

# TEST REPORT

**Applicant:** Lightcomm Technology Co., Ltd.

**Address of Applicant:** UNIT 1306 13/F ARION COMMERCIAL CENTRE,2-12  
QUEEN'S ROAD WEST,SHEUNG WAN HK

**Manufacturer/Factory:** Huizhou Hengdu Electronics Co.,Ltd.

**Address of  
Manufacturer/Factory:** No.8 Huitai Road, Huinan High-tech Industrial Park, Huiao  
Avenue, Huizhou, Guangdong, China

**Equipment Under Test (EUT)**

Product Name: Car Entertainment

Model No.: DMX7409XDS, CVS9506W-SG, DMX7412XDS, KW-M8009F,  
CVS1533W-SG

**FCC ID:** XMF-7409K

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart C Section 15.247

**Date of sample receipt:** June 25, 2026

**Date of Test:** June 26, 2026-August 12, 2026

**Date of report issued:** August 12, 2026

**Test Result :** PASS \*

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



**Laboratory Manager**

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

## 2 Version

| Version No. | Date            | Description |
|-------------|-----------------|-------------|
| 00          | August 12, 2026 | Original    |
|             |                 |             |
|             |                 |             |
|             |                 |             |
|             |                 |             |

**Tested By:**

*Jaub. Gai*

**Date:**

*August 12, 2026*

**Test Engineer**

**Prepared By:**

*Jessie Lu*

**Date:**

*August 12, 2026*

**Project Engineer**

**Check By:**

*Robinson Lu*

**Date:**

*August 12, 2026*

**Reviewer**

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## 4 Test Summary

| Test Item                        | Section in CFR 47 | Result |
|----------------------------------|-------------------|--------|
| Antenna requirement              | 15.203/15.247 (c) | Pass   |
| AC Power Line Conducted Emission | 15.207            | N/A    |
| Conducted Output Power           | 15.247 (b)(3)     | Pass   |
| Channel Bandwidth                | 15.247 (a)(2)     | Pass   |
| Power Spectral Density           | 15.247 (e)        | Pass   |
| Band Edge                        | 15.247(d)         | Pass   |
| Spurious Emission                | 15.205/15.209     | Pass   |

### Remarks:

1. Pass: The EUT complies with the essential requirements in the standard.
2. Test according to ANSI C63.10:2020
3. N/A: Not applicable, The product is for use in a vehicle and is powered only by a battery.

### Measurement Uncertainty

| No. | Item                             | Measurement Uncertainty               |
|-----|----------------------------------|---------------------------------------|
| 1   | Radio Frequency                  | $\pm 7.25 \times 10^{-8}$             |
| 2   | Duty cycle                       | $\pm 0.37\%$                          |
| 3   | Occupied Bandwidth               | $\pm 3\%$                             |
| 4   | RF conducted power               | $\pm 0.75\text{dB}$                   |
| 5   | RF power density                 | $\pm 3\text{dB}$                      |
| 6   | Conducted Spurious emissions     | $\pm 2.58\text{dB}$                   |
| 7   | AC Power Line Conducted Emission | $\pm 3.44\text{dB}$ (0.15MHz ~ 30MHz) |
| 8   | Radiated Spurious emission test  | $\pm 3.1\text{dB}$ (9kHz-30MHz)       |
|     |                                  | $\pm 3.8039\text{dB}$ (30MHz-200MHz)  |
|     |                                  | $\pm 3.9679\text{dB}$ (200MHz-1GHz)   |
|     |                                  | $\pm 4.29\text{dB}$ (1GHz-18GHz)      |
|     |                                  | $\pm 3.30\text{dB}$ (18GHz-40GHz)     |
| 9   | Temperature test                 | $\pm 1^\circ\text{C}$                 |
| 10  | Humidity test                    | $\pm 3\%$                             |
| 11  | Time                             | $\pm 3\%$                             |

## 5 General Information

### 5.1 General Description of EUT

|                                                                                                                                                                      |                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| Product Name:                                                                                                                                                        | Car Entertainment                                           |
| Model No.:                                                                                                                                                           | DMX7409XDS, CVS9506W-SG, DMX7412XDS, KW-M8009F, CVS1533W-SG |
| Test Model No.:                                                                                                                                                      | DMX7409XDS                                                  |
| Remark: All above models are identical in the same PCB layout, interior structure and electrical circuits. The only difference is model name for commercial purpose. |                                                             |
| Test sample(s) ID:                                                                                                                                                   | GTS2026060621-1                                             |
| Sample(s) Status:                                                                                                                                                    | Engineer sample                                             |
| S/N:                                                                                                                                                                 | 15100001                                                    |
| Operation Frequency:                                                                                                                                                 | 2402MHz~2480MHz                                             |
| Channel Numbers:                                                                                                                                                     | 40                                                          |
| Channel Separation:                                                                                                                                                  | 2MHz                                                        |
| Modulation Type:                                                                                                                                                     | GFSK                                                        |
| Data Rate:                                                                                                                                                           | LE 1M PHY: 1Mbps<br>LE 2M PHY: 2Mbps                        |
| Antenna Type:                                                                                                                                                        | Glue stick antenna                                          |
| Antenna Gain:                                                                                                                                                        | 6.63dBi(Declared by applicant)                              |
| Power Supply:                                                                                                                                                        | DC 12V                                                      |

Disclaimer statement:

1. Antenna gain information provided by the customer, and the laboratory is not responsible for its authenticity.
2. The information in this section is provided by the applicant or manufacturer, GTS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

| Operation Frequency each of channel |           |         |           |         |           |         |           |
|-------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel                             | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1                                   | 2402 MHz  | 11      | 2422 MHz  | 21      | 2442 MHz  | 31      | 2462 MHz  |
| 2                                   | 2404 MHz  | 12      | 2424 MHz  | 22      | 2444 MHz  | 32      | 2464 MHz  |
| 3                                   | 2406 MHz  | 13      | 2426 MHz  | 23      | 2446 MHz  | 33      | 2466 MHz  |
| 4                                   | 2408 MHz  | 14      | 2428 MHz  | 24      | 2448 MHz  | 34      | 2468 MHz  |
| 5                                   | 2410 MHz  | 15      | 2430 MHz  | 25      | 2450 MHz  | 35      | 2470 MHz  |
| 6                                   | 2412 MHz  | 16      | 2432 MHz  | 26      | 2452 MHz  | 36      | 2472 MHz  |
| 7                                   | 2414 MHz  | 17      | 2434 MHz  | 27      | 2454 MHz  | 37      | 2474 MHz  |
| 8                                   | 2416 MHz  | 18      | 2436 MHz  | 28      | 2456 MHz  | 38      | 2476 MHz  |
| 9                                   | 2418 MHz  | 19      | 2438 MHz  | 29      | 2458 MHz  | 39      | 2478 MHz  |
| 10                                  | 2420 MHz  | 20      | 2440 MHz  | 30      | 2460 MHz  | 40      | 2480 MHz  |

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Channel             | Frequency |
|---------------------|-----------|
| The lowest channel  | 2402MHz   |
| The middle channel  | 2440MHz   |
| The Highest channel | 2480MHz   |

## 5.2 Test mode

|                   |                                                 |
|-------------------|-------------------------------------------------|
| Transmitting mode | Keep the EUT in continuously transmitting mode. |
|-------------------|-------------------------------------------------|

## 5.3 Description of Support Units

| Manufacturer | Description     | Model    | Serial Number |
|--------------|-----------------|----------|---------------|
| MEILI        | DC POWER SUPPLY | MCH-305A | 11121168      |

## 5.4 Deviation from Standards

|       |
|-------|
| None. |
|-------|

## 5.5 Abnormalities from Standard Conditions

|       |
|-------|
| None. |
|-------|

## 5.6 Test Facility

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> <li>● <b>FCC—Registration No.: 381383</b><br/>Designation Number: CN5029<br/>Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files.</li> <li>● <b>ISED—Registration No.: 9079A</b><br/>CAB identifier: CN0091<br/>The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of ISED for radio equipment testing</li> <li>● <b>NVLAP (LAB CODE:600179-0)</b><br/>Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).</li> </ul> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 5.7 Test Location

|                                                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| All tests were performed at:                                                                                                                                                                                                                                  |
| <p>Global United Technology Services Co., Ltd.<br/>Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102<br/>Tel: 0755-27798480<br/>Fax: 0755-27798960</p> |

## 5.8 Additional Instructions

|                   |                                                |
|-------------------|------------------------------------------------|
| Test Software     | Special test software provided by manufacturer |
| Power level setup | Default                                        |

## 6 Test Instruments list

| Radiated Emission: |                                     |                                |                       |               |                     |                         |
|--------------------|-------------------------------------|--------------------------------|-----------------------|---------------|---------------------|-------------------------|
| Item               | Test Equipment                      | Manufacturer                   | Model No.             | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1                  | 3m Semi- Anechoic Chamber           | ZhongYu Electron               | 9.2(L)*6.2(W)* 6.4(H) | GTS250        | Apr. 10, 2026       | Apr. 09, 2031           |
| 2                  | Control Room                        | ZhongYu Electron               | 6.2(L)*2.5(W)* 2.4(H) | GTS251        | N/A                 | N/A                     |
| 3                  | EMI Test Receiver                   | Rohde & Schwarz                | ESU26                 | GTS203        | Apr. 10, 2026       | Apr. 09, 2027           |
| 4                  | BiConiLog Antenna                   | SCHWARZBECK<br>MESS-ELEKTRONIK | VULB9168              | GTS640        | Apr. 11, 2026       | Apr. 10, 2027           |
| 5                  | Double -ridged waveguide horn       | SCHWARZBECK<br>MESS-ELEKTRONIK | BBHA 9120 D           | GTS208        | Apr. 11, 2026       | Apr. 10, 2027           |
| 6                  | Wideband Radio Communication Tester | Rohde & Schwarz                | CMW500                | GTS575        | Jul 17, 2026        | Jul 16, 2027            |
| 7                  | Loop Antenna                        | ZHINAN                         | ZN30900A              | GTS534        | Nov.22, 2025        | Nov.21, 2026            |
| 8                  | Broadband Preamplifier              | SCHWARZBECK                    | BBV9718               | GTS535        | Apr. 10, 2026       | Apr. 09, 2027           |
| 9                  | Amplifier(1GHz-26.5GHz)             | HP                             | 8449B                 | GTS601        | Apr. 10, 2026       | Apr. 09, 2027           |
| 10                 | Horn Antenna (18GH-40GHz)           | Schwarzbeck                    | BBHA 9170             | GTS691        | Apr. 11, 2026       | Apr. 10, 2027           |
| 11                 | Spectrum analyzer (9kHz-40GHz)      | Rohde & Schwarz                | FSV40-N               | GTS666        | Mar. 10, 2026       | Mar. 09, 2027           |
| 12                 | Amplifier                           | /                              | LNA-1000-30S          | GTS650        | Apr. 10, 2026       | Apr. 09, 2027           |
| 13                 | CDNE M2+M3-16A                      | HCT                            | 30MHz-300MHz          | GTS692        | Nov. 24, 2025       | Nov. 23, 2026           |
| 14                 | Wideband Amplifier                  | /                              | WDA-01004000-15P35    | GTS602        | Apr. 10, 2026       | Apr. 09, 2027           |
| 15                 | Thermo meter                        | JINCHUANG                      | GSP-8A                | GTS643        | Apr. 13, 2026       | Apr. 12, 2027           |
| 16                 | RE cable 1                          | GTS                            | N/A                   | GTS675        | Jul. 17, 2026       | Jul. 16, 2027           |
| 17                 | RE cable 2                          | GTS                            | N/A                   | GTS676        | Jul. 17, 2026       | Jul. 16, 2027           |
| 18                 | RE cable 3                          | GTS                            | N/A                   | GTS677        | Jul. 17, 2026       | Jul. 16, 2027           |
| 19                 | RE cable 4                          | GTS                            | N/A                   | GTS678        | Jul. 17, 2026       | Jul. 16, 2027           |
| 20                 | RE cable 5                          | GTS                            | N/A                   | GTS679        | Jul. 17, 2026       | Jul. 16, 2027           |
| 21                 | RE cable 6                          | GTS                            | N/A                   | GTS680        | Jul. 17, 2026       | Jul. 16, 2027           |
| 22                 | RE cable 7                          | GTS                            | N/A                   | GTS681        | Jul. 22, 2026       | Jul. 21, 2027           |
| 23                 | RE cable 8                          | GTS                            | N/A                   | GTS682        | Jul. 22, 2026       | Jul. 21, 2027           |
| 24                 | CE cable 9                          | GTS                            | N/A                   | GTS683        | Jul. 23, 2026       | Jul. 22, 2027           |
| 25                 | EMI Test Software                   | AUDIX                          | E3-6.100614a          | GTS725        | N/A                 | N/A                     |

| RF Conducted Test: |                                                |              |                     |              |                        |                            |
|--------------------|------------------------------------------------|--------------|---------------------|--------------|------------------------|----------------------------|
| Item               | Test Equipment                                 | Manufacturer | Model No.           | Serial No.   | Cal.Date<br>(mm-dd-yy) | Cal.Due date<br>(mm-dd-yy) |
| 1                  | Wireless Connectivity Test Set                 | Anritsu      | MT8862A             | SN6272327180 | Aug. 26, 2025          | Aug. 25, 2026              |
| 2                  | Bluetooth Test Set                             | Anritsu      | MT8852B             | SN6262097212 | Aug. 26, 2025          | Aug. 25, 2026              |
| 3                  | EXA Signal Analyzer                            | Keysight     | N9010B              | MY60241168   | Aug. 26, 2025          | Aug. 25, 2026              |
| 4                  | Vector Signal Generator                        | Keysight     | N5182B              | MY61250192   | Apr. 16, 2026          | Apr. 15, 2027              |
| 5                  | Analog Signal Generator                        | Keysight     | N5171B              | MY61252573   | Aug. 26, 2025          | Aug. 25, 2026              |
| 6                  | RF Control Unit and Power Test Unit            | Tonscend     | JS0806-2            | SN21F8060437 | Apr. 16, 2026          | Apr. 15, 2027              |
| 7                  | Power Control Unit                             | Tonscend     | JS0806-4ADC         | SN21C8060386 | N/A                    | N/A                        |
| 8                  | Wideband Radio Communication Tester            | R&S          | CWM500              | GTS569       | Aug. 26, 2025          | Aug. 25, 2026              |
| 9                  | Programmable Constant Temp & Humi Test Chamber | WEWON        | WHTH-150L-40-880    | GTS572       | Apr. 10, 2026          | Apr. 09, 2027              |
| 10                 | Thermo meter                                   | JINCHUANG    | GSP-8A              | GTS641       | Apr. 14, 2026          | Apr. 13, 2027              |
| 11                 | Test Software                                  | Tonscend     | JS1120-3<br>V3.5.39 | N/A          | N/A                    | N/A                        |

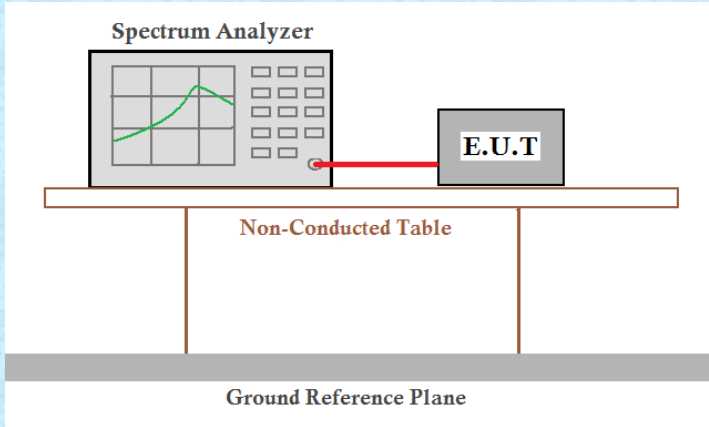
| General used equipment: |                |              |           |               |                        |                            |
|-------------------------|----------------|--------------|-----------|---------------|------------------------|----------------------------|
| Item                    | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date<br>(mm-dd-yy) | Cal.Due date<br>(mm-dd-yy) |
| 1                       | Barometer      | KUMAO        | SF132     | GTS647        | Jul. 21, 2026          | Jul. 20, 2027              |

## 7 Test results and Measurement Data

### 7.1 Antenna requirement

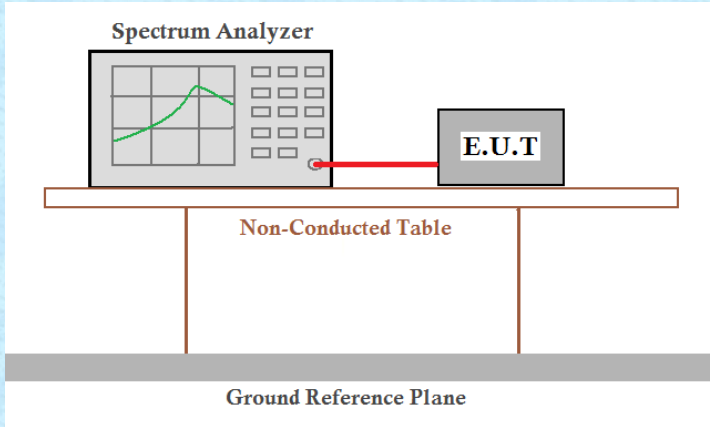
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Standard requirement:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FCC Part15 C Section 15.203 /247(c) |
| <b>15.203 requirement:</b><br>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. |                                     |
| <b>15.247(c) (1)(i) requirement:</b><br>(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.                                                                                |                                     |
| <b>E.U.T Antenna:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                     |
| The antenna is glue stick antenna, reference to the appendix II for details                                                                                                                                                                                                                                                                                                                                                                                                      |                                     |

## 7.2 Conducted Output Power

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 C Section 15.247 (b)(3)                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Test Method:      | ANSI C63.10:2020 and KDB558074 D01 15.247 Meas Guidance v05r02                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Limit:            | 30dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test setup:       |  <p>The diagram illustrates the test setup. A Spectrum Analyzer, shown with a grid and a green curve, is connected to an E.U.T. (Equipment Under Test) box by a red cable. Both the Spectrum Analyzer and the E.U.T. are positioned on a table labeled 'Non-Conducted Table'. This table is supported by two vertical legs and sits on a thick grey horizontal bar labeled 'Ground Reference Plane'.</p> |
| Test Instruments: | Refer to section 6.0 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Test mode:        | Refer to section 5.2 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

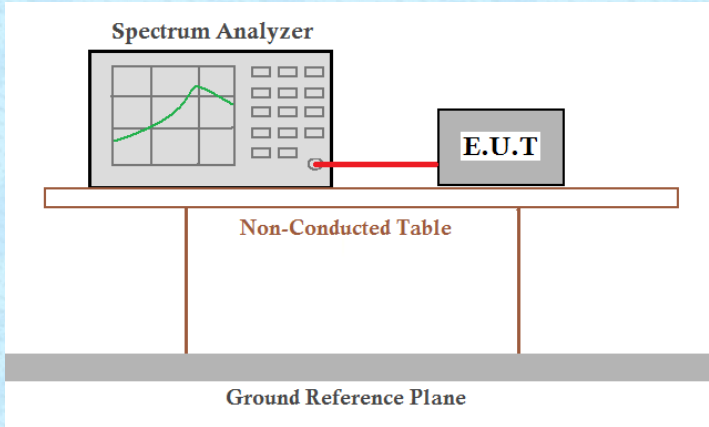
**Measurement Data:** The detailed test data see Appendix for BLE.

## 7.3 Channel Bandwidth

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 C Section 15.247 (a)(2)                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Test Method:      | ANSI C63.10:2020 and KDB558074 D01 15.247 Meas Guidance v05r02                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Limit:            | >500KHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Test setup:       |  <p>The diagram illustrates the test setup. A Spectrum Analyzer, showing a frequency spectrum on its screen, is connected to an Equipment Under Test (E.U.T.) by a red cable. Both the Spectrum Analyzer and the E.U.T. are positioned on a Non-Conducted Table. This table is supported by a Ground Reference Plane, which is represented by a thick grey bar at the bottom of the setup area.</p> |
| Test Instruments: | Refer to section 6.0 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test mode:        | Refer to section 5.2 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

**Measurement Data:** The detailed test data see Appendix for BLE.

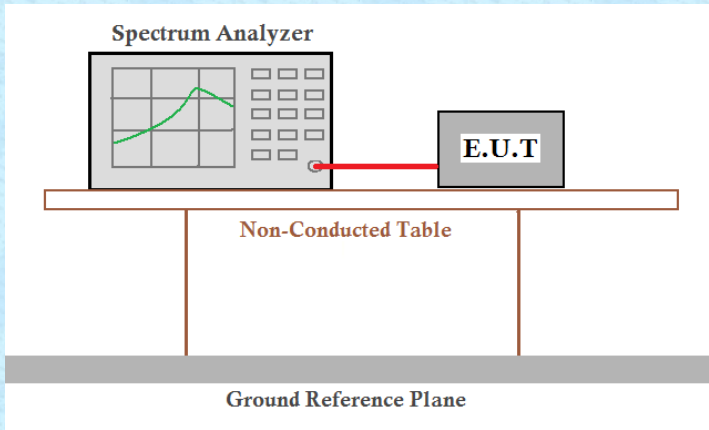
## 7.4 Power Spectral Density

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 C Section 15.247 (e)                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Test Method:      | ANSI C63.10:2020 and KDB558074 D01 15.247 Meas Guidance v05r02                                                                                                                                                                                                                                                                                                                                                                                                               |
| Limit:            | 8dBm/3kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Test setup:       |  <p>The diagram illustrates the test setup. A Spectrum Analyzer, shown with a green trace on its screen, is connected to an E.U.T. (Equipment Under Test) by a red cable. Both the Spectrum Analyzer and the E.U.T. are positioned on a Non-Conducted Table. This table is supported by a Ground Reference Plane, which is represented by a thick grey bar at the bottom of the setup.</p> |
| Test Instruments: | Refer to section 6.0 for details                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Test mode:        | Refer to section 5.2 for details                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

**Measurement Data:** The detailed test data see Appendix for BLE.

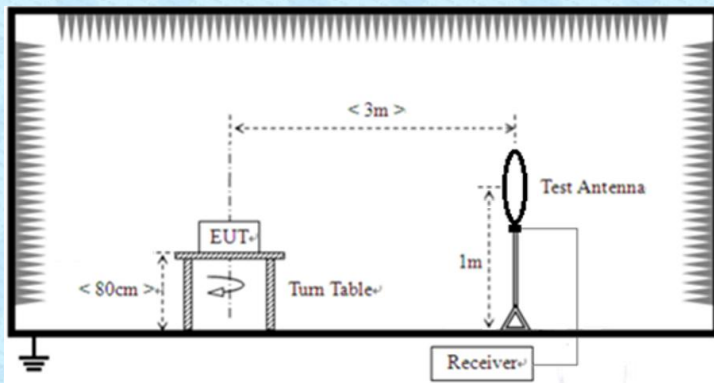
## 7.5 Spurious Emission in Non-restricted & restricted Bands

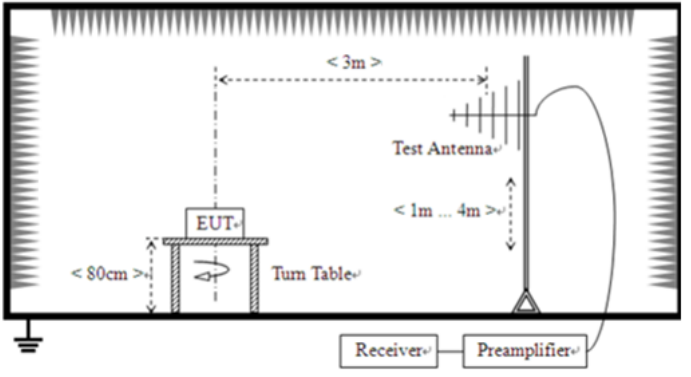
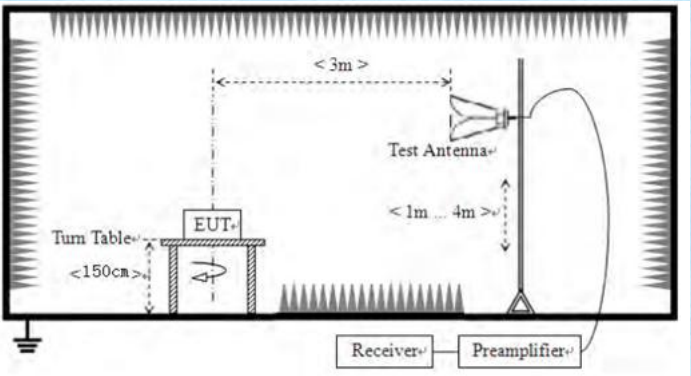
### 7.5.1 Conducted Emission Method

|                   |                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 C Section 15.247 (d)                                                                                                                                                                                                                                                                                                                                                           |
| Test Method:      | ANSI C63.10:2020 and KDB558074 D01 15.247 Meas Guidance v05r02                                                                                                                                                                                                                                                                                                                            |
| Limit:            | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.   |
| Test setup:       |  <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by two vertical legs and sits on a Ground Reference Plane.</p> |
| Test Instruments: | Refer to section 6.0 for details                                                                                                                                                                                                                                                                                                                                                          |
| Test mode:        | Refer to section 5.2 for details                                                                                                                                                                                                                                                                                                                                                          |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                      |

**Measurement Data:** The detailed test data see Appendix for BLE.

## 7.5.2 Radiated Emission Method

|                       |                                                                                                                                            |              |          |                      |            |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------|----------------------|------------|
| Test Requirement:     | FCC Part15 C Section 15.209                                                                                                                |              |          |                      |            |
| Test Method:          | ANSI C63.10:2020                                                                                                                           |              |          |                      |            |
| Test Frequency Range: | 9kHz to 25GHz                                                                                                                              |              |          |                      |            |
| Test site:            | Measurement Distance: 3m                                                                                                                   |              |          |                      |            |
| Receiver setup:       | Frequency                                                                                                                                  | Detector     | RBW      | VBW                  | Value      |
|                       | 9KHz-150KHz                                                                                                                                | Quasi-peak   | 200Hz    | 600Hz                | Quasi-peak |
|                       | 150KHz-30MHz                                                                                                                               | Quasi-peak   | 9KHz     | 30KHz                | Quasi-peak |
|                       | 30MHz-1GHz                                                                                                                                 | Quasi-peak   | 120KHz   | 300KHz               | Quasi-peak |
|                       | Above 1GHz                                                                                                                                 | Peak         | 1MHz     | 3MHz                 | Peak       |
|                       |                                                                                                                                            | Peak         | 1MHz     | 10Hz                 | Average    |
|                       | Note: For Duty cycle $\geq 98\%$ , average detector set as above For Duty cycle $< 98\%$ , average detector set as below: $VBW \geq 1 / T$ |              |          |                      |            |
| Limit:                | Frequency                                                                                                                                  | Limit (uV/m) | Value    | Measurement Distance |            |
|                       | 0.009MHz-0.490MHz                                                                                                                          | 2400/F(KHz)  | QP/PK/AV | 300m                 |            |
|                       | 0.490MHz-1.705MHz                                                                                                                          | 24000/F(KHz) | QP       | 30m                  |            |
|                       | 1.705MHz-30MHz                                                                                                                             | 30           | QP       | 30m                  |            |
|                       | 30MHz-88MHz                                                                                                                                | 100          | QP       | 3m                   |            |
|                       | 88MHz-216MHz                                                                                                                               | 150          | QP       |                      |            |
|                       | 216MHz-960MHz                                                                                                                              | 200          | QP       |                      |            |
|                       | 960MHz-1GHz                                                                                                                                | 500          | QP       |                      |            |
|                       | Above 1GHz                                                                                                                                 | 500          | Average  |                      |            |
|                       |                                                                                                                                            | 5000         | Peak     |                      |            |
| Test setup:           | For radiated emissions from 9kHz to 30MHz                                                                                                  |              |          |                      |            |
|                       |                                                        |              |          |                      |            |

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          | <p>For radiated emissions from 30MHz to 1GHz</p>  <p>For radiated emissions above 1GHz</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <p>Test Procedure:</p>   | <ol style="list-style-type: none"> <li>1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> </ol> |
| <p>Test Instruments:</p> | <p>Refer to section 6.0 for details</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

|                   |                                  |       |         |     |         |          |
|-------------------|----------------------------------|-------|---------|-----|---------|----------|
| Test mode:        | Refer to section 5.2 for details |       |         |     |         |          |
| Test environment: | Temp.:                           | 25 °C | Humid.: | 52% | Press.: | 1012mbar |
| Test voltage:     | DC 12V                           |       |         |     |         |          |
| Test results:     | Pass                             |       |         |     |         |          |

## Measurement data:

### Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

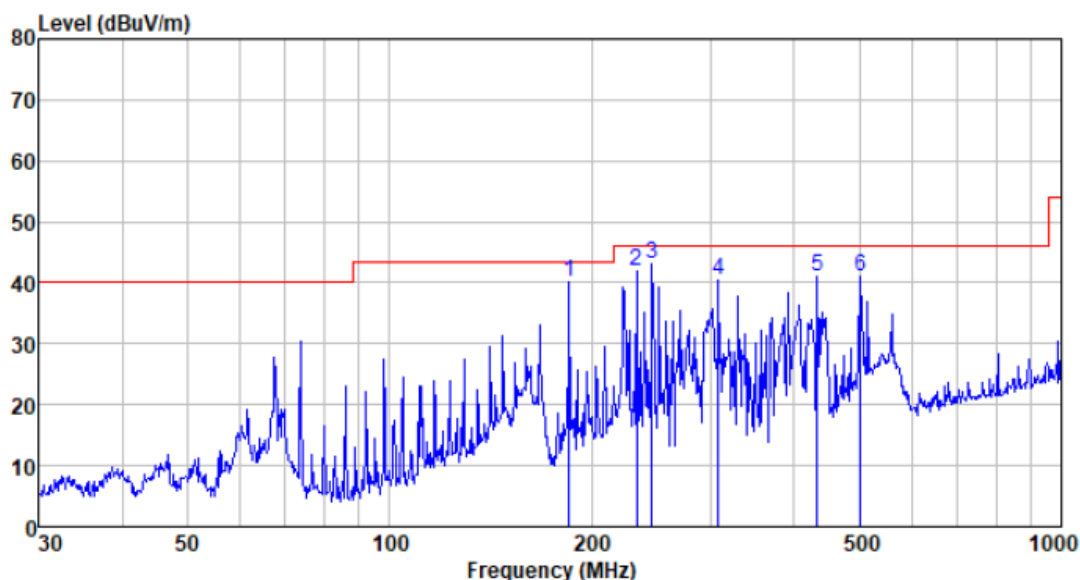
### ■ 9kHz~30MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

## ■ Below 1GHz

Pre-scan all test modes, both 1M and 2M bandwidth were tested and found worst case at 2480MHz@1M bandwidth, and so only show the test result of it.

**Horizontal:**

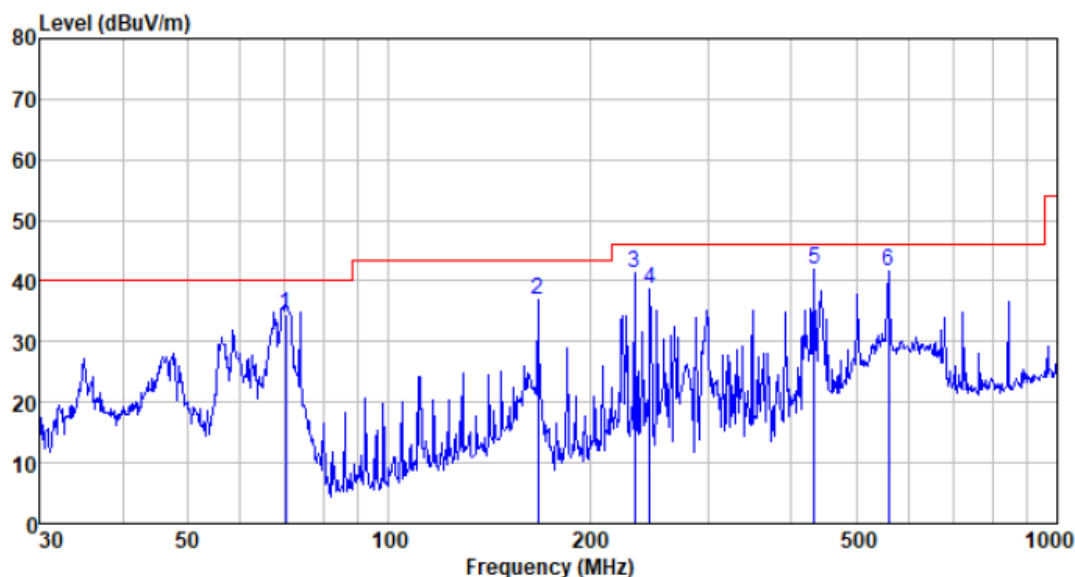


| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | Final<br>level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|--------------------------|--------------------------|---------------------|--------|
| 185.138     | 59.85                    | 10.70                     | 2.70                | 33.12                  | 40.13                    | 43.50                    | -3.37               | QP     |
| 233.349     | 60.53                    | 11.30                     | 3.08                | 33.02                  | 41.89                    | 46.00                    | -4.11               | QP     |
| 245.951     | 61.28                    | 11.54                     | 3.18                | 33.00                  | 43.00                    | 46.00                    | -3.00               | QP     |
| 308.913     | 56.38                    | 13.32                     | 3.61                | 32.89                  | 40.42                    | 46.00                    | -5.58               | QP     |
| 432.546     | 53.27                    | 16.25                     | 4.29                | 32.76                  | 41.05                    | 46.00                    | -4.95               | QP     |
| 502.940     | 51.97                    | 17.20                     | 4.60                | 32.69                  | 41.08                    | 46.00                    | -4.92               | QP     |

Remarks:

Final level(dBuV/m) = Reading level(dBuV) + Antenna factor(dB/m) + Cable loss(dB) - Preamp Factor(dB)

Vertical:



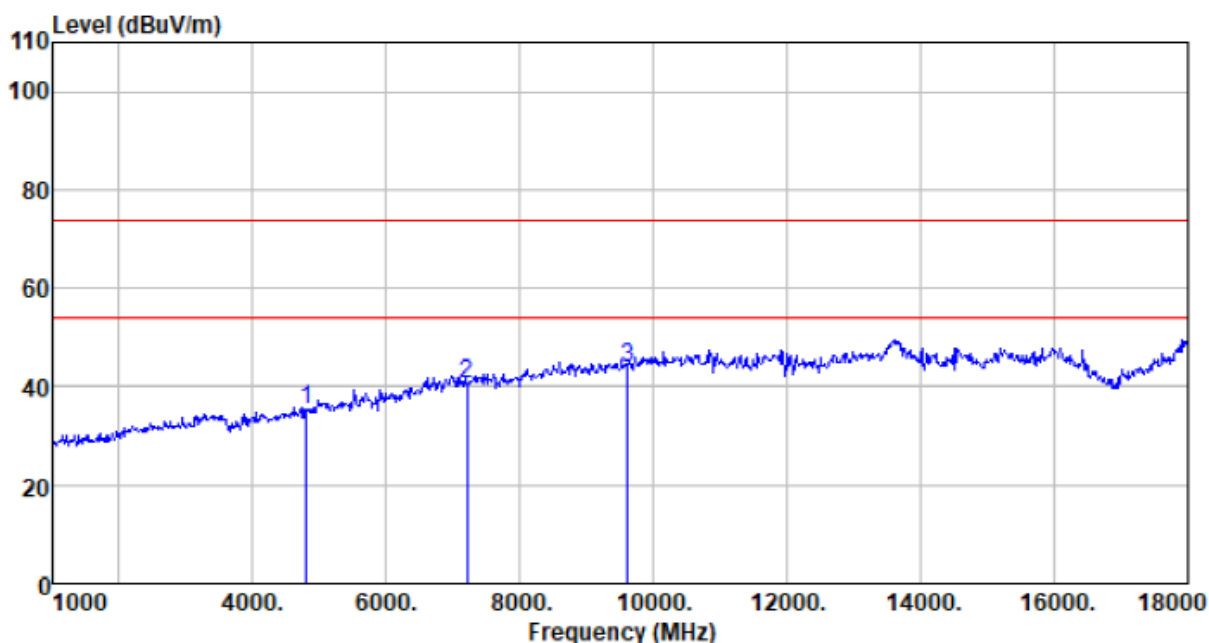
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamplifier<br>factor<br>dB | Final<br>level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------------|--------------------------|--------------------------|---------------------|--------|
| 70.090      | 55.77                    | 10.39                     | 1.73                | 33.35                        | 34.54                    | 40.00                    | -5.46               | QP     |
| 167.237     | 54.58                    | 12.98                     | 2.58                | 33.15                        | 36.99                    | 43.50                    | -6.51               | QP     |
| 233.349     | 60.06                    | 11.30                     | 3.08                | 33.02                        | 41.42                    | 46.00                    | -4.58               | QP     |
| 245.951     | 56.94                    | 11.54                     | 3.18                | 33.00                        | 38.66                    | 46.00                    | -7.34               | QP     |
| 432.546     | 54.10                    | 16.25                     | 4.29                | 32.76                        | 41.88                    | 46.00                    | -4.12               | QP     |
| 558.730     | 51.10                    | 18.17                     | 4.88                | 32.53                        | 41.62                    | 46.00                    | -4.38               | QP     |

Remarks:

Final level(dBuV/m) = Reading level(dBuV) + Antenna factor(dB/m) + Cable loss(dB) - Preamplifier Factor(dB)

- Above 1GHz
- Unwanted Emissions in Non-restricted Frequency Bands

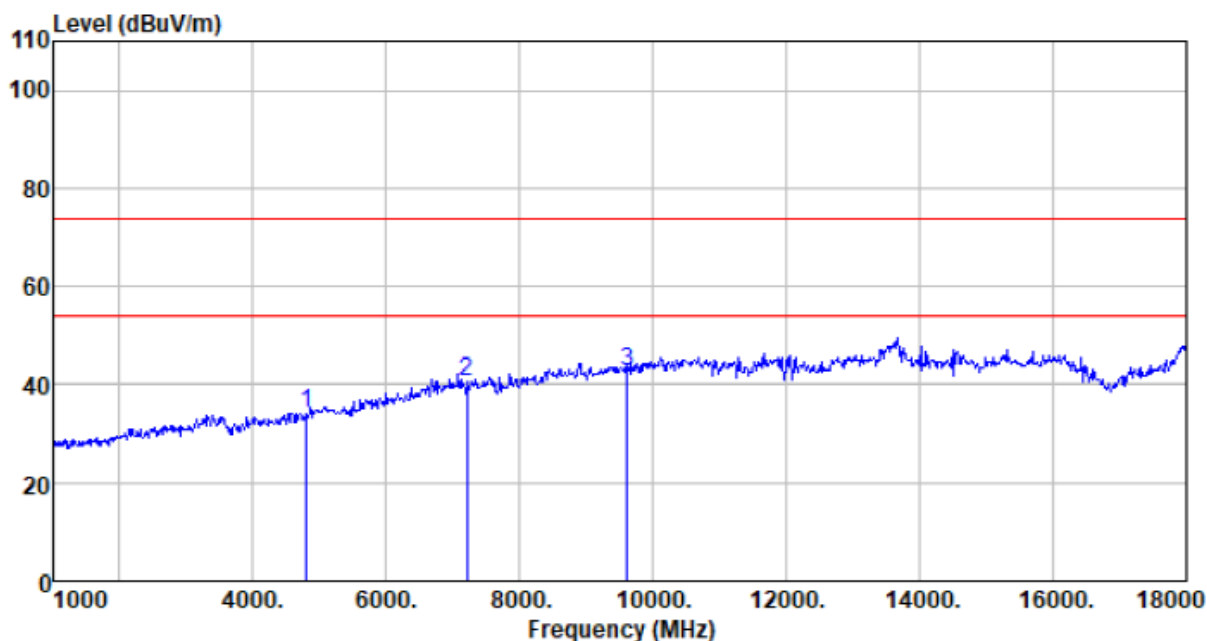
|               |        |               |            |
|---------------|--------|---------------|------------|
| Test channel: | Lowest | Polarization: | Horizontal |
|---------------|--------|---------------|------------|



| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 4804.000    | 35.48                    | 32.22                     | 5.56                | 38.02                  | 35.24           | 74.00                    | -38.76              | Peak   |
| 7206.000    | 34.88                    | 36.41                     | 7.17                | 37.96                  | 40.50           | 74.00                    | -33.50              | Peak   |
| 9608.000    | 35.75                    | 38.20                     | 9.07                | 39.18                  | 43.84           | 74.00                    | -30.16              | Peak   |

Remarks: level = Reading level + Antenna factor + Cable loss - Preamp Factor

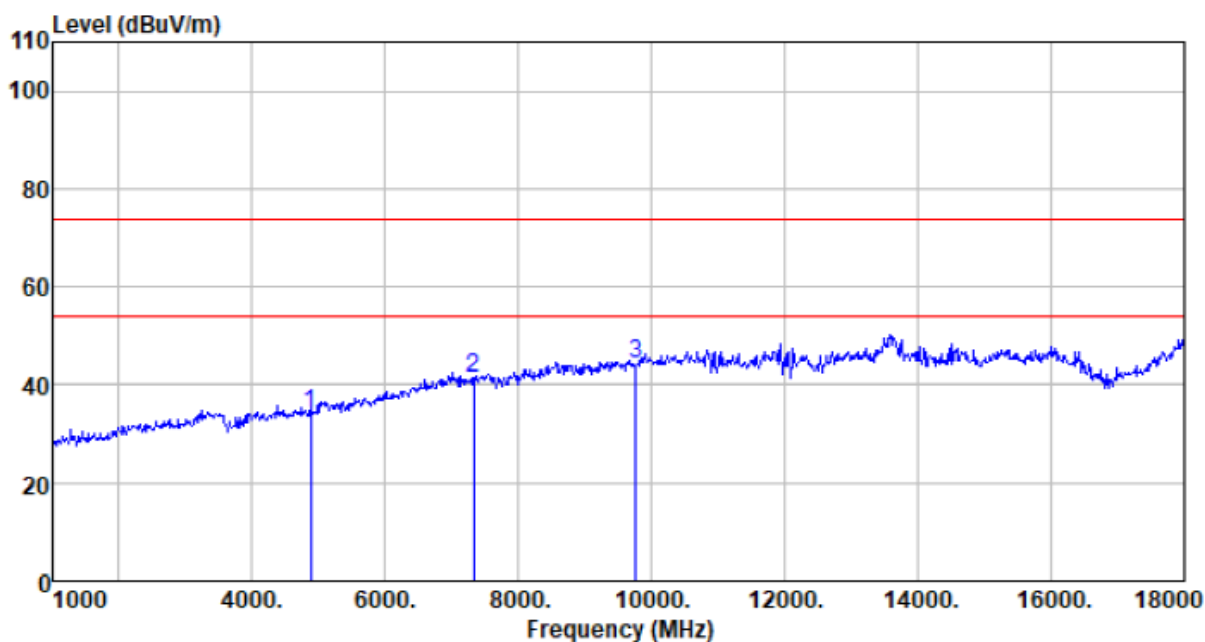
|               |        |               |          |
|---------------|--------|---------------|----------|
| Test channel: | Lowest | Polarization: | Vertical |
|---------------|--------|---------------|----------|



| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 4804.000    | 34.22                    | 32.22                     | 5.56                | 38.02                  | 33.98           | 74.00                    | -40.02              | Peak   |
| 7206.000    | 35.05                    | 36.41                     | 7.17                | 37.96                  | 40.67           | 74.00                    | -33.33              | Peak   |
| 9608.000    | 34.37                    | 38.20                     | 9.07                | 39.18                  | 42.46           | 74.00                    | -31.54              | Peak   |

Remarks: level = Reading level + Antenna factor + Cable loss - Preamp Factor

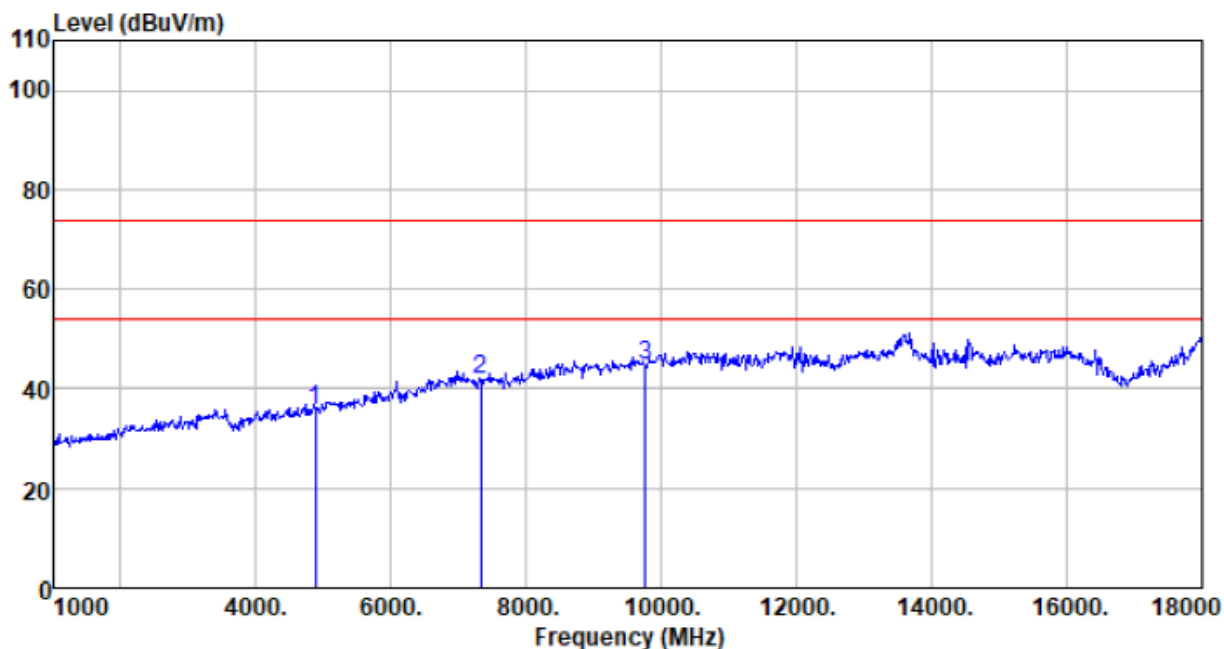
|               |        |               |            |
|---------------|--------|---------------|------------|
| Test channel: | Middle | Polarization: | Horizontal |
|---------------|--------|---------------|------------|



| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 4880.000    | 33.96                    | 32.56                     | 5.66                | 37.97                  | 34.21           | 74.00                    | -39.79              | Peak   |
| 7320.000    | 35.74                    | 36.64                     | 7.26                | 38.06                  | 41.58           | 74.00                    | -32.42              | Peak   |
| 9760.000    | 36.02                    | 38.30                     | 9.17                | 39.23                  | 44.26           | 74.00                    | -29.74              | Peak   |

Remarks: level = Reading level + Antenna factor + Cable loss - Preamp Factor

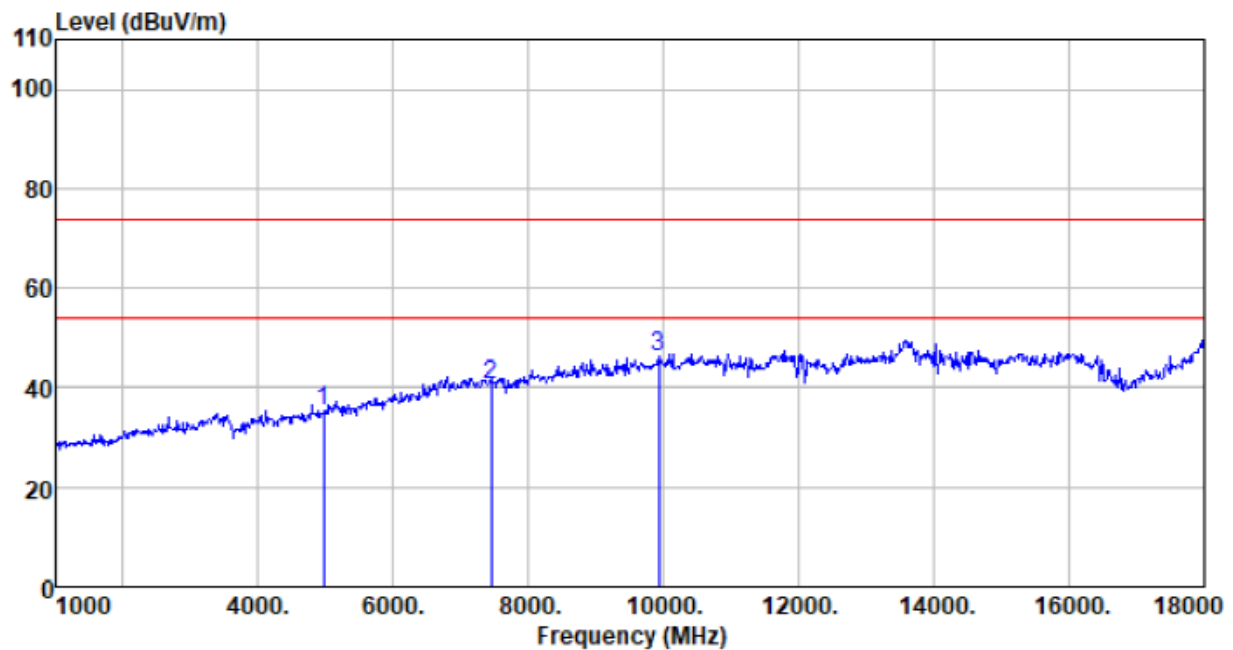
|               |        |               |          |
|---------------|--------|---------------|----------|
| Test channel: | Middle | Polarization: | Vertical |
|---------------|--------|---------------|----------|



| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 4880.000    | 35.67                    | 32.56                     | 5.66                | 37.97                  | 35.92           | 74.00                    | -38.08              | Peak   |
| 7320.000    | 35.86                    | 36.64                     | 7.26                | 38.06                  | 41.70           | 74.00                    | -32.30              | Peak   |
| 9760.000    | 36.31                    | 38.30                     | 9.17                | 39.23                  | 44.55           | 74.00                    | -29.45              | Peak   |

Remarks: level = Reading level + Antenna factor + Cable loss - Preamp Factor

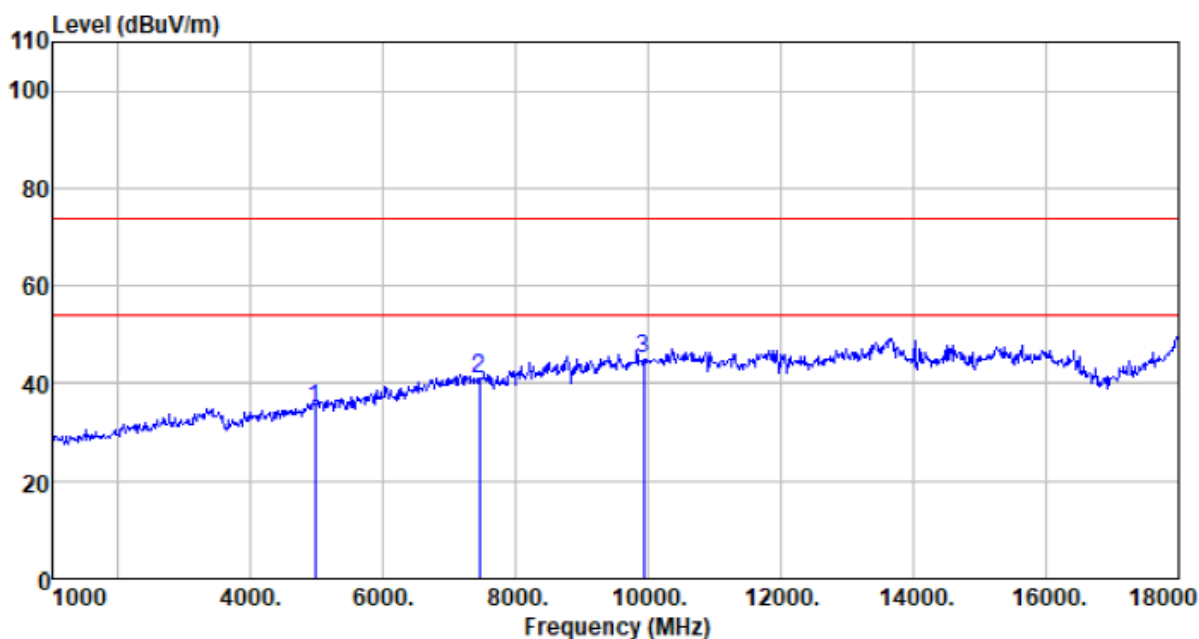
|               |         |               |            |
|---------------|---------|---------------|------------|
| Test channel: | Highest | Polarization: | Horizontal |
|---------------|---------|---------------|------------|



| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 4960.000    | 34.68                    | 32.74                     | 5.77                | 37.92                  | 35.27           | 74.00                    | -38.73              | Peak   |
| 7440.000    | 34.72                    | 36.68                     | 7.33                | 38.15                  | 40.58           | 74.00                    | -33.42              | Peak   |
| 9920.000    | 37.89                    | 38.40                     | 9.24                | 39.28                  | 46.25           | 74.00                    | -27.75              | Peak   |

Remarks: level = Reading level + Antenna factor + Cable loss - Preamp Factor

|               |         |               |          |
|---------------|---------|---------------|----------|
| Test channel: | Highest | Polarization: | Vertical |
|---------------|---------|---------------|----------|



| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 4960.000    | 34.47                    | 32.74                     | 5.77                | 37.92                  | 35.06           | 74.00                    | -38.94              | Peak   |
| 7440.000    | 35.28                    | 36.68                     | 7.33                | 38.15                  | 41.14           | 74.00                    | -32.86              | Peak   |
| 9920.000    | 36.79                    | 38.40                     | 9.24                | 39.28                  | 45.15           | 74.00                    | -28.85              | Peak   |

Remarks: level = Reading level + Antenna factor + Cable loss - Preamp Factor

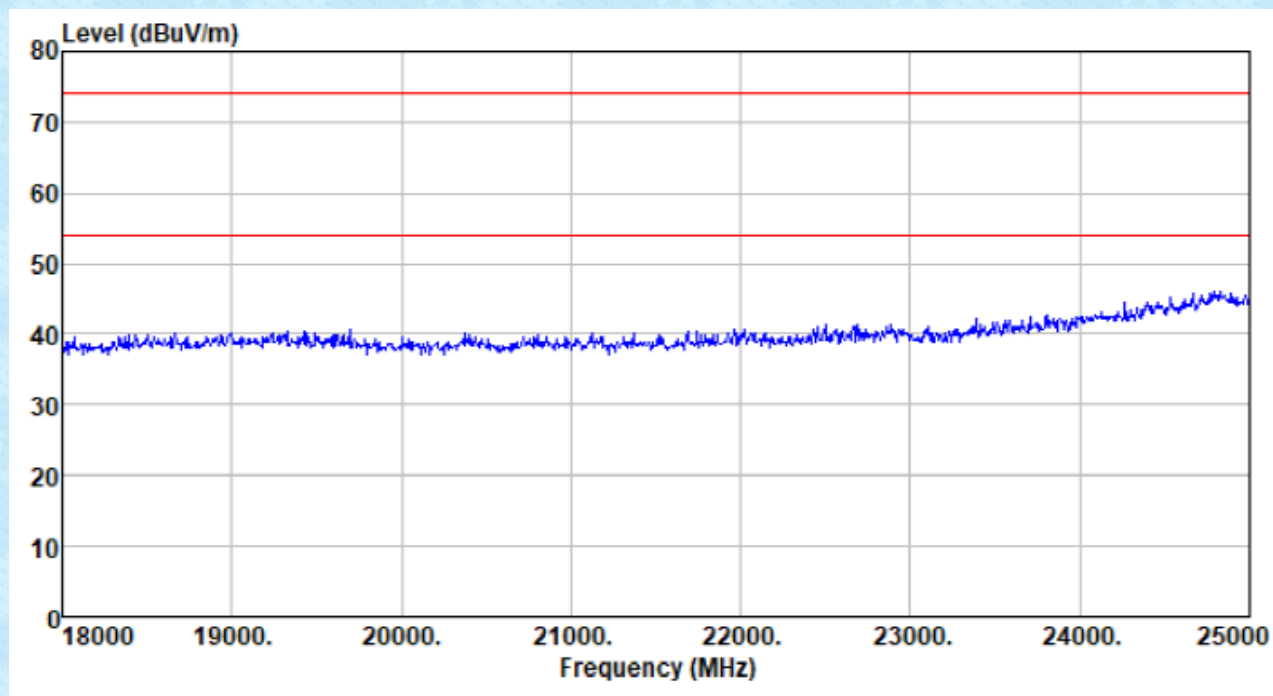
## Notes:

1. The emission levels of other frequencies are very lower than the limit and not show in test report.
2. Both 1MHz and 2MHz bandwidth were tested and passed, only report the worst condition (GFSK\_1MHz)

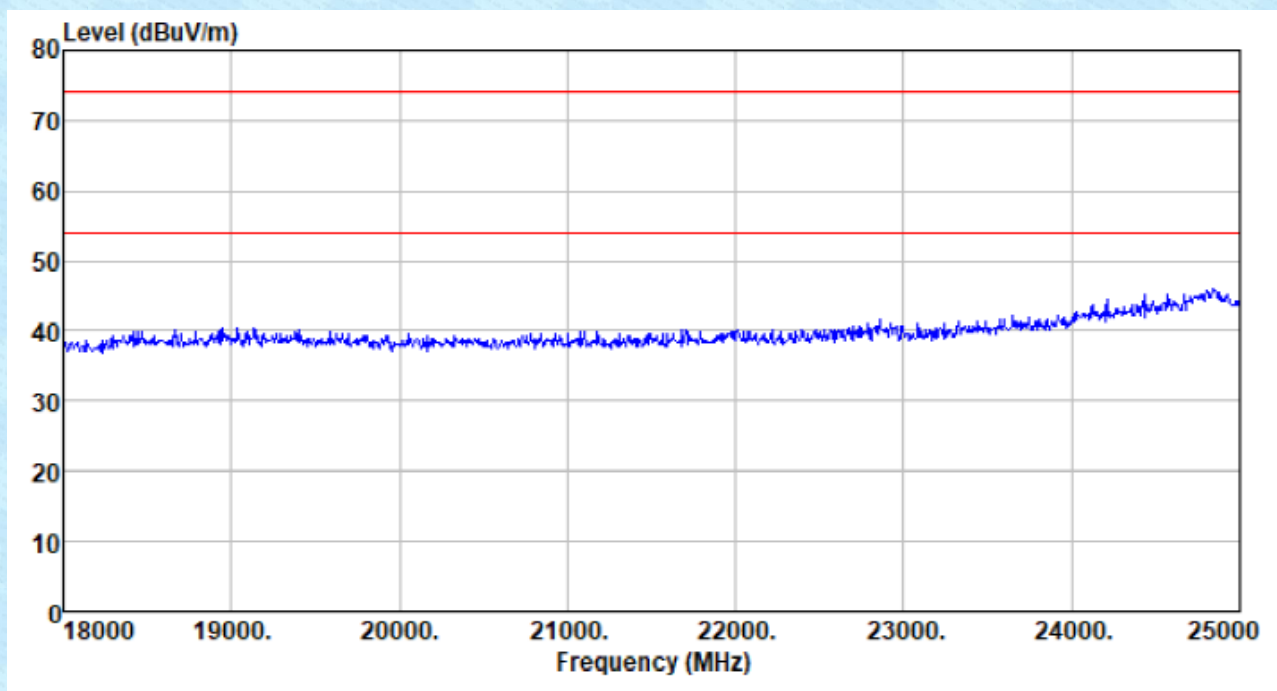
## ■ Above 18GHz

Pre-scan all test modes, found worst case at 2480MHz@1M bandwidth, and so only show the test result of it.

|               |         |               |            |
|---------------|---------|---------------|------------|
| Test channel: | Highest | Polarization: | Horizontal |
|---------------|---------|---------------|------------|



|               |         |               |          |
|---------------|---------|---------------|----------|
| Test channel: | Highest | Polarization: | Vertical |
|---------------|---------|---------------|----------|

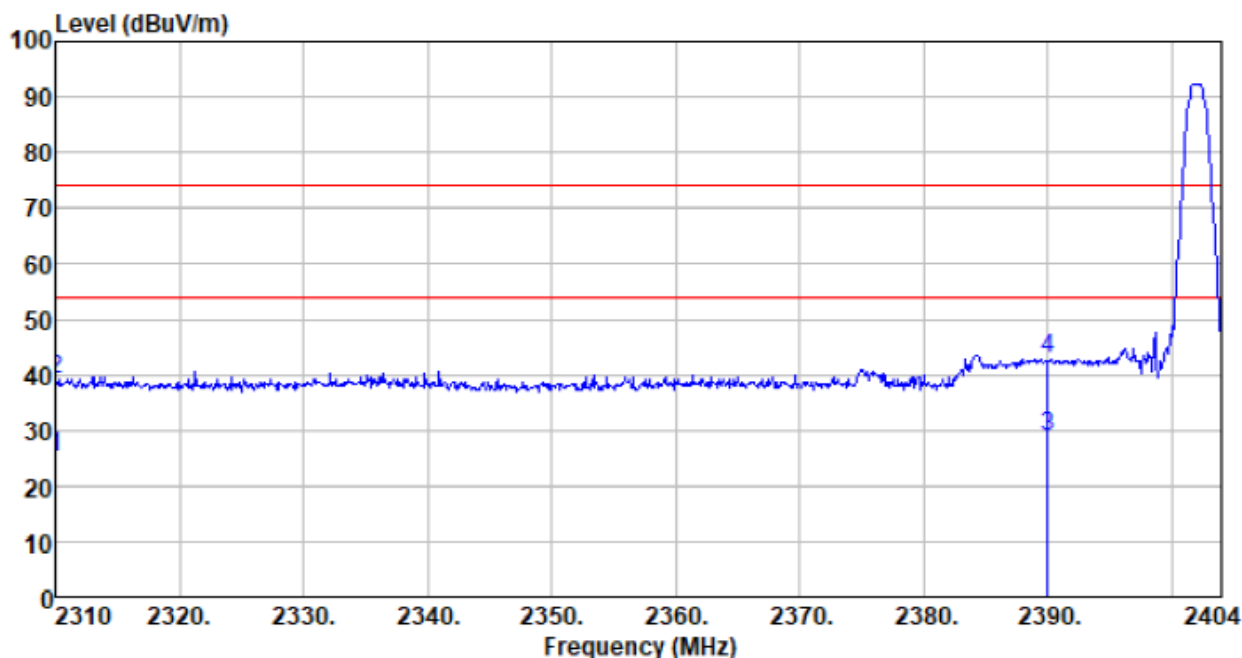


Notes:

1. The emission levels of other frequencies are very lower than the limit and not show in test report.

## ■ Unwanted Emissions in Restricted Frequency Bands

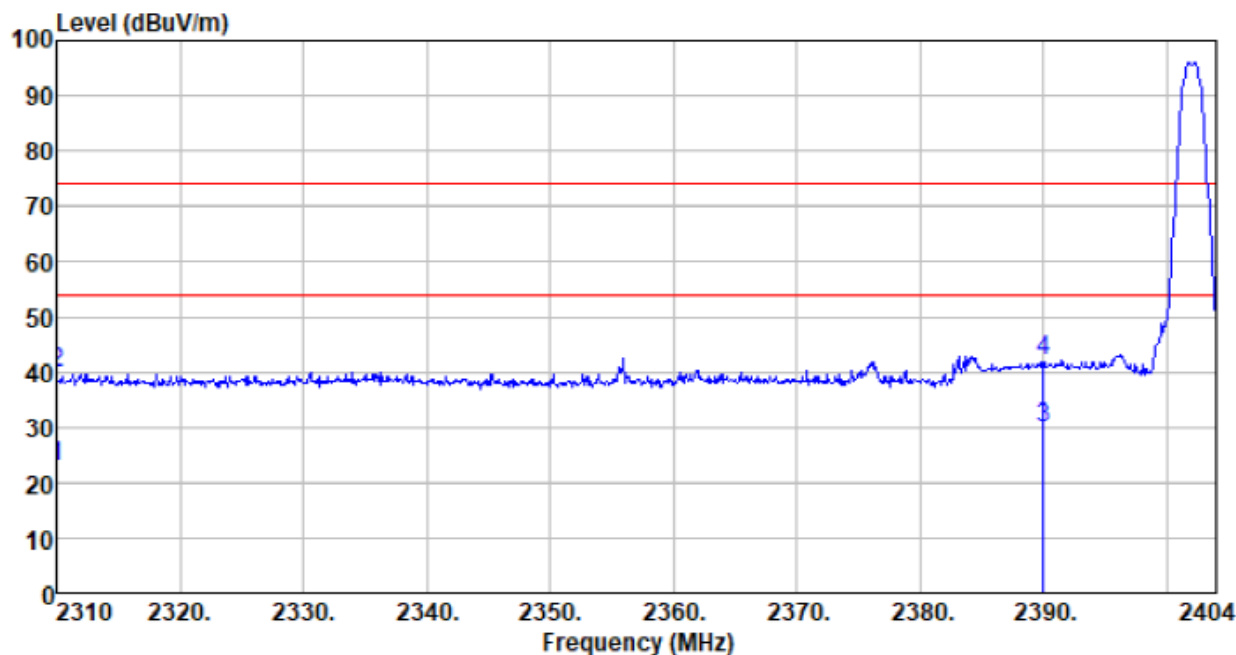
|               |        |               |            |
|---------------|--------|---------------|------------|
| Test channel: | Lowest | Polarization: | Horizontal |
|---------------|--------|---------------|------------|



| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 2310.000    | 32.50                    | 27.48                     | 4.09                | 38.86                  | 25.21           | 54.00                    | -28.79              | Average |
| 2310.000    | 46.31                    | 27.48                     | 4.09                | 38.86                  | 39.02           | 74.00                    | -34.98              | Peak    |
| 2390.000    | 36.26                    | 27.32                     | 4.11                | 38.88                  | 28.81           | 54.00                    | -25.19              | Average |
| 2390.000    | 50.19                    | 27.32                     | 4.11                | 38.88                  | 42.74           | 74.00                    | -31.26              | Peak    |

Remarks: level = Reading level + Antenna factor + Cable loss - Preamp Factor

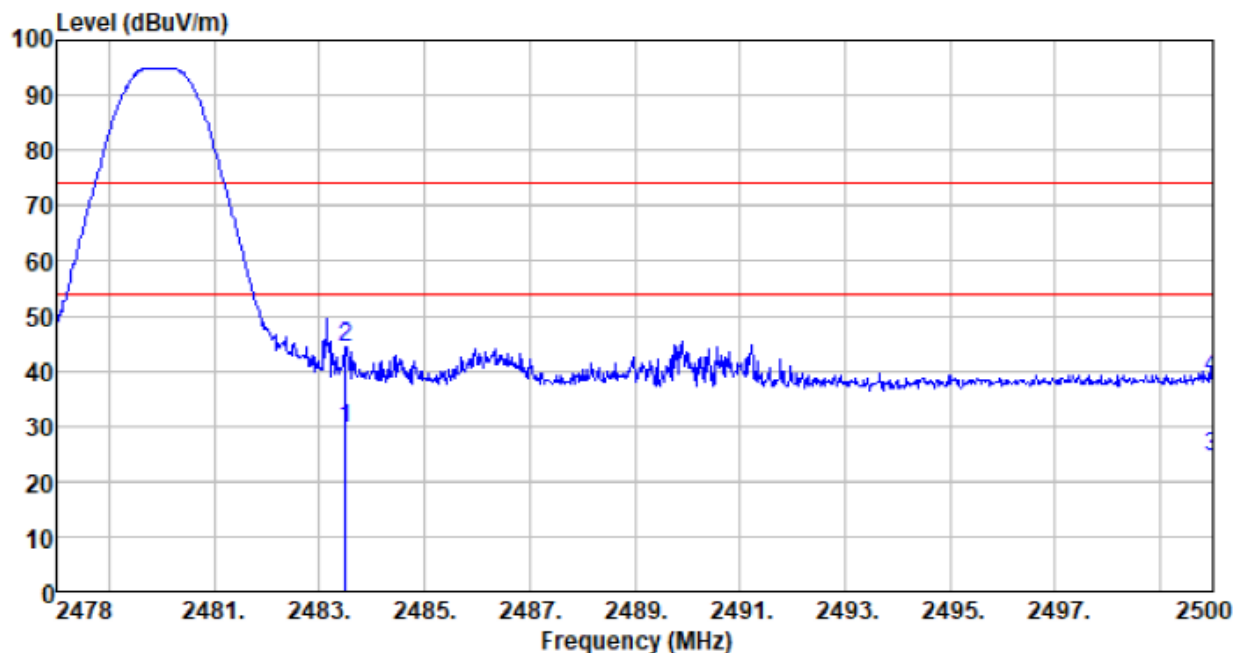
|               |        |               |          |
|---------------|--------|---------------|----------|
| Test channel: | Lowest | Polarization: | Vertical |
|---------------|--------|---------------|----------|



| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 2310.000    | 30.30                    | 27.48                     | 4.09                | 38.86                  | 23.01           | 54.00                    | -30.99              | Average |
| 2310.000    | 47.17                    | 27.48                     | 4.09                | 38.86                  | 39.88           | 74.00                    | -34.12              | Peak    |
| 2390.000    | 37.44                    | 27.32                     | 4.11                | 38.88                  | 29.99           | 54.00                    | -24.01              | Average |
| 2390.000    | 49.37                    | 27.32                     | 4.11                | 38.88                  | 41.92           | 74.00                    | -32.08              | Peak    |

Remarks: level = Reading level + Antenna factor + Cable loss - Preamp Factor

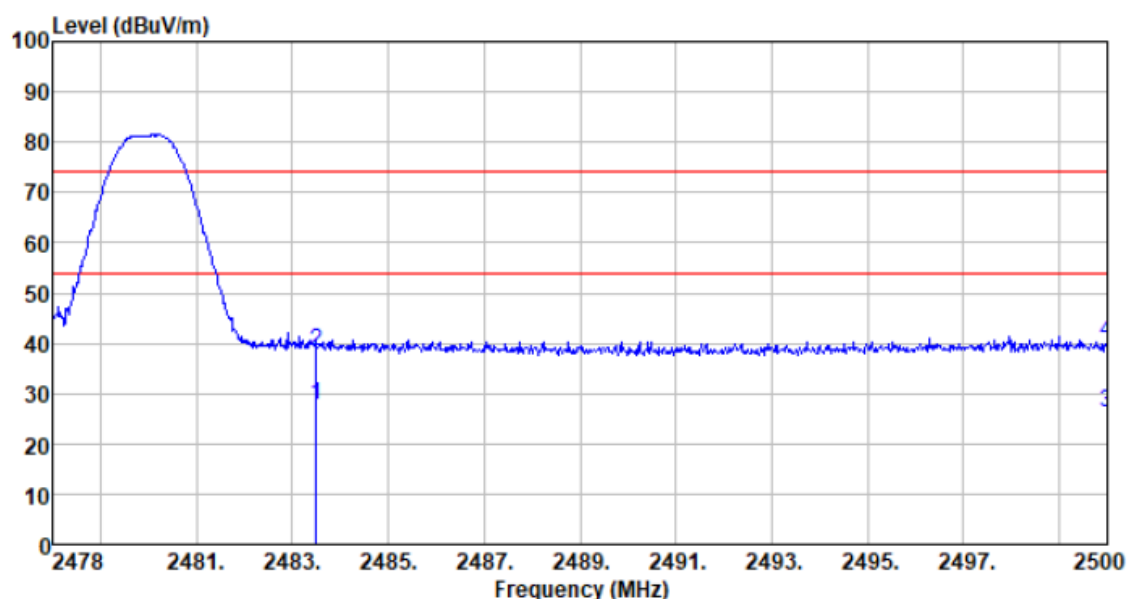
|               |         |               |            |
|---------------|---------|---------------|------------|
| Test channel: | Highest | Polarization: | Horizontal |
|---------------|---------|---------------|------------|



| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 2483.500    | 36.85                    | 27.53                     | 4.13                | 38.90                  | 29.61           | 54.00                    | -24.39              | Average |
| 2483.500    | 51.62                    | 27.53                     | 4.13                | 38.90                  | 44.38           | 74.00                    | -29.62              | Peak    |
| 2500.000    | 31.58                    | 27.60                     | 4.14                | 38.90                  | 24.42           | 54.00                    | -29.58              | Average |
| 2500.000    | 45.74                    | 27.60                     | 4.14                | 38.90                  | 38.58           | 74.00                    | -35.42              | Peak    |

Remarks: level = Reading level + Antenna factor + Cable loss - Preamp Factor

|               |         |               |          |
|---------------|---------|---------------|----------|
| Test channel: | Highest | Polarization: | Vertical |
|---------------|---------|---------------|----------|



| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 2483.500    | 34.35                    | 28.22                     | 4.13                | 38.90                  | 27.80           | 54.00                    | -26.20              | Average |
| 2483.500    | 44.90                    | 28.22                     | 4.13                | 38.90                  | 38.35           | 74.00                    | -35.65              | Peak    |
| 2500.000    | 32.50                    | 28.63                     | 4.14                | 38.90                  | 26.37           | 54.00                    | -27.63              | Average |
| 2500.000    | 46.54                    | 28.63                     | 4.14                | 38.90                  | 40.41           | 74.00                    | -33.59              | Peak    |

Remarks: level = Reading level + Antenna factor + Cable loss - Preamp Factor

## Notes:

1. The emission levels of other frequencies are very lower than the limit and not show in test report.
2. Both 1MHz and 2MHz bandwidth were tested and passed, only report the worst condition (GFSK\_1MHz)

## 8 Test Setup Photo

Reference to the **appendix I** for details.

## 9 EUT Constructional Details

Reference to the **appendix II** for details.

-----End-----