High CH | Temp/Hum      | 24.5(°C)/ 62%RH |
| Test Item  | Harmonic                   | Test Date     | May 31, 2023    |
| Polarize   | Horizontal                 | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average             |               |                 |



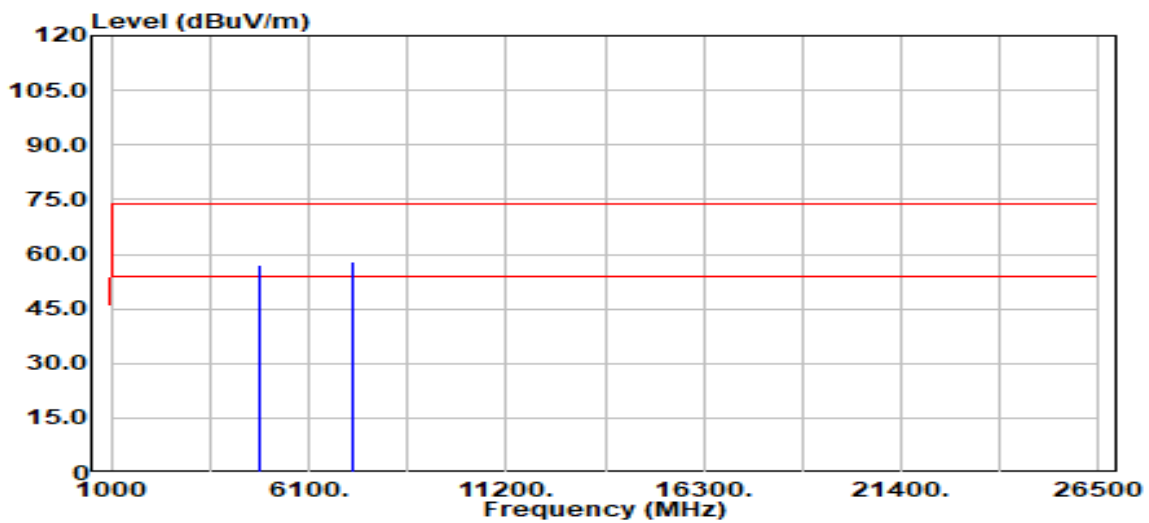
| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBμV) | Factor<br>(dB) | Actual<br>FS<br>(dBμV/m) | Limit<br>@3m<br>(dBμV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 4960.00        | Peak                           | 46.69                                  | 0.65           | 47.33                    | 74.00                    | -26.67         |
| 4960.00        | Average                        | --                                     | -24.87         | 22.49                    | 54.00                    | -31.54         |
| 7440.00        | Peak                           | 50.02                                  | 5.56           | 55.58                    | 74.00                    | -18.42         |
| 7440.00        | Average                        | --                                     | -24.87         | 30.71                    | 54.00                    | -23.29         |
| N/A            |                                |  |                |                          |                          |                |

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

**Test Mode: Mode 2 (PIFA Antenna)**

|            |                          |               |                 |
|------------|--------------------------|---------------|-----------------|
| Test Mode: | GFSK_BDR-1Mbps<br>Low CH | Temp/Hum      | 24.4(°C)/ 59%RH |
| Test Item  | Harmonic                 | Test Date     | June 5, 2023    |
| Polarize   | Vertical                 | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average           |               |                 |

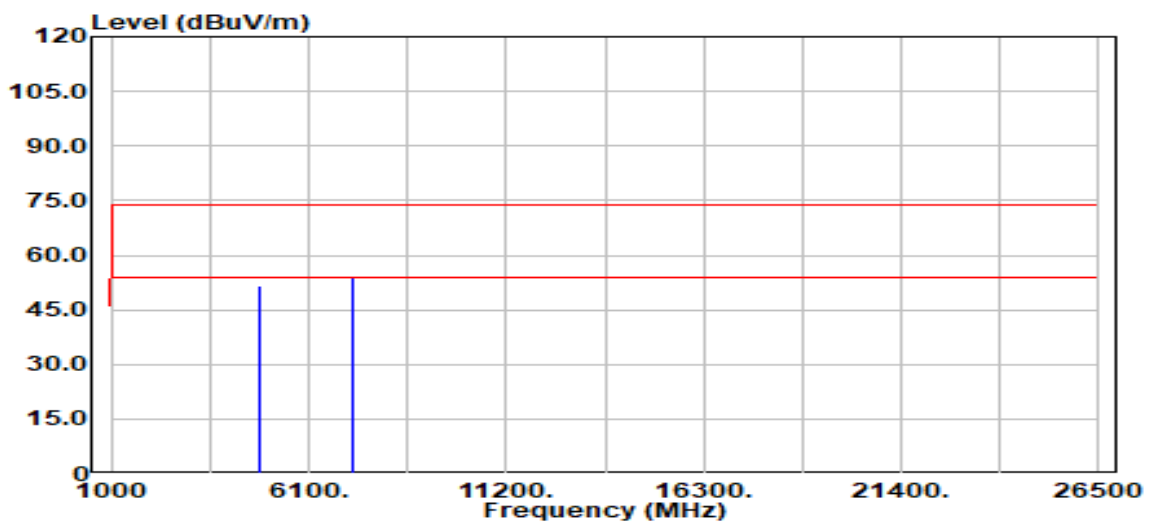


| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBµV) | Factor<br>(dB) | Actual<br>FS<br>(dBUV/m) | Limit<br>@3m<br>(dBUV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 4804.00        | Peak                           | 56.90                                  | 0.38           | 57.28                    | 74.00                    | -16.72         |
| 4804.00        | Average                        | --                                     | -25.18         | 32.10                    | 54.00                    | -21.90         |
| 7206.00        | Peak                           | 52.72                                  | 5.33           | 58.05                    | 74.00                    | -15.95         |
| 7206.00        | Average                        | --                                     | -25.18         | 32.87                    | 54.00                    | -21.13         |
| N/A            |                                |  |                |                          |                          |                |

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

|            |                          |               |                 |
|------------|--------------------------|---------------|-----------------|
| Test Mode: | GFSK_BDR-1Mbps<br>Low CH | Temp/Hum      | 24.4(°C)/ 59%RH |
| Test Item  | Harmonic                 | Test Date     | June 5, 2023    |
| Polarize   | Horizontal               | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average           |               |                 |

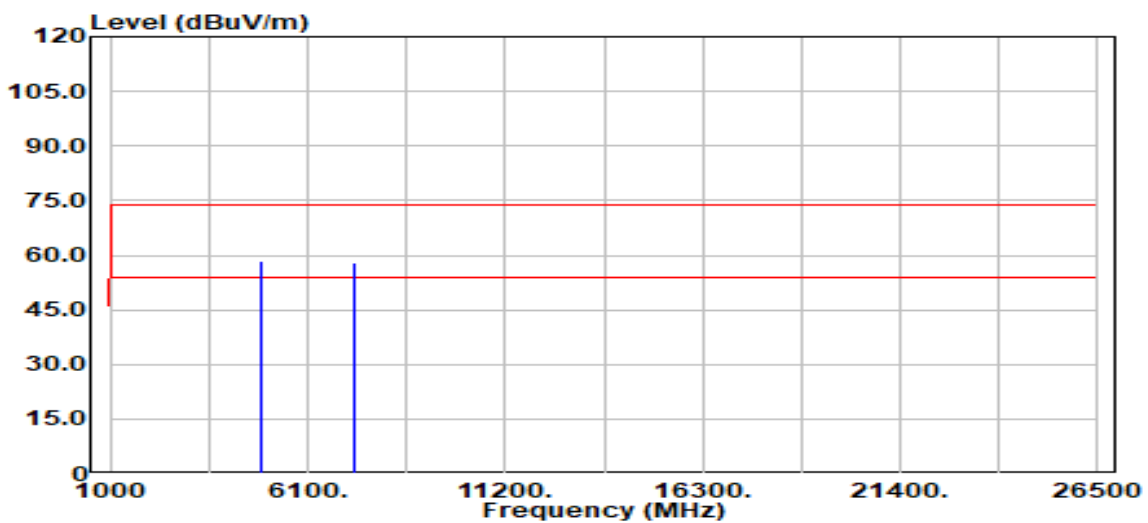


| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBµV) | Factor<br>(dB) | Actual<br>FS<br>(dBµV/m) | Limit<br>@3m<br>(dBµV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 4804.00        | Peak                           | 51.08                                  | 0.38           | 51.46                    | 74.00                    | -22.54         |
| 4804.00        | Average                        | --                                     | -25.18         | 26.28                    | 54.00                    | -27.72         |
| 7206.00        | Peak                           | 48.41                                  | 5.33           | 53.74                    | 74.00                    | -20.26         |
| 7206.00        | Average                        | --                                     | -25.18         | 28.56                    | 54.00                    | -25.44         |
| N/A            |                                |  |                |                          |                          |                |
|                |                                |  |                |                          |                          |                |

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

|            |                          |               |                 |
|------------|--------------------------|---------------|-----------------|
| Test Mode: | GFSK_BDR-1Mbps<br>Mid CH | Temp/Hum      | 24.4(°C)/ 59%RH |
| Test Item  | Harmonic                 | Test Date     | June 5, 2023    |
| Polarize   | Vertical                 | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average           |               |                 |



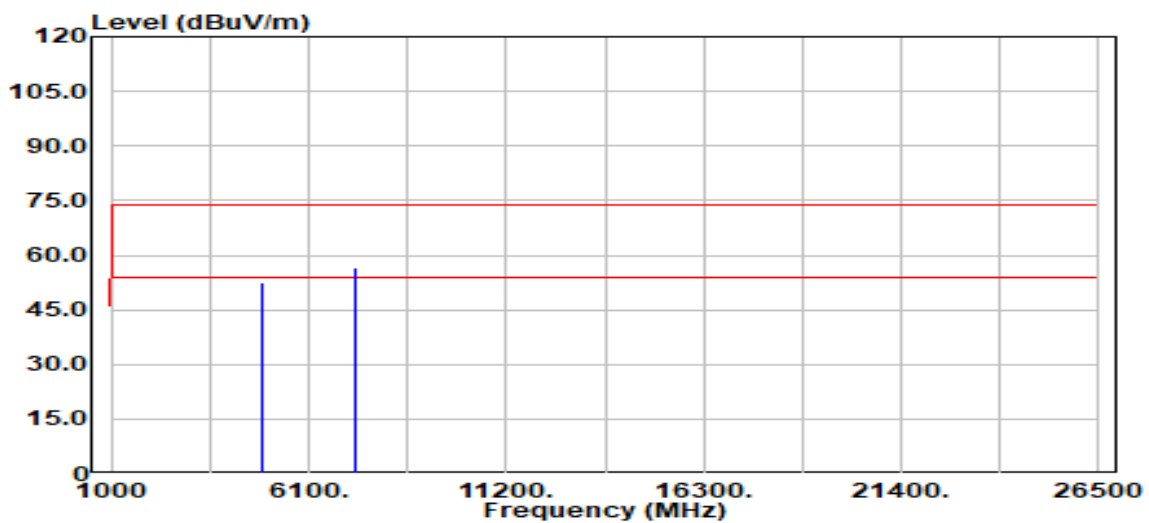
| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBµV) | Factor<br>(dB) | Actual<br>FS<br>(dBµV/m) | Limit<br>@3m<br>(dBµV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 4882.00        | Peak                           | 57.76                                  | 0.49           | 58.24                    | 74.00                    | -15.76         |
| 4882.00        | Average                        | --                                     | -25.18         | 33.06                    | 54.00                    | -20.94         |
| 7323.00        | Peak                           | 52.58                                  | 5.48           | 58.06                    | 74.00                    | -15.94         |
| 7323.00        | Average                        | --                                     | -25.18         | 32.88                    | 54.00                    | -21.12         |
| N/A            |                                |  |                |                          |                          |                |

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.



|            |                          |               |                 |
|------------|--------------------------|---------------|-----------------|
| Test Mode: | GFSK_BDR-1Mbps<br>Mid CH | Temp/Hum      | 24.4(°C)/ 59%RH |
| Test Item  | Harmonic                 | Test Date     | June 5, 2023    |
| Polarize   | Horizontal               | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average           |               |                 |

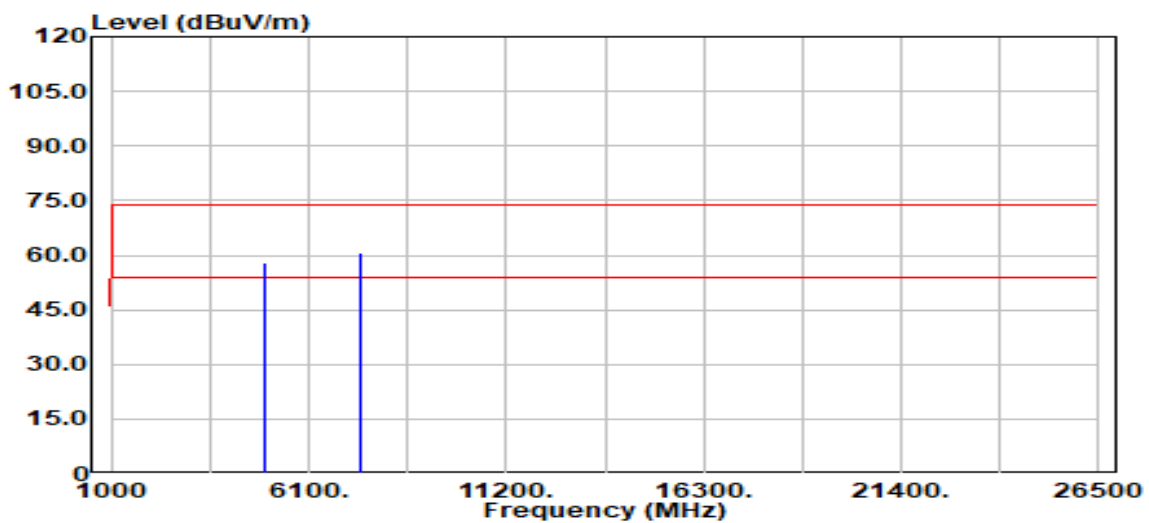


| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBμV) | Factor<br>(dB) | Actual<br>FS<br>(dBμV/m) | Limit<br>@3m<br>(dBμV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 4882.00        | Peak                           | 52.00                                  | 0.49           | 52.49                    | 74.00                    | -21.51         |
| 4882.00        | Average                        | --                                     | -25.18         | 27.31                    | 54.00                    | -26.69         |
| 7323.00        | Peak                           | 51.21                                  | 5.48           | 56.69                    | 74.00                    | -17.31         |
| 7323.00        | Average                        | --                                     | -25.18         | 31.51                    | 54.00                    | -22.49         |
| N/A            |                                |  |                |                          |                          |                |

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

|            |                           |               |                 |
|------------|---------------------------|---------------|-----------------|
| Test Mode: | GFSK_BDR-1Mbps<br>High CH | Temp/Hum      | 24.4(°C)/ 59%RH |
| Test Item  | Harmonic                  | Test Date     | June 5, 2023    |
| Polarize   | Vertical                  | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average            |               |                 |

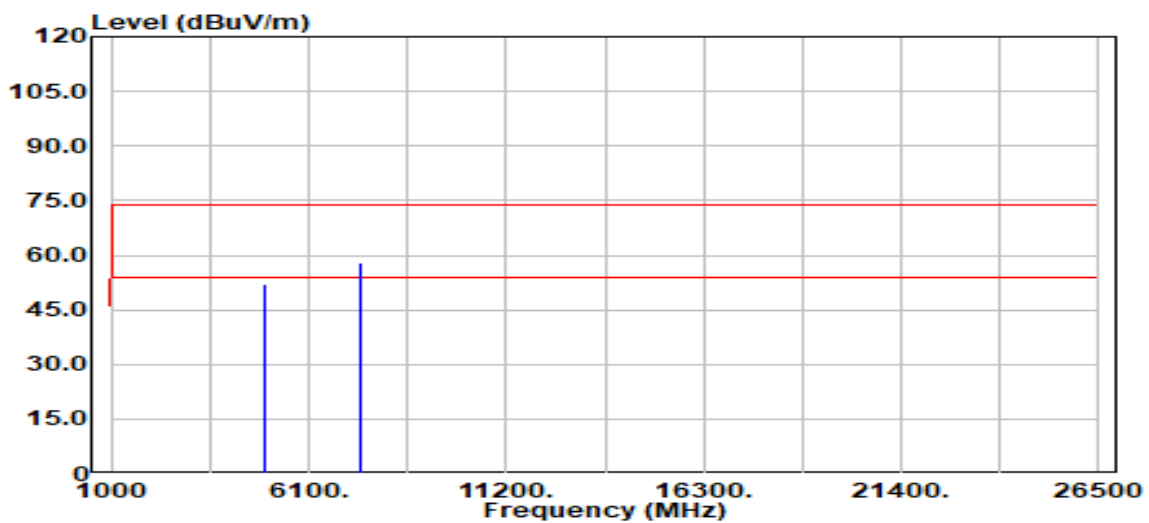


| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBμV) | Factor<br>(dB) | Actual<br>FS<br>(dBμV/m) | Limit<br>@3m<br>(dBμV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 4960.00        | Peak                           | 57.38                                  | 0.65           | 58.03                    | 74.00                    | -15.97         |
| 4960.00        | Average                        | --                                     | -25.18         | 32.85                    | 54.00                    | -21.15         |
| 7440.00        | Peak                           | 54.91                                  | 5.56           | 60.47                    | 74.00                    | -13.53         |
| 7440.00        | Average                        | --                                     | -25.18         | 35.29                    | 54.00                    | -18.71         |
| N/A            |                                |  |                |                          |                          |                |

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

|            |                           |               |                 |
|------------|---------------------------|---------------|-----------------|
| Test Mode: | GFSK_BDR-1Mbps<br>High CH | Temp/Hum      | 24.4(°C)/ 59%RH |
| Test Item  | Harmonic                  | Test Date     | June 5, 2023    |
| Polarize   | Horizontal                | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average            |               |                 |

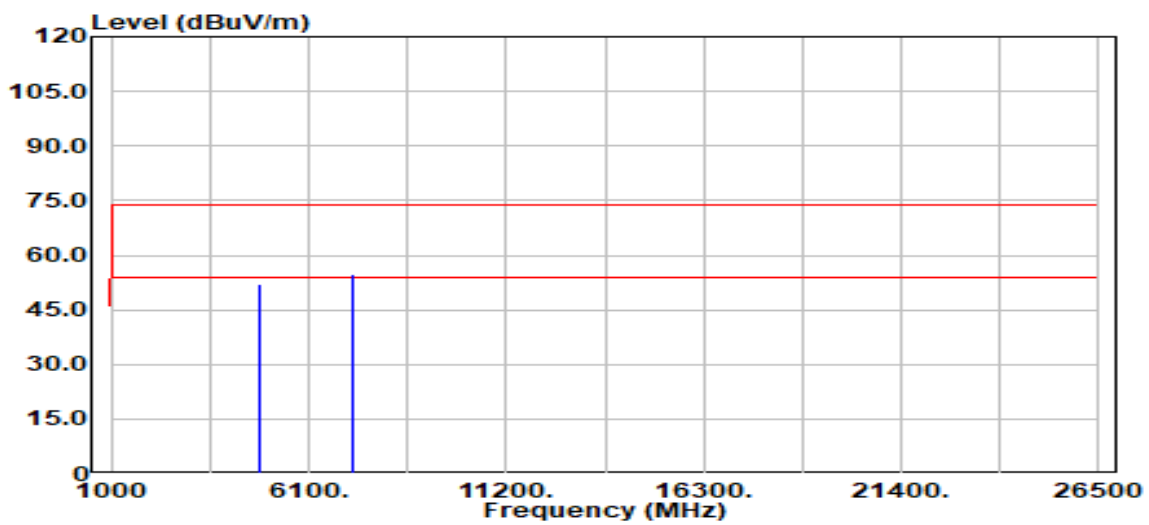


| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBμV) | Factor<br>(dB) | Actual<br>FS<br>(dBμV/m) | Limit<br>@3m<br>(dBμV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 4960.00        | Peak                           | 51.45                                  | 0.65           | 52.10                    | 74.00                    | -21.90         |
| 4960.00        | Average                        | --                                     | -25.18         | 26.92                    | 54.00                    | -27.08         |
| 7440.00        | Peak                           | 52.50                                  | 5.56           | 58.06                    | 74.00                    | -15.94         |
| 7440.00        | Average                        | --                                     | -25.18         | 32.88                    | 54.00                    | -21.12         |
| N/A            |                                |  |                |                          |                          |                |

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

|            |                           |               |                 |
|------------|---------------------------|---------------|-----------------|
| Test Mode: | 8DPSK_EDR-3Mbps<br>Low CH | Temp/Hum      | 24.4(°C)/ 59%RH |
| Test Item  | Harmonic                  | Test Date     | June 5, 2023    |
| Polarize   | Vertical                  | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average            |               |                 |

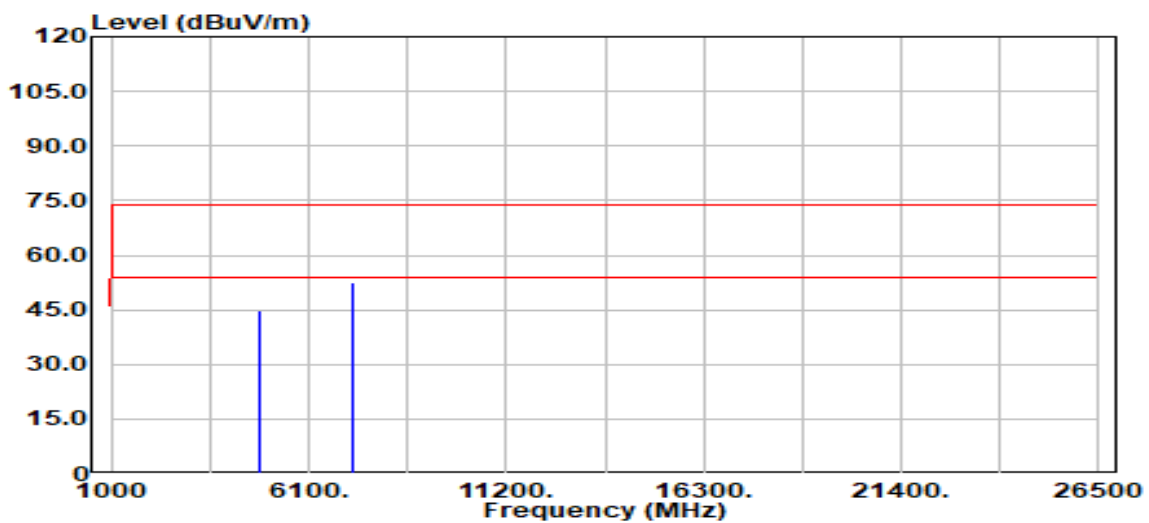


| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBμV) | Factor<br>(dB) | Actual<br>FS<br>(dBμV/m) | Limit<br>@3m<br>(dBμV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 4804.00        | Peak                           | 51.86                                  | 0.38           | 52.24                    | 74.00                    | -21.76         |
| 4804.00        | Average                        | --                                     | -24.87         | 27.37                    | 54.00                    | -26.63         |
| 7206.00        | Peak                           | 49.31                                  | 5.33           | 54.64                    | 74.00                    | -19.36         |
| 7206.00        | Average                        | --                                     | -24.87         | 59.77                    | 54.00                    | -24.23         |
| N/A            |                                |  |                |                          |                          |                |

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

|            |                           |               |                 |
|------------|---------------------------|---------------|-----------------|
| Test Mode: | 8DPSK_EDR-3Mbps<br>Low CH | Temp/Hum      | 24.4(°C)/ 59%RH |
| Test Item  | Harmonic                  | Test Date     | June 5, 2023    |
| Polarize   | Horizontal                | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average            |               |                 |

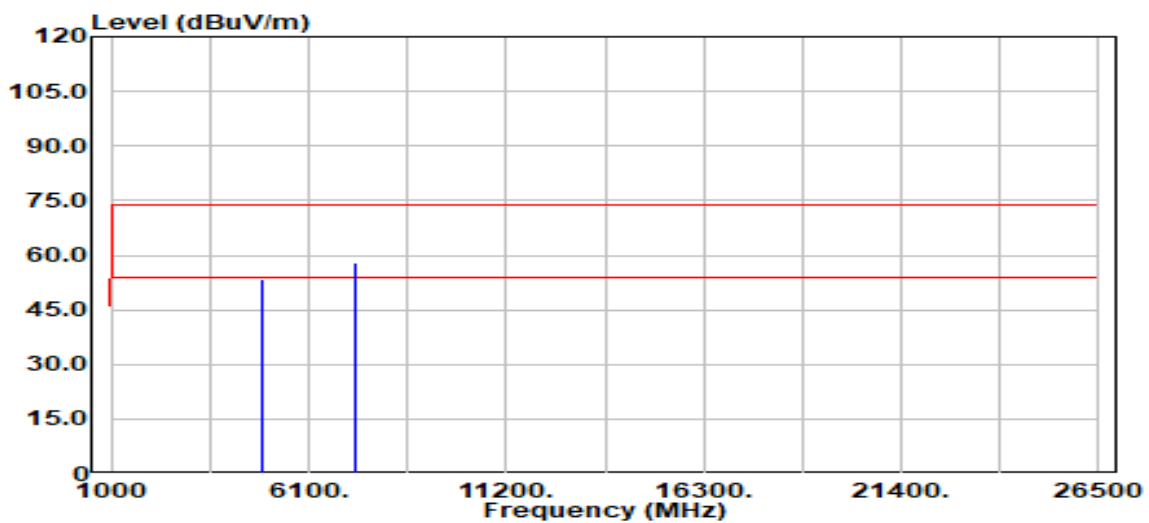


| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dB $\mu$ V) | Factor<br>(dB) | Actual<br>FS<br>(dB $\mu$ V/m) | Limit<br>@3m<br>(dB $\mu$ V/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------------|--------------------------------|----------------|
| 4804.00        | Peak                           | 44.53  | 0.38           | 44.92                          | 74.00                          | -29.08         |
| 4804.00        | Average                        | --   | -24.87         | 20.05                          | 54.00                          | -33.95         |
| 7206.00        | Peak                           | 47.31  | 5.33           | 52.63                          | 74.00                          | -21.37         |
| 7206.00        | Average                        | --   | -24.87         | 27.76                          | 54.00                          | -26.24         |
| N/A            |                                |  |                |                                |                                |                |

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

|            |                           |               |                 |
|------------|---------------------------|---------------|-----------------|
| Test Mode: | 8DPSK_EDR-3Mbps<br>Mid CH | Temp/Hum      | 24.4(°C)/ 59%RH |
| Test Item  | Harmonic                  | Test Date     | June 5, 2023    |
| Polarize   | Vertical                  | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average            |               |                 |

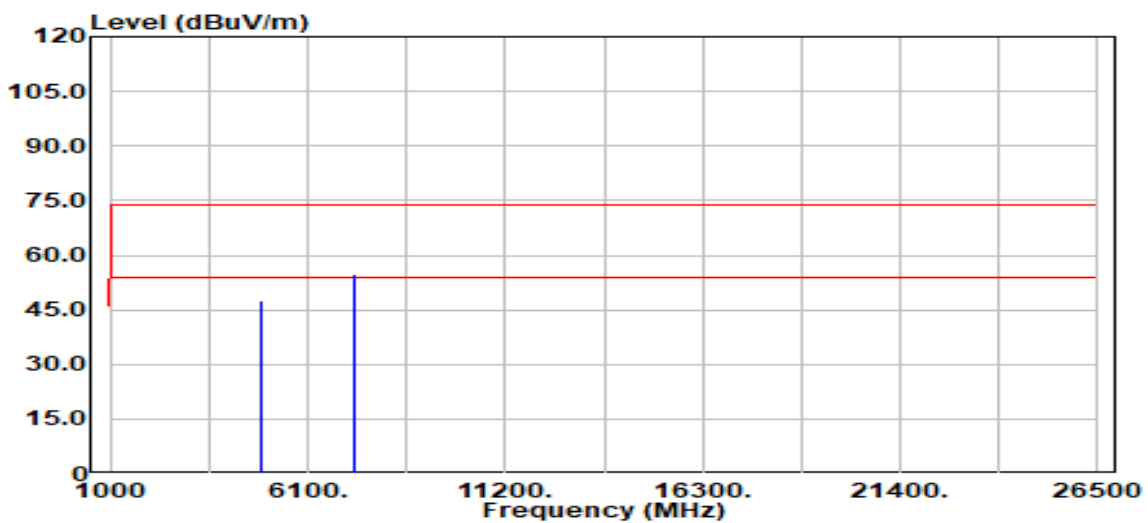


| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBμV) | Factor<br>(dB) | Actual<br>FS<br>(dBμV/m) | Limit<br>@3m<br>(dBμV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 4882.00        | Peak                           | 53.12                                  | 0.49           | 53.61                    | 74.00                    | -20.39         |
| 4882.00        | Average                        | --                                     | -24.87         | 28.74                    | 54.00                    | -25.26         |
| 7323.00        | Peak                           | 52.49                                  | 5.48           | 57.97                    | 74.00                    | -16.03         |
| 7323.00        | Average                        | --                                     | -24.87         | 33.10                    | 54.00                    | -20.90         |
| N/A            |                                |  |                |                          |                          |                |

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

|            |                           |               |                 |
|------------|---------------------------|---------------|-----------------|
| Test Mode: | 8DPSK_EDR-3Mbps<br>Mid CH | Temp/Hum      | 24.4(°C)/ 59%RH |
| Test Item  | Harmonic                  | Test Date     | June 5, 2023    |
| Polarize   | Horizontal                | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average            |               |                 |

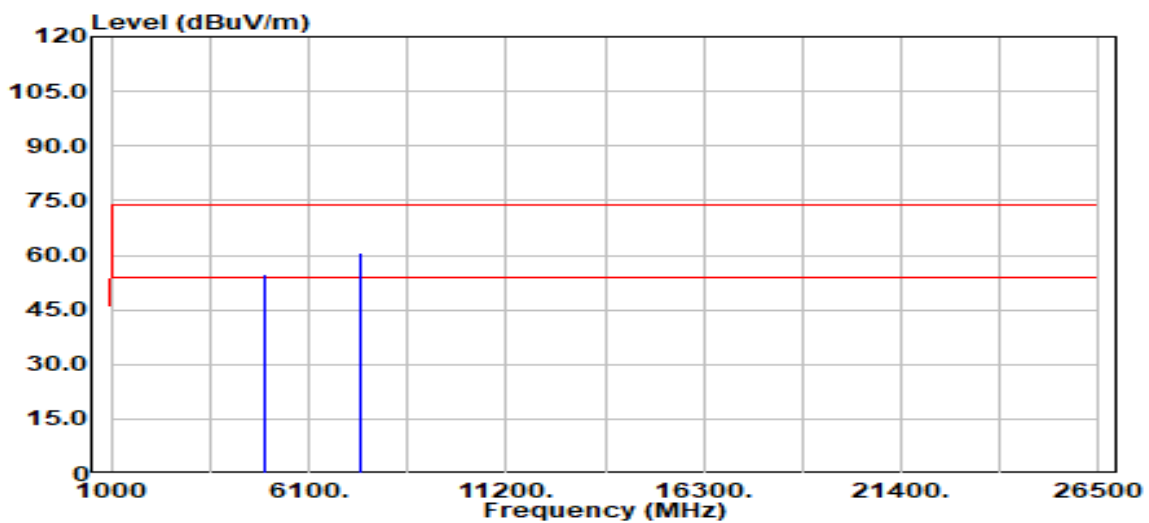


| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dB $\mu$ V) | Factor<br>(dB) | Actual<br>FS<br>(dB $\mu$ V/m) | Limit<br>@3m<br>(dB $\mu$ V/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------------|--------------------------------|----------------|
| 4882.00        | Peak                           | 47.24  | 0.49           | 47.73                          | 74.00                          | -26.27         |
| 4882.00        | Average                        | --   | -24.87         | 22.86                          | 54.00                          | -31.14         |
| 7323.00        | Peak                           | 49.28  | 5.48           | 54.76                          | 74.00                          | -19.24         |
| 7323.00        | Average                        | --   | -24.87         | 29.89                          | 54.00                          | -24.11         |
| N/A            |                                |  |                |                                |                                |                |

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

|            |                            |               |                 |
|------------|----------------------------|---------------|-----------------|
| Test Mode: | 8DPSK_EDR-3Mbps<br>High CH | Temp/Hum      | 24.4(°C)/ 59%RH |
| Test Item  | Harmonic                   | Test Date     | June 5, 2023    |
| Polarize   | Vertical                   | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average             |               |                 |



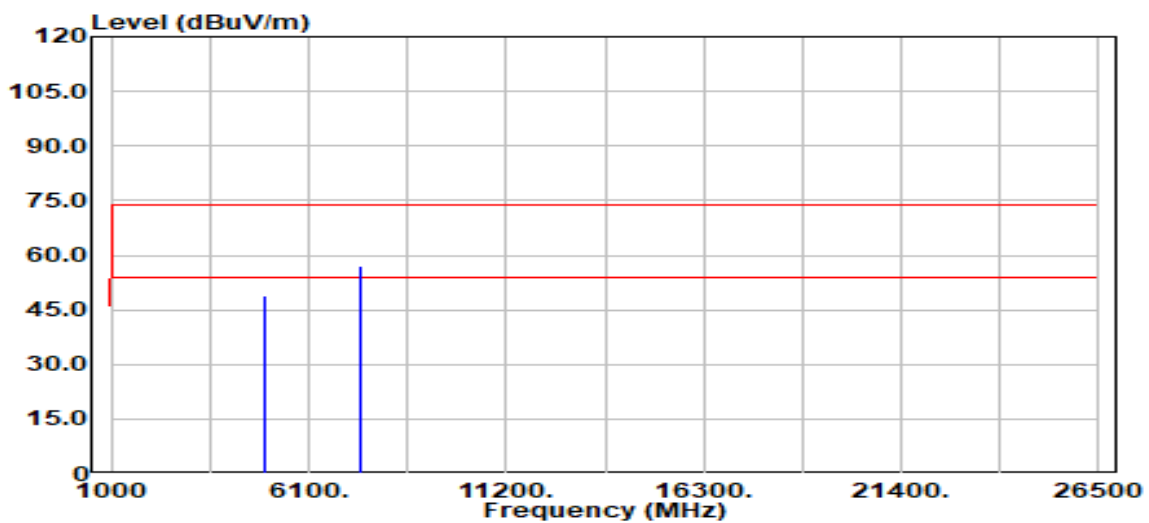
| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBμV) | Factor<br>(dB) | Actual<br>FS<br>(dBμV/m) | Limit<br>@3m<br>(dBμV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 4960.00        | Peak                           | 54.27                                  | 0.65           | 54.92                    | 74.00                    | -19.08         |
| 4960.00        | Average                        | --                                     | -24.87         | 30.05                    | 54.00                    | -23.95         |
| 7440.00        | Peak                           | 55.34                                  | 5.56           | 60.90                    | 74.00                    | -13.10         |
| 7440.00        | Average                        | --                                     | -24.87         | 36.03                    | 54.00                    | -17.97         |
| N/A            |                                |  |                |                          |                          |                |

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.



|            |                            |               |                 |
|------------|----------------------------|---------------|-----------------|
| Test Mode: | 8DPSK_EDR-3Mbps<br>High CH | Temp/Hum      | 24.4(°C)/ 59%RH |
| Test Item  | Harmonic                   | Test Date     | June 5, 2023    |
| Polarize   | Horizontal                 | Test Engineer | Czerny Lin      |
| Detector   | Peak / Average             |               |                 |



| Freq.<br>(MHz) | Detector<br>Mode<br>(PK/QP/AV) | Spectrum<br>Reading<br>Level<br>(dBµV) | Factor<br>(dB) | Actual<br>FS<br>(dBµV/m) | Limit<br>@3m<br>(dBµV/m) | Margin<br>(dB) |
|----------------|--------------------------------|--|----------------|--------------------------|--------------------------|----------------|
| 4960.00        | Peak                           | 48.36                                  | 0.65           | 49.01                    | 74.00                    | -24.99         |
| 4960.00        | Average                        | --                                     | -24.87         | 24.14                    | 54.00                    | -29.86         |
| 7440.00        | Peak                           | 51.70                                  | 5.56           | 57.26                    | 74.00                    | -16.74         |
| 7440.00        | Average                        | --                                     | -24.87         | 32.39                    | 54.00                    | -21.61         |
| N/A            |                                |  |                |                          |                          |                |

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

- End of Test Report -