# FCC Test Report (BT-EDR)

| | |
|---|---|
| **Report No.:** | RFBBUI-WTW-P21040655-2 |
| **FCC ID:** | TX2-RTL8852BE |
| **Test Model:** | RTL8852BE |
| **Received Date:** | Apr. 20, 2021 |
| **Test Date:** | June 09 to July 05, 2021 |
| **Issued Date:** | Aug. 02, 2021 |
| **Applicant:** | Realtek Semiconductor Corp. |
| **Address:** | No. 2, Innovation Road II, Hsinchu Science Park, Hsinchu 300, Taiwan |
| **Issued By:** | Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory |
| **Lab Address:** | E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan |
| **Test Location:** | E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan |
| **FCC Registration / Designation Number:** | 723255 / TW2022 |

## Table of Contents

## Release Control Record

| Issue No. | Description | Date Issued |
|---|---|---|
| RFBBUI-WTW-P21040655-2 | Original release. | Aug. 02, 2021 |

## 1 Certificate of Conformity

| | |
|---|---|
| **Product:** | 11ax RTL8852BE Combo module |
| **Brand:** | REALTEK |
| **Test Model:** | RTL8852BE |
| **Sample Status:** | Engineering sample |
| **Applicant:** | Realtek Semiconductor Corp. |
| **Test Date:** | June 09 to July 05, 2021 |
| **Standards:** | 47 CFR FCC Part 15, Subpart C (Section 15.247)<br>ANSI C63.10: 2013 |

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**Prepared by :** _____ **Date:** Aug. 02, 2021

Claire Kuan / Specialist

**Approved by :** _____ **Date:** Aug. 02, 2021

Clark Lin / Technical Manager

## 2 Summary of Test Results

| 47 CFR FCC Part 15, Subpart C (SECTION 15.247) | | | |
|---|---|---|---|
| FCC Clause | Test Item | Result | Remarks |
| 15.207 | AC Power Conducted Emission | PASS | Meet the requirement of limit. Minimum passing margin is -14.42dB at 0.18906 MHz. |
| 15.247(a)(1)(iii) | Number of Hopping Frequency Used | PASS | Meet the requirement of limit. |
| 15.247(a)(1)(iii) | Dwell Time on Each Channel | PASS | Meet the requirement of limit. |
| 15.247(a)(1) | 1. Hopping Channel Separation 2. Spectrum Bandwidth of a Frequency Hopping Sequence Spread Spectrum System | PASS | Meet the requirement of limit. |
| 15.247(b) | Maximum Peak Output Power | PASS | Meet the requirement of limit. |
| 15.205 & 209 & 15.247(d) | Radiated Emissions & Band Edge Measurement | PASS | Meet the requirement of limit. Minimum passing margin is -5.1dB at 119.81MHz. |
| 15.247(d) | Antenna Port Emission | PASS | Meet the requirement of limit. |
| 15.203 | Antenna Requirement | PASS | Antenna connector is i-pex(MHF) not a standard connector. |

**NOTE:**

1. If The Frequency Hopping System operating in 2400-2483.5MHz band and the output power less than 125mW. The hopping channel carrier frequencies separated by a minimum of 25kHz or two-thirds of the 20dB bandwidth of hopping channel whichever is greater.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

### 2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| Measurement | Frequency | Expanded Uncertainty (k=2) (±) |
|---|---|---|
| Conducted Emissions at mains ports | 150kHz ~ 30MHz | 1.9 dB |
| Conducted emissions | - | 2.5 dB |
| Radiated Emissions up to 1 GHz | 9kHz ~ 30MHz | 3.1 dB |
| | 30MHz ~ 1GHz | 5.1 dB |
| Radiated Emissions above 1 GHz | 1GHz ~ 18GHz | 5.1 dB |
| | 18GHz ~ 40GHz | 5.3 dB |

### 2.2 Modification Record

There were no modifications required for compliance.

## 3 General Information

### 3.1 General Description of EUT (BT-EDR)

| | |
|---|---|
| Product | 11ax RTL8852BE Combo module |
| Brand | REALTEK |
| Test Model | RTL8852BE |
| Status of EUT | Engineering sample |
| Power Supply Rating | 3.3Vdc from host equipment |
| Modulation Type | GFSK, π/4-DQPSK, 8DPSK |
| Modulation Technology | FHSS |
| Transfer Rate | Up to 3Mbps |
| Operating Frequency | 2402MHz ~ 2480MHz |
| Number of Channel | 79 |
| Output Power | 17.783 mW |
| Antenna Type | Refer to Note |
| Antenna Connector | Refer to Note |
| Accessory Device | NA |
| Data Cable Supplied | NA |

Note:

1. The EUT has below HW SKU configuration, as below table:

| SKU No. | Interface | Description |
|---|---|---|
| 1 | PCIe + USB | Single antenna port |
| 2 | PCIe + USB | Dual antenna port |
| 3 | PCIe + UART | Dual antenna port |
| Note: From the above HW SKUs, for conducted emission & radiated below 1GHz the worse case was found in **SKU No.: 3** and other test items the worse case was found in **SKU No.: 2**. Therefore only the test data of the SKU was recorded in this report. | | |

2. Simultaneously transmission condition.

| Condition | Technology | |
|---|---|---|
| 1 | WLAN 5GHz | Bluetooth |
| Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found. | | |

3. The antennas provided to the EUT, please refer to the following table:

| Ant. Set | RF Chain No. | Brand | Model | Ant. Net Gain (dBi) | Frequency Range (GHz) | Ant. Type | Connector Type | Cable Length (mm) |
|---|---|---|---|---|---|---|---|---|
| 1 | Chain 0 | ARISTOTLE | RFA-27-JP326-MHF4300 | 3.5 | 2.4~2.4835 | PIFA | i-pex(MHF) | 300 |
| | | | | 5 | 5.15~5.85 | | | |
| | | | | 5 | 5.875~7.125 | | | |
| | Chain 1 | ARISTOTLE | RFA-27-JP326-MHF4300 | 3.5 | 2.4~2.4835 | PIFA | i-pex(MHF) | 300 |
| | | | | 5 | 5.15~5.85 | | | |
| | | | | 5 | 5.875~7.125 | | | |
| 2 | Chain 0 | ARISTOTLE | RFA-27-C38H1-MHF4300 | 3 | 2.4~2.4835 | Dipole | i-pex(MHF) | 300 |
| | | | | 5 | 5.15~5.85 | | | |
| | | | | 5 | 5.875~7.125 | | | |
| | Chain 1 | ARISTOTLE | RFA-27-C38H1-MHF4300 | 3 | 2.4~2.4835 | Dipole | i-pex(MHF) | 300 |
| | | | | 5 | 5.15~5.85 | | | |
| | | | | 5 | 5.875~7.125 | | | |

Note:
1. The Bluetooth technology will fix transmission on Chain 1.
2. Max. gain was selected for the final test, except for the radiated emissions test.

4. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.
5. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

### 3.2 Description of Test Modes

79 channels are provided for BT-EDR mode:

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

### 3.2.1 Test Mode Applicability and Tested Channel Detail

| EUT CONFIGURE MODE | APPLICABLE TO | | | | DESCRIPTION |
|---|---|---|---|---|---|
| | RE≥1G | RE<1G | PLC | APCM | |
| 1 | √ | √ | √ | √ | Low power |
| 2 | √ | √ | √ | √ | High power |

Where **RE≥1G:** Radiated Emission above 1GHz **RE<1G:** Radiated Emission below 1GHz

**PLC:** Power Line Conducted Emission **APCM:** Antenna Port Conducted Measurement

Note: The EUT's PIFA antenna had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane**.

**Radiated Emission Test (Above 1GHz):**

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

| AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | PACKET TYPE |
|---|---|---|---|---|
| 0 to 78 | 0, 39, 78 | FHSS | GFSK | DH5 |
| 0 to 78 | 0, 39, 78 | FHSS | 8DPSK | 3DH5 |

**Radiated Emission Test (Below 1GHz):**

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

| AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | PACKET TYPE |
|---|---|---|---|---|
| 0 to 78 | 0 | FHSS | GFSK | DH5 |

**Power Line Conducted Emission Test:**

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

| AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | PACKET TYPE |
|---|---|---|---|---|
| 0 to 78 | 0 | FHSS | GFSK | DH5 |

**Antenna Port Conducted Measurement:**

☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
☒ Following channel(s) was (were) selected for the final test as listed below.

| AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | PACKET TYPE |
|---|---|---|---|---|
| 0 to 78 | 0, 39, 78 | FHSS | GFSK | DH5 |
| 0 to 78 | 0, 39, 78 | FHSS | 8DPSK | 3DH5 |

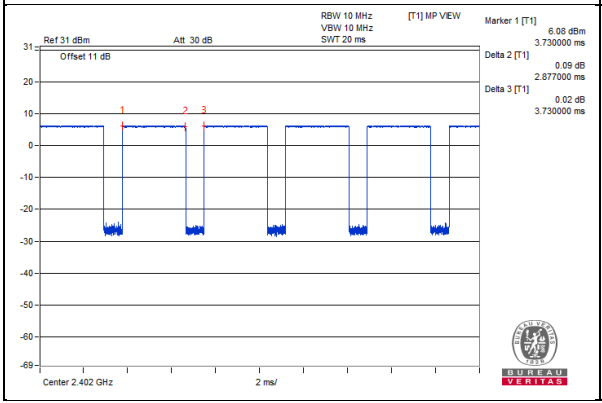
**Test Condition:**

| APPLICABLE TO | ENVIRONMENTAL CONDITIONS | Input Power (System) | TESTED BY |
|---|---|---|---|
| RE≥1G | 24deg. C, 66%RH<br>25deg. C, 67%RH | 120Vac, 60Hz | Tom Yang<br>Sampson Chen |
| RE<1G | 25deg. C, 71%RH | 120Vac, 60Hz | Sampson Chen |
| PLC | 25deg. C, 65%RH | 120Vac, 60Hz | Sampson Chen |
| APCM | 25deg. C, 60%RH | 120Vac, 60Hz | Kevin Ko |

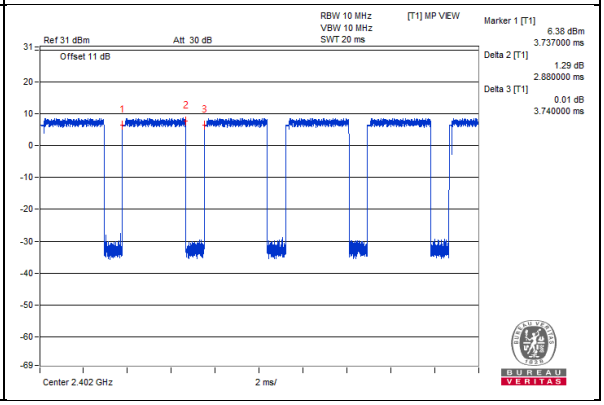
## 3.3 Duty Cycle of Test Signal

**GFSK:** Duty cycle = 2.877 ms/3.73 ms = 0.771
**8DPSK:** Duty cycle = 2.88 ms/3.74 ms = 0.77

**GFSK**




**8DPSK**



## 3.4 Description of Support Units

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

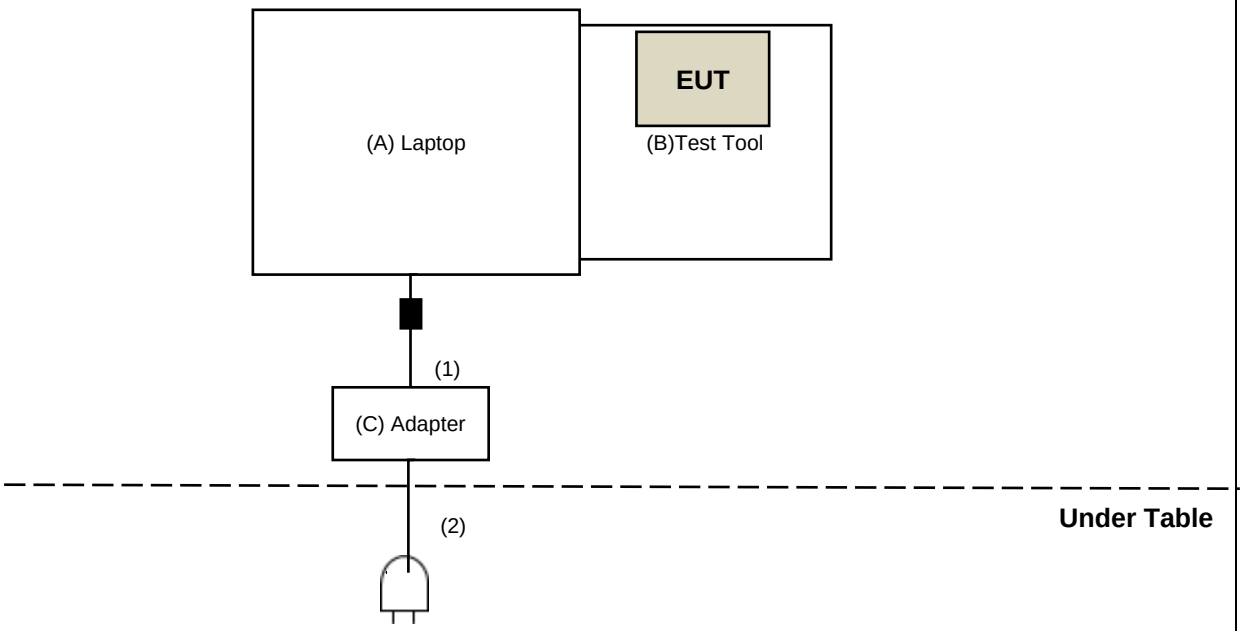
| ID | Product | Brand | Model No. | Serial No. | FCC ID | Remarks |
|---|---|---|---|---|---|---|
| A. | Laptop | DELL | E6420 | B92T3R1 | NA | Provided by Lab |
| B. | Test Tool | Realtek | NA | NA | NA | Supplied by client |
| C. | Adapter | DELL | LA65NS2-01 | NA | NA | Provided by Lab |

| ID | Descriptions | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks |
|---|---|---|---|---|---|---|
| 1. | DC Cable | 1 | 1.8 | No | 1 | Provided by Lab |
| 2. | AC Cable | 1 | 1 | No | 0 | Provided by Lab |

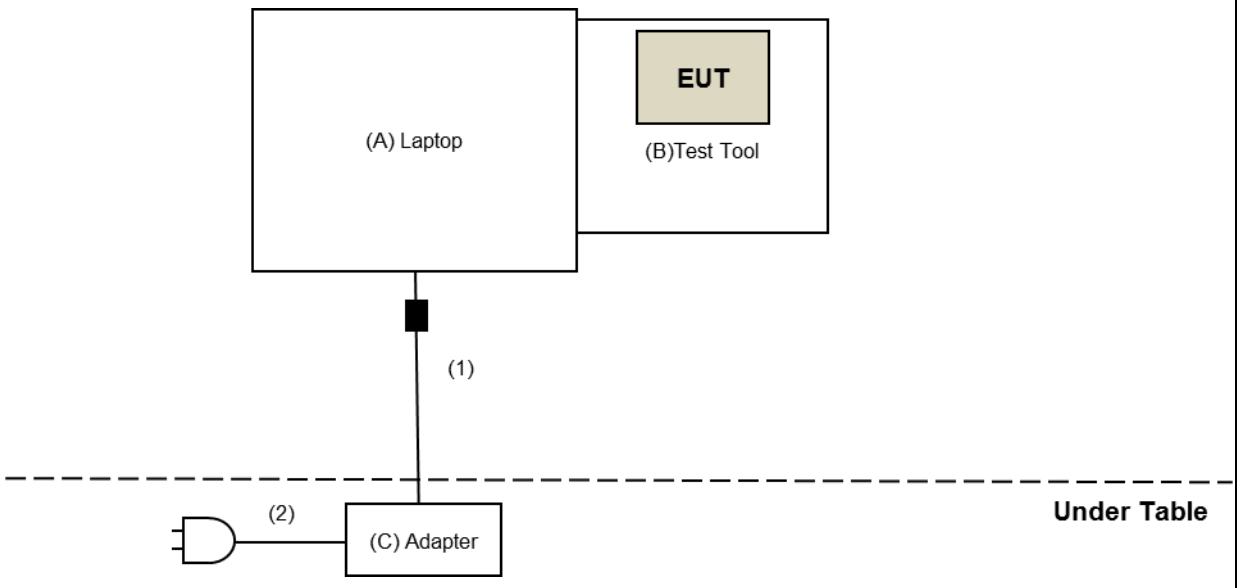
Note: The core is originally attached to the cable.

3.4.1 Configuration of System under Test

**For AC Power Conducted Emissions test:**




**For Radiated Emissions test:**



## 3.5 General Description of Applied Standards and references

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standardsand references:

**Test standard:**

**FCC Part 15, Subpart C (15.247)**
ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

**References Test Guidance:**

**KDB 558074 D01 15.247 Meas Guidance v05r02**

All test items have been performed as a reference to the above KDB test guidance.

# 4 Test Types and Results

## 4.1 Radiated Emission and Bandedge Measurement

### 4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

| Frequencies (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|---|---|---|
| 0.009 ~ 0.490 | 2400/F(kHz) | 300 |
| 0.490 ~ 1.705 | 24000/F(kHz) | 30 |
| 1.705 ~ 30.0 | 30 | 30 |
| 30 ~ 88 | 100 | 3 |
| 88 ~ 216 | 150 | 3 |
| 216 ~ 960 | 200 | 3 |
| Above 960 | 500 | 3 |

**NOTE**:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.1.2 Test Instruments

**For Radiated Emission and Bandedge test:**

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|---|---|---|---|---|
| Test Receiver R&S | ESR3 | 102528 | Mar. 02, 2021 | Mar. 01, 2022 |
| Spectrum Analyzer Keysight | N9030B | MY57141948 | May 21, 2021 | May 20, 2022 |
| Pre-Amplifier EMCI | EMC001340 | 980142 | May 24, 2021 | May 23, 2022 |
| Loop Antenna Electro-Metrics | EM-6879 | 264 | Mar. 05, 2021 | Mar. 04, 2022 |
| RF Cable | 5D-FB | LOOPCAB-001 | Jan. 07, 2021 | Jan. 06, 2022 |
| RF Cable | 5D-FB | LOOPCAB-002 | Jan. 07, 2021 | Jan. 06, 2022 |
| Pre-Amplifier EMCI | EMC330N | 980538 | Apr. 26, 2021 | Apr. 25, 2022 |
| Trilog Broadband Antenna SCHWARZBECK | VULB9168 | 9168-0842 | Nov. 03, 2020 | Nov. 02, 2021 |
| RF Cable | 8D | 966-5-1 | Apr. 26, 2021 | Apr. 25, 2022 |
| RF Cable | 8D | 966-5-2 | Apr. 26, 2021 | Apr. 25, 2022 |
| RF Cable | 8D | 966-5-3 | Apr. 26, 2021 | Apr. 25, 2022 |
| Fixed attenuator Mini-Circuits | UNAT-5+ | PAD-ATT5-02 | Jan. 11, 2021 | Jan. 10, 2022 |
| Horn_Antenna SCHWARZBECK | BBHA 9120D | 9120D-1819 | Nov. 22, 2020 | Nov. 21, 2021 |
| Pre-Amplifier EMCI | EMC12630SE | 980509 | Apr. 26, 2021 | Apr. 25, 2022 |
| RF Cable EMCI | EMC104-SM-SM-1500 | 180503 | Apr. 26, 2021 | Apr. 25, 2022 |
| RF Cable EMCI | EMC104-SM-SM-2000 | 180501 | Apr. 26, 2021 | Apr. 25, 2022 |
| RF Cable EMCI | EMC104-SM-SM-6000 | 180506 | Apr. 26, 2021 | Apr. 25, 2022 |
| Pre-Amplifier EMCI | EMC184045SE | 980387 | Jan. 11, 2021 | Jan. 10, 2022 |
| Horn_Antenna SCHWARZBECK | BBHA 9170 | BBHA9170519 | Nov. 22, 2020 | Nov. 21, 2021 |
| RF Cable | EMC102-KM-KM-1200 | 160924 | Jan. 11, 2021 | Jan. 10, 2022 |
| RF Cable | EMC-KM-KM-4000 | 200214 | Mar. 10, 2021 | Mar. 09, 2022 |
| Software | ADT_Radiated_V8.7.08 | NA | NA | NA |
| Boresight Antenna Tower & Turn Table Max-Full | MF-7802BS | MF780208530 | NA | NA |

**Note:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in 966 Chamber No. 5.
3. Tested Date: June 09 to July 02, 2021

**For other test items:**

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|---|---|---|---|---|
| Spectrum Analyzer R&S | FSV40 | 101516 | Mar. 08, 2021 | Mar. 07, 2022 |
| Power meter Anritsu | ML2495A | 1529002 | July 22, 2020 | July 21, 2021 |
| Power sensor Anritsu | MA2411B | 1339443 | May 31, 2021 | May 30, 2022 |
| 10dB Attenuator Woken | MDCS18N-10 | MDCS18N-10-01 | Apr. 13, 2021 | Apr. 12, 2022 |
| Software | ADT_RF Test Software V6.6.5.4 | NA | NA | NA |

**NOTE:**
1. The test was performed in Oven room 2.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. Tested Date: July 05, 2021

4.1.3 Test Procedures

**For Radiated emission below 30MHz**

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. Both Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

**NOTE:**

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

**For Radiated emission above 30MHz**

a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The height of antenna 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.

d. 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

**Note:**

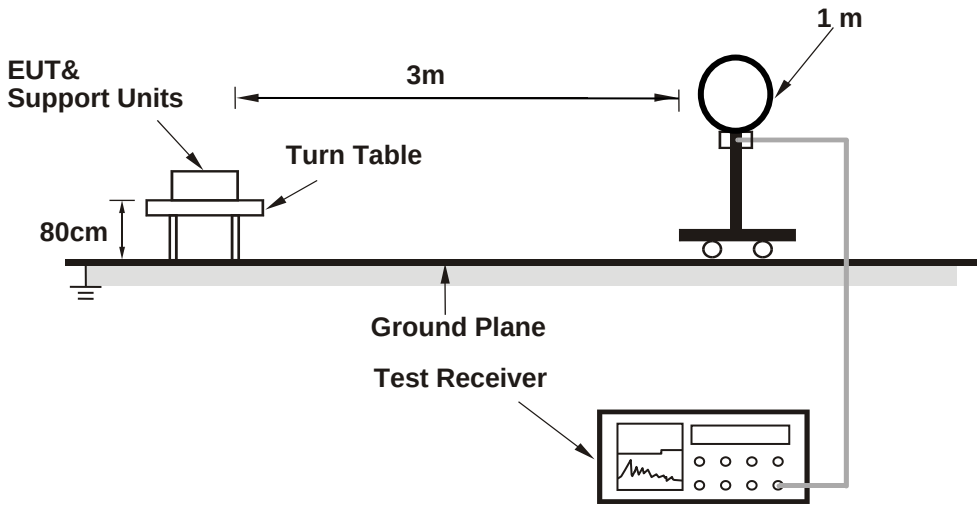
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

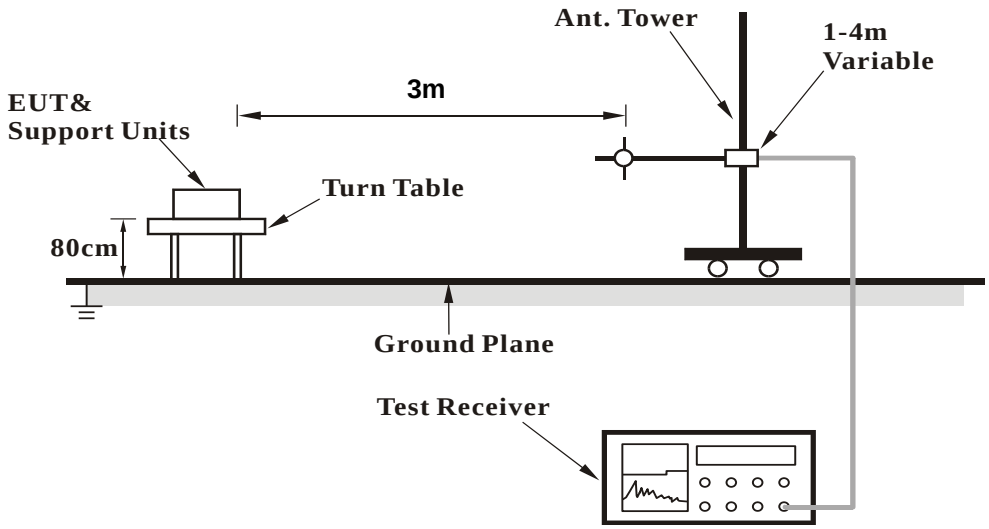
No deviation.

4.1.5 Test Setup

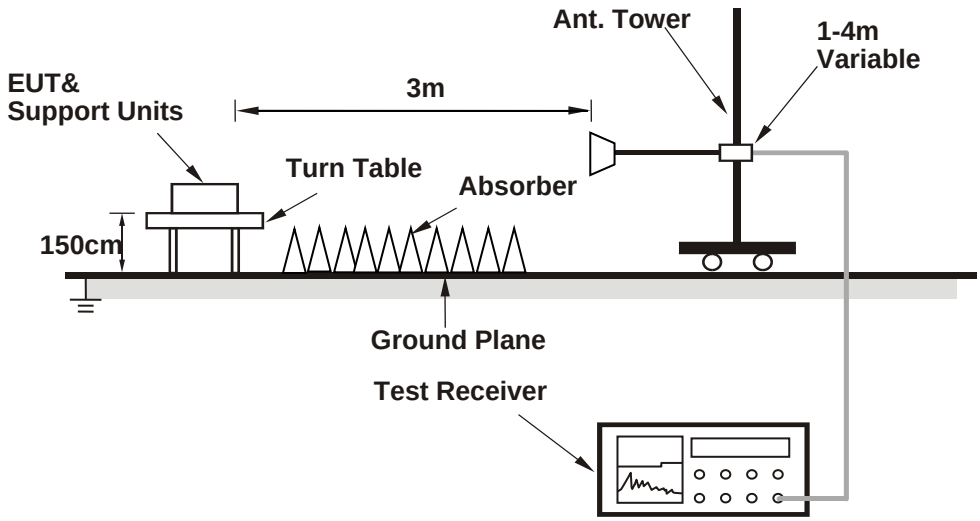
**For Radiated emission below 30MHz**




**For Radiated emission 30MHz to 1GHz**



**For Radiated emission above 1GHz**




For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT Operating Conditions

a. Placed the EUT on the testing table.

b. Controlling software (Bluetooth RF test tool (5.2.3.1)) has been activated to set the EUT under transmission condition continuously at specific channel frenquency.

4.1.6 Test Results (Mode 1)

**Dipole Antenna**

**Above 1GHz Data:**

**BT_GFSK**

| **RF Mode** | TX BT_GFSK | **Channel** | CH 0：2402 MHz |
|---|---|---|---|
| **Frequency Range** | 1GHz ~ 25GHz | **Detector Function** | Peak (PK)<br>Average (AV) |

| **Antenna Polarity & Test Distance : Horizontal at 3 m** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **No** | **Frequency (MHz)** | **Emission Level (dBuV/m)** | **Limit (dBuV/m)** | **Margin (dB)** | **Antenna Height (m)** | **Table Angle (Degree)** | **Raw Value (dBuV)** | **Correction Factor (dB/m)** |
| 1 | 2376.05 | 56.0 PK | 74.0 | -18.0 | 1.09 H | 142 | 58.6 | -2.6 |
| 2 | 2376.05 | 43.1 AV | 54.0 | -10.9 | 1.09 H | 142 | 45.7 | -2.6 |
| 3 | *2402.00 | 93.3 PK | | | 1.09 H | 142 | 96.0 | -2.7 |
| 4 | *2402.00 | 92.9 AV | | | 1.09 H | 142 | 95.6 | -2.7 |
| 5 | 4804.00 | 36.0 PK | 74.0 | -38.0 | 1.54 H | 171 | 34.2 | 1.8 |
| 6 | 4804.00 | 29.0 AV | 54.0 | -25.0 | 1.54 H | 171 | 27.2 | 1.8 |
| **Antenna Polarity & Test Distance : Vertical at 3 m** | | | | | | | | |
| **No** | **Frequency (MHz)** | **Emission Level (dBuV/m)** | **Limit (dBuV/m)** | **Margin (dB)** | **Antenna Height (m)** | **Table Angle (Degree)** | **Raw Value (dBuV)** | **Correction Factor (dB/m)** |
| 1 | 2387.45 | 55.8 PK | 74.0 | -18.2 | 1.59 V | 243 | 58.5 | -2.7 |
| 2 | 2387.45 | 43.5 AV | 54.0 | -10.5 | 1.59 V | 243 | 46.2 | -2.7 |
| 3 | *2402.00 | 103.8 PK | | | 1.59 V | 243 | 106.5 | -2.7 |
| 4 | *2402.00 | 103.3 AV | | | 1.59 V | 243 | 106.0 | -2.7 |
| 5 | 4804.00 | 42.0 PK | 74.0 | -32.0 | 1.29 V | 304 | 40.2 | 1.8 |
| 6 | 4804.00 | 34.6 AV | 54.0 | -19.4 | 1.29 V | 304 | 32.8 | 1.8 |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

| RF Mode | TX BT_GFSK | Channel | CH 39：2441 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 25GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2441.00 | 93.3 PK | | | 1.10 H | 136 | 96.0 | -2.7 |
| 2 | *2441.00 | 93.0 AV | | | 1.10 H | 136 | 95.7 | -2.7 |
| 3 | 4882.00 | 35.9 PK | 74.0 | -38.1 | 1.52 H | 165 | 34.2 | 1.7 |
| 4 | 4882.00 | 29.2 AV | 54.0 | -24.8 | 1.52 H | 165 | 27.5 | 1.7 |
| 5 | 7323.00 | 45.9 PK | 74.0 | -28.1 | 1.80 H | 202 | 38.6 | 7.3 |
| 6 | 7323.00 | 35.6 AV | 54.0 | -18.4 | 1.80 H | 202 | 28.3 | 7.3 |
| **Antenna Polarity & Test Distance : Vertical at 3 m** | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2441.00 | 104.1 PK | | | 1.54 V | 238 | 106.8 | -2.7 |
| 2 | *2441.00 | 103.8 AV | | | 1.54 V | 238 | 106.5 | -2.7 |
| 3 | 4882.00 | 42.4 PK | 74.0 | -31.6 | 1.24 V | 290 | 40.7 | 1.7 |
| 4 | 4882.00 | 35.0 AV | 54.0 | -19.0 | 1.24 V | 290 | 33.3 | 1.7 |
| 5 | 7323.00 | 49.7 PK | 74.0 | -24.3 | 1.48 V | 274 | 42.4 | 7.3 |
| 6 | 7323.00 | 41.6 AV | 54.0 | -12.4 | 1.48 V | 274 | 34.3 | 7.3 |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

| RF Mode | TX BT_GFSK | Channel | CH 78：2480 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 25GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2480.00 | 92.3 PK | | | 1.42 H | 144 | 95.1 | -2.8 |
| 2 | *2480.00 | 91.9 AV | | | 1.42 H | 144 | 94.7 | -2.8 |
| 3 | 2493.33 | 56.0 PK | 74.0 | -18.0 | 1.42 H | 144 | 58.8 | -2.8 |
| 4 | 2493.33 | 43.3 AV | 54.0 | -10.7 | 1.42 H | 144 | 46.1 | -2.8 |
| 5 | 4960.00 | 35.9 PK | 74.0 | -38.1 | 1.47 H | 176 | 33.9 | 2.0 |
| 6 | 4960.00 | 29.5 AV | 54.0 | -24.5 | 1.47 H | 176 | 27.5 | 2.0 |
| 7 | 7440.00 | 45.6 PK | 74.0 | -28.4 | 1.85 H | 212 | 38.0 | 7.6 |
| 8 | 7440.00 | 35.2 AV | 54.0 | -18.8 | 1.85 H | 212 | 27.6 | 7.6 |
| **Antenna Polarity & Test Distance : Vertical at 3 m** | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2480.00 | 104.7 PK | | | 1.61 V | 247 | 107.5 | -2.8 |
| 2 | *2480.00 | 104.2 AV | | | 1.61 V | 247 | 107.0 | -2.8 |
| 3 | 2484.34 | 56.2 PK | 74.0 | -17.8 | 1.61 V | 247 | 59.0 | -2.8 |
| 4 | 2484.34 | 43.7 AV | 54.0 | -10.3 | 1.61 V | 247 | 46.5 | -2.8 |
| 5 | 4960.00 | 42.3 PK | 74.0 | -31.7 | 1.29 V | 302 | 40.3 | 2.0 |
| 6 | 4960.00 | 34.8 AV | 54.0 | -19.2 | 1.29 V | 302 | 32.8 | 2.0 |
| 7 | 7440.00 | 50.1 PK | 74.0 | -23.9 | 1.46 V | 267 | 42.5 | 7.6 |
| 8 | 7440.00 | 41.9 AV | 54.0 | -12.1 | 1.46 V | 267 | 34.3 | 7.6 |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

## BT_8DPSK

| RF Mode | TX BT_8DPSK | Channel | CH 0：2402 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 25GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 2369.90 | 55.2 PK | 74.0 | -18.8 | 1.12 H | 139 | 57.9 | -2.7 |
| 2 | 2369.90 | 43.1 AV | 54.0 | -10.9 | 1.12 H | 139 | 45.8 | -2.7 |
| 3 | *2402.00 | 94.9 PK | | | 1.12 H | 139 | 97.6 | -2.7 |
| 4 | *2402.00 | 90.7 AV | | | 1.12 H | 139 | 93.4 | -2.7 |
| 5 | 4804.00 | 36.2 PK | 74.0 | -37.8 | 1.49 H | 155 | 34.4 | 1.8 |
| 6 | 4804.00 | 29.5 AV | 54.0 | -24.5 | 1.49 H | 155 | 27.7 | 1.8 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 2370.74 | 56.5 PK | 74.0 | -17.5 | 1.63 V | 258 | 59.2 | -2.7 |
| 2 | 2370.74 | 43.3 AV | 54.0 | -10.7 | 1.63 V | 258 | 46.0 | -2.7 |
| 3 | *2402.00 | 105.2 PK | | | 1.63 V | 258 | 107.9 | -2.7 |
| 4 | *2402.00 | 100.9 AV | | | 1.63 V | 258 | 103.6 | -2.7 |
| 5 | 4804.00 | 42.7 PK | 74.0 | -31.3 | 1.20 V | 305 | 40.9 | 1.8 |
| 6 | 4804.00 | 35.5 AV | 54.0 | -18.5 | 1.20 V | 305 | 33.7 | 1.8 |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

| RF Mode | TX BT_8DPSK | Channel | CH 39：2441 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 25GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2441.00 | 95.1 PK | | | 1.14 H | 142 | 97.8 | -2.7 |
| 2 | *2441.00 | 91.0 AV | | | 1.14 H | 142 | 93.7 | -2.7 |
| 3 | 4882.00 | 36.4 PK | 74.0 | -37.6 | 1.52 H | 165 | 34.7 | 1.7 |
| 4 | 4882.00 | 29.6 AV | 54.0 | -24.4 | 1.52 H | 165 | 27.9 | 1.7 |
| 5 | 7323.00 | 45.4 PK | 74.0 | -28.6 | 1.75 H | 187 | 38.1 | 7.3 |
| 6 | 7323.00 | 35.3 AV | 54.0 | -18.7 | 1.75 H | 187 | 28.0 | 7.3 |
| **Antenna Polarity & Test Distance : Vertical at 3 m** | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2441.00 | 105.3 PK | | | 1.62 V | 268 | 108.0 | -2.7 |
| 2 | *2441.00 | 101.1 AV | | | 1.62 V | 268 | 103.8 | -2.7 |
| 3 | 4882.00 | 42.4 PK | 74.0 | -31.6 | 1.19 V | 289 | 40.7 | 1.7 |
| 4 | 4882.00 | 34.8 AV | 54.0 | -19.2 | 1.19 V | 289 | 33.1 | 1.7 |
| 5 | 7323.00 | 49.7 PK | 74.0 | -24.3 | 1.53 V | 259 | 42.4 | 7.3 |
| 6 | 7323.00 | 41.3 AV | 54.0 | -12.7 | 1.53 V | 259 | 34.0 | 7.3 |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

| RF Mode | TX BT_8DPSK | Channel | CH 78：2480 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 25GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2480.00 | 93.7 PK | | | 1.47 H | 146 | 96.5 | -2.8 |
| 2 | *2480.00 | 89.6 AV | | | 1.47 H | 146 | 92.4 | -2.8 |
| 3 | 2486.61 | 55.5 PK | 74.0 | -18.5 | 1.47 H | 146 | 58.3 | -2.8 |
| 4 | 2486.61 | 43.2 AV | 54.0 | -10.8 | 1.47 H | 146 | 46.0 | -2.8 |
| 5 | 4960.00 | 36.4 PK | 74.0 | -37.6 | 1.57 H | 174 | 34.4 | 2.0 |
| 6 | 4960.00 | 29.5 AV | 54.0 | -24.5 | 1.57 H | 174 | 27.5 | 2.0 |
| 7 | 7440.00 | 46.2 PK | 74.0 | -27.8 | 1.86 H | 199 | 38.6 | 7.6 |
| 8 | 7440.00 | 36.0 AV | 54.0 | -18.0 | 1.86 H | 199 | 28.4 | 7.6 |
| **Antenna Polarity & Test Distance : Vertical at 3 m** | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2480.00 | 106.1 PK | | | 1.59 V | 229 | 108.9 | -2.8 |
| 2 | *2480.00 | 101.9 AV | | | 1.59 V | 229 | 104.7 | -2.8 |
| 3 | 2483.50 | 56.1 PK | 74.0 | -17.9 | 1.59 V | 229 | 58.9 | -2.8 |
| 4 | 2483.50 | 43.8 AV | 54.0 | -10.2 | 1.59 V | 229 | 46.6 | -2.8 |
| 5 | 4960.00 | 41.9 PK | 74.0 | -32.1 | 1.19 V | 276 | 39.9 | 2.0 |
| 6 | 4960.00 | 34.6 AV | 54.0 | -19.4 | 1.19 V | 276 | 32.6 | 2.0 |
| 7 | 7440.00 | 49.5 PK | 74.0 | -24.5 | 1.53 V | 282 | 41.9 | 7.6 |
| 8 | 7440.00 | 41.2 AV | 54.0 | -12.8 | 1.53 V | 282 | 33.6 | 7.6 |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

## Below 1GHz Data:

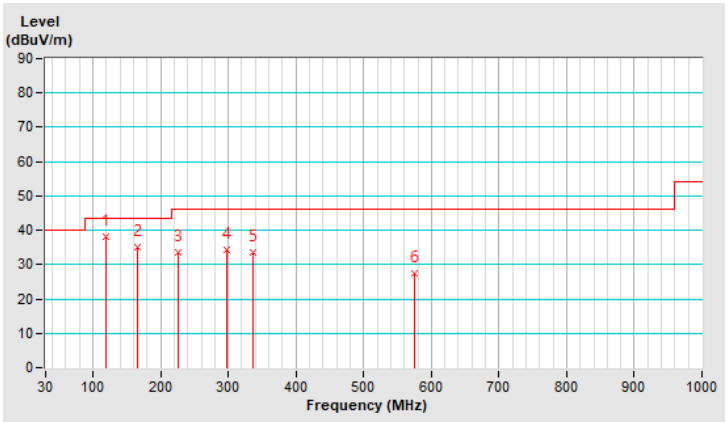
### GFSK

| RF Mode | TX BT_GFSK | Channel | CH 0：2402 MHz |
|---|---|---|---|
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 119.53 | 38.0 QP | 43.5 | -5.5 | 3.00 H | 335 | 53.1 | -15.1 |
| 2 | 166.46 | 35.0 QP | 43.5 | -8.5 | 2.00 H | 163 | 48.1 | -13.1 |
| 3 | 226.27 | 33.4 QP | 46.0 | -12.6 | 2.00 H | 111 | 49.3 | -15.9 |
| 4 | 298.60 | 34.4 QP | 46.0 | -11.6 | 1.50 H | 91 | 46.8 | -12.4 |
| 5 | 336.42 | 33.7 QP | 46.0 | -12.3 | 1.50 H | 342 | 45.0 | -11.3 |
| 6 | 575.23 | 27.4 QP | 46.0 | -18.6 | 1.50 H | 130 | 33.6 | -6.2 |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

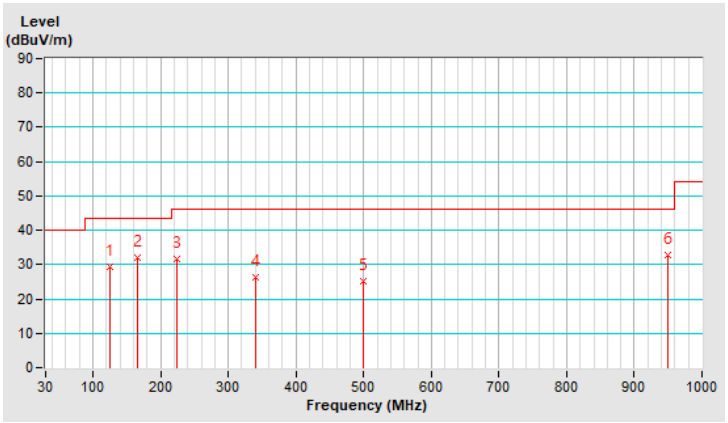


| RF Mode | TX BT_GFSK | Channel | CH 0：2402 MHz |
|---|---|---|---|
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |

| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 125.73 | 29.2 QP | 43.5 | -14.3 | 1.00 V | 51 | 43.6 | -14.4 |
| 2 | 166.30 | 31.9 QP | 43.5 | -11.6 | 1.50 V | 230 | 45.0 | -13.1 |
| 3 | 224.29 | 31.8 QP | 46.0 | -14.2 | 1.00 V | 126 | 47.8 | -16.0 |
| 4 | 340.77 | 26.3 QP | 46.0 | -19.7 | 1.50 V | 192 | 37.6 | -11.3 |
| 5 | 499.71 | 25.1 QP | 46.0 | -20.9 | 1.50 V | 37 | 32.7 | -7.6 |
| 6 | 949.91 | 32.8 QP | 46.0 | -13.2 | 1.00 V | 135 | 33.4 | -0.6 |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



**PIFA Antenna**

**Above 1GHz Data:**

**BT_GFSK**

| RF Mode | TX BT_GFSK | Channel | CH 0：2402 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 25GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 2385.37 | 55.6 PK | 74.0 | -18.4 | 1.11 H | 320 | 58.3 | -2.7 |
| 2 | 2385.37 | 43.3 AV | 54.0 | -10.7 | 1.11 H | 320 | 46.0 | -2.7 |
| 3 | *2402.00 | 100.5 PK | | | 1.11 H | 320 | 103.2 | -2.7 |
| 4 | *2402.00 | 100.1 AV | | | 1.11 H | 320 | 102.8 | -2.7 |
| 5 | 4804.00 | 42.0 PK | 74.0 | -32.0 | 1.33 H | 140 | 40.2 | 1.8 |
| 6 | 4804.00 | 32.3 AV | 54.0 | -21.7 | 1.33 H | 140 | 30.5 | 1.8 |
| **Antenna Polarity & Test Distance : Vertical at 3 m** | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 2369.40 | 55.9 PK | 74.0 | -18.1 | 2.21 V | 89 | 58.6 | -2.7 |
| 2 | 2369.40 | 43.2 AV | 54.0 | -10.8 | 2.21 V | 89 | 45.9 | -2.7 |
| 3 | *2402.00 | 98.2 PK | | | 2.21 V | 89 | 100.9 | -2.7 |
| 4 | *2402.00 | 97.9 AV | | | 2.21 V | 89 | 100.6 | -2.7 |
| 5 | 4804.00 | 39.3 PK | 74.0 | -34.7 | 1.12 V | 103 | 37.5 | 1.8 |
| 6 | 4804.00 | 29.6 AV | 54.0 | -24.4 | 1.12 V | 103 | 27.8 | 1.8 |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

| RF Mode | TX BT_GFSK | Channel | CH 39：2441 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 25GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2441.00 | 100.4 PK | | | 1.02 H | 319 | 103.1 | -2.7 |
| 2 | *2441.00 | 100.0 AV | | | 1.02 H | 319 | 102.7 | -2.7 |
| 3 | 4882.00 | 41.5 PK | 74.0 | -32.5 | 1.39 H | 146 | 39.8 | 1.7 |
| 4 | 4882.00 | 31.8 AV | 54.0 | -22.2 | 1.39 H | 146 | 30.1 | 1.7 |
| 5 | 7323.00 | 51.6 PK | 74.0 | -22.4 | 1.49 H | 8 | 44.3 | 7.3 |
| 6 | 7323.00 | 42.5 AV | 54.0 | -11.5 | 1.49 H | 8 | 35.2 | 7.3 |
| **Antenna Polarity & Test Distance : Vertical at 3 m** | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2441.00 | 98.4 PK | | | 2.22 V | 85 | 101.1 | -2.7 |
| 2 | *2441.00 | 98.0 AV | | | 2.22 V | 85 | 100.7 | -2.7 |
| 3 | 4882.00 | 39.6 PK | 74.0 | -34.4 | 1.08 V | 104 | 37.9 | 1.7 |
| 4 | 4882.00 | 29.7 AV | 54.0 | -24.3 | 1.08 V | 104 | 28.0 | 1.7 |
| 5 | 7323.00 | 46.5 PK | 74.0 | -27.5 | 3.86 V | 353 | 39.2 | 7.3 |
| 6 | 7323.00 | 37.9 AV | 54.0 | -16.1 | 3.86 V | 353 | 30.6 | 7.3 |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

| RF Mode | TX BT_GFSK | Channel | CH 78：2480 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 25GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2480.00 | 100.1 PK | | | 1.07 H | 306 | 102.9 | -2.8 |
| 2 | *2480.00 | 99.7 AV | | | 1.07 H | 306 | 102.5 | -2.8 |
| 3 | 2487.62 | 55.4 PK | 74.0 | -18.6 | 1.07 H | 306 | 58.2 | -2.8 |
| 4 | 2487.62 | 43.3 AV | 54.0 | -10.7 | 1.07 H | 306 | 46.1 | -2.8 |
| 5 | 4960.00 | 41.7 PK | 74.0 | -32.3 | 1.36 H | 154 | 39.7 | 2.0 |
| 6 | 4960.00 | 32.1 AV | 54.0 | -21.9 | 1.36 H | 154 | 30.1 | 2.0 |
| 7 | 7440.00 | 51.1 PK | 74.0 | -22.9 | 1.47 H | 1 | 43.5 | 7.6 |
| 8 | 7440.00 | 42.2 AV | 54.0 | -11.8 | 1.47 H | 1 | 34.6 | 7.6 |
| **Antenna Polarity & Test Distance : Vertical at 3 m** | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2480.00 | 97.8 PK | | | 2.24 V | 90 | 100.6 | -2.8 |
| 2 | *2480.00 | 97.2 AV | | | 2.24 V | 90 | 100.0 | -2.8 |
| 3 | 2494.82 | 54.7 PK | 74.0 | -19.3 | 2.24 V | 90 | 57.5 | -2.8 |
| 4 | 2494.82 | 43.1 AV | 54.0 | -10.9 | 2.24 V | 90 | 45.9 | -2.8 |
| 5 | 4960.00 | 40.2 PK | 74.0 | -33.8 | 1.05 V | 116 | 38.2 | 2.0 |
| 6 | 4960.00 | 30.2 AV | 54.0 | -23.8 | 1.05 V | 116 | 28.2 | 2.0 |
| 7 | 7440.00 | 46.8 PK | 74.0 | -27.2 | 3.87 V | 357 | 39.2 | 7.6 |
| 8 | 7440.00 | 38.1 AV | 54.0 | -15.9 | 3.87 V | 357 | 30.5 | 7.6 |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

## BT_8DPSK

| RF Mode | TX BT_8DPSK | Channel | CH 0：2402 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 25GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 2384.53 | 55.7 PK | 74.0 | -18.3 | 1.14 H | 313 | 58.3 | -2.6 |
| 2 | 2384.53 | 43.0 AV | 54.0 | -11.0 | 1.14 H | 313 | 45.6 | -2.6 |
| 3 | *2402.00 | 101.9 PK | | | 1.14 H | 313 | 104.6 | -2.7 |
| 4 | *2402.00 | 97.7 AV | | | 1.14 H | 313 | 100.4 | -2.7 |
| 5 | 4804.00 | 41.0 PK | 74.0 | -33.0 | 1.41 H | 150 | 39.2 | 1.8 |
| 6 | 4804.00 | 31.5 AV | 54.0 | -22.5 | 1.41 H | 150 | 29.7 | 1.8 |
| **Antenna Polarity & Test Distance : Vertical at 3 m** | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 2383.34 | 56.5 PK | 74.0 | -17.5 | 2.20 V | 87 | 59.1 | -2.6 |
| 2 | 2383.34 | 43.3 AV | 54.0 | -10.7 | 2.20 V | 87 | 45.9 | -2.6 |
| 3 | *2402.00 | 99.7 PK | | | 2.20 V | 87 | 102.4 | -2.7 |
| 4 | *2402.00 | 95.6 AV | | | 2.20 V | 87 | 98.3 | -2.7 |
| 5 | 4804.00 | 39.9 PK | 74.0 | -34.1 | 1.13 V | 115 | 38.1 | 1.8 |
| 6 | 4804.00 | 29.7 AV | 54.0 | -24.3 | 1.13 V | 115 | 27.9 | 1.8 |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

| RF Mode | TX BT_8DPSK | Channel | CH 39：2441 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 25GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2441.00 | 101.3 PK | | | 1.12 H | 299 | 104.0 | -2.7 |
| 2 | *2441.00 | 97.4 AV | | | 1.12 H | 299 | 100.1 | -2.7 |
| 3 | 4882.00 | 41.0 PK | 74.0 | -33.0 | 1.34 H | 146 | 39.3 | 1.7 |
| 4 | 4882.00 | 31.4 AV | 54.0 | -22.6 | 1.34 H | 146 | 29.7 | 1.7 |
| 5 | 7323.00 | 51.6 PK | 74.0 | -22.4 | 1.51 H | 11 | 44.3 | 7.3 |
| 6 | 7323.00 | 42.3 AV | 54.0 | -11.7 | 1.51 H | 11 | 35.0 | 7.3 |
| **Antenna Polarity & Test Distance : Vertical at 3 m** | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2441.00 | 100.0 PK | | | 2.16 V | 92 | 102.7 | -2.7 |
| 2 | *2441.00 | 95.9 AV | | | 2.16 V | 92 | 98.6 | -2.7 |
| 3 | 4882.00 | 40.2 PK | 74.0 | -33.8 | 1.06 V | 117 | 38.5 | 1.7 |
| 4 | 4882.00 | 30.2 AV | 54.0 | -23.8 | 1.06 V | 117 | 28.5 | 1.7 |
| 5 | 7323.00 | 46.8 PK | 74.0 | -27.2 | 3.91 V | 319 | 39.5 | 7.3 |
| 6 | 7323.00 | 38.0 AV | 54.0 | -16.0 | 3.91 V | 319 | 30.7 | 7.3 |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

| RF Mode | TX BT_8DPSK | Channel | CH 78：2480 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 25GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2480.00 | 101.3 PK | | | 1.15 H | 311 | 104.1 | -2.8 |
| 2 | *2480.00 | 97.2 AV | | | 1.15 H | 311 | 100.0 | -2.8 |
| 3 | 2486.90 | 54.8 PK | 74.0 | -19.2 | 1.15 H | 311 | 57.6 | -2.8 |
| 4 | 2486.90 | 43.3 AV | 54.0 | -10.7 | 1.15 H | 311 | 46.1 | -2.8 |
| 5 | 4960.00 | 41.2 PK | 74.0 | -32.8 | 1.33 H | 157 | 39.2 | 2.0 |
| 6 | 4960.00 | 31.5 AV | 54.0 | -22.5 | 1.33 H | 157 | 29.5 | 2.0 |
| 7 | 7440.00 | 51.2 PK | 74.0 | -22.8 | 1.50 H | 18 | 43.6 | 7.6 |
| 8 | 7440.00 | 42.3 AV | 54.0 | -11.7 | 1.50 H | 18 | 34.7 | 7.6 |
| **Antenna Polarity & Test Distance : Vertical at 3 m** | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2480.00 | 99.5 PK | | | 2.19 V | 92 | 102.3 | -2.8 |
| 2 | *2480.00 | 95.4 AV | | | 2.19 V | 92 | 98.2 | -2.8 |
| 3 | 2484.00 | 55.3 PK | 74.0 | -18.7 | 2.19 V | 92 | 58.1 | -2.8 |
| 4 | 2484.00 | 43.1 AV | 54.0 | -10.9 | 2.19 V | 92 | 45.9 | -2.8 |
| 5 | 4960.00 | 39.9 PK | 74.0 | -34.1 | 1.09 V | 104 | 37.9 | 2.0 |
| 6 | 4960.00 | 29.7 AV | 54.0 | -24.3 | 1.09 V | 104 | 27.7 | 2.0 |
| 7 | 7440.00 | 46.2 PK | 74.0 | -27.8 | 3.82 V | 348 | 38.6 | 7.6 |
| 8 | 7440.00 | 37.5 AV | 54.0 | -16.5 | 3.82 V | 348 | 29.9 | 7.6 |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

## Below 1GHz Data:

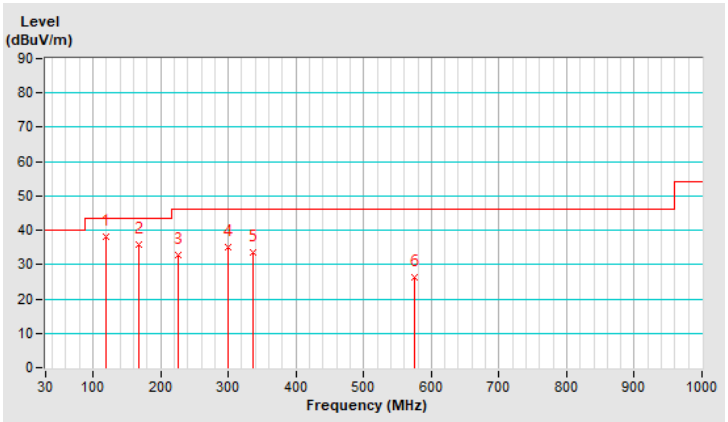
### BT_GFSK

| RF Mode | TX BT_GFSK | Channel | CH 0：2402 MHz |
|---|---|---|---|
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 119.67 | 38.1 QP | 43.5 | -5.4 | 3.00 H | 345 | 53.2 | -15.1 |
| 2 | 167.41 | 35.7 QP | 43.5 | -7.8 | 2.00 H | 148 | 48.8 | -13.1 |
| 3 | 225.82 | 32.9 QP | 46.0 | -13.1 | 2.00 H | 129 | 48.8 | -15.9 |
| 4 | 298.99 | 35.0 QP | 46.0 | -11.0 | 1.50 H | 78 | 47.3 | -12.3 |
| 5 | 336.40 | 33.5 QP | 46.0 | -12.5 | 1.50 H | 318 | 44.8 | -11.3 |
| 6 | 574.23 | 26.3 QP | 46.0 | -19.7 | 1.50 H | 126 | 32.5 | -6.2 |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

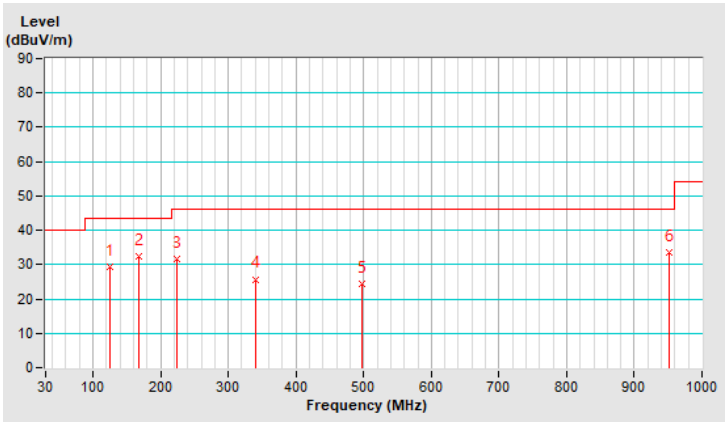


| RF Mode | TX BT_GFSK | Channel | CH 0：2402 MHz |
|---|---|---|---|
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |

| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 126.01 | 29.2 QP | 43.5 | -14.3 | 1.00 V | 46 | 43.6 | -14.4 |
| 2 | 167.25 | 32.5 QP | 43.5 | -11.0 | 1.50 V | 239 | 45.6 | -13.1 |
| 3 | 223.93 | 31.6 QP | 46.0 | -14.4 | 1.00 V | 124 | 47.6 | -16.0 |
| 4 | 340.13 | 25.7 QP | 46.0 | -20.3 | 1.50 V | 180 | 37.0 | -11.3 |
| 5 | 498.48 | 24.5 QP | 46.0 | -21.5 | 1.50 V | 33 | 32.2 | -7.7 |
| 6 | 950.70 | 33.5 QP | 46.0 | -12.5 | 1.00 V | 151 | 34.1 | -0.6 |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



4.1.7 Test Results (Mode 2)

**Dipole Antenna**

**Above 1GHz Data:**

**BT_GFSK**

| **RF Mode** | TX BT_GFSK | **Channel** | CH 0：2402 MHz |
|---|---|---|---|
| **Frequency Range** | 1GHz ~ 25GHz | **Detector Function** | Peak (PK)<br>Average (AV) |

| **Antenna Polarity & Test Distance : Horizontal at 3 m** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **No** | **Frequency (MHz)** | **Emission Level (dBuV/m)** | **Limit (dBuV/m)** | **Margin (dB)** | **Antenna Height (m)** | **Table Angle (Degree)** | **Raw Value (dBuV)** | **Correction Factor (dB/m)** |
| 1 | 2380.80 | 55.8 PK | 74.0 | -18.2 | 1.24 H | 119 | 58.4 | -2.6 |
| 2 | 2380.80 | 43.2 AV | 54.0 | -10.8 | 1.24 H | 119 | 45.8 | -2.6 |
| 3 | *2402.00 | 99.5 PK | | | 1.24 H | 119 | 102.2 | -2.7 |
| 4 | *2402.00 | 99.0 AV | | | 1.24 H | 119 | 101.7 | -2.7 |
| 5 | 4804.00 | 37.2 PK | 74.0 | -36.8 | 1.53 H | 135 | 35.4 | 1.8 |
| 6 | 4804.00 | 30.1 AV | 54.0 | -23.9 | 1.53 H | 135 | 28.3 | 1.8 |
| **Antenna Polarity & Test Distance : Vertical at 3 m** | | | | | | | | |
| **No** | **Frequency (MHz)** | **Emission Level (dBuV/m)** | **Limit (dBuV/m)** | **Margin (dB)** | **Antenna Height (m)** | **Table Angle (Degree)** | **Raw Value (dBuV)** | **Correction Factor (dB/m)** |
| 1 | 2377.15 | 55.7 PK | 74.0 | -18.3 | 1.57 V | 307 | 58.3 | -2.6 |
| 2 | 2377.15 | 43.6 AV | 54.0 | -10.4 | 1.57 V | 307 | 46.2 | -2.6 |
| 3 | *2402.00 | 109.8 PK | | | 1.57 V | 307 | 112.5 | -2.7 |
| 4 | *2402.00 | 109.4 AV | | | 1.57 V | 307 | 112.1 | -2.7 |
| 5 | 4804.00 | 43.0 PK | 74.0 | -31.0 | 1.22 V | 294 | 41.2 | 1.8 |
| 6 | 4804.00 | 36.2 AV | 54.0 | -17.8 | 1.22 V | 294 | 34.4 | 1.8 |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

| RF Mode | TX BT_GFSK | Channel | CH 39：2441 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 25GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2441.00 | 100.5 PK | | | 1.42 H | 100 | 103.2 | -2.7 |
| 2 | *2441.00 | 99.8 AV | | | 1.42 H | 100 | 102.5 | -2.7 |
| 3 | 4882.00 | 37.6 PK | 74.0 | -36.4 | 1.52 H | 143 | 35.9 | 1.7 |
| 4 | 4882.00 | 30.5 AV | 54.0 | -23.5 | 1.52 H | 143 | 28.8 | 1.7 |
| 5 | 7323.00 | 48.0 PK | 74.0 | -26.0 | 1.77 H | 196 | 40.7 | 7.3 |
| 6 | 7323.00 | 37.7 AV | 54.0 | -16.3 | 1.77 H | 196 | 30.4 | 7.3 |
| **Antenna Polarity & Test Distance : Vertical at 3 m** | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2441.00 | 109.4 PK | | | 1.58 V | 311 | 112.1 | -2.7 |
| 2 | *2441.00 | 109.2 AV | | | 1.58 V | 311 | 111.9 | -2.7 |
| 3 | 4882.00 | 43.3 PK | 74.0 | -30.7 | 1.27 V | 300 | 41.6 | 1.7 |
| 4 | 4882.00 | 36.3 AV | 54.0 | -17.7 | 1.27 V | 300 | 34.6 | 1.7 |
| 5 | 7323.00 | 51.8 PK | 74.0 | -22.2 | 1.60 V | 268 | 44.5 | 7.3 |
| 6 | 7323.00 | 43.8 AV | 54.0 | -10.2 | 1.60 V | 268 | 36.5 | 7.3 |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

| RF Mode | TX BT_GFSK | Channel | CH 78：2480 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 25GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2480.00 | 100.0 PK | | | 1.41 H | 115 | 102.8 | -2.8 |
| 2 | *2480.00 | 99.5 AV | | | 1.41 H | 115 | 102.3 | -2.8 |
| 3 | 2484.55 | 55.8 PK | 74.0 | -18.2 | 1.41 H | 115 | 58.6 | -2.8 |
| 4 | 2484.55 | 43.2 AV | 54.0 | -10.8 | 1.41 H | 115 | 46.0 | -2.8 |
| 5 | 4960.00 | 37.8 PK | 74.0 | -36.2 | 1.52 H | 131 | 35.8 | 2.0 |
| 6 | 4960.00 | 30.7 AV | 54.0 | -23.3 | 1.52 H | 131 | 28.7 | 2.0 |
| 7 | 7440.00 | 48.6 PK | 74.0 | -25.4 | 1.80 H | 183 | 41.0 | 7.6 |
| 8 | 7440.00 | 38.1 AV | 54.0 | -15.9 | 1.80 H | 183 | 30.5 | 7.6 |
| **Antenna Polarity & Test Distance : Vertical at 3 m** | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2480.00 | 109.1 PK | | | 1.62 V | 307 | 111.9 | -2.8 |
| 2 | *2480.00 | 109.0 AV | | | 1.62 V | 307 | 111.8 | -2.8 |
| 3 | 2483.90 | 56.8 PK | 74.0 | -17.2 | 1.62 V | 307 | 59.6 | -2.8 |
| 4 | 2483.90 | 44.4 AV | 54.0 | -9.6 | 1.62 V | 307 | 47.2 | -2.8 |
| 5 | 4960.00 | 43.5 PK | 74.0 | -30.5 | 1.22 V | 313 | 41.5 | 2.0 |
| 6 | 4960.00 | 36.7 AV | 54.0 | -17.3 | 1.22 V | 313 | 34.7 | 2.0 |
| 7 | 7440.00 | 51.8 PK | 74.0 | -22.2 | 1.63 V | 272 | 44.2 | 7.6 |
| 8 | 7440.00 | 43.9 AV | 54.0 | -10.1 | 1.63 V | 272 | 36.3 | 7.6 |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

## BT_8DPSK

| RF Mode | TX BT_8DPSK | Channel | CH 0：2402 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 25GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 2382.60 | 55.5 PK | 74.0 | -18.5 | 1.00 H | 146 | 58.1 | -2.6 |
| 2 | 2382.60 | 43.3 AV | 54.0 | -10.7 | 1.00 H | 146 | 45.9 | -2.6 |
| 3 | *2402.00 | 100.9 PK | | | 1.00 H | 146 | 103.6 | -2.7 |
| 4 | *2402.00 | 97.2 AV | | | 1.00 H | 146 | 99.9 | -2.7 |
| 5 | 4804.00 | 37.9 PK | 74.0 | -36.1 | 1.49 H | 153 | 36.1 | 1.8 |
| 6 | 4804.00 | 30.8 AV | 54.0 | -23.2 | 1.49 H | 153 | 29.0 | 1.8 |
| **Antenna Polarity & Test Distance : Vertical at 3 m** | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 2388.87 | 56.1 PK | 74.0 | -17.9 | 1.56 V | 234 | 58.8 | -2.7 |
| 2 | 2388.87 | 43.4 AV | 54.0 | -10.6 | 1.56 V | 234 | 46.1 | -2.7 |
| 3 | *2402.00 | 110.1 PK | | | 1.56 V | 234 | 112.8 | -2.7 |
| 4 | *2402.00 | 106.5 AV | | | 1.56 V | 234 | 109.2 | -2.7 |
| 5 | 4804.00 | 43.9 PK | 74.0 | -30.1 | 1.24 V | 287 | 42.1 | 1.8 |
| 6 | 4804.00 | 36.6 AV | 54.0 | -17.4 | 1.24 V | 287 | 34.8 | 1.8 |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

| RF Mode | TX BT_8DPSK | Channel | CH 39：2441 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 25GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2441.00 | 99.8 PK | | | 1.45 H | 138 | 102.5 | -2.7 |
| 2 | *2441.00 | 96.2 AV | | | 1.45 H | 138 | 98.9 | -2.7 |
| 3 | 4882.00 | 37.3 PK | 74.0 | -36.7 | 1.50 H | 138 | 35.6 | 1.7 |
| 4 | 4882.00 | 30.3 AV | 54.0 | -23.7 | 1.50 H | 138 | 28.6 | 1.7 |
| 5 | 7323.00 | 47.7 PK | 74.0 | -26.3 | 1.77 H | 196 | 40.4 | 7.3 |
| 6 | 7323.00 | 37.5 AV | 54.0 | -16.5 | 1.77 H | 196 | 30.2 | 7.3 |
| **Antenna Polarity & Test Distance : Vertical at 3 m** | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2441.00 | 109.5 PK | | | 1.59 V | 246 | 112.2 | -2.7 |
| 2 | *2441.00 | 105.7 AV | | | 1.59 V | 246 | 108.4 | -2.7 |
| 3 | 4882.00 | 43.7 PK | 74.0 | -30.3 | 1.28 V | 309 | 42.0 | 1.7 |
| 4 | 4882.00 | 36.5 AV | 54.0 | -17.5 | 1.28 V | 309 | 34.8 | 1.7 |
| 5 | 7323.00 | 52.3 PK | 74.0 | -21.7 | 1.60 V | 272 | 45.0 | 7.3 |
| 6 | 7323.00 | 44.0 AV | 54.0 | -10.0 | 1.60 V | 272 | 36.7 | 7.3 |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

| RF Mode | TX BT_8DPSK | Channel | CH 78：2480 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 25GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2480.00 | 99.5 PK | | | 1.44 H | 150 | 102.3 | -2.8 |
| 2 | *2480.00 | 96.1 AV | | | 1.44 H | 150 | 98.9 | -2.8 |
| 3 | 2487.50 | 55.9 PK | 74.0 | -18.1 | 1.44 H | 150 | 58.7 | -2.8 |
| 4 | 2487.50 | 43.1 AV | 54.0 | -10.9 | 1.44 H | 150 | 45.9 | -2.8 |
| 5 | 4960.00 | 37.3 PK | 74.0 | -36.7 | 1.58 H | 131 | 35.3 | 2.0 |
| 6 | 4960.00 | 30.2 AV | 54.0 | -23.8 | 1.58 H | 131 | 28.2 | 2.0 |
| 7 | 7440.00 | 48.6 PK | 74.0 | -25.4 | 1.81 H | 203 | 41.0 | 7.6 |
| 8 | 7440.00 | 38.1 AV | 54.0 | -15.9 | 1.81 H | 203 | 30.5 | 7.6 |
| **Antenna Polarity & Test Distance : Vertical at 3 m** | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2480.00 | 109.2 PK | | | 1.58 V | 230 | 112.0 | -2.8 |
| 2 | *2480.00 | 105.3 AV | | | 1.58 V | 230 | 108.1 | -2.8 |
| 3 | 2483.50 | 55.8 PK | 74.0 | -18.2 | 1.58 V | 230 | 58.6 | -2.8 |
| 4 | 2483.50 | 44.5 AV | 54.0 | -9.5 | 1.58 V | 230 | 47.3 | -2.8 |
| 5 | 4960.00 | 43.2 PK | 74.0 | -30.8 | 1.26 V | 302 | 41.2 | 2.0 |
| 6 | 4960.00 | 36.3 AV | 54.0 | -17.7 | 1.26 V | 302 | 34.3 | 2.0 |
| 7 | 7440.00 | 51.7 PK | 74.0 | -22.3 | 1.58 V | 262 | 44.1 | 7.6 |
| 8 | 7440.00 | 43.8 AV | 54.0 | -10.2 | 1.58 V | 262 | 36.2 | 7.6 |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

## Below 1GHz Data:

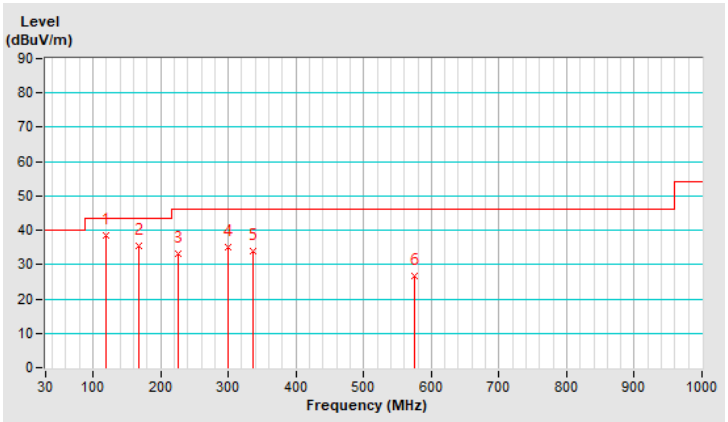
### BT_GFSK

| RF Mode | TX BT_GFSK | Channel | CH 0：2402 MHz |
|---|---|---|---|
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| **1** | **119.81** | **38.4 QP** | **43.5** | **-5.1** | **3.00 H** | **338** | **53.5** | **-15.1** |
| 2 | 167.44 | 35.6 QP | 43.5 | -7.9 | 2.00 H | 162 | 48.7 | -13.1 |
| 3 | 226.07 | 33.2 QP | 46.0 | -12.8 | 2.00 H | 115 | 49.1 | -15.9 |
| 4 | 299.38 | 35.1 QP | 46.0 | -10.9 | 1.50 H | 89 | 47.4 | -12.3 |
| 5 | 336.56 | 33.9 QP | 46.0 | -12.1 | 1.50 H | 342 | 45.2 | -11.3 |
| 6 | 574.97 | 26.8 QP | 46.0 | -19.2 | 1.50 H | 123 | 33.0 | -6.2 |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

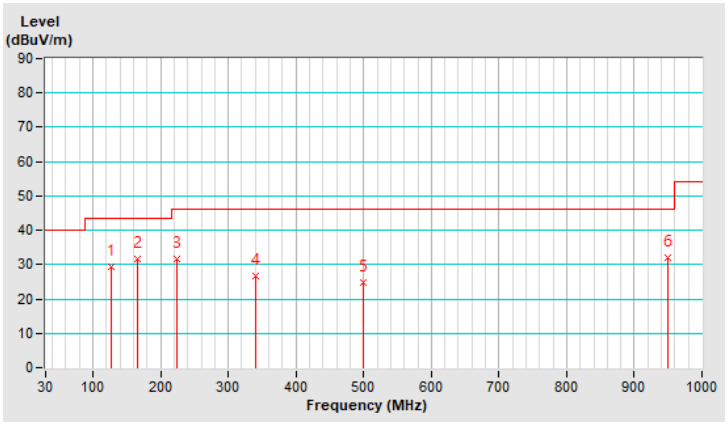


| RF Mode | TX BT_GFSK | Channel | CH 0：2402 MHz |
|---|---|---|---|
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |

| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 126.28 | 29.4 QP | 43.5 | -14.1 | 1.00 V | 34 | 43.8 | -14.4 |
| 2 | 166.34 | 31.5 QP | 43.5 | -12.0 | 1.50 V | 215 | 44.6 | -13.1 |
| 3 | 224.43 | 31.8 QP | 46.0 | -14.2 | 1.00 V | 148 | 47.8 | -16.0 |
| 4 | 340.76 | 26.6 QP | 46.0 | -19.4 | 1.50 V | 175 | 37.9 | -11.3 |
| 5 | 499.18 | 24.6 QP | 46.0 | -21.4 | 1.50 V | 58 | 32.2 | -7.6 |
| 6 | 949.15 | 32.1 QP | 46.0 | -13.9 | 1.00 V | 125 | 32.7 | -0.6 |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



**PIFA Antenna**

**Above 1GHz Data:**

**BT_GFSK**

| RF Mode | TX BT_GFSK | Channel | CH 0：2402 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 25GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 2382.23 | 55.3 PK | 74.0 | -18.7 | 1.00 H | 328 | 57.9 | -2.6 |
| 2 | 2382.23 | 43.3 AV | 54.0 | -10.7 | 1.00 H | 328 | 45.9 | -2.6 |
| 3 | *2402.00 | 105.7 PK | | | 1.00 H | 328 | 108.4 | -2.7 |
| 4 | *2402.00 | 105.3 AV | | | 1.00 H | 328 | 108.0 | -2.7 |
| 5 | 4804.00 | 42.0 PK | 74.0 | -32.0 | 1.40 H | 158 | 40.2 | 1.8 |
| 6 | 4804.00 | 33.3 AV | 54.0 | -20.7 | 1.40 H | 158 | 31.5 | 1.8 |
| **Antenna Polarity & Test Distance : Vertical at 3 m** | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 2363.00 | 56.5 PK | 74.0 | -17.5 | 2.15 V | 84 | 59.2 | -2.7 |
| 2 | 2363.00 | 42.9 AV | 54.0 | -11.1 | 2.15 V | 84 | 45.6 | -2.7 |
| 3 | *2402.00 | 104.1 PK | | | 2.15 V | 84 | 106.8 | -2.7 |
| 4 | *2402.00 | 103.2 AV | | | 2.15 V | 84 | 105.9 | -2.7 |
| 5 | 4804.00 | 40.2 PK | 74.0 | -33.8 | 1.08 V | 115 | 38.4 | 1.8 |
| 6 | 4804.00 | 30.3 AV | 54.0 | -23.7 | 1.08 V | 115 | 28.5 | 1.8 |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

| RF Mode | TX BT_GFSK | Channel | CH 39：2441 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 25GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2441.00 | 106.7 PK | | | 1.09 H | 324 | 109.4 | -2.7 |
| 2 | *2441.00 | 106.4 AV | | | 1.09 H | 324 | 109.1 | -2.7 |
| 3 | 4882.00 | 41.9 PK | 74.0 | -32.1 | 1.44 H | 150 | 40.2 | 1.7 |
| 4 | 4882.00 | 33.1 AV | 54.0 | -20.9 | 1.44 H | 150 | 31.4 | 1.7 |
| 5 | 7323.00 | 53.4 PK | 74.0 | -20.6 | 1.48 H | 6 | 46.1 | 7.3 |
| 6 | 7323.00 | 44.5 AV | 54.0 | -9.5 | 1.48 H | 6 | 37.2 | 7.3 |
| **Antenna Polarity & Test Distance : Vertical at 3 m** | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2441.00 | 105.2 PK | | | 2.09 V | 73 | 107.9 | -2.7 |
| 2 | *2441.00 | 104.6 AV | | | 2.09 V | 73 | 107.3 | -2.7 |
| 3 | 4882.00 | 40.4 PK | 74.0 | -33.6 | 1.08 V | 102 | 38.7 | 1.7 |
| 4 | 4882.00 | 30.7 AV | 54.0 | -23.3 | 1.08 V | 102 | 29.0 | 1.7 |
| 5 | 7323.00 | 48.7 PK | 74.0 | -25.3 | 3.87 V | 332 | 41.4 | 7.3 |
| 6 | 7323.00 | 40.1 AV | 54.0 | -13.9 | 3.87 V | 332 | 32.8 | 7.3 |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

| RF Mode | TX BT_GFSK | Channel | CH 78：2480 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 25GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2480.00 | 105.9 PK | | | 1.03 H | 325 | 108.7 | -2.8 |
| 2 | *2480.00 | 105.4 AV | | | 1.03 H | 325 | 108.2 | -2.8 |
| 3 | 2488.90 | 55.7 PK | 74.0 | -18.3 | 1.03 H | 325 | 58.5 | -2.8 |
| 4 | 2488.90 | 43.5 AV | 54.0 | -10.5 | 1.03 H | 325 | 46.3 | -2.8 |
| 5 | 4960.00 | 42.0 PK | 74.0 | -32.0 | 1.41 H | 164 | 40.0 | 2.0 |
| 6 | 4960.00 | 33.0 AV | 54.0 | -21.0 | 1.41 H | 164 | 31.0 | 2.0 |
| 7 | 7440.00 | 53.5 PK | 74.0 | -20.5 | 1.51 H | 20 | 45.9 | 7.6 |
| 8 | 7440.00 | 44.5 AV | 54.0 | -9.5 | 1.51 H | 20 | 36.9 | 7.6 |
| **Antenna Polarity & Test Distance : Vertical at 3 m** | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2480.00 | 103.8 PK | | | 2.24 V | 86 | 106.6 | -2.8 |
| 2 | *2480.00 | 102.9 AV | | | 2.24 V | 86 | 105.7 | -2.8 |
| 3 | 2483.50 | 54.7 PK | 74.0 | -19.3 | 2.24 V | 86 | 57.5 | -2.8 |
| 4 | 2483.50 | 43.5 AV | 54.0 | -10.5 | 2.24 V | 86 | 46.3 | -2.8 |
| 5 | 4960.00 | 40.2 PK | 74.0 | -33.8 | 1.11 V | 90 | 38.2 | 2.0 |
| 6 | 4960.00 | 30.2 AV | 54.0 | -23.8 | 1.11 V | 90 | 28.2 | 2.0 |
| 7 | 7440.00 | 48.8 PK | 74.0 | -25.2 | 3.82 V | 323 | 41.2 | 7.6 |
| 8 | 7440.00 | 40.1 AV | 54.0 | -13.9 | 3.82 V | 323 | 32.5 | 7.6 |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

## BT_8DPSK

| RF Mode | TX BT_8DPSK | Channel | CH 0：2402 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 25GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 2340.70 | 55.8 PK | 74.0 | -18.2 | 1.06 H | 331 | 58.4 | -2.6 |
| 2 | 2340.70 | 43.3 AV | 54.0 | -10.7 | 1.06 H | 331 | 45.9 | -2.6 |
| 3 | *2402.00 | 106.5 PK | | | 1.06 H | 331 | 109.2 | -2.7 |
| 4 | *2402.00 | 103.1 AV | | | 1.06 H | 331 | 105.8 | -2.7 |
| 5 | 4804.00 | 40.5 PK | 74.0 | -33.5 | 1.35 H | 149 | 38.7 | 1.8 |
| 6 | 4804.00 | 30.7 AV | 54.0 | -23.3 | 1.35 H | 149 | 28.9 | 1.8 |
| **Antenna Polarity & Test Distance : Vertical at 3 m** | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 2380.30 | 55.7 PK | 74.0 | -18.3 | 2.13 V | 80 | 58.3 | -2.6 |
| 2 | 2380.30 | 43.2 AV | 54.0 | -10.8 | 2.13 V | 80 | 45.8 | -2.6 |
| 3 | *2402.00 | 104.8 PK | | | 2.13 V | 80 | 107.5 | -2.7 |
| 4 | *2402.00 | 101.4 AV | | | 2.13 V | 80 | 104.1 | -2.7 |
| 5 | 4804.00 | 41.1 PK | 74.0 | -32.9 | 1.09 V | 97 | 39.3 | 1.8 |
| 6 | 4804.00 | 31.1 AV | 54.0 | -22.9 | 1.09 V | 97 | 29.3 | 1.8 |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

| RF Mode | TX BT_8DPSK | Channel | CH 39：2441 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 25GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2441.00 | 106.4 PK | | | 1.07 H | 343 | 109.1 | -2.7 |
| 2 | *2441.00 | 103.3 AV | | | 1.07 H | 343 | 106.0 | -2.7 |
| 3 | 4882.00 | 41.1 PK | 74.0 | -32.9 | 1.38 H | 158 | 39.4 | 1.7 |
| 4 | 4882.00 | 31.2 AV | 54.0 | -22.8 | 1.38 H | 158 | 29.5 | 1.7 |
| 5 | 7323.00 | 52.9 PK | 74.0 | -21.1 | 1.46 H | 16 | 45.6 | 7.3 |
| 6 | 7323.00 | 43.9 AV | 54.0 | -10.1 | 1.46 H | 16 | 36.6 | 7.3 |
| **Antenna Polarity & Test Distance : Vertical at 3 m** | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2441.00 | 105.2 PK | | | 2.13 V | 96 | 107.9 | -2.7 |
| 2 | *2441.00 | 101.5 AV | | | 2.13 V | 96 | 104.2 | -2.7 |
| 3 | 4882.00 | 40.3 PK | 74.0 | -33.7 | 1.09 V | 94 | 38.6 | 1.7 |
| 4 | 4882.00 | 30.4 AV | 54.0 | -23.6 | 1.09 V | 94 | 28.7 | 1.7 |
| 5 | 7323.00 | 48.4 PK | 74.0 | -25.6 | 3.93 V | 323 | 41.1 | 7.3 |
| 6 | 7323.00 | 40.0 AV | 54.0 | -14.0 | 3.93 V | 323 | 32.7 | 7.3 |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

| RF Mode | TX BT_8DPSK | Channel | CH 78：2480 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 25GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2480.00 | 106.9 PK | | | 1.08 H | 332 | 109.7 | -2.8 |
| 2 | *2480.00 | 103.5 AV | | | 1.08 H | 332 | 106.3 | -2.8 |
| 3 | 2485.70 | 55.8 PK | 74.0 | -18.2 | 1.08 H | 332 | 58.6 | -2.8 |
| 4 | 2485.70 | 43.7 AV | 54.0 | -10.3 | 1.08 H | 332 | 46.5 | -2.8 |
| 5 | 4960.00 | 41.3 PK | 74.0 | -32.7 | 1.50 H | 139 | 39.3 | 2.0 |
| 6 | 4960.00 | 32.6 AV | 54.0 | -21.4 | 1.50 H | 139 | 30.6 | 2.0 |
| 7 | 7440.00 | 53.5 PK | 74.0 | -20.5 | 1.45 H | 21 | 45.9 | 7.6 |
| 8 | 7440.00 | 44.8 AV | 54.0 | -9.2 | 1.45 H | 21 | 37.2 | 7.6 |
| **Antenna Polarity & Test Distance : Vertical at 3 m** | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2480.00 | 104.6 PK | | | 2.21 V | 87 | 107.4 | -2.8 |
| 2 | *2480.00 | 101.1 AV | | | 2.21 V | 87 | 103.9 | -2.8 |
| 3 | 2483.50 | 55.2 PK | 74.0 | -18.8 | 2.21 V | 87 | 58.0 | -2.8 |
| 4 | 2483.50 | 43.9 AV | 54.0 | -10.1 | 2.21 V | 87 | 46.7 | -2.8 |
| 5 | 4960.00 | 40.0 PK | 74.0 | -34.0 | 1.06 V | 92 | 38.0 | 2.0 |
| 6 | 4960.00 | 30.5 AV | 54.0 | -23.5 | 1.06 V | 92 | 28.5 | 2.0 |
| 7 | 7440.00 | 48.4 PK | 74.0 | -25.6 | 3.84 V | 342 | 40.8 | 7.6 |
| 8 | 7440.00 | 40.0 AV | 54.0 | -14.0 | 3.84 V | 342 | 32.4 | 7.6 |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

## Below 1GHz Data:

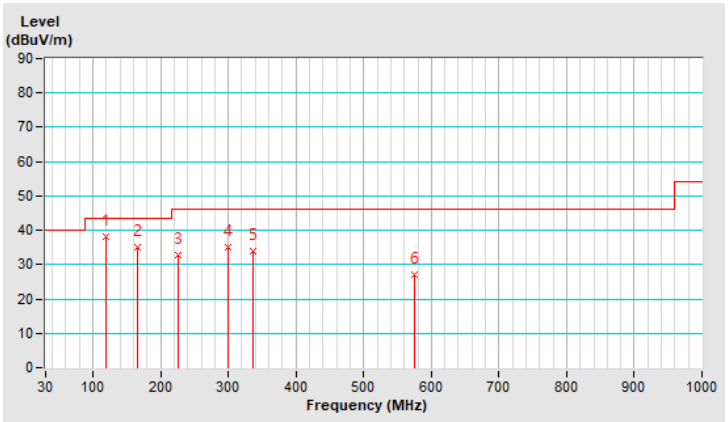
### BT_GFSK

| RF Mode | TX BT_GFSK | Channel | CH 0：2402 MHz |
|---|---|---|---|
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 119.84 | 38.2 QP | 43.5 | -5.3 | 3.00 H | 345 | 53.3 | -15.1 |
| 2 | 166.13 | 34.9 QP | 43.5 | -8.6 | 2.00 H | 161 | 48.0 | -13.1 |
| 3 | 226.00 | 32.9 QP | 46.0 | -13.1 | 2.00 H | 127 | 48.8 | -15.9 |
| 4 | 298.75 | 34.9 QP | 46.0 | -11.1 | 1.50 H | 91 | 47.2 | -12.3 |
| 5 | 336.59 | 33.8 QP | 46.0 | -12.2 | 1.50 H | 324 | 45.1 | -11.3 |
| 6 | 575.39 | 27.0 QP | 46.0 | -19.0 | 1.50 H | 123 | 33.2 | -6.2 |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

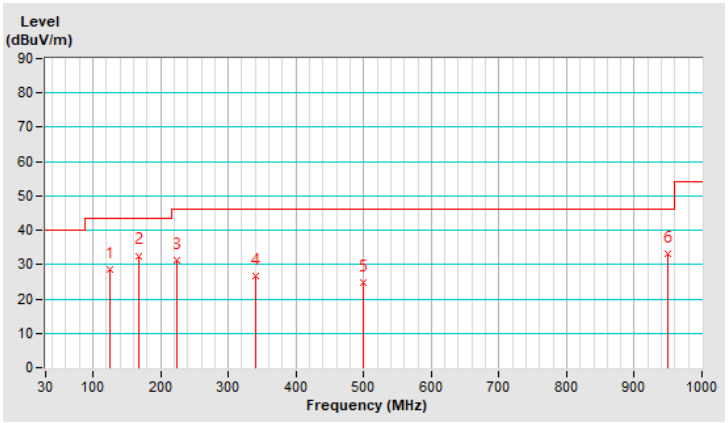


| RF Mode | TX BT_GFSK | Channel | CH 0：2402 MHz |
|---|---|---|---|
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |

| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 125.00 | 28.5 QP | 43.5 | -15.0 | 1.00 V | 31 | 43.1 | -14.6 |
| 2 | 167.42 | 32.6 QP | 43.5 | -10.9 | 1.50 V | 235 | 45.7 | -13.1 |
| 3 | 223.57 | 31.2 QP | 46.0 | -14.8 | 1.00 V | 141 | 47.2 | -16.0 |
| 4 | 341.30 | 26.8 QP | 46.0 | -19.2 | 1.50 V | 169 | 38.1 | -11.3 |
| 5 | 499.31 | 24.8 QP | 46.0 | -21.2 | 1.50 V | 40 | 32.4 | -7.6 |
| 6 | 950.15 | 33.1 QP | 46.0 | -12.9 | 1.00 V | 132 | 33.7 | -0.6 |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



## 4.2 Conducted Emission Measurement

### 4.2.1 Limits of Conducted Emission Measurement

| Frequency (MHz) | Conducted Limit (dBuV) | |
|---|---|---|
| | Quasi-peak | Average |
| 0.15 - 0.5 | 66 - 56 | 56 - 46 |
| 0.50 - 5.0 | 56 | 46 |
| 5.0 - 30.0 | 60 | 50 |

Note: 1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

### 4.2.2 Test Instruments

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|---|---|---|---|---|
| Test Receiver R&S | ESCS 30 | 847124/029 | Oct. 20, 2020 | Oct. 19, 2021 |
| Line-Impedance Stabilization Network (for EUT) R&S | ESH3-Z5 | 848773/004 | Oct. 27, 2020 | Oct. 26, 2021 |
| Line-Impedance Stabilization Network (for Peripheral) R&S | ESH3-Z5 | 835239/001 | Mar. 26, 2021 | Mar. 25, 2022 |
| 50 ohms Terminator | 50 | 3 | Oct. 26, 2020 | Oct. 25, 2021 |
| RF Cable | 5D-FB | COCCAB-001 | Sep. 26, 2020 | Sep. 25, 2021 |
| Fixed attenuator EMCI | STI02-2200-10 | 005 | Aug. 29, 2020 | Aug. 28, 2021 |
| Software BVADT | BVADT_Cond_ V7.3.7.4 | NA | NA | NA |

1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Conduction 1.
3. Tested Date: June 21, 2021

4.2.3 Test Procedures

a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

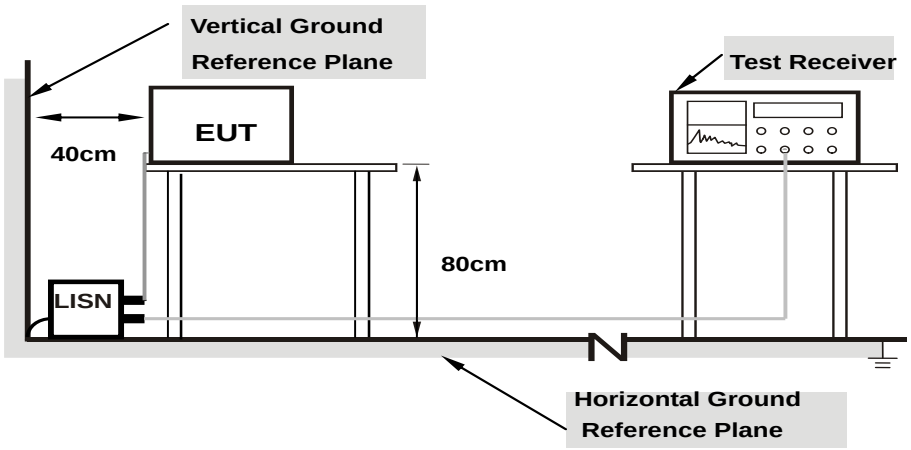
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

**NOTE:** The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

4.2.4 Deviation From Test Standard

No deviation.

4.2.5 Test Setup




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

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT Operating Condition

Same as 4.1.6.

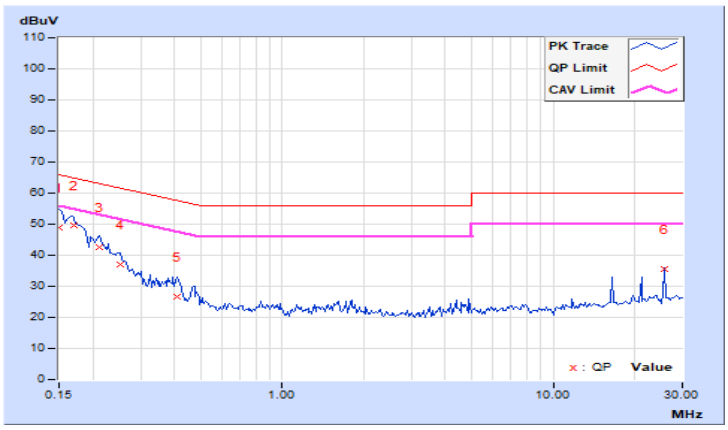
4.2.7 Test Results (Mode 1)

| RF Mode | TX BT_GFSK | Channel | CH 0：2402 MHz |
|---|---|---|---|
| Frequency Range | 150kHz ~ 30MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9kHz |

| Phase Of Power : Line (L) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) | | Emission Level (dBuV) | | Limit (dBuV) | | Margin (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.15000 | 9.95 | 39.04 | 17.39 | 48.99 | 27.34 | 66.00 | 56.00 | -17.01 | -28.66 |
| 2 | 0.16953 | 9.96 | 39.70 | 22.87 | 49.66 | 32.83 | 64.98 | 54.98 | -15.32 | -22.15 |
| 3 | 0.21250 | 9.97 | 32.49 | 18.98 | 42.46 | 28.95 | 63.11 | 53.11 | -20.65 | -24.16 |
| 4 | 0.25156 | 9.98 | 27.20 | 10.22 | 37.18 | 20.20 | 61.71 | 51.71 | -24.53 | -31.51 |
| 5 | 0.40781 | 9.99 | 16.61 | 7.44 | 26.60 | 17.43 | 57.69 | 47.69 | -31.09 | -30.26 |
| 6 | 25.87109 | 11.24 | 24.30 | 24.15 | 35.54 | 35.39 | 60.00 | 50.00 | -24.46 | -14.61 |

**Remarks:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

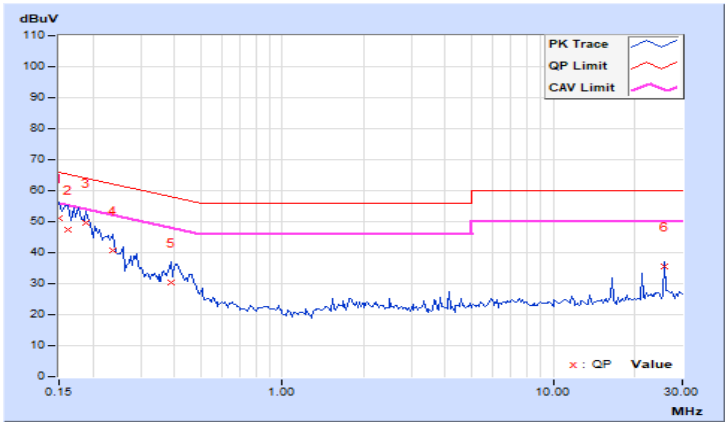


| RF Mode | TX BT_GFSK | Channel | CH 0：2402 MHz |
|---|---|---|---|
| Frequency Range | 150kHz ~ 30MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9kHz |

| Phase Of Power : Neutral (N) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) | | Emission Level (dBuV) | | Limit (dBuV) | | Margin (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.15000 | 9.92 | 41.24 | 21.78 | 51.16 | 31.70 | 66.00 | 56.00 | -14.84 | -24.30 |
| 2 | 0.16172 | 9.93 | 37.47 | 17.22 | 47.40 | 27.15 | 65.38 | 55.38 | -17.98 | -28.23 |
| **3** | **0.18906** | **9.94** | **39.72** | **21.81** | **49.66** | **31.75** | **64.08** | **54.08** | **-14.42** | **-22.33** |
| 4 | 0.23594 | 9.95 | 30.69 | 15.08 | 40.64 | 25.03 | 62.24 | 52.24 | -21.60 | -27.21 |
| 5 | 0.38828 | 9.96 | 20.23 | 6.12 | 30.19 | 16.08 | 58.10 | 48.10 | -27.91 | -32.02 |
| 6 | 25.87500 | 10.91 | 24.82 | 24.61 | 35.73 | 35.52 | 60.00 | 50.00 | -24.27 | -14.48 |

**Remarks:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



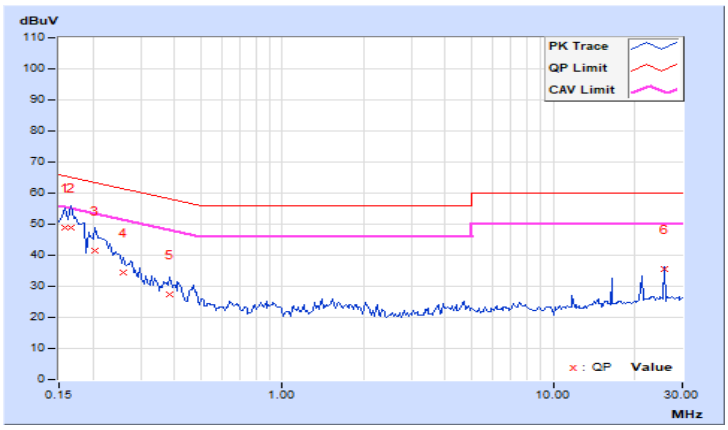
4.2.8 Test Results (Mode 2)

| RF Mode | TX BT_GFSK | Channel | CH 0：2402 MHz |
|---|---|---|---|
| Frequency Range | 150kHz ~ 30MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9kHz |

| Phase Of Power : Line (L) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) | | Emission Level (dBuV) | | Limit (dBuV) | | Margin (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.15781 | 9.95 | 39.01 | 17.30 | 48.96 | 27.25 | 65.58 | 55.58 | -16.62 | -28.33 |
| 2 | 0.16562 | 9.96 | 38.98 | 21.42 | 48.94 | 31.38 | 65.18 | 55.18 | -16.24 | -23.80 |
| 3 | 0.20469 | 9.97 | 31.56 | 15.61 | 41.53 | 25.58 | 63.42 | 53.42 | -21.89 | -27.84 |
| 4 | 0.25938 | 9.98 | 24.44 | 12.39 | 34.42 | 22.37 | 61.45 | 51.45 | -27.03 | -29.08 |
| 5 | 0.38438 | 9.99 | 17.55 | 8.30 | 27.54 | 18.29 | 58.18 | 48.18 | -30.64 | -29.89 |
| 6 | 25.87109 | 11.24 | 24.21 | 24.00 | 35.45 | 35.24 | 60.00 | 50.00 | -24.55 | -14.76 |

**Remarks:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

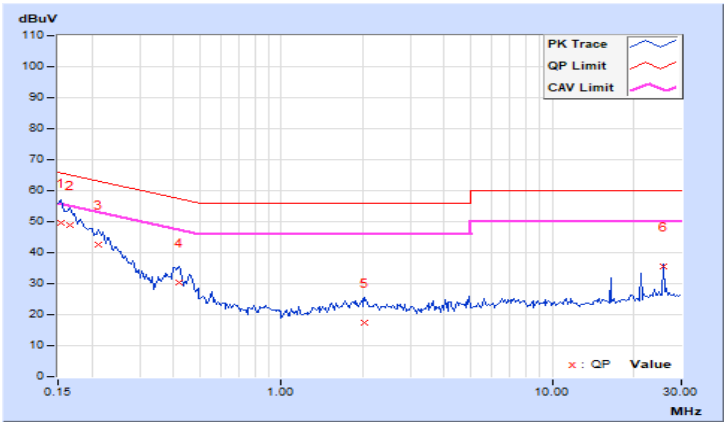


| RF Mode | TX BT_GFSK | Channel | CH 0：2402 MHz |
|---|---|---|---|
| Frequency Range | 150kHz ~ 30MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9kHz |

| Phase Of Power : Neutral (N) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) | | Emission Level (dBuV) | | Limit (dBuV) | | Margin (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.15391 | 9.92 | 39.87 | 18.72 | 49.79 | 28.64 | 65.79 | 55.79 | -16.00 | -27.15 |
| 2 | 0.16562 | 9.93 | 39.01 | 21.97 | 48.94 | 31.90 | 65.18 | 55.18 | -16.24 | -23.28 |
| 3 | 0.21250 | 9.95 | 32.75 | 18.04 | 42.70 | 27.99 | 63.11 | 53.11 | -20.41 | -25.12 |
| 4 | 0.41953 | 9.96 | 20.50 | 11.64 | 30.46 | 21.60 | 57.46 | 47.46 | -27.00 | -25.86 |
| 5 | 2.03125 | 10.04 | 7.29 | 2.34 | 17.33 | 12.38 | 56.00 | 46.00 | -38.67 | -33.62 |
| 6 | 25.87109 | 10.91 | 24.70 | 24.53 | 35.61 | 35.44 | 60.00 | 50.00 | -24.39 | -14.56 |

**Remarks:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

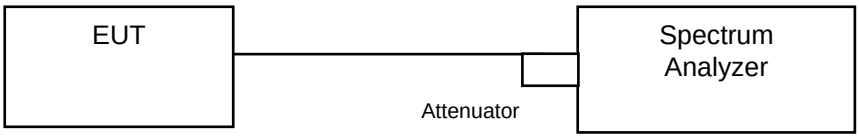


## 4.3 Number of Hopping Frequency Used

### 4.3.1 Limits of Hopping Frequency Used Measurement

At least 15 channels frequencies, and should be equally spaced.

### 4.3.2 Test Setup




### 4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.3.4 Test Procedure

a. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.

b. Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.

c. Set the SA on MaxHold Mode, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been recorded.

d. Set the SA on View mode and then plot the result on SA screen.

e. Repeat above procedures until all frequencies measured were complete.

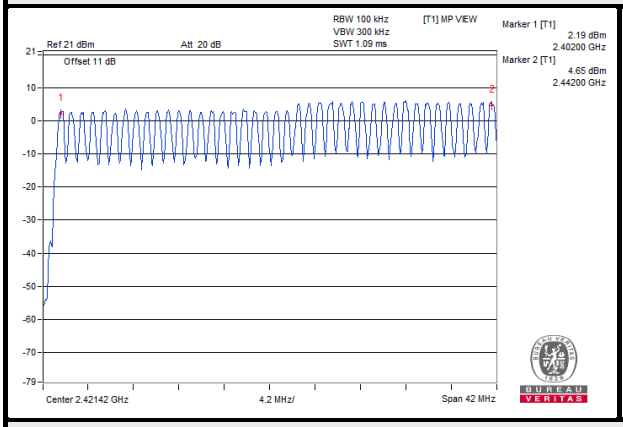
### 4.3.5 Deviation from Test Standard

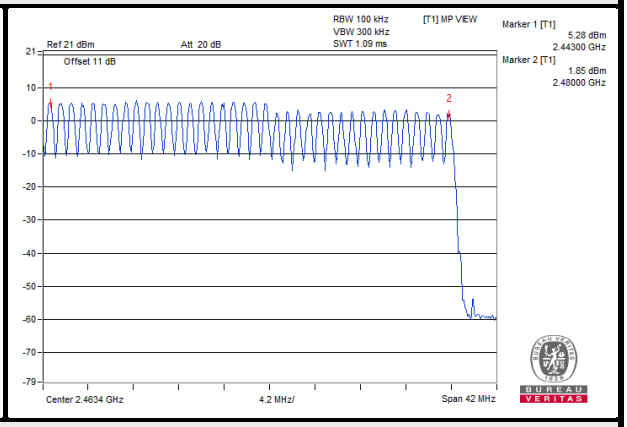
No deviation.

### 4.3.6 Test Results (Mode 1)

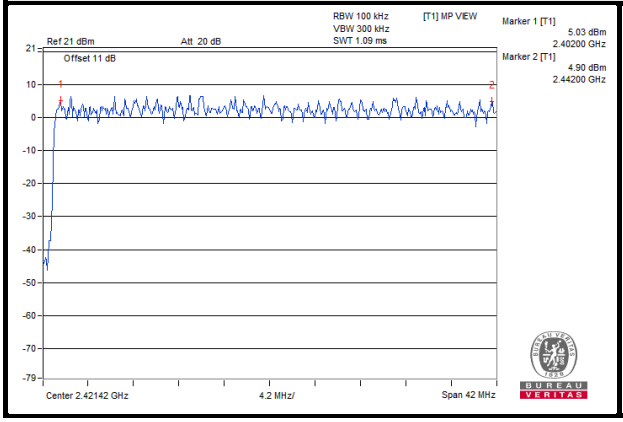
There are 79 hopping frequencies in the hopping mode. Please refer to next page for the test result. On the plots, it shows that the hopping frequencies are equally spaced.

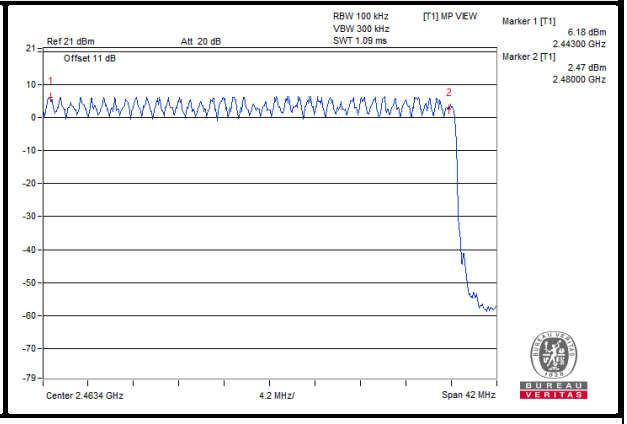
**GFSK**




**8DPSK**

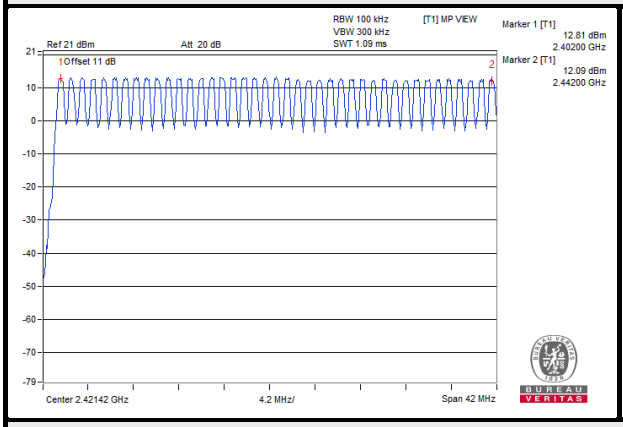


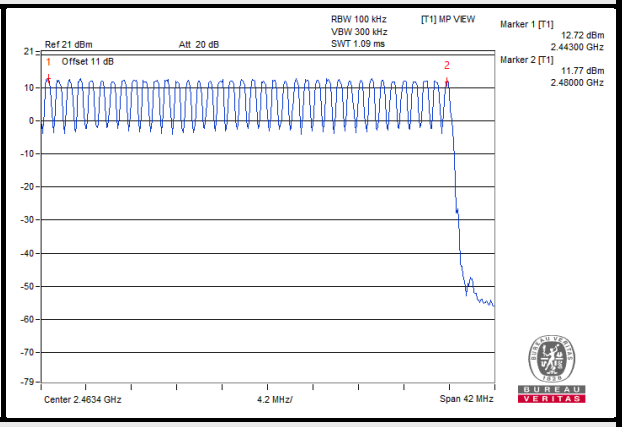



### 4.3.7 Test Results (Mode 2)

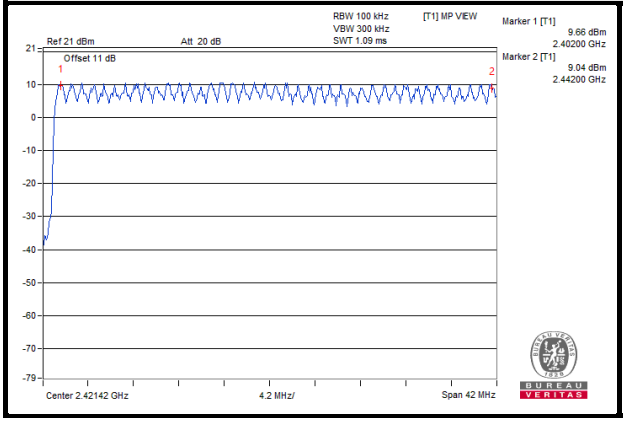
There are 79 hopping frequencies in the hopping mode. Please refer to next page for the test result. On the plots, it shows that the hopping frequencies are equally spaced.

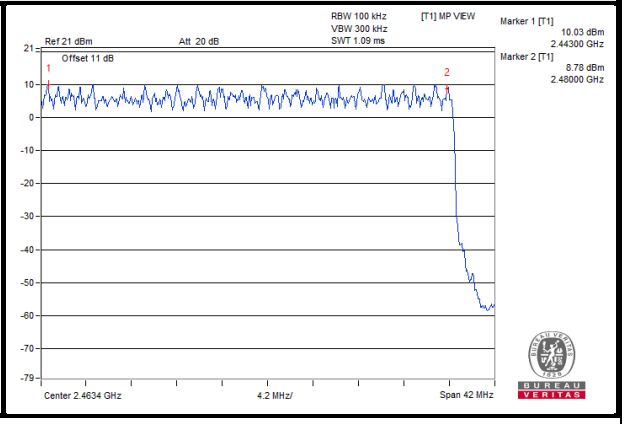
**GFSK**




**8DPSK**



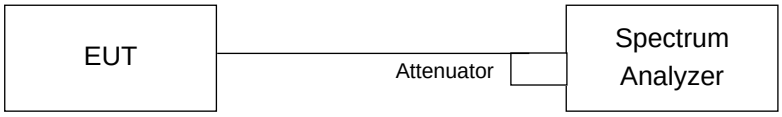



## 4.4 Dwell Time on Each Channel

### 4.4.1 Limits of Dwell Time on Each Channel Measurement

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.

### 4.4.2 Test Setup




### 4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.4.4 Test Procedures

a. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
b. Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
c. Adjust the center frequency of SA on any frequency be measured and set SA to zero span mode. And then, set RBW and VBW of spectrum analyzer to proper value.
d. Measure the time duration of one transmission on the measured frequency. And then plot the result with time difference of this time duration.
e. Repeat above procedures until all different time-slot modes have been completed.

.

### 4.4.5 Deviation from Test Standard

No deviation.

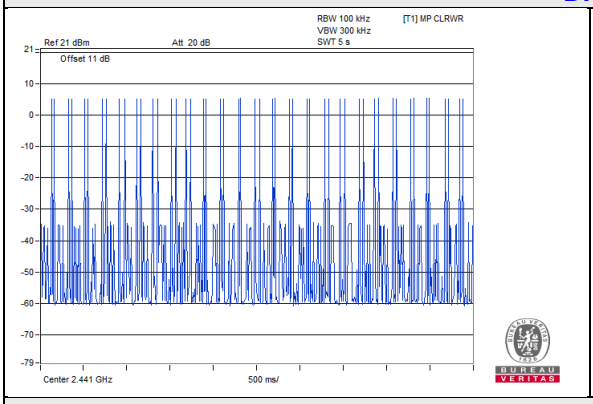
4.4.6 Test Results (Mode 1)

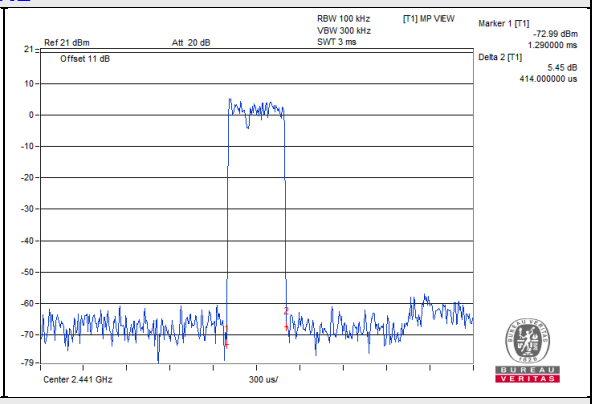
**GFSK**

| Mode | Number of transmission in a 31.6 (79Hopping*0.4) | Length of transmission time (msec) | Result (msec) | Limit (msec) | Pass/Fail |
|---|---|---|---|---|---|
| DH1 | 50 (times / 5 sec) * 6.32 = 316 times | 0.414 | 130.82 | 400 | Pass |
| DH3 | 26 (times / 5 sec) * 6.32 = 165 times | 1.72 | 283.8 | 400 | Pass |
| DH5 | 17 (times / 5 sec) * 6.32 = 108 times | 3.024 | 326.59 | 400 | Pass |

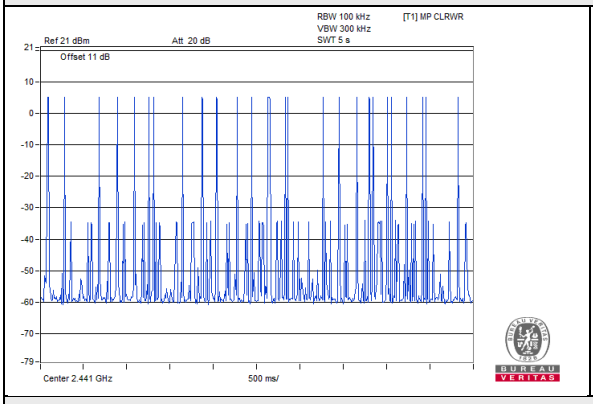
**NOTE:** Test plots of the transmitting time slot are shown on next page.

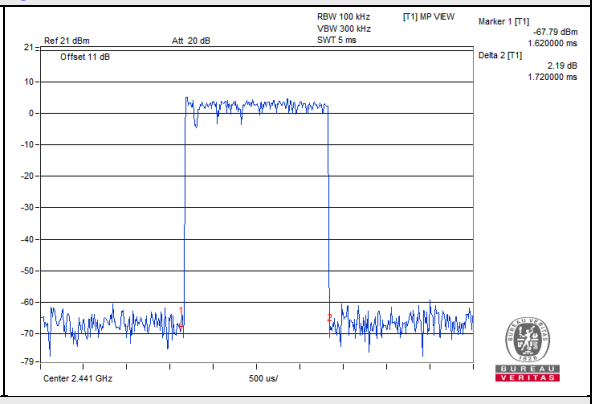
## DH1


RBW 100 kHz
VBW 300 kHz
SWT 5 s
[T1] MP CLRWR
Ref 21 dBm
Att 20 dB
Offset 11 dB
Center 2.441 GHz
500 ms/

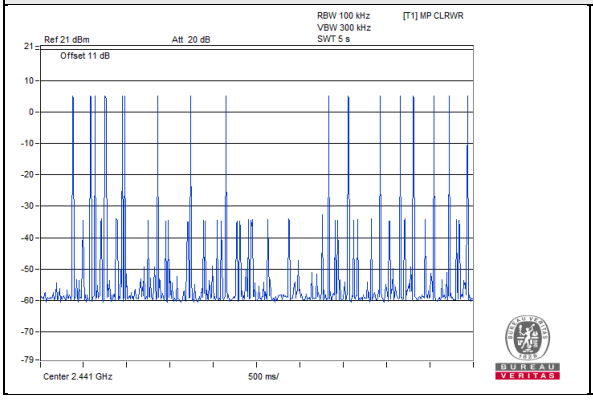

RBW 100 kHz
VBW 300 kHz
SWT 3 ms
[T1] MP VIEW
Marker 1 [T1]
-72.99 dBm
1.290000 ms
Delta 2 [T1]
5.45 dB
414.000000 us
Ref 21 dBm
Att 20 dB
Offset 11 dB
Center 2.441 GHz
300 us/

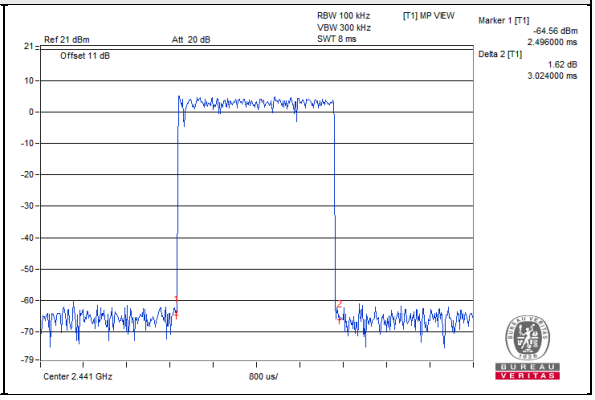
## DH3


RBW 100 kHz
VBW 300 kHz
SWT 5 s
[T1] MP CLRWR
Ref 21 dBm
Att 20 dB
Offset 11 dB
Center 2.441 GHz
500 ms/


RBW 100 kHz
VBW 300 kHz
SWT 5 ms
[T1] MP VIEW
Marker 1 [T1]
-67.79 dBm
1.620000 ms
Delta 2 [T1]
2.19 dB
1.720000 ms
Ref 21 dBm
Att 20 dB
Offset 11 dB
Center 2.441 GHz
500 us/

## DH5


RBW 100 kHz
VBW 300 kHz
SWT 5 s
[T1] MP CLRWR
Ref 21 dBm
Att 20 dB
Offset 11 dB
Center 2.441 GHz
500 ms/

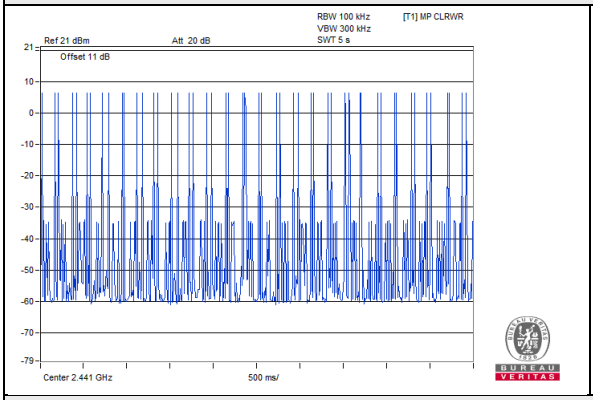

RBW 100 kHz
VBW 300 kHz
SWT 8 ms
[T1] MP VIEW
Marker 1 [T1]
-64.56 dBm
2.496000 ms
Delta 2 [T1]
1.62 dB
3.024000 ms
Ref 21 dBm
Att 20 dB
Offset 11 dB
Center 2.441 GHz
800 us/

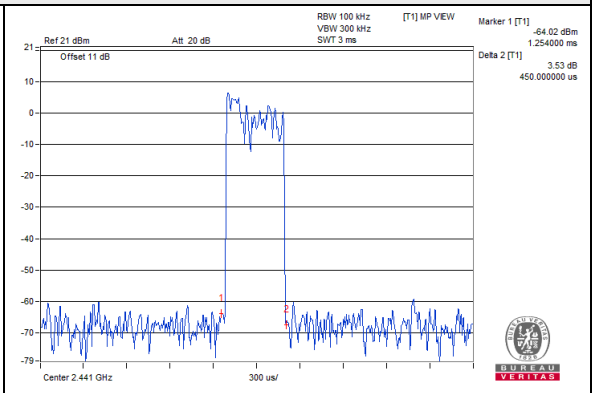
**8DPSK**

| Mode | Number of transmission in a 31.6 (79Hopping*0.4) | Length of transmission time (msec) | Result (msec) | Limit (msec) | Pass/Fail |
|---|---|---|---|---|---|
| 3DH1 | 50 (times / 5 sec) * 6.32 = 316 times | 0.45 | 142.2 | 400 | Pass |
| 3DH3 | 25 (times / 5 sec) * 6.32 = 158 times | 1.69 | 267.02 | 400 | Pass |
| 3DH5 | 16 (times / 5 sec) * 6.32 = 102 times | 3.026 | 308.65 | 400 | Pass |

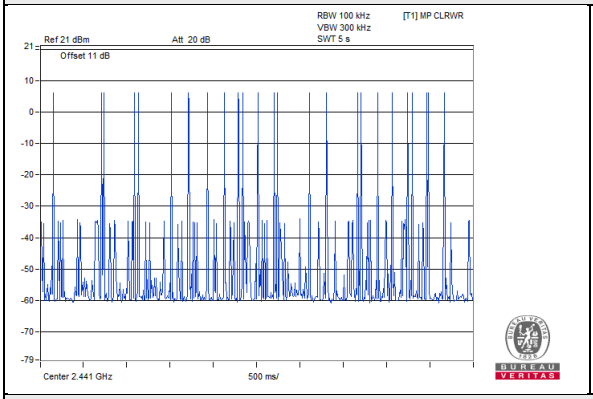
**NOTE:** Test plots of the transmitting time slot are shown on next page.

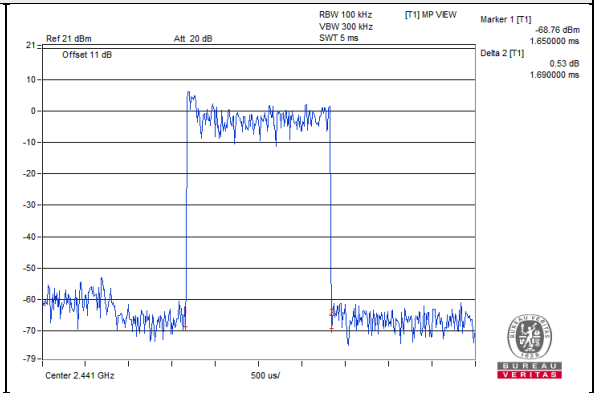
## 3DH1



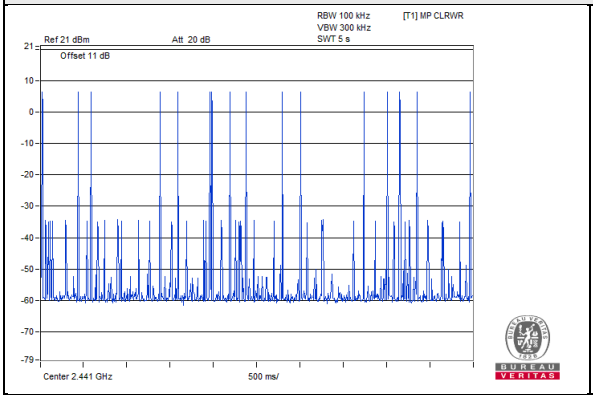



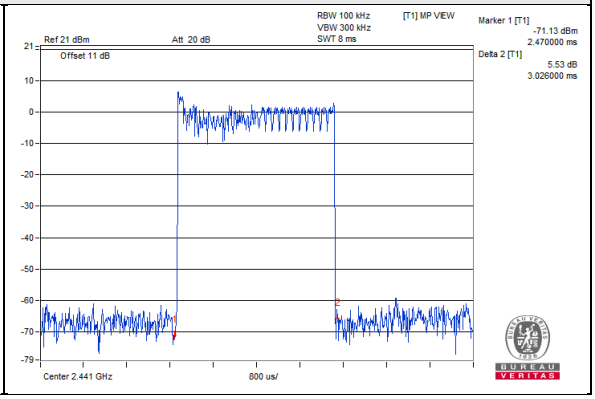

## 3DH3




## 3DH5



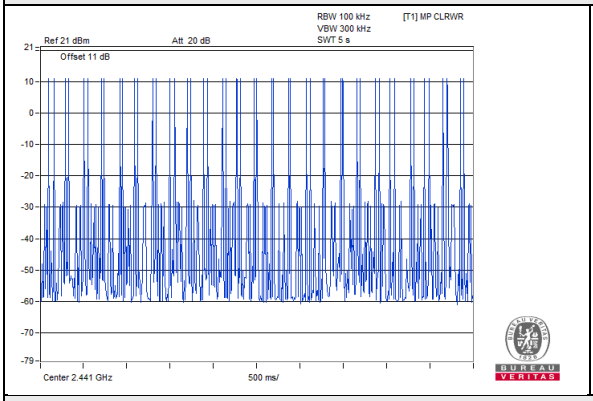
4.4.7 Test Results (Mode 2)

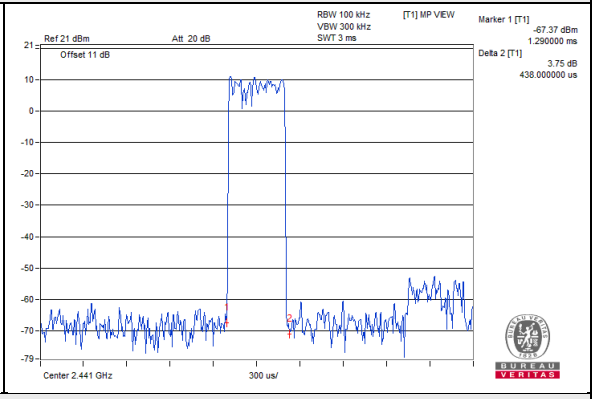
**GFSK**

| Mode | Number of transmission in a 31.6 (79Hopping*0.4) | Length of transmission time (msec) | Result (msec) | Limit (msec) | Pass/Fail |
|---|---|---|---|---|---|
| DH1 | 50 (times / 5 sec) * 6.32 = 316 times | 0.438 | 138.41 | 400 | Pass |
| DH3 | 25 (times / 5 sec) * 6.32 = 158 times | 1.73 | 273.34 | 400 | Pass |
| DH5 | 16 (times / 5 sec) * 6.32 = 102 times | 3.008 | 306.82 | 400 | Pass |

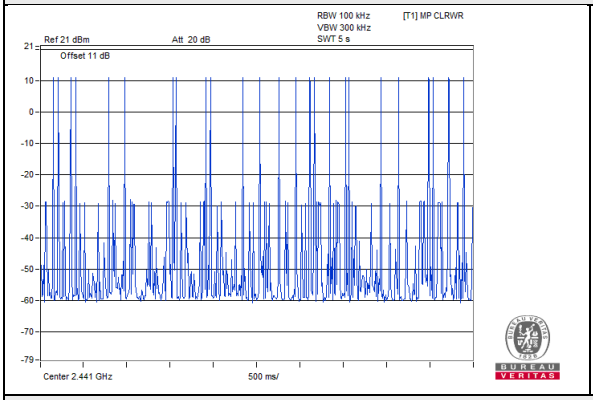
**NOTE:** Test plots of the transmitting time slot are shown on next page.

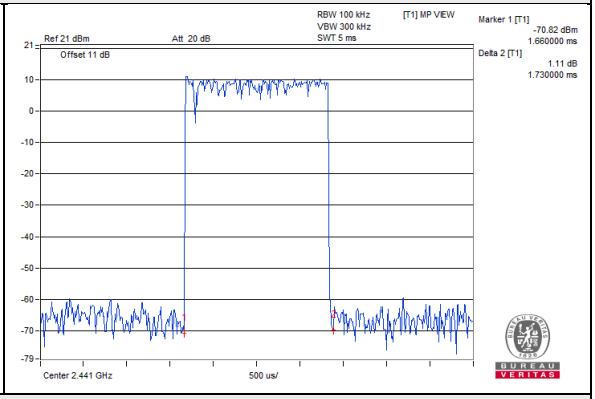
## DH1


RBW 100 kHz
VBW 300 kHz
SWT 5 s
[T1] MP CLRWR
Ref 21 dBm
Att 20 dB
Offset 11 dB
Center 2.441 GHz
500 ms/

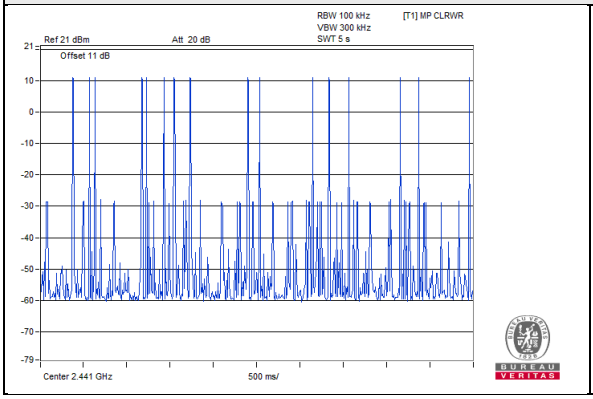

RBW 100 kHz
VBW 300 kHz
SWT 3 ms
[T1] MP VIEW
Marker 1 [T1]
-67.37 dBm
1.290000 ms
Delta 2 [T1]
3.75 dB
438.000000 us
Ref 21 dBm
Att 20 dB
Offset 11 dB
Center 2.441 GHz
300 us/

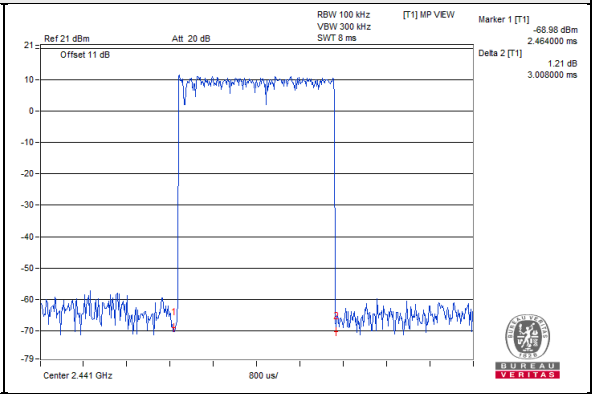
## DH3


RBW 100 kHz
VBW 300 kHz
SWT 5 s
[T1] MP CLRWR
Ref 21 dBm
Att 20 dB
Offset 11 dB
Center 2.441 GHz
500 ms/


RBW 100 kHz
VBW 300 kHz
SWT 5 ms
[T1] MP VIEW
Marker 1 [T1]
-70.82 dBm
1.660000 ms
Delta 2 [T1]
1.11 dB
1.730000 ms
Ref 21 dBm
Att 20 dB
Offset 11 dB
Center 2.441 GHz
500 us/

## DH5


RBW 100 kHz
VBW 300 kHz
SWT 5 s
[T1] MP CLRWR
Ref 21 dBm
Att 20 dB
Offset 11 dB
Center 2.441 GHz
500 ms/

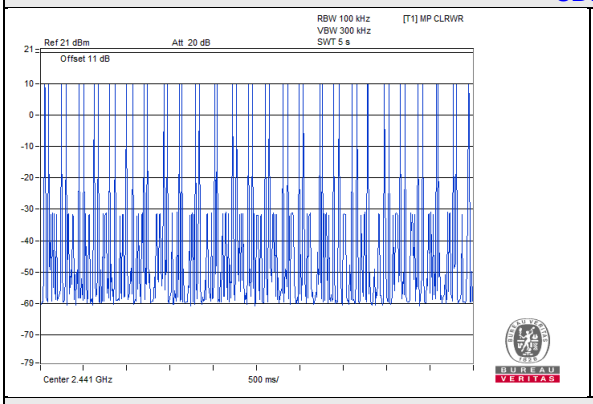

RBW 100 kHz
VBW 300 kHz
SWT 8 ms
[T1] MP VIEW
Marker 1 [T1]
-68.98 dBm
2.464000 ms
Delta 2 [T1]
1.21 dB
3.008000 ms
Ref 21 dBm
Att 20 dB
Offset 11 dB
Center 2.441 GHz
800 us/

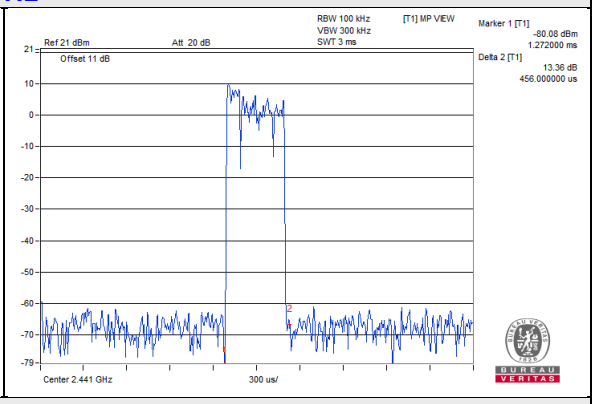
**8DPSK**

| Mode | Number of transmission in a 31.6 (79Hopping*0.4) | Length of transmission time (msec) | Result (msec) | Limit (msec) | Pass/Fail |
|---|---|---|---|---|---|
| 3DH1 | 50 (times / 5 sec) * 6.32 = 316 times | 0.456 | 144.1 | 400 | Pass |
| 3DH3 | 26 (times / 5 sec) * 6.32 = 165 times | 1.73 | 285.45 | 400 | Pass |
| 3DH5 | 16 (times / 5 sec) * 6.32 = 102 times | 2.992 | 305.18 | 400 | Pass |

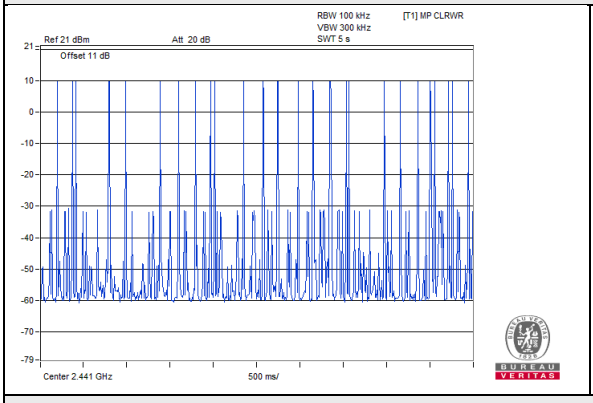
**NOTE:** Test plots of the transmitting time slot are shown on next page.

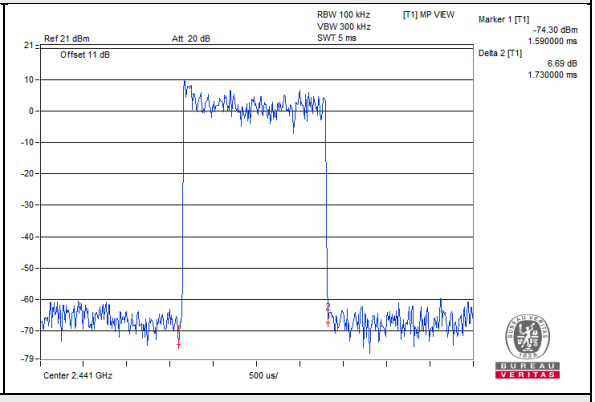
## 3DH1



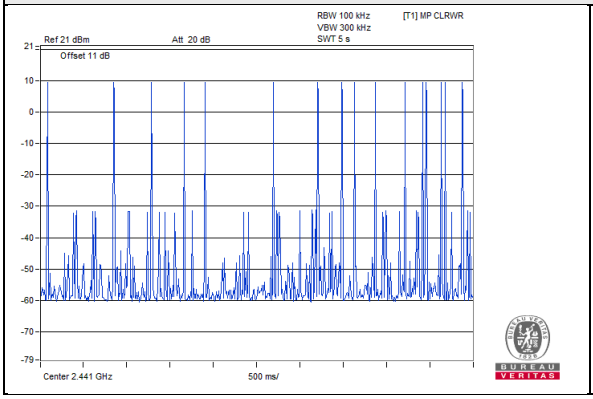



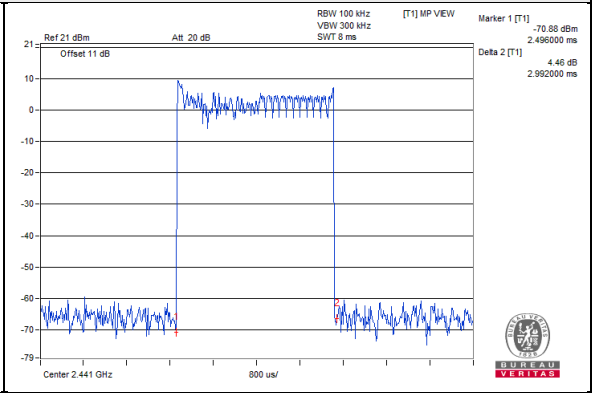

## 3DH3




## 3DH5



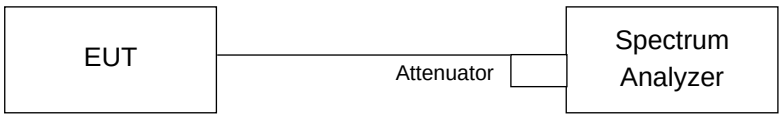



## 4.5 Channel Bandwidth

### 4.5.1 Limits of Channel Bandwidth Measurement

For frequency hopping system operating in the 2400-2483.5MHz, If the 20dB bandwidth of hopping channel is greater than 25kHz, two-thirds 20dBbandwidth of hopping channel shell be a minimum limit for the hopping channel separation.

### 4.5.2 Test Setup




### 4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.5.4 Test Procedure

a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
c. Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
d. Repeat above procedures until all frequencies measured were complete.

### 4.5.5 Deviation from Test Standard

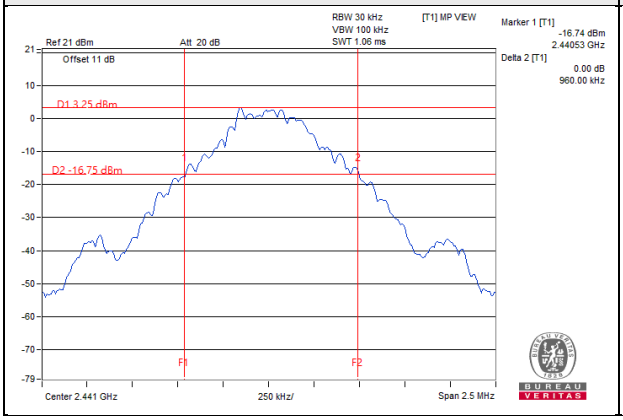
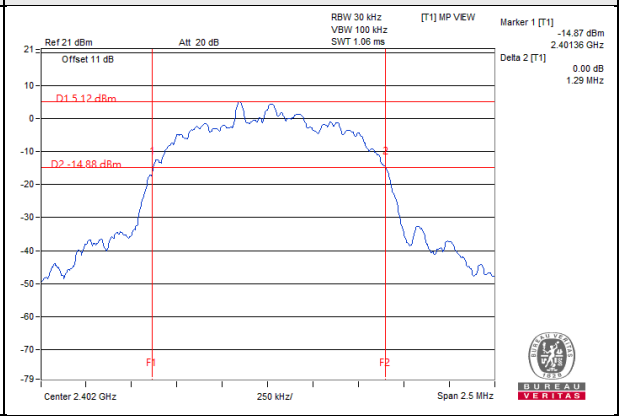
No deviation.

### 4.5.6 EUT Operating Condition

The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

### 4.5.7 Test Results (Mode 1)

| Channel | Frequency (MHz) | 20dB Bandwidth (MHz) | |
|---|---|---|---|
| | | GFSK | 8DPSK |
| 0 | 2402 | 0.95 | 1.29 |
| 39 | 2441 | 0.96 | 1.29 |
| 78 | 2480 | 0.96 | 1.29 |

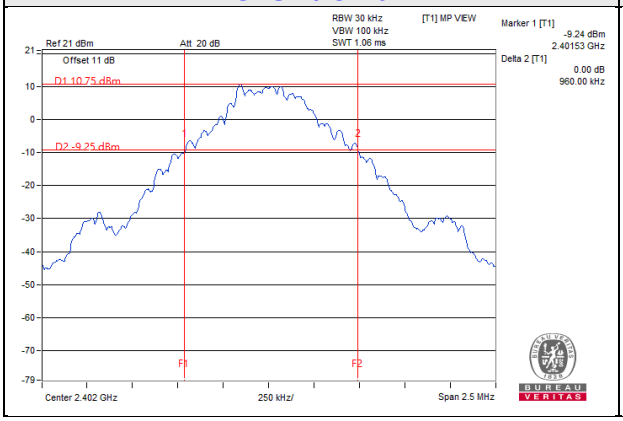
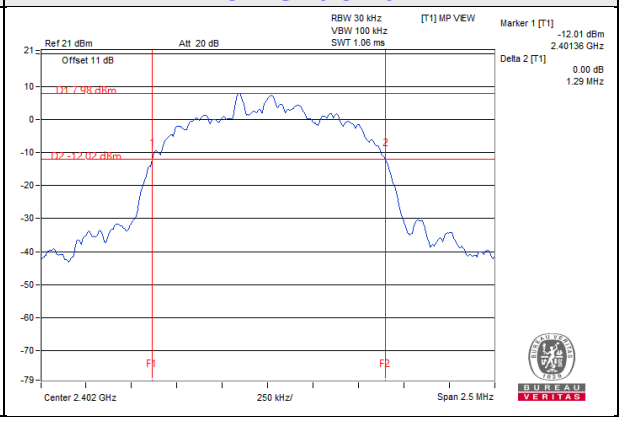
| Spectrum Plot of Worst Value | |
|---|---|
| GFSK / CH 39 | 8DPSK / CH 0 |
|  |  |





### 4.5.8 Test Results (Mode 2)

| Channel | Frequency (MHz) | 20dB Bandwidth (MHz) | |
|---|---|---|---|
| | | GFSK | 8DPSK |
| 0 | 2402 | 0.96 | 1.29 |
| 39 | 2441 | 0.96 | 1.28 |
| 78 | 2480 | 0.96 | 1.29 |

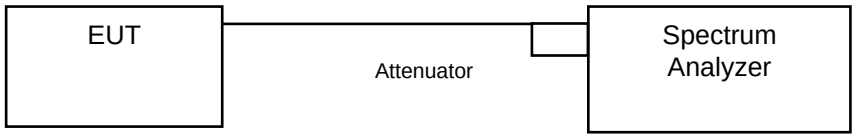
| Spectrum Plot of Worst Value | |
|---|---|
| GFSK / CH 0 | 8DPSK / CH 0 |
|  |  |

## 4.6 Hopping Channel Separation

### 4.6.1 Limits of Hopping Channel Separation Measurement

At least 25kHz or two-third of 20dB hopping channel bandwidth (whichever is greater).

### 4.6.2 Test Setup




### 4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.6.4 Test Procedure

Measurement Procedure REF

a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range.

c. By using the MaxHold function record the separation of two adjacent channels.

d. Measure the frequency difference of these two adjacent channels by SA MARK function. And then plot the result on SA screen.

e. Repeat above procedures until all frequencies measured were complete.

### 4.6.5 Deviation from Test Standard

No deviation.

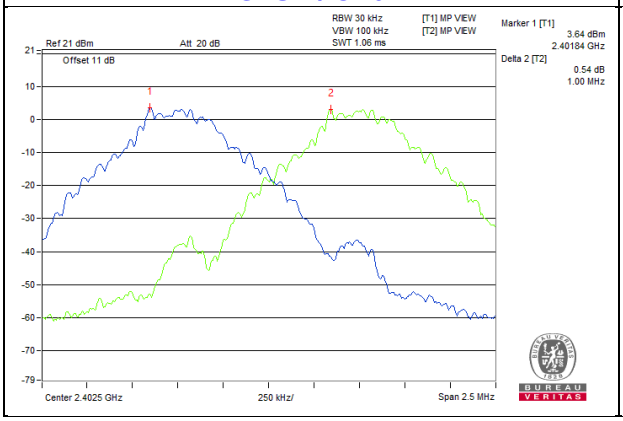
4.6.6 Test Results (Mode 1)

| Channel | Frequency (MHz) | Adjacent Channel Separation (MHz) | | 20dB Bandwidth (MHz) | | Minimum Limit (MHz) | | Pass / Fail |
|---|---|---|---|---|---|---|---|---|
| | | GFSK | 8DPSK | GFSK | 8DPSK | GFSK | 8DPSK | |
| 0 | 2402 | 1 | 1 | 0.95 | 1.29 | 0.64 | 0.86 | Pass |
| 39 | 2441 | 1 | 1 | 0.96 | 1.29 | 0.64 | 0.86 | Pass |
| 78 | 2480 | 1 | 1 | 0.96 | 1.29 | 0.64 | 0.86 | Pass |

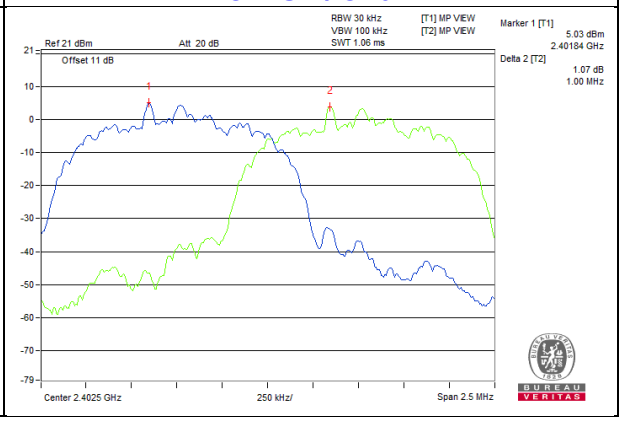
**NOTE:** The minimum limit is two-third 20dB bandwidth.

Spectrum Plot of Worst Value

**GFSK / CH0**




**8DPSK / CH0**



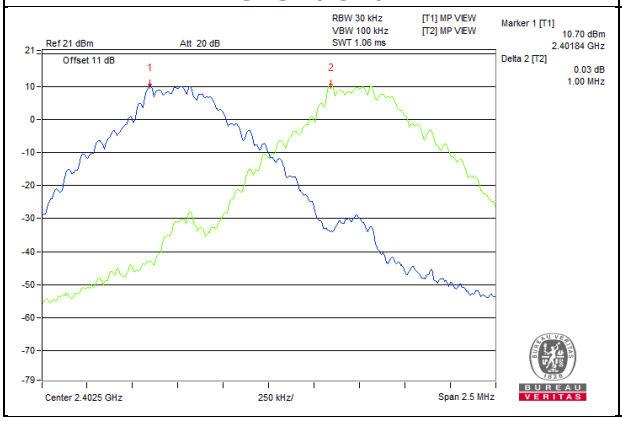
4.6.7 Test Results (Mode 2)

| Channel | Frequency (MHz) | Adjacent Channel Separation (MHz) | | 20dB Bandwidth (MHz) | | Minimum Limit (MHz) | | Pass / Fail |
|---|---|---|---|---|---|---|---|---|
| | | GFSK | 8DPSK | GFSK | 8DPSK | GFSK | 8DPSK | |
| 0 | 2402 | 1 | 1 | 0.96 | 1.29 | 0.64 | 0.86 | Pass |
| 39 | 2441 | 1 | 1 | 0.96 | 1.28 | 0.64 | 0.86 | Pass |
| 78 | 2480 | 1 | 1 | 0.96 | 1.29 | 0.64 | 0.86 | Pass |

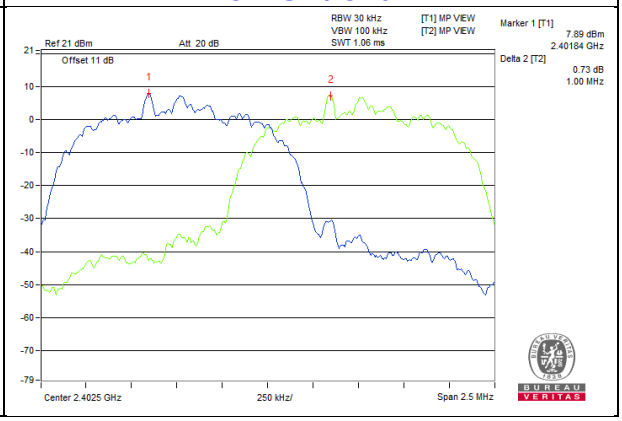
**NOTE:** The minimum limit is two-third 20dB bandwidth.

Spectrum Plot of Worst Value

**GFSK / CH0**




**8DPSK / CH0**

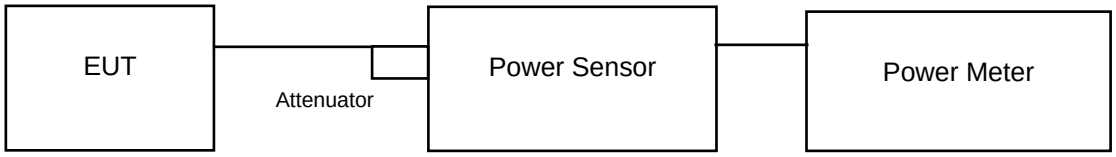


## 4.7 Maximum Output Power

### 4.7.1 Limits of Maximum Output Power Measurement

The Maximum Output Power Measurement is 125mW.

### 4.7.2 Test Setup




### 4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.7.4 Test Procedure

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

### 4.7.5 Deviation from Test Standard

No deviation.

### 4.7.6 EUT Operating Condition

The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

4.7.7 Test Results (Mode 1)

**FOR PEAK POWER**

| Channel | Frequency (MHZ) | GFSK | | 8DPSK | | Power Limit (mW) | Pass / Fail |
|---|---|---|---|---|---|---|---|
| | | Output Power (mW) | Output Power (dBm) | Output Power (mW) | Output Power (dBm) | | |
| 0 | 2402 | 4.819 | 6.83 | 8.71 | 9.40 | 125 | Pass |
| 39 | 2441 | 4.529 | 6.56 | 8.913 | 9.50 | 125 | Pass |
| 78 | 2480 | 4.92 | 6.92 | 8.57 | 9.33 | 125 | Pass |

**FOR AVERAGE POWER**

| Channel | Frequency (MHZ) | GFSK | | 8DPSK | |
|---|---|---|---|---|---|
| | | Average Power (mW) | Average Power (dBm) | Average Power (mW) | Average Power (dBm) |
| 0 | 2402 | 4.355 | 6.39 | 4.365 | 6.40 |
| 39 | 2441 | 3.908 | 5.92 | 4.375 | 6.41 |
| 78 | 2480 | 4.395 | 6.43 | 4.325 | 6.36 |

4.7.8 Test Results (Mode 2)

**FOR PEAK POWER**

| Channel | Frequency (MHZ) | GFSK | | 8DPSK | | Power Limit (mW) | Pass / Fail |
|---|---|---|---|---|---|---|---|
| | | Output Power (mW) | Output Power (dBm) | Output Power (mW) | Output Power (dBm) | | |
| 0 | 2402 | 17.579 | 12.45 | 17.418 | 12.41 | 125 | Pass |
| 39 | 2441 | 17.458 | 12.42 | 17.783 | 12.50 | 125 | Pass |
| 78 | 2480 | 17.258 | 12.37 | 17.298 | 12.38 | 125 | Pass |

**FOR AVERAGE POWER**

| Channel | Frequency (MHZ) | GFSK | | 8DPSK | |
|---|---|---|---|---|---|
| | | Average Power (mW) | Average Power (dBm) | Average Power (mW) | Average Power (dBm) |
| 0 | 2402 | 17.022 | 12.31 | 8.954 | 9.52 |
| 39 | 2441 | 16.904 | 12.28 | 8.995 | 9.54 |
| 78 | 2480 | 16.749 | 12.24 | 8.892 | 9.49 |

## 4.8 Conducted Out of Band Emission Measurement

### 4.8.1 Limits of Conducted Out of Band Emission Measurement

Below 20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

### 4.8.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.8.3 Test Procedure

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100 kHz and 300 kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

### 4.8.4 Deviation from Test Standard

No deviation.

### 4.8.5 EUT Operating Condition

The software provided by client enabled the EUT to transmit and receive data at lowest and highest channel frequencies individually.

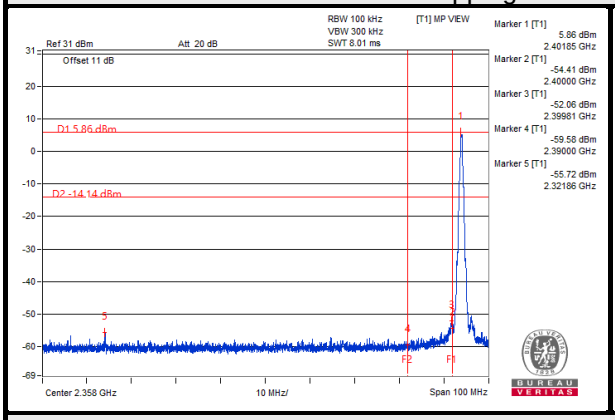
### 4.8.6 Test Results

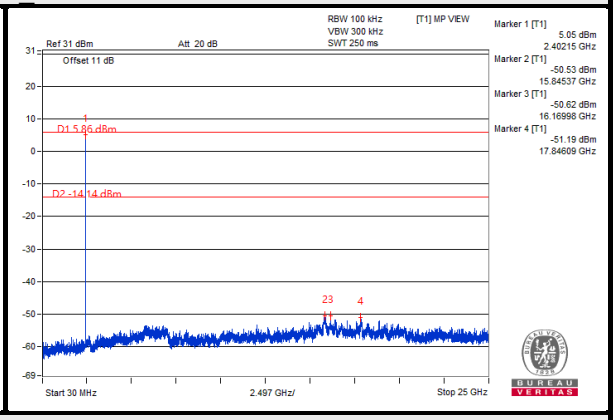
The spectrum plots are attached on the following images. D1 line indicates the highest level, D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.

## 4.8.7 Test Results (Mode 1)

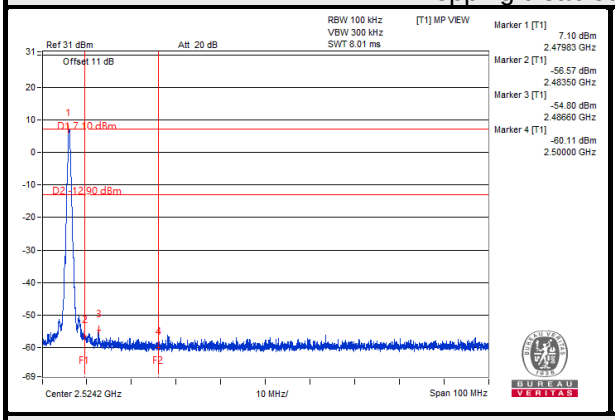
**GFSK**

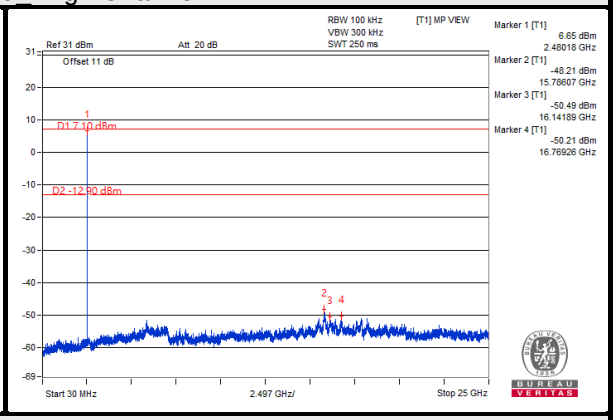
### Hopping disabled_ Low Channel



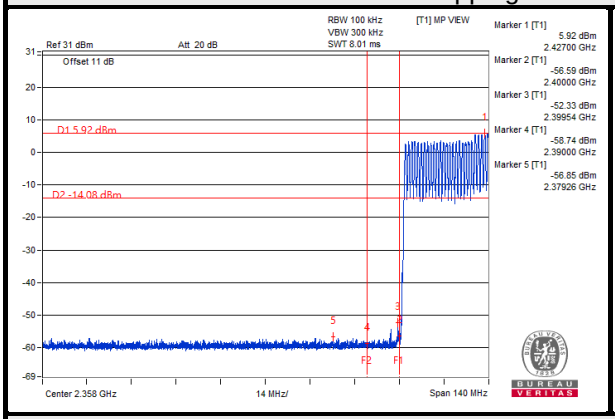



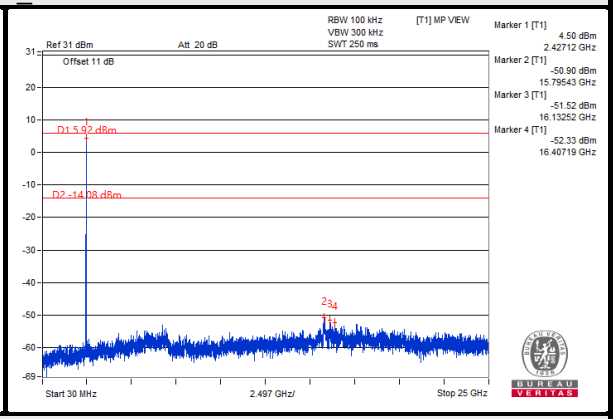

### Hopping disabled_ High Channel



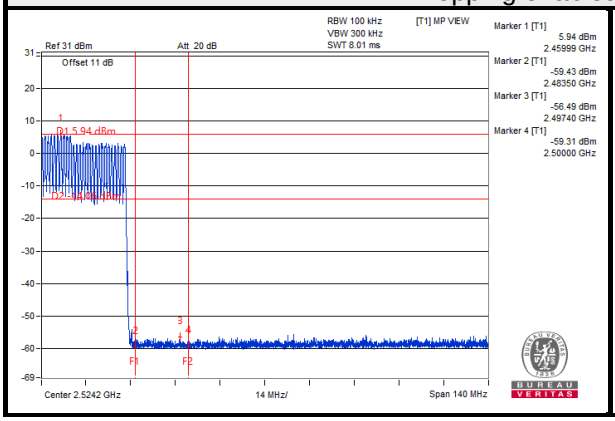



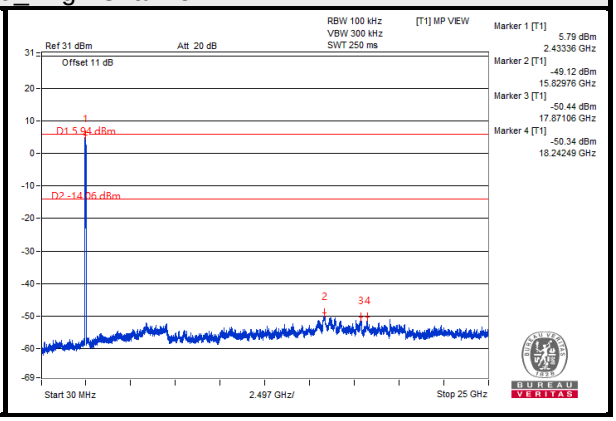

### Hopping enabled_ Low Channel



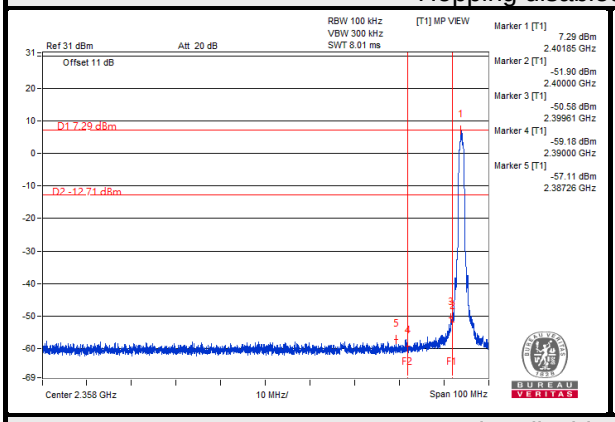

### Hopping enabled_ High Channel

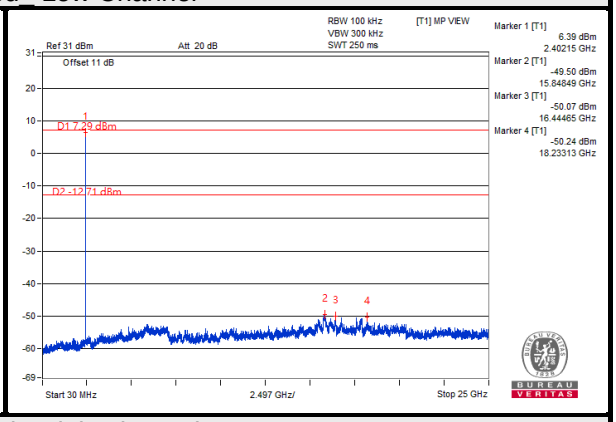


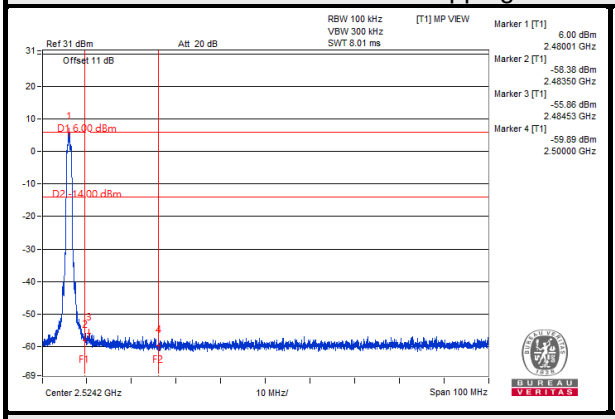
## 8DPSK

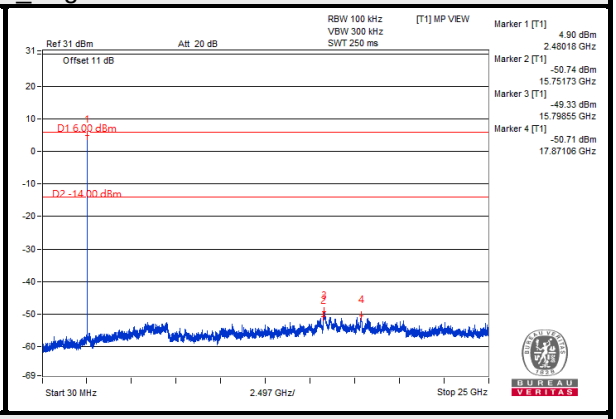
### Hopping disabled_ Low Channel



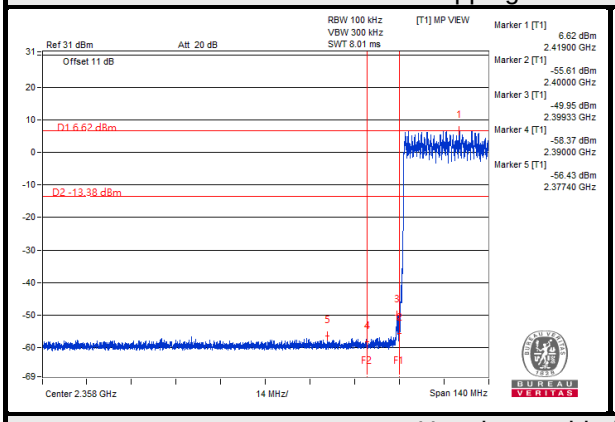



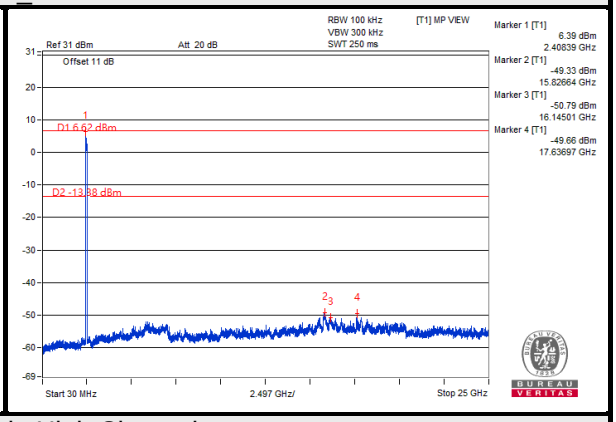

### Hopping disabled_ High Channel



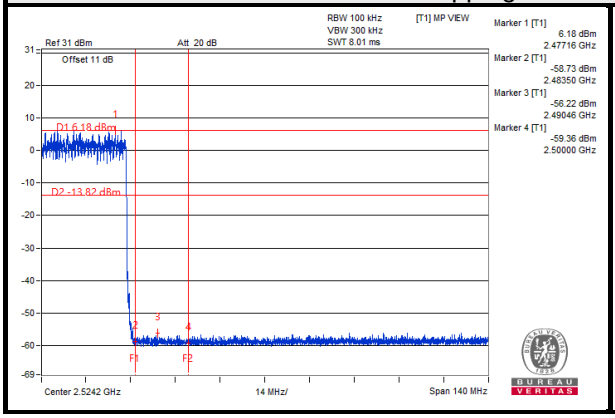



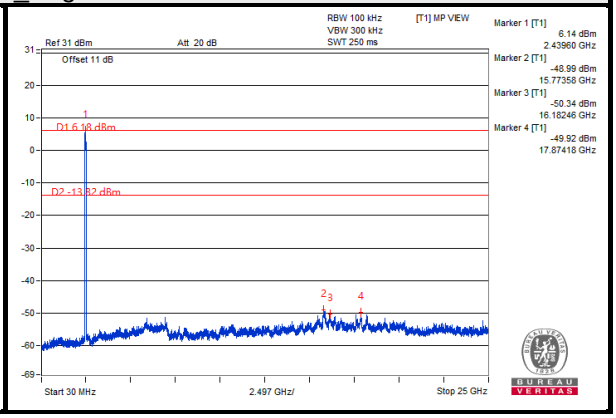

### Hopping enabled_ Low Channel




### Hopping enabled_ High Channel

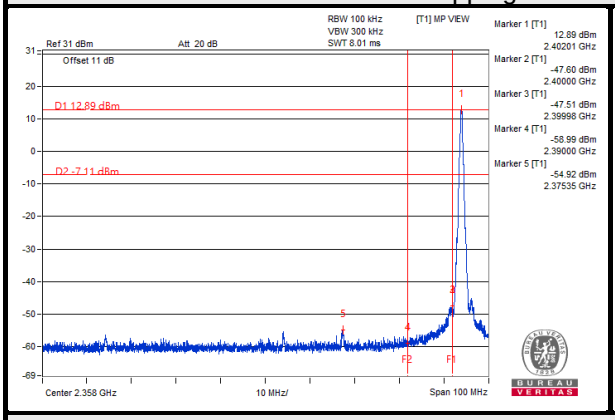


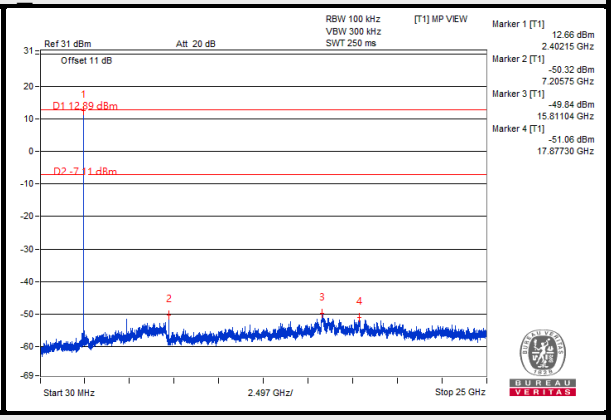



## 4.8.8 Test Results (Mode 2)

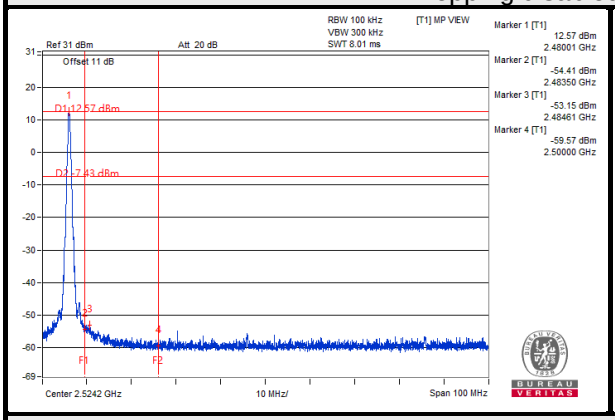
**GFSK**

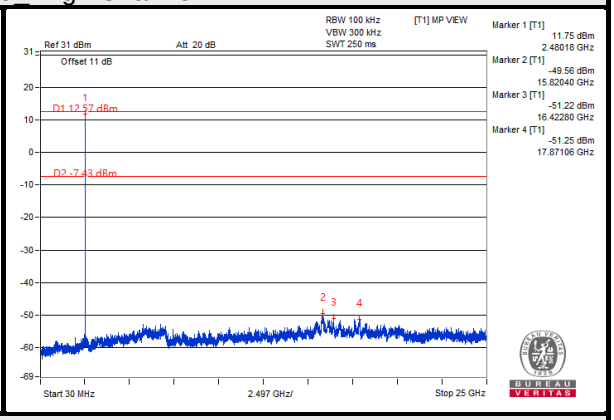
### Hopping disabled_ Low Channel



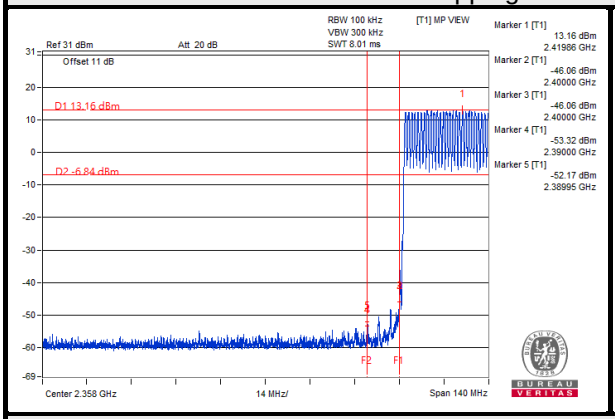



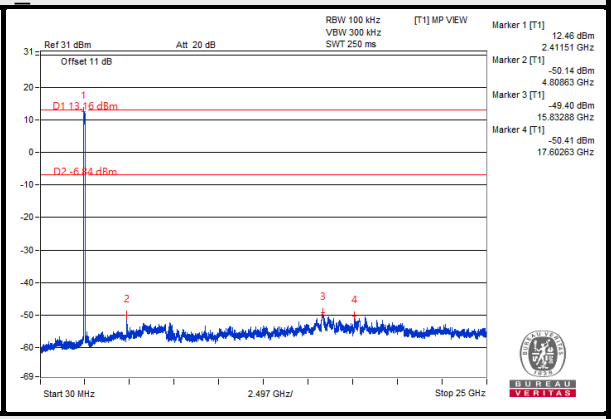

### Hopping disabled_ High Channel



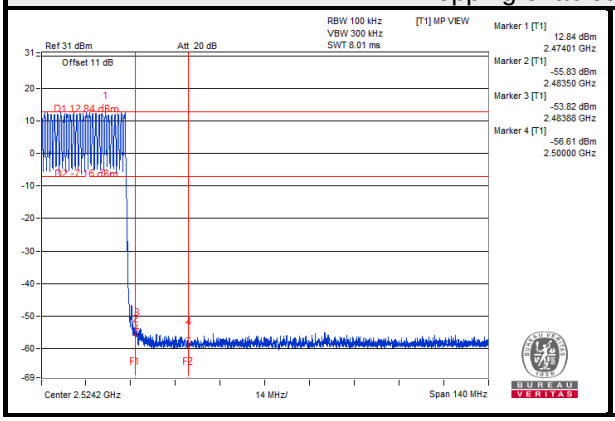



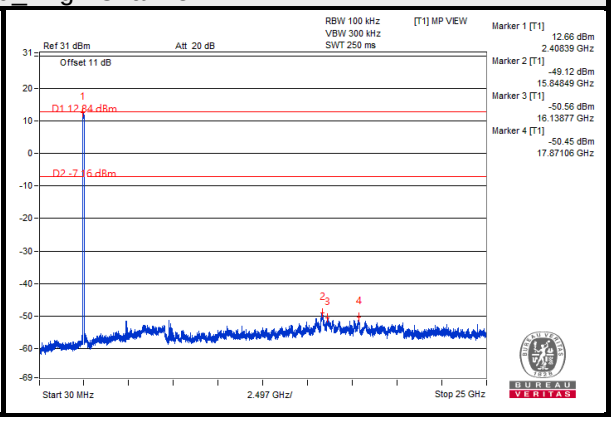

### Hopping enabled_ Low Channel



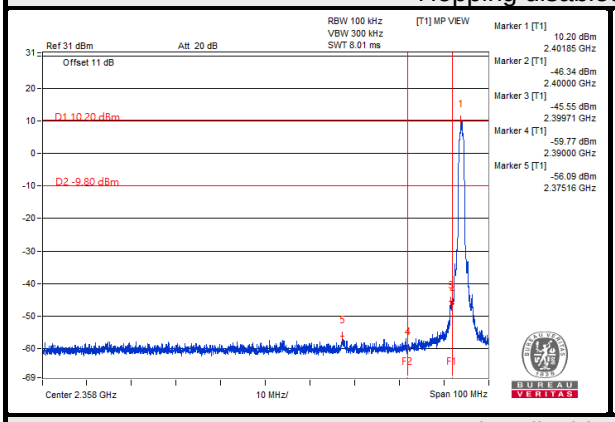

### Hopping enabled_ High Channel

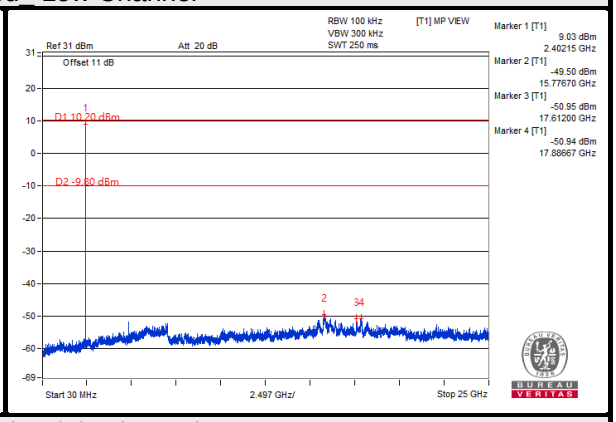


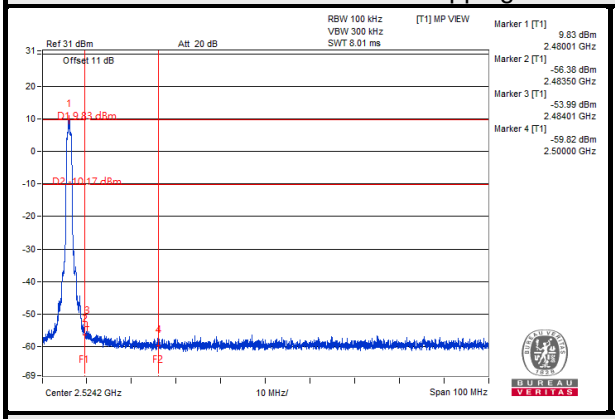
## 8DPSK

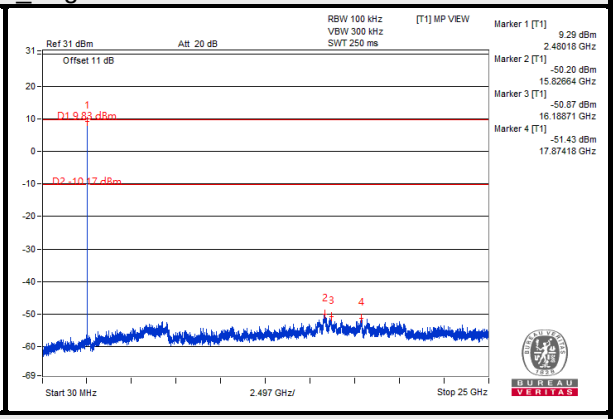
### Hopping disabled_ Low Channel



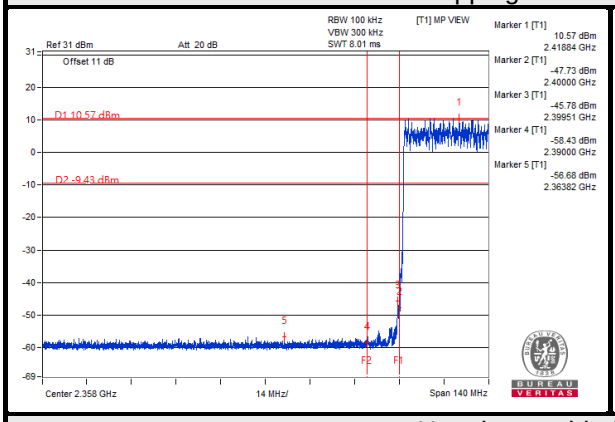



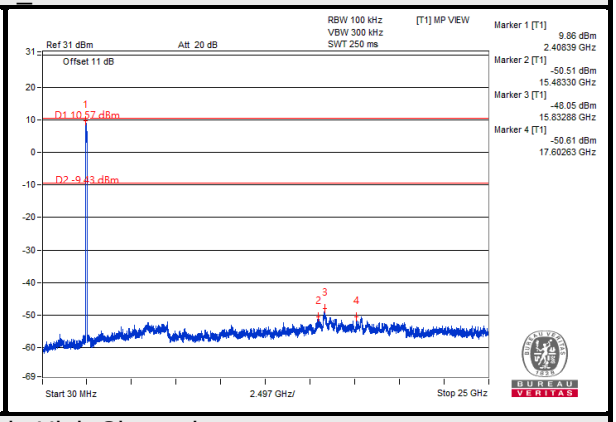

### Hopping disabled_ High Channel



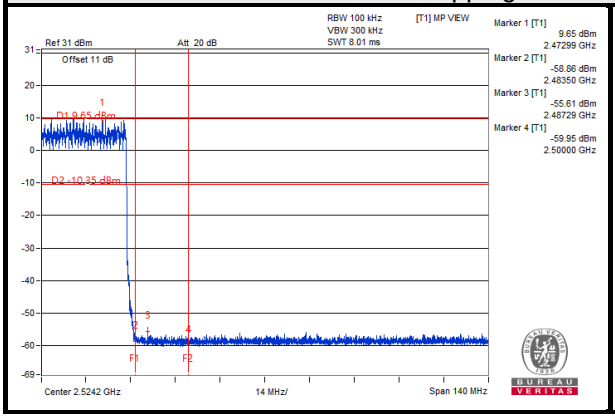



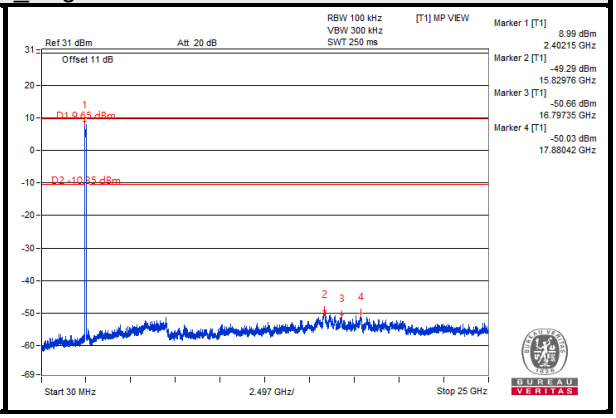

### Hopping enabled_ Low Channel




### Hopping enabled_ High Channel



## 5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

## Annex A - Band-Edge Measurement

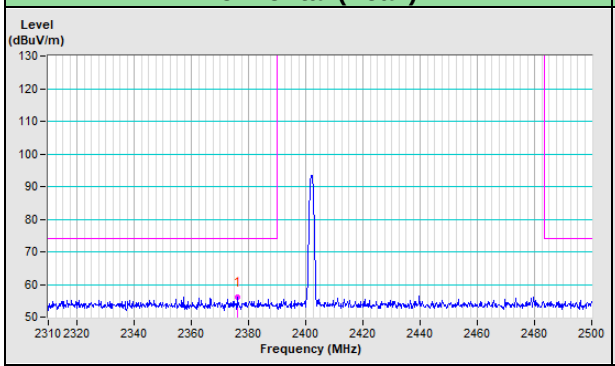
## Annex A.1 - Test Results (Mode 1)

### Dipole Antenna

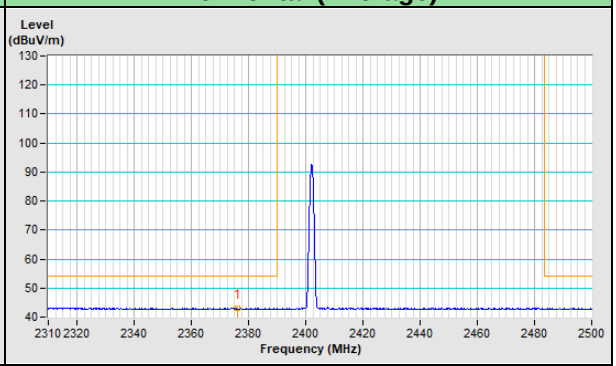
### BT_GFSK

**BT_GFSK Channel 0**

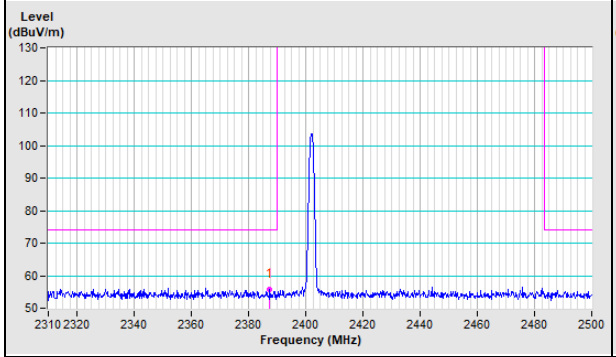
**Horizontal (Peak)**



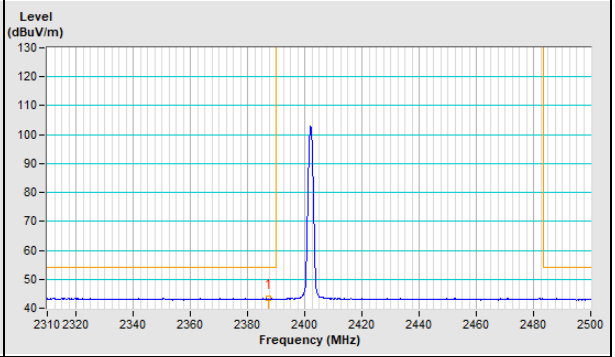

**Horizontal (Average)**




**Vertical (Peak)**

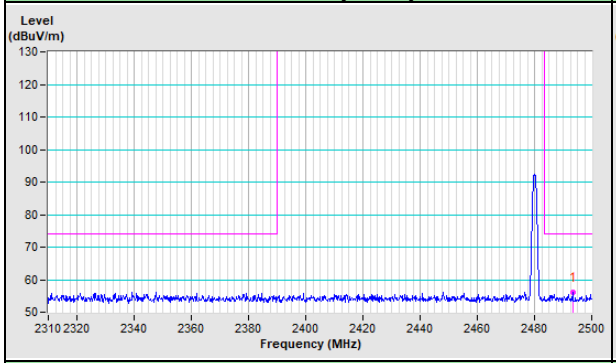



**Vertical (Average)**

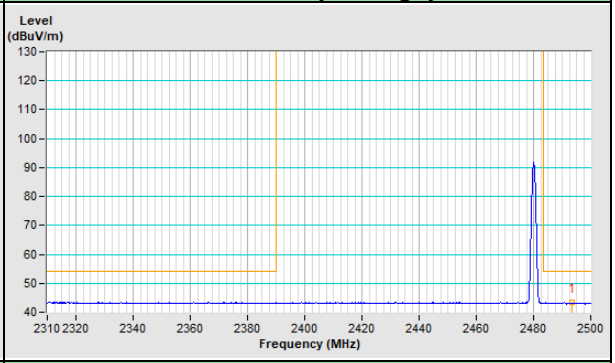



**BT_GFSK Channel 78**

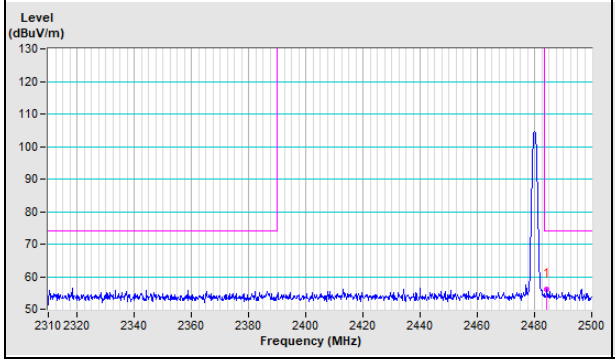
**Horizontal (Peak)**



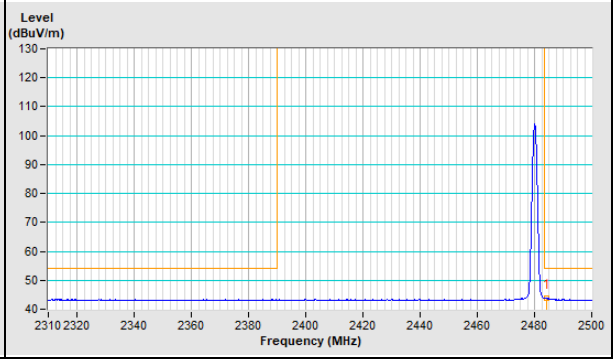

**Horizontal (Average)**




**Vertical (Peak)**



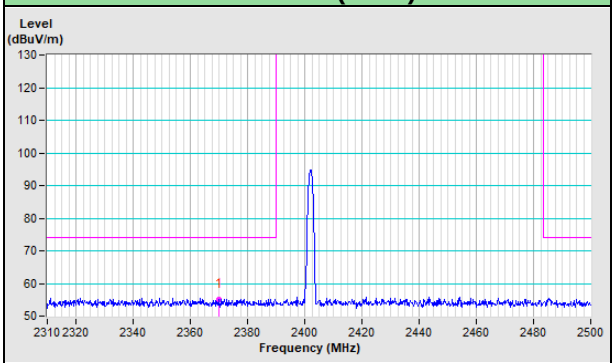

**Vertical (Average)**



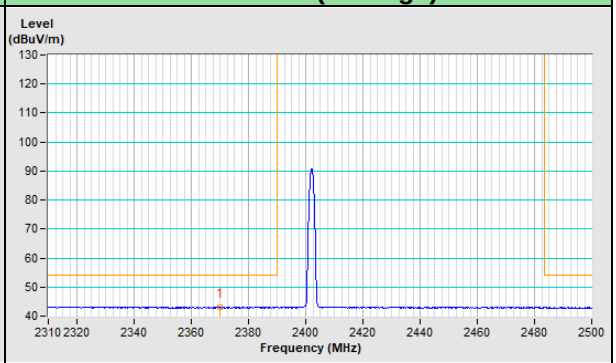
## BT_8DPSK

### BT_8DPSK Channel 0

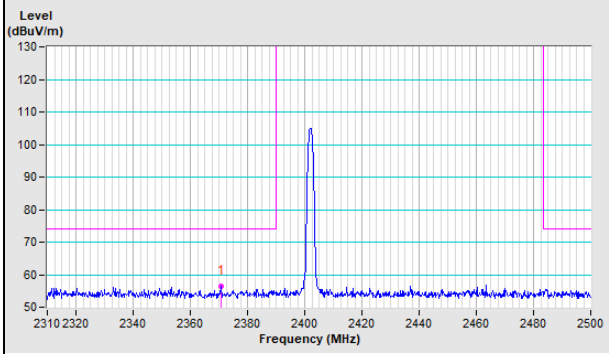
#### Horizontal (Peak)



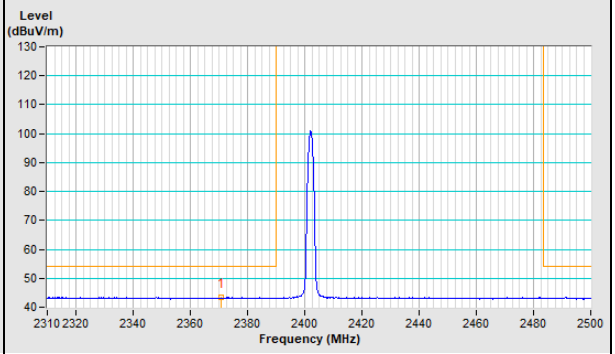

#### Horizontal (Average)




#### Vertical (Peak)

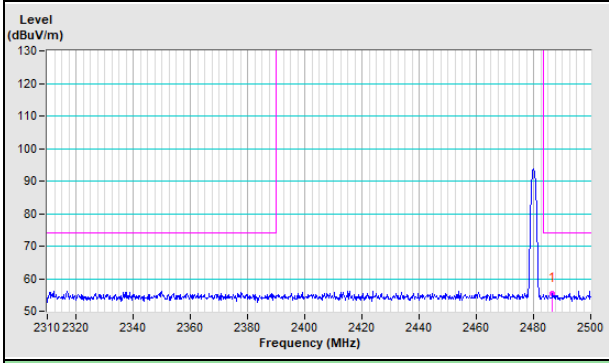



#### Vertical (Average)

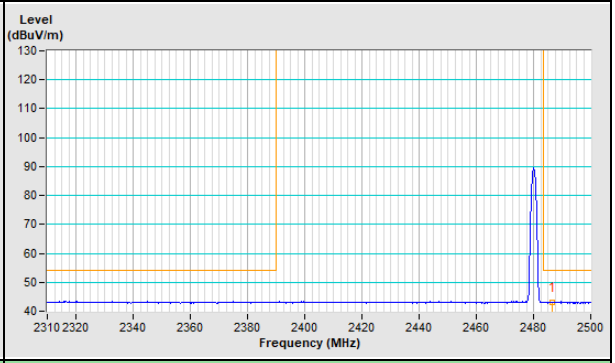



### BT_8DPSK Channel 78

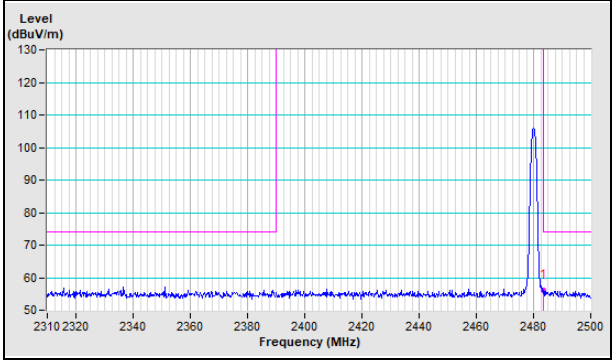
#### Horizontal (Peak)



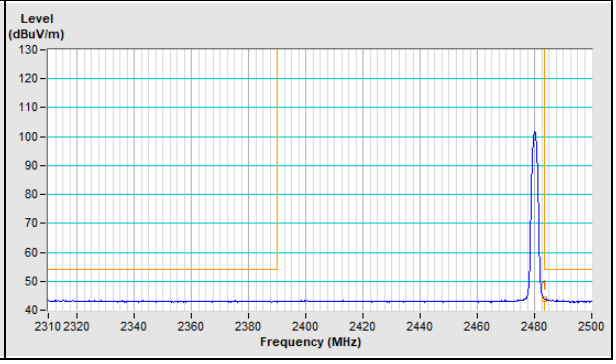

#### Horizontal (Average)




#### Vertical (Peak)

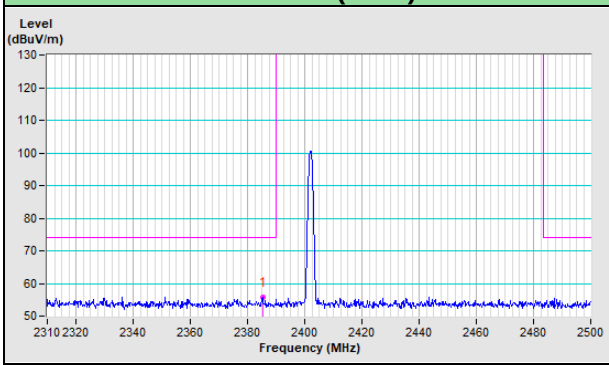
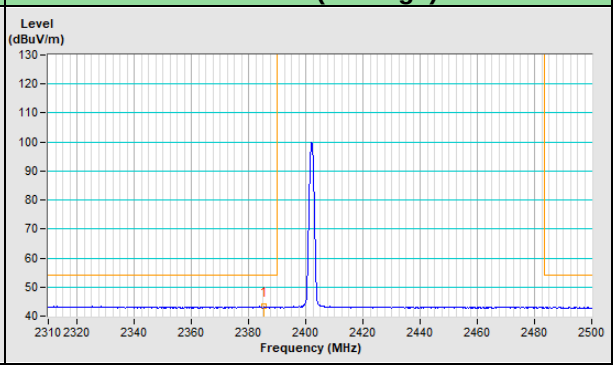
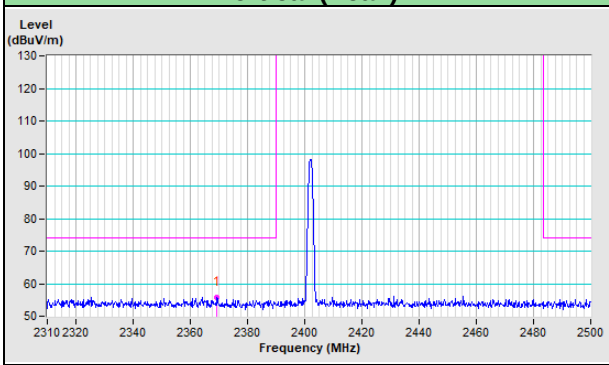
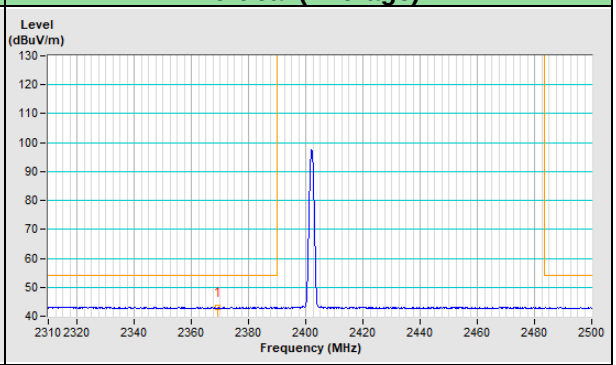
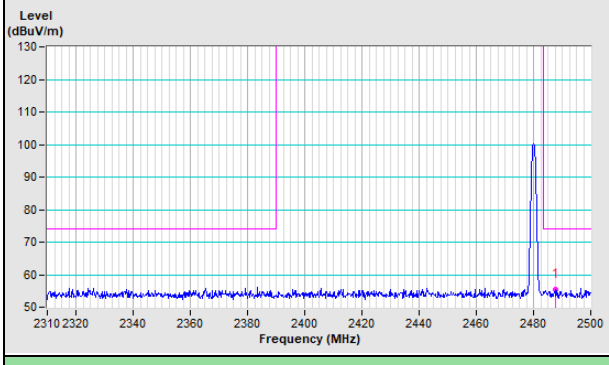
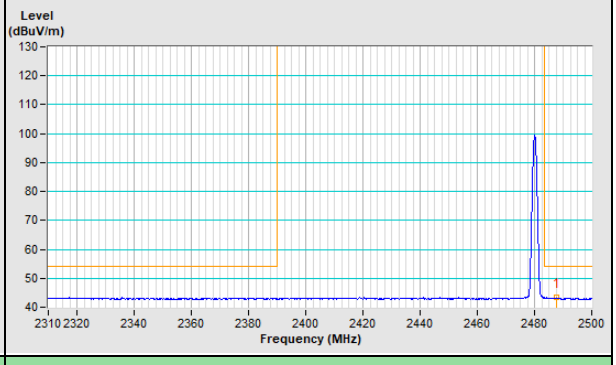
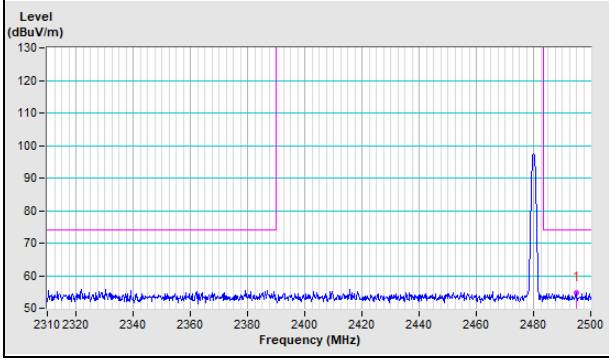
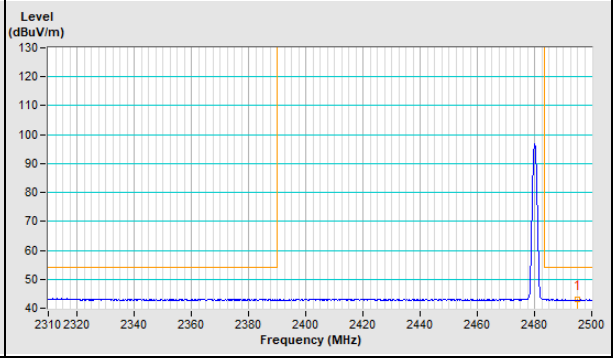



#### Vertical (Average)



## PIFA Antenna

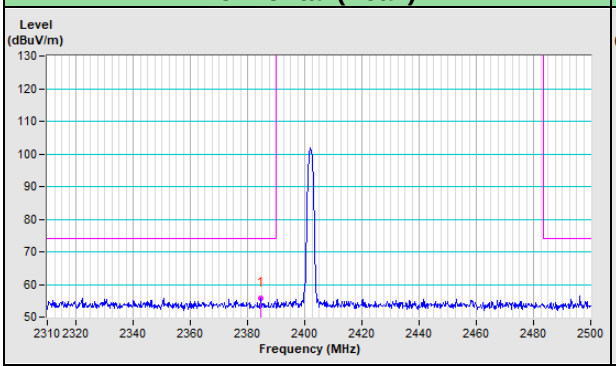
### BT_GFSK

| BT_GFSK Channel 0 | |
|---|---|
| Horizontal (Peak) | Horizontal (Average) |
|  |  |
| Vertical (Peak) | Vertical (Average) |
|  |  |
| **BT_GFSK Channel 78** | |
| Horizontal (Peak) | Horizontal (Average) |
|  |  |
| Vertical (Peak) | Vertical (Average) |
|  |  |

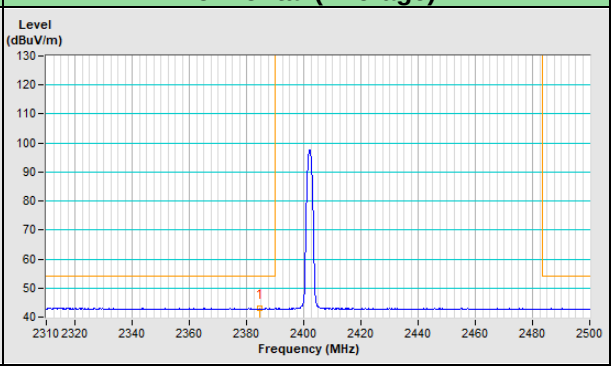
## BT_8DPSK

### BT_8DPSK Channel 0

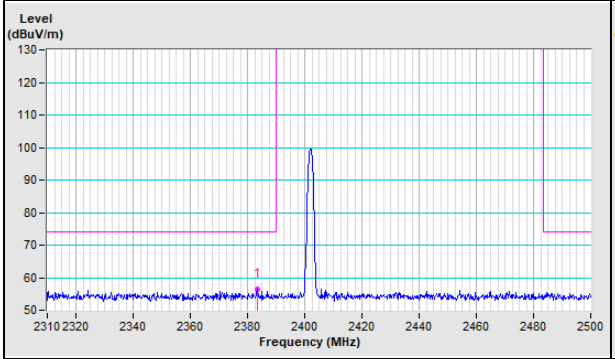
#### Horizontal (Peak)



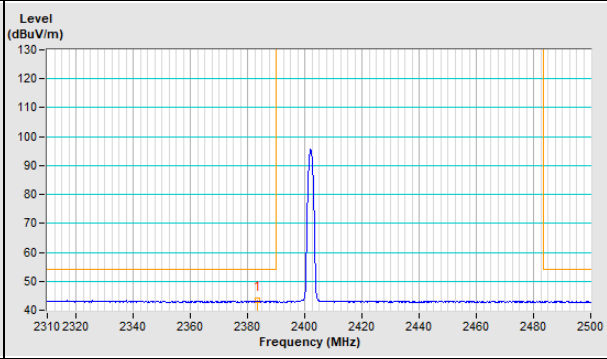

#### Horizontal (Average)




#### Vertical (Peak)

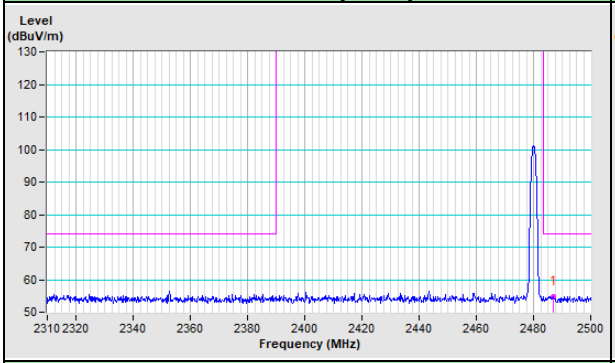



#### Vertical (Average)

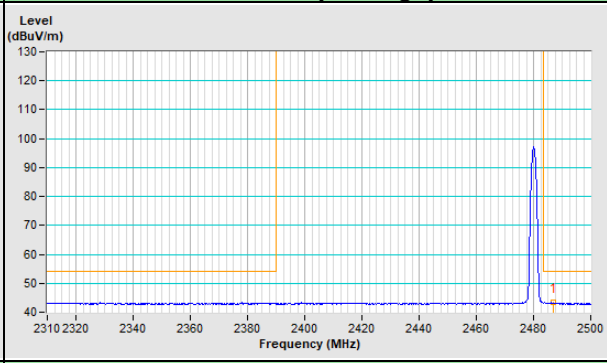



### BT_8DPSK Channel 78

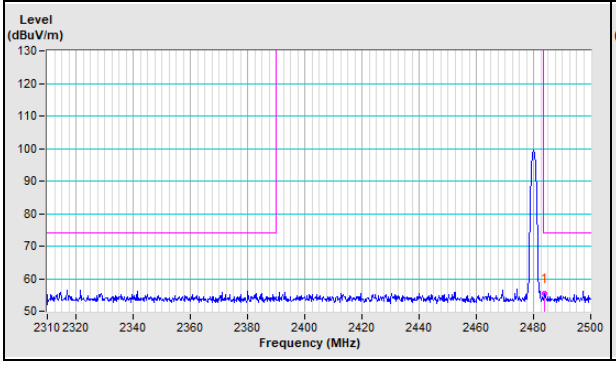
#### Horizontal (Peak)



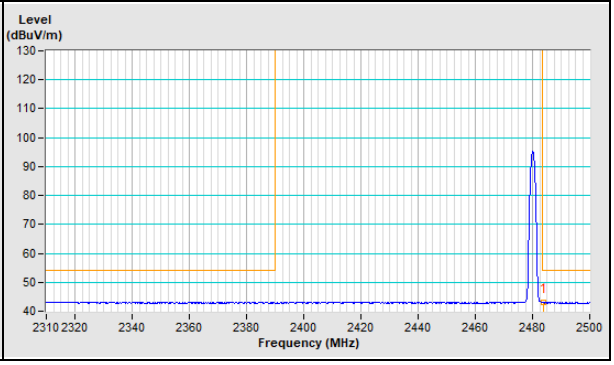

#### Horizontal (Average)




#### Vertical (Peak)




#### Vertical (Average)



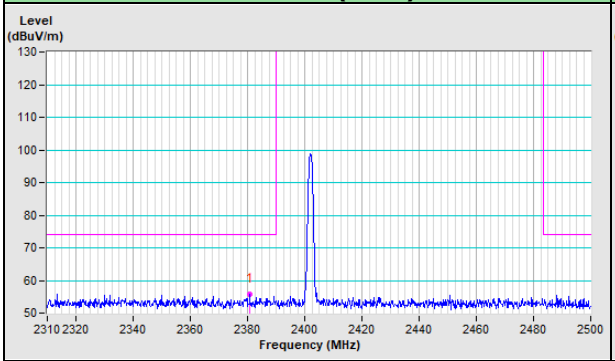
## Annex A.2 - Test Results (Mode 2)

### Dipole Antenna

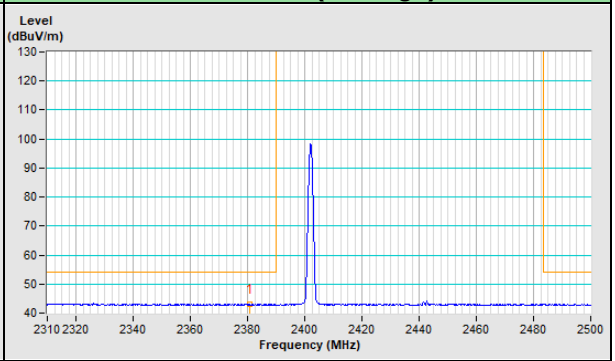
### BT_GFSK

**BT_GFSK Channel 0**

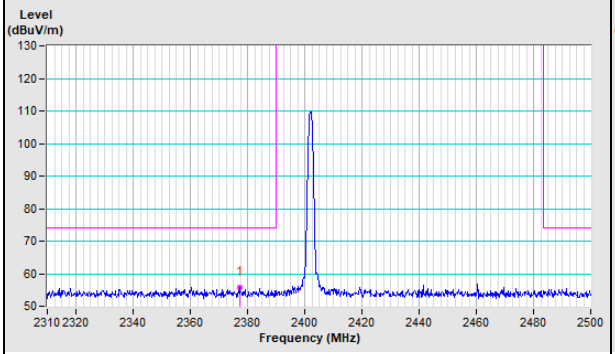
**Horizontal (Peak)**



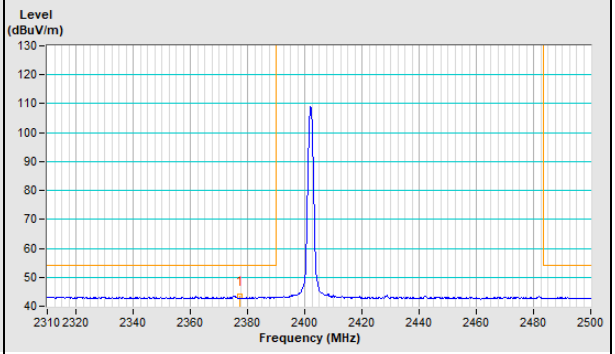

**Horizontal (Average)**




**Vertical (Peak)**

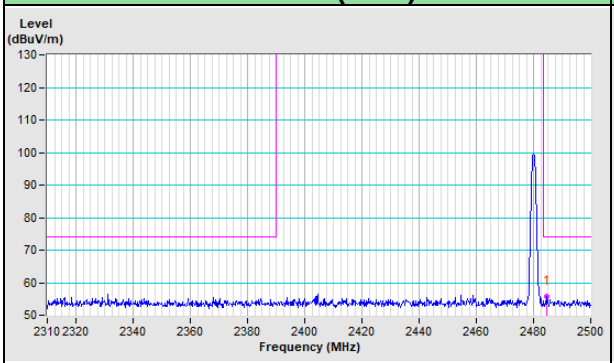



**Vertical (Average)**

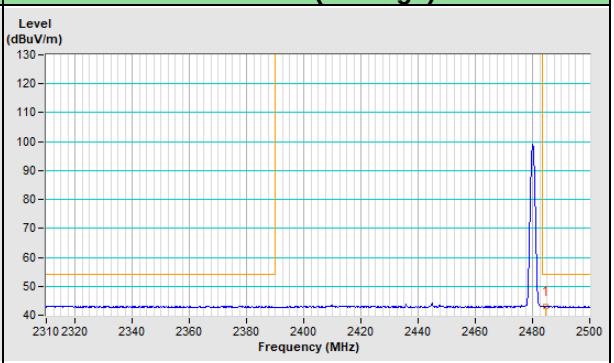



**BT_GFSK Channel 78**

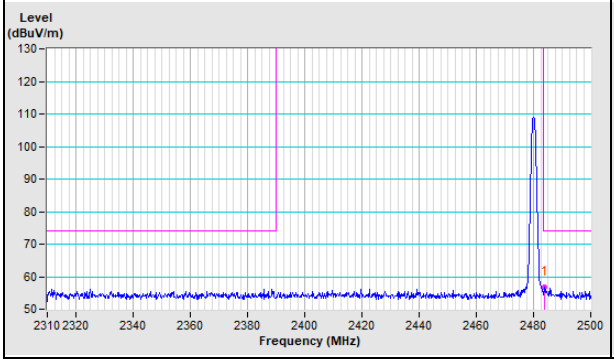
**Horizontal (Peak)**



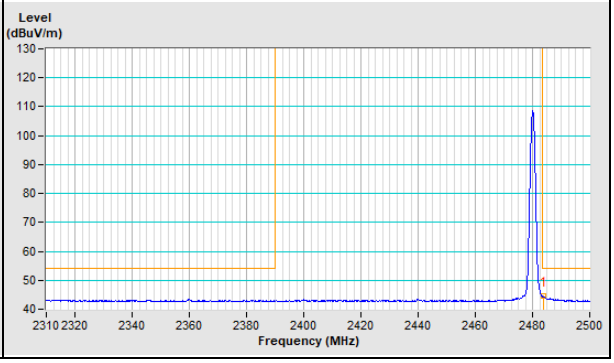

**Horizontal (Average)**




**Vertical (Peak)**



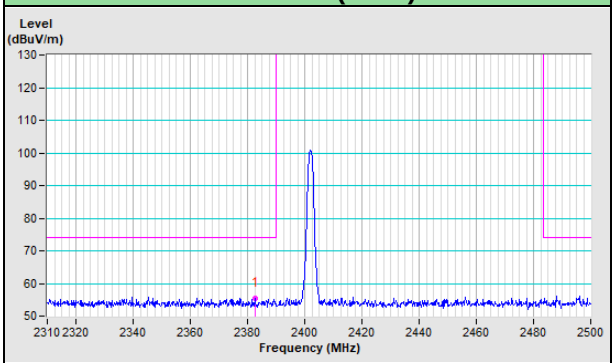

**Vertical (Average)**



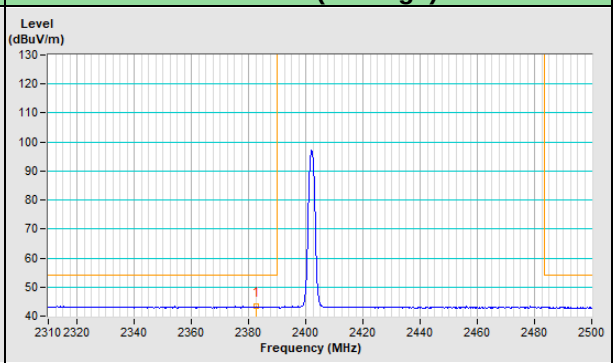
## BT_8DPSK

### BT_8DPSK Channel 0

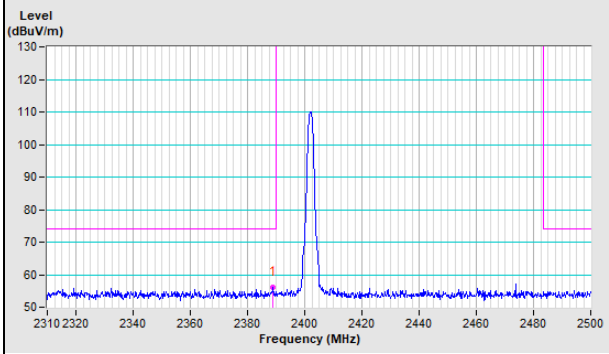
#### Horizontal (Peak)



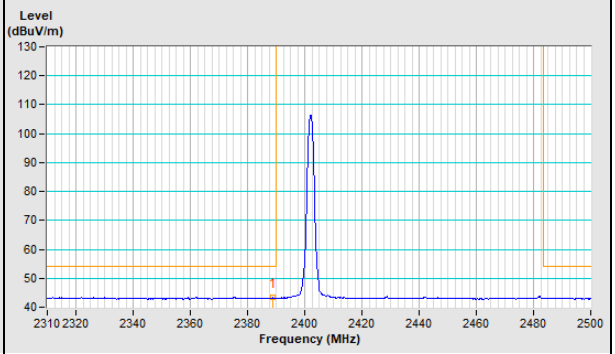

#### Horizontal (Average)




#### Vertical (Peak)

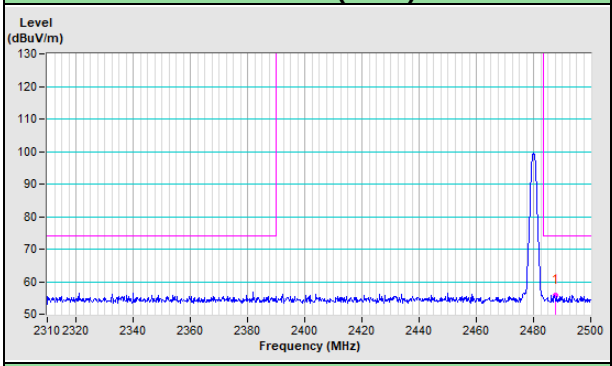



#### Vertical (Average)

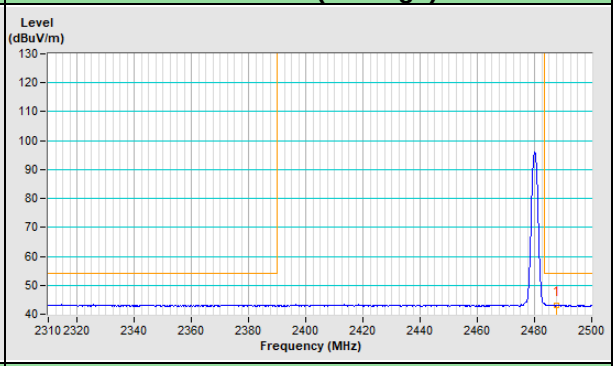



### BT_8DPSK Channel 78

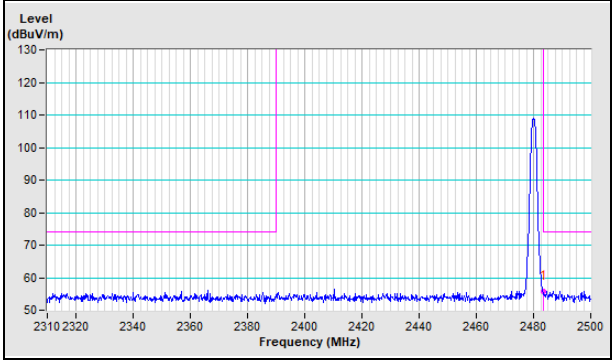
#### Horizontal (Peak)



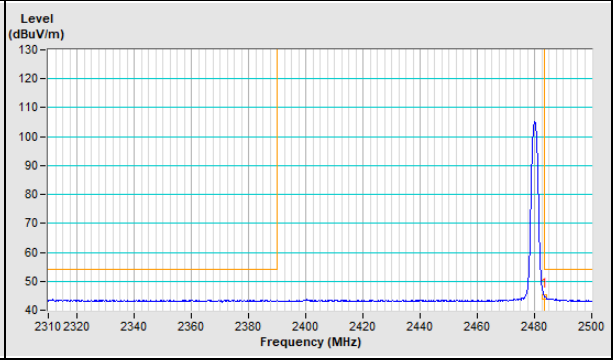

#### Horizontal (Average)




#### Vertical (Peak)

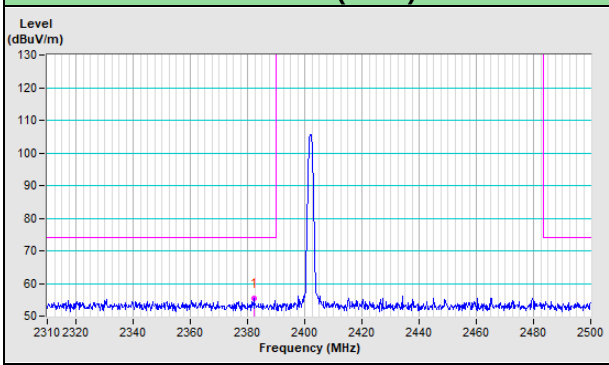
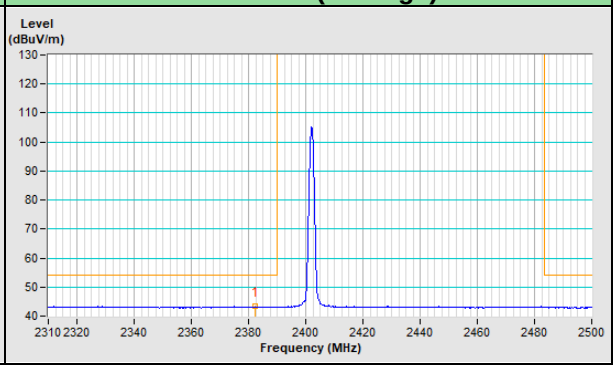
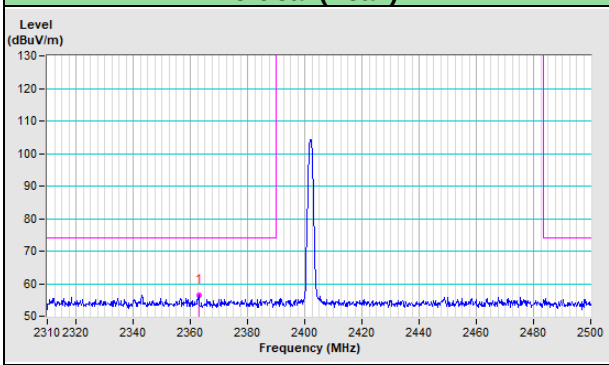
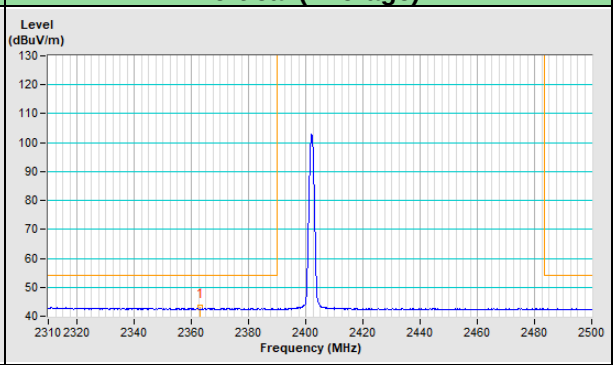
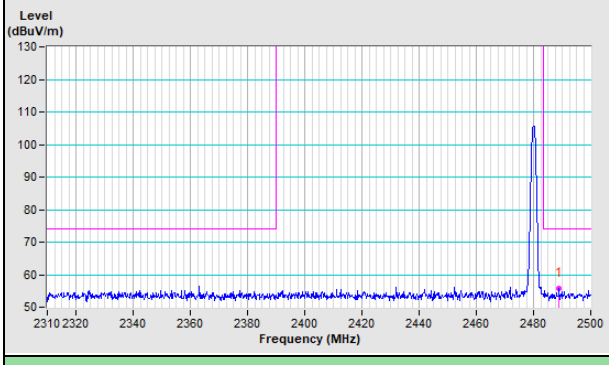
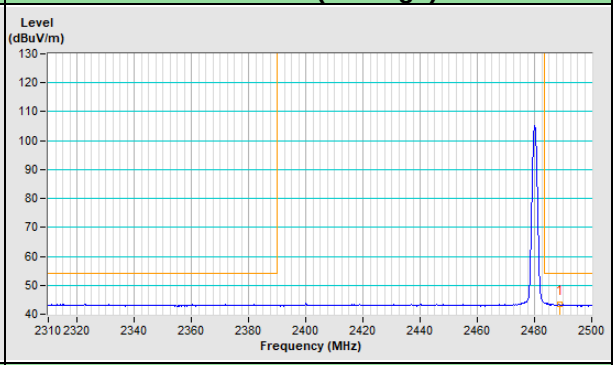
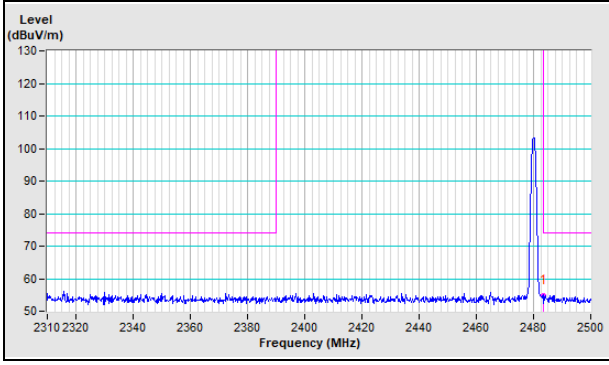
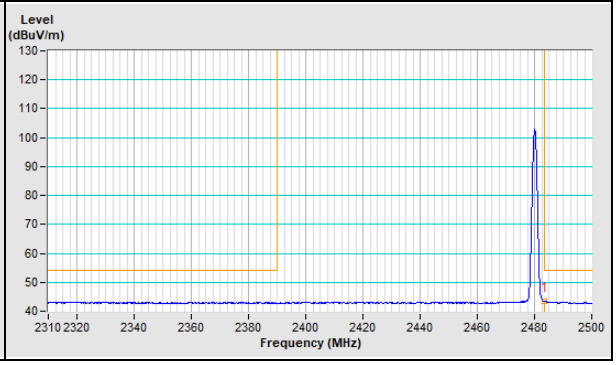



#### Vertical (Average)



## PIFA Antenna

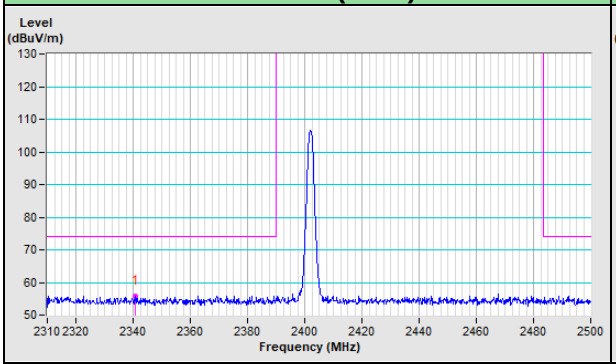
### BT_GFSK

| BT_GFSK Channel 0 | |
|---|---|
| Horizontal (Peak) | Horizontal (Average) |
|  |  |
| Vertical (Peak) | Vertical (Average) |
|  |  |
| **BT_GFSK Channel 78** | |
| Horizontal (Peak) | Horizontal (Average) |
|  |  |
| Vertical (Peak) | Vertical (Average) |
|  |  |

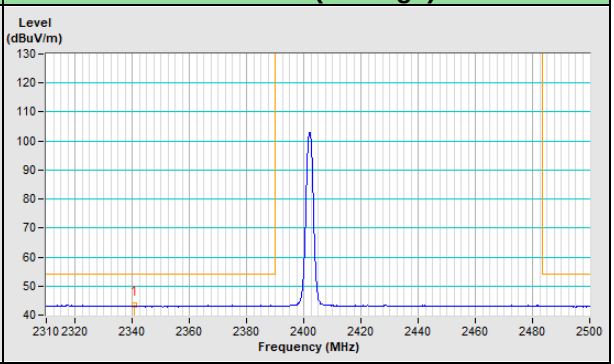
## BT_8DPSK

### BT_8DPSK Channel 0

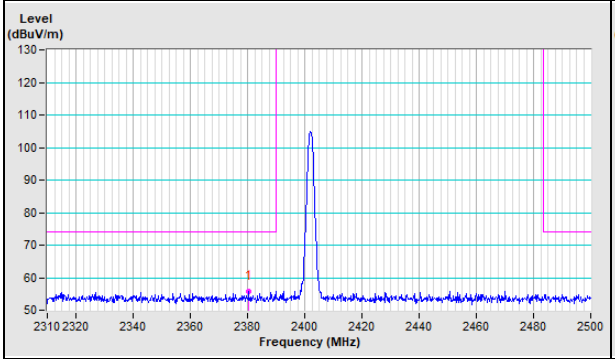
#### Horizontal (Peak)



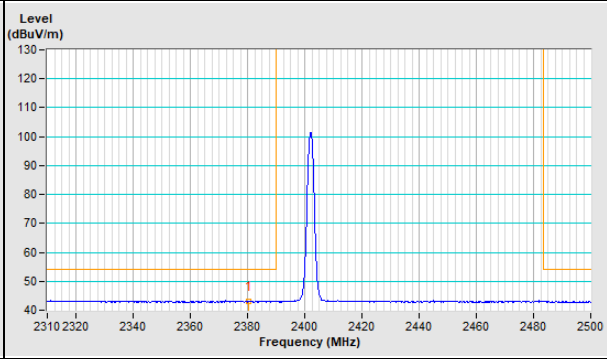

#### Horizontal (Average)




#### Vertical (Peak)

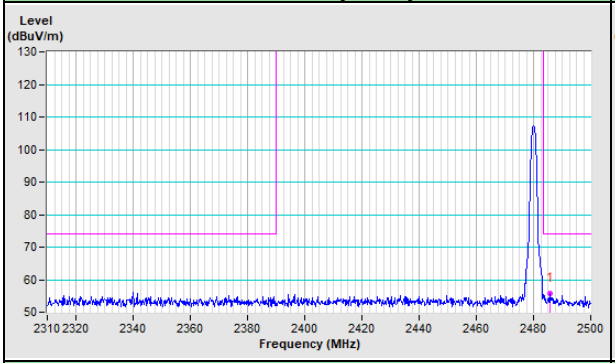



#### Vertical (Average)

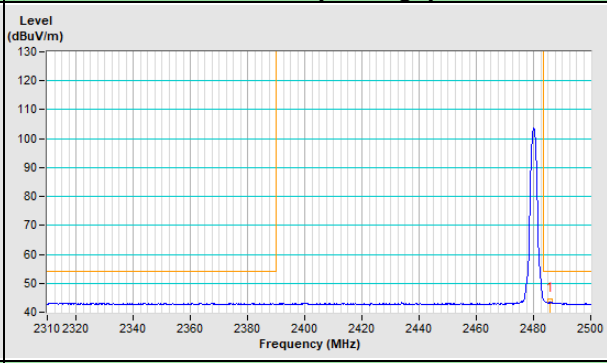



### BT_8DPSK Channel 78

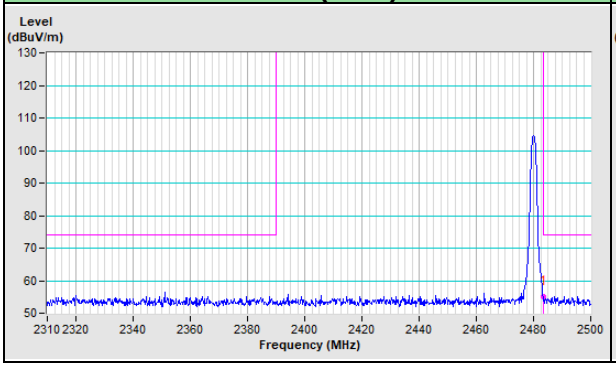
#### Horizontal (Peak)



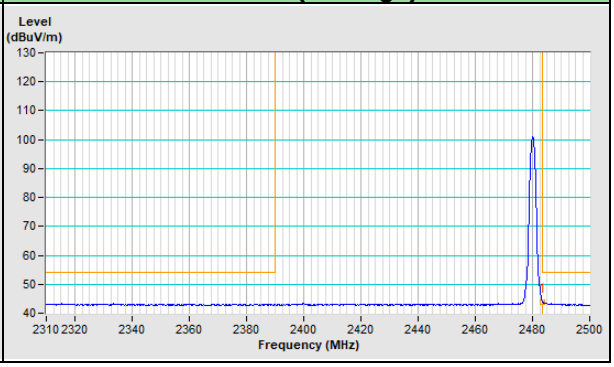

#### Horizontal (Average)




#### Vertical (Peak)




#### Vertical (Average)



**Appendix – Information of the Testing Laboratories**

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following: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The address and road map of all our labs can be found in our web site also.

**--- END ---**