# FCC TEST REPORT
# FCC ID:2A6Q9-00745

| | |
|---|---|
| Report Number.....: | ZKT-220427L2816 |
| Date of Test..... | Apr. 22, 2022 to May 11, 2022 |
| Date of issue.....: | May 11, 2022 |
| Total number of pages..... | 78 |
| Test Result .....: | PASS |
| **Testing Laboratory..... :** | **Shenzhen ZKT Technology Co., Ltd.** |
| Address ..... : | 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China |
| **Applicant's name .....:** | **BAYSIDE WIRELESS LLC** |
| Address ..... : | 950 East grantline Rd #400 Tracy CA 95304,U.S.A |
| **Manufacturer's name .....:** | **ShenZhen GuoBuy Business CO. LTD.** |
| Address ..... : | Room 402, Block B,A3 Building,AnLe Industrial Area,GuShu,XiXiang,BaoAn District,ShenZhen City,GuangDong Province ,China |
| Test specification: | |
| Standard..... : | FCC CFR Title 47 Part 15 Subpart C Section 15.247<br>ANSI C63.10:2013 |
| Test procedure..... : | / |
| Non-standard test method .....: | N/A |
| **Test Report Form No.....:** | TRF-EL-112_V0 |
| **Test Report Form(s) Originator.....:** | ZKT Testing |
| **Master TRF .....:** | Dated: 2021-04-22 |

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.
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| | |
|---|---|
| **Product name.....:** | Bluetooth headset |
| Trademark .....: | / |
| Model/Type reference..... : | 00745 |
| Ratings..... : | Input: DC 5V or Battery DC 3.7V |

Testing procedure and testing location:

| | |
|---|---|
| Testing Laboratory.....: | Shenzhen ZKT Technology Co., Ltd. |
| Address..... : | 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China |
| Tested by (name + signature).....: | Alen He |
| Reviewer (name + signature)..... : | Joe Liu |
| Approved (name + signature)..... : | Lake Xie |

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## 1. VERSION

| Report No. | Version | Description | Approved |
|---|---|---|---|
| ZKT-220427L2816 | Rev.01 | Initial issue of report | May 11, 2022 |
| | | | |
| | | | |

## 2. TEST SUMMARY

Test procedures according to the technical standards:

| FCC Part15 (15.247) , Subpart C | | | |
|---|---|---|---|
| Standard Section | Test Item | Result | Remark |
| 15.203/15.247 (c) | Antenna Requirement | PASS | |
| 15.207 | AC Power Line Conducted Emission | PASS | |
| 15.247 (b)(1) | Conducted Peak Output Power | PASS | |
| 15.247 (a)(1) | 20dB Occupied Bandwidth<br>99% OCB | PASS | |
| 15.247 (a)(1) | Carrier Frequencies Separation | PASS | |
| 15.247 (a)(1)(iii) | Hopping Channel Number | PASS | |
| 15.247 (a)(1)(iii) | Dwell Time | PASS | |
| 15.205/15.209 | Radiated Emission and Restricted Band | PASS | |
| 15.247(d) | Conducted Unwanted emissions and Band Edge | PASS | |

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

## 2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.
Add. : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 692225
Designation Number: CN1299
IC Registered No.: 27033
Designation Number: CN0110

## 2.2 MEASUREMENT UNCERTAINTY

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

| No. | Item | Uncertainty |
|---|---|---|
| 1 | Conducted Emission Test | ±1.38dB |
| 2 | RF power conducted | ±0.16dB |
| 3 | Spurious emissions conducted | ±0.21dB |
| 4 | All emissions radiated(<1G) | ±4.68dB |
| 5 | All emissions radiated(>1G) | ±4.89dB |
| 6 | Temperature | ±0.5°C |
| 7 | Humidity | ±2% |

## 3. GENERAL INFORMATION

### 3.1 GENERAL DESCRIPTION OF EUT

| | |
|---|---|
| Product Name: | Bluetooth headset |
| Model No.: | 00745 |
| Model Different.: | N/A |
| Sample ID | ZKT-2202160751-1 |
| Sample(s) Status: | Engineer sample |
| Channel numbers: | 79 |
| Operation Frequency: | 2402MHz~2480MHz |
| Modulation technology: | GFSK, π/4-DQPSK, 8-DPSK |
| Antenna Type: | Internal antenna |
| Antenna gain: | 2.67dBi |
| Power supply: | Input: DC 5V or Battery DC 3.7V |

| **Operation Frequency each of channel** | | | | | | | |
|---|---|---|---|---|---|---|---|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1 | 2402MHz | 21 | 2422MHz | 41 | 2442MHz | 61 | 2462MHz |
| 2 | 2403MHz | 22 | 2423MHz | 42 | 2443MHz | 62 | 2463MHz |
| 3 | 2404MHz | 23 | 2424MHz | 43 | 2444MHz | 63 | 2464MHz |
| 4 | 2405MHz | 24 | 2425MHz | 44 | 2445MHz | 64 | 2465MHz |
| 5 | 2406MHz | 25 | 2426MHz | 45 | 2446MHz | 65 | 2466MHz |
| 6 | 2407MHz | 26 | 2427MHz | 46 | 2447MHz | 66 | 2467MHz |
| 7 | 2408MHz | 27 | 2428MHz | 47 | 2448MHz | 67 | 2468MHz |
| 8 | 2409MHz | 28 | 2429MHz | 48 | 2449MHz | 68 | 2469MHz |
| 9 | 2410MHz | 29 | 2430MHz | 49 | 2450MHz | 69 | 2470MHz |
| 10 | 2411MHz | 30 | 2431MHz | 50 | 2451MHz | 70 | 2471MHz |
| 11 | 2412MHz | 31 | 2432MHz | 51 | 2452MHz | 71 | 2472MHz |
| 12 | 2413MHz | 32 | 2433MHz | 52 | 2453MHz | 72 | 2473MHz |
| 13 | 2414MHz | 33 | 2434MHz | 53 | 2454MHz | 73 | 2474MHz |
| 14 | 2415MHz | 34 | 2435MHz | 54 | 2455MHz | 74 | 2475MHz |
| 15 | 2416MHz | 35 | 2436MHz | 55 | 2456MHz | 75 | 2476MHz |
| 16 | 2417MHz | 36 | 2437MHz | 56 | 2457MHz | 76 | 2477MHz |
| 17 | 2418MHz | 37 | 2438MHz | 57 | 2458MHz | 77 | 2478MHz |
| 18 | 2419MHz | 38 | 2439MHz | 58 | 2459MHz | 78 | 2479MHz |
| 19 | 2420MHz | 39 | 2440MHz | 59 | 2460MHz | 79 | 2480MHz |
| 20 | 2421MHz | 40 | 2441MHz | 60 | 2461MHz | | |

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle

frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Test channel | Frequency |
|---|---|
| The lowest channel | 2402MHz |
| The middle channel | 2441MHz |
| The Highest channel | 2480MHz |

3.2 Test Setup Configuration

Conducted Emission

AC Mains — EUT

Radiated Emission

EUT

Conducted Spurious

EUT

3.3 Support Equipment

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.

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Note |
|---|---|---|---|---|---|
| E-1 | Bluetooth headset | N/A | 00745 | N/A | EUT |
| A-1 | AC Adapter | N/A | ZKT01 | N/A | Auxiliary |
| | | | | | |

| Item | Shielded Type | Ferrite Core | Length | Note |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |

Note:
(1) The support equipment was authorized by Declaration of Confirmation.
(2) For detachable type I/O cable should be specified the length in cm in『Length』column.

## 3.4 Test Mode

| | |
|---|---|
| Transmitting mode | Keep the EUT in continuously transmitting mode. |
| Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data. | |

| | |
|---|---|
| Test Software | BT Test Tool |
| Power level setup | <7dBm |

## 3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

| Item | Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until |
|---|---|---|---|---|---|---|
| 1 | Spectrum Analyzer (9kHz-26.5GHz) | KEYSIGHT | 9020A | MY45109572 | Sep. 22, 2021 | Sep. 21, 2022 |
| 2 | Spectrum Analyzer (1GHz-40GHz) | Agilent | E4446A | 100363 | Sep. 22, 2021 | Sep. 21, 2022 |
| 3 | Test Receiver (9kHz-7GHz) | R&S | ESCI7 | 101169 | Sep. 22, 2021 | Sep. 21, 2022 |
| 4 | Bilog Antenna (30MHz-1400MHz) | Schwarzbeck | VULB9168 | 00877 | Sep. 22, 2021 | Sep. 21, 2022 |
| 5 | Horn Antenna (1GHz-18GHz) | SCHWARZBEC K | BBHA9120D | 1541 | Sep. 22, 2021 | Sep. 21, 2022 |
| 6 | Horn Antenna (18GHz-40GHz) | A.H. System | SAS-574 | 588 | Sep. 22, 2021 | Sep. 21, 2022 |
| 7 | Amplifier (30-1000MHz) | EM Electronics | EM330 Amplifier | N/A | Sep. 22, 2021 | Sep. 21, 2022 |
| 8 | Amplifier (1GHz-40GHz) | 全聚达 | DLE-161 | 097 | Sep. 22, 2021 | Sep. 21, 2022 |
| 9 | Loop Antenna (9KHz-30MHz) | SCHWARZBEC K | FMZB1519B | 014 | Sep. 22, 2021 | Sep. 21, 2022 |
| 10 | RF cables1 (9kHz-30MHz) | N/A | 9kHz-30MHz | N/A | Sep. 22, 2021 | Sep. 21, 2022 |
| 11 | RF cables2 (30MHz-1GHz) | N/A | 30MHz-1GHz | N/A | Sep. 22, 2021 | Sep. 21, 2022 |
| 12 | RF cables3 (1GHz-40GHz) | N/A | 1GHz-40GHz | N/A | Sep. 22, 2021 | Sep. 21, 2022 |
| 13 | CMW500 Test | R&S | CMW500 | 106504 | Sep. 22, 2021 | Sep. 21, 2022 |
| 14 | ESG Signal Generator | Agilent | E4421B | GB40051203 | Sep. 22, 2021 | Sep. 21, 2022 |
| 15 | Signal Generator | Agilent | N5182A | MY47420215 | Sep. 22, 2021 | Sep. 21, 2022 |
| 16 | D.C. Power Supply | LongWei | TPR-6405D | \ | \ | \ |
| 17 | Software | Frad | EZ-EMC | FA-03A2 RE | \ | \ |

Conduction Test equipment

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until |
|---|---|---|---|---|---|---|
| 1 | LISN | R&S | ENV216 | 101471 | Sep. 22, 2021 | Sep. 21, 2022 |
| 2 | LISN | CYBERTEK | EM5040A | E185040014 9 | Sep. 22, 2021 | Sep. 21, 2022 |
| 3 | Test Cable | N/A | C01 | N/A | Sep. 22, 2021 | Sep. 21, 2022 |
| 4 | Test Cable | N/A | C02 | N/A | Sep. 22, 2021 | Sep. 21, 2022 |
| 5 | EMI Test Receiver | R&S | ESRP3 | 101946 | Sep. 22, 2021 | Sep. 21, 2022 |
| 6 | Absorbing Clamp | DZ | ZN23201 | N/A | Sep. 22, 2021 | Sep. 21, 2022 |

## 4. EMC EMISSION TEST

### 4.1 Conducted emissions

| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.207 |
| Test Method: | ANSI C63.10:2013 |
| Test Frequency Range: | 150KHz to 30MHz |
| Receiver setup: | RBW=9KHz, VBW=30KHz, Sweep time=auto |

#### 4.1.1 POWER LINE CONDUCTED EMISSION Limits

| FREQUENCY (MHz) | Limit (dBuV) | | Standard |
|---|---|---|---|
| | Quasi-peak | Average | |
| 0.15 -0.5 | 66 - 56 * | 56 - 46 * | FCC |
| 0.50 -5.0 | 56.00 | 46.00 | FCC |
| 5.0 -30.0 | 60.00 | 50.00 | FCC |

Note:

(1) *Decreases with the logarithm of the frequency.

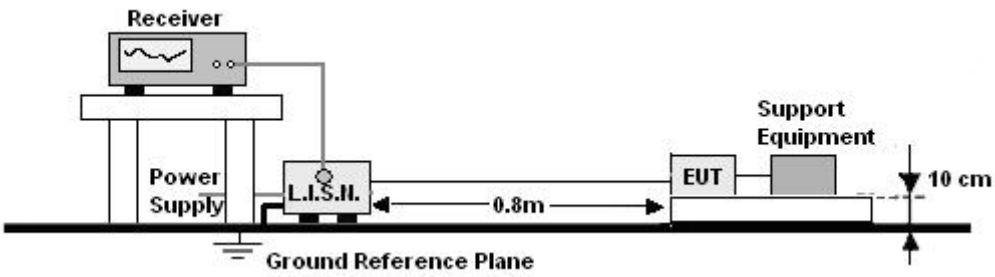
#### 4.1.2 TEST PROCEDURE

a. The EUT was placed 0.1 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 4.1.3 DEVIATION FROM TEST STANDARD

No deviation

#### 4.1.4 TEST SETUP

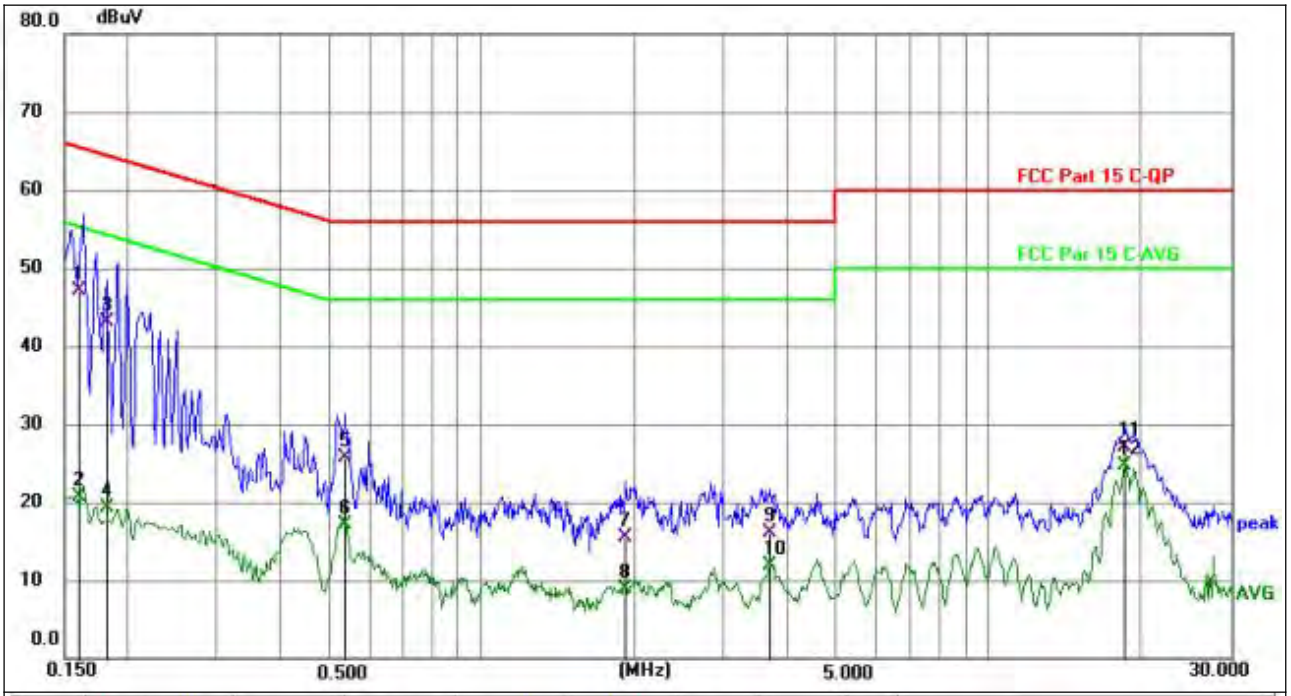


### 4.1.5 EUT OPERATING CONDITIONS

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

4.1.6 Test Result

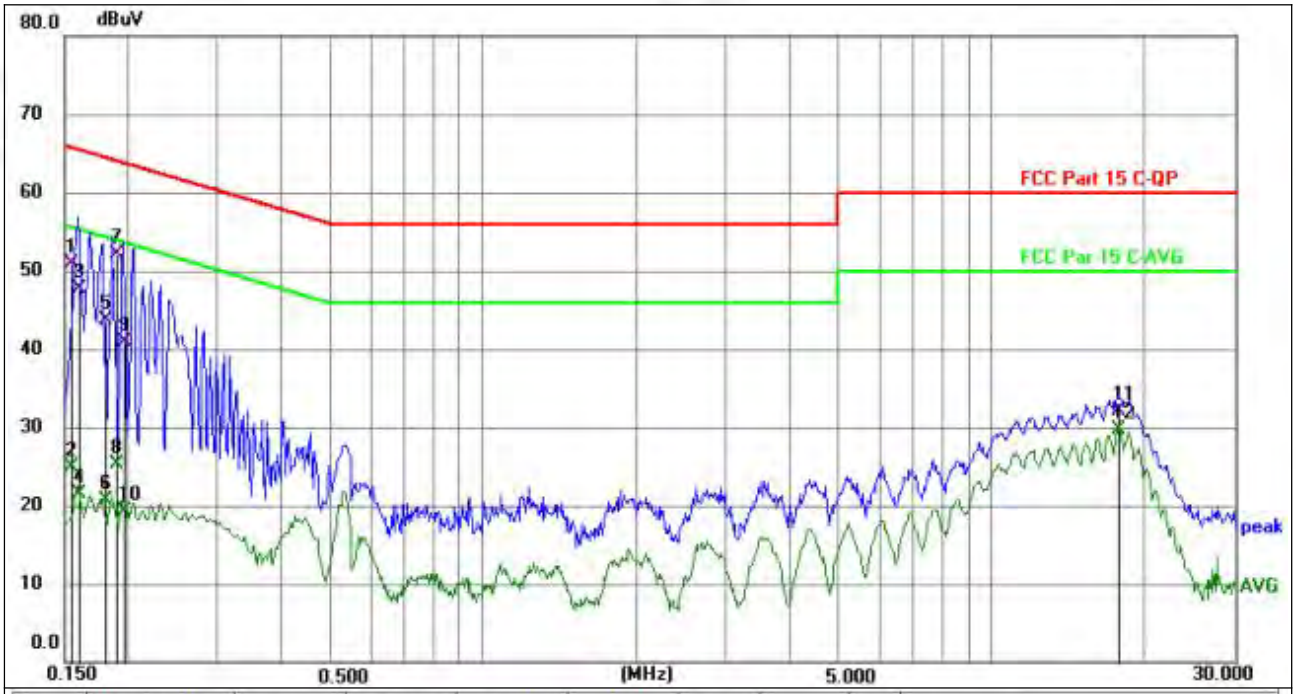
| | | | |
|---|---|---|---|
| Temperature: | 26℃ | Relative Humidity: | 54% |
| Pressure: | 101kPa | Phase : | L |
| Test Voltage : | AC 120V/60Hz | | |




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 * | 0.1600 | 37.59 | 9.55 | 47.14 | 65.46 | -18.32 | QP | P | |
| 2 | 0.1600 | 11.10 | 9.55 | 20.65 | 55.46 | -34.81 | AVG | P | |
| 3 | 0.1833 | 33.42 | 9.64 | 43.06 | 64.33 | -21.27 | QP | P | |
| 4 | 0.1833 | 9.72 | 9.64 | 19.36 | 54.33 | -34.97 | AVG | P | |
| 5 | 0.5393 | 16.13 | 9.64 | 25.77 | 56.00 | -30.23 | QP | P | |
| 6 | 0.5393 | 7.56 | 9.64 | 17.20 | 46.00 | -28.80 | AVG | P | |
| 7 | 1.9188 | 5.86 | 9.70 | 15.56 | 56.00 | -40.44 | QP | P | |
| 8 | 1.9188 | -0.88 | 9.70 | 8.82 | 46.00 | -37.18 | AVG | P | |
| 9 | 3.7219 | 6.58 | 9.56 | 16.14 | 56.00 | -39.86 | QP | P | |
| 10 | 3.7219 | 2.31 | 9.56 | 11.87 | 46.00 | -34.13 | AVG | P | |
| 11 | 18.5623 | 17.47 | 9.65 | 27.12 | 60.00 | -32.88 | QP | P | |
| 12 | 18.5623 | 15.02 | 9.65 | 24.67 | 50.00 | -25.33 | AVG | P | |

Notes:
1.An initial pre-scan was performed on the line and neutral lines with peak detector.
2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3.Mesurement Level = Reading level + Correct Factor

| | | | |
|---|---|---|---|
| Temperature: | 26℃ | Relative Humidity: | 54% |
| Pressure: | 101kPa | Phase : | N |
| Test Voltage : | AC 120V/60Hz | | |




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.1555 | 41.47 | 9.53 | 51.00 | 65.70 | -14.70 | QP | P | |
| 2 | 0.1555 | 15.44 | 9.53 | 24.97 | 55.70 | -30.73 | AVG | P | |
| 3 | 0.1614 | 38.12 | 9.56 | 47.68 | 65.39 | -17.71 | QP | P | |
| 4 | 0.1614 | 11.89 | 9.56 | 21.45 | 55.39 | -33.94 | AVG | P | |
| 5 | 0.1813 | 34.09 | 9.64 | 43.73 | 64.43 | -20.70 | QP | P | |
| 6 | 0.1813 | 11.16 | 9.64 | 20.80 | 54.43 | -33.63 | AVG | P | |
| 7 * | 0.1897 | 42.44 | 9.67 | 52.11 | 64.05 | -11.94 | QP | P | |
| 8 | 0.1897 | 15.72 | 9.67 | 25.39 | 54.05 | -28.66 | AVG | P | |
| 9 | 0.1968 | 31.16 | 9.70 | 40.86 | 63.74 | -22.88 | QP | P | |
| 10 | 0.1968 | 9.66 | 9.70 | 19.36 | 53.74 | -34.38 | AVG | P | |
| 11 | 17.7776 | 22.48 | 9.67 | 32.15 | 60.00 | -27.85 | QP | P | |
| 12 | 17.7776 | 20.06 | 9.67 | 29.73 | 50.00 | -20.27 | AVG | P | |

Notes:
1.An initial pre-scan was performed on the line and neutral lines with peak detector.
2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3.Mesurement Level = Reading level + Correct Factor

## 4.2 Radiated emissions

| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.209 |
| Test Method: | ANSI C63.10:2013 |
| Test Frequency Range: | 9kHz to 25GHz |
| Test site: | Measurement Distance: 3m |
| Receiver setup: | |

| Frequency | Detector | RBW | VBW | Value |
|---|---|---|---|---|
| 9KHz-150KHz | Quasi-peak | 200Hz | 600Hz | Quasi-peak |
| 150KHz-30MHz | Quasi-peak | 9KHz | 30KHz | Quasi-peak |
| 30MHz-1GHz | Quasi-peak | 100KHz | 300KHz | Quasi-peak |
| Above 1GHz | Peak | 1MHz | 3MHz | Peak |
| | Peak | 1MHz | 10Hz | Average |

### 4.2.1 Radiated Emission Limits

| Frequencies (MHz) | Field Strength (micorvolts/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 |

LIMITS OF RADIATED EMISSION MEASUREMENT

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

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

### 4.2.2 TEST PROCEDURE

Below 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 0.1 meters above the ground at a 3 meter semi-anechoic camber. 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 antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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 Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre( Above 18GHz the distance is 1 meter and table is 1.5 metre).
h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel

Note:

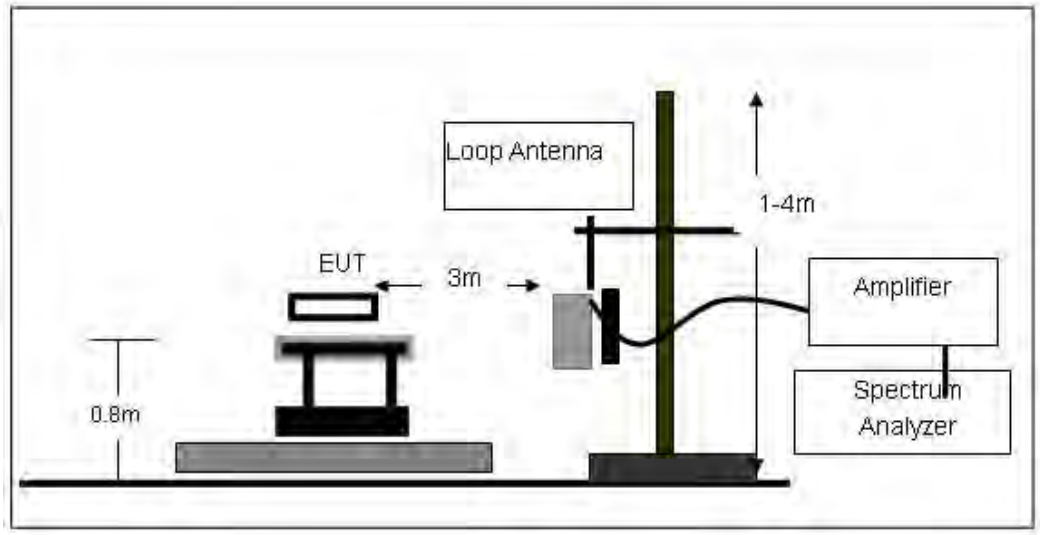
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

### 4.2.3 DEVIATION FROM TEST STANDARD

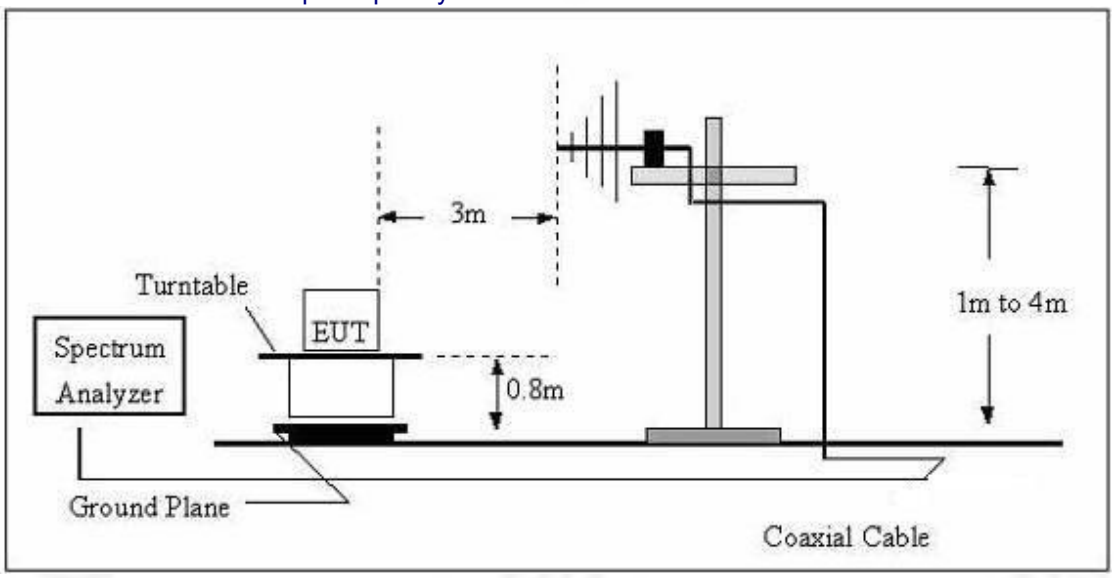
No deviation

### 4.2.4 TEST SETUP

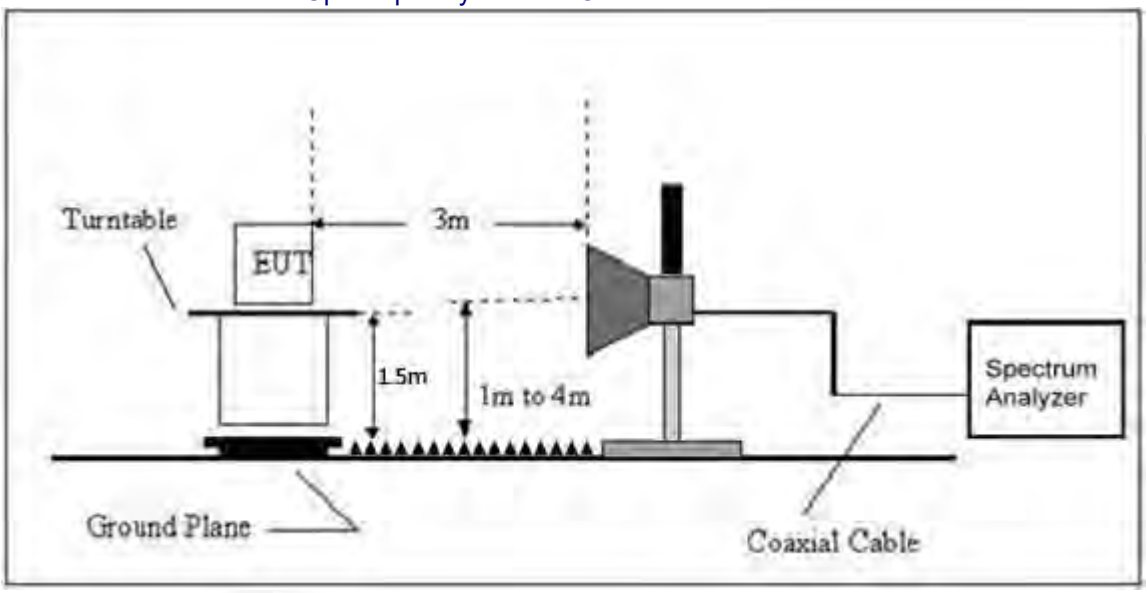
（A）Radiated Emission Test-Up Frequency Below 30MHz



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




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




4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

### 4.2.6 TEST RESULTS

Between 9KHz – 30MHz

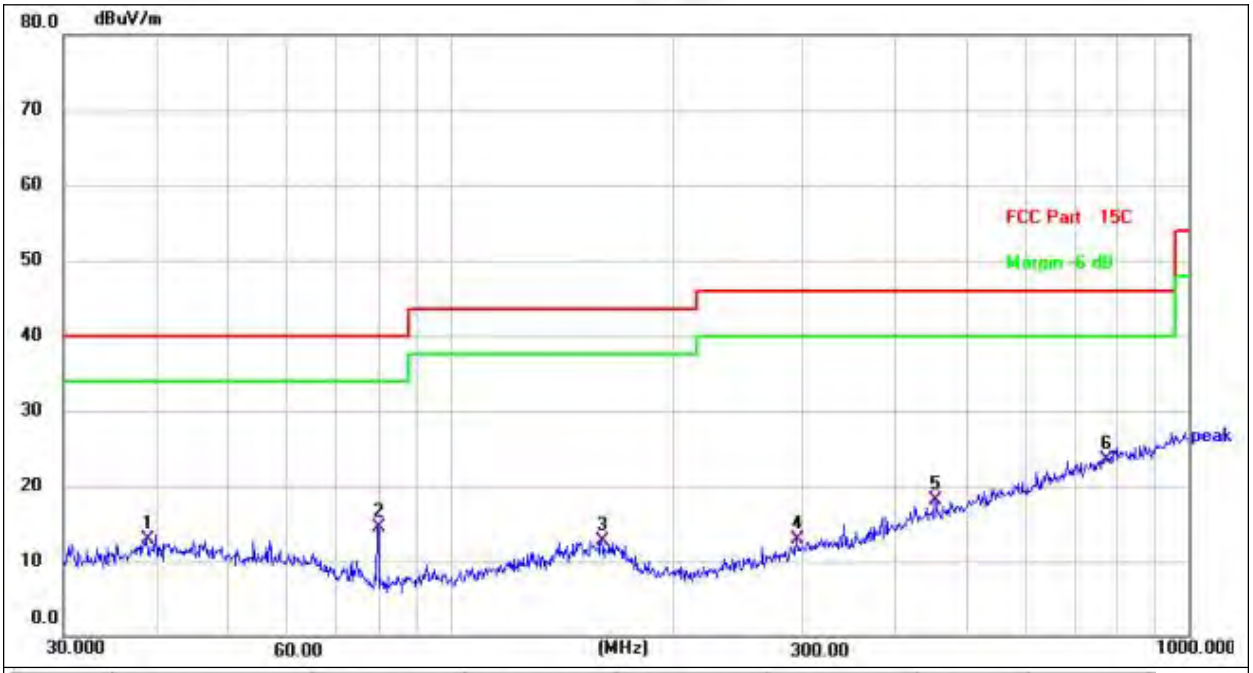
The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

Between 30MHz – 1GHz

| | | | |
|---|---|---|---|
| Temperature: | 26℃ | Relative Humidity: | 54% |
| Pressure: | 101 kPa | Polarization: | Horizontal |
| Test Voltage: | DC 3.7V | | |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 39.0245 | 28.97 | -15.84 | 13.13 | 40.00 | -26.87 | QP |
| 2 | 60.7044 | 30.13 | -17.41 | 12.72 | 40.00 | -27.28 | QP |
| 3 | 80.0806 | 31.26 | -20.92 | 10.34 | 40.00 | -29.66 | QP |
| 4 | 150.0108 | 29.61 | -15.78 | 13.83 | 43.50 | -29.67 | QP |
| 5 | 352.9433 | 28.78 | -14.96 | 13.82 | 46.00 | -32.18 | QP |
| 6 * | 649.6597 | 29.18 | -7.75 | 21.43 | 46.00 | -24.57 | QP |

| | | | |
|---|---|---|---|
| Temperature: | 26℃ | Relative Humidity: | 54% |
| Pressure: | 101kPa | Polarization: | Vertical |
| Test Voltage: | DC 3.7V | | |




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 38.8878 | 28.74 | -15.86 | 12.88 | 40.00 | -27.12 | QP |
| 2 | 79.8003 | 35.28 | -20.86 | 14.42 | 40.00 | -25.58 | QP |
| 3 | 160.3456 | 28.74 | -15.96 | 12.78 | 43.50 | -30.72 | QP |
| 4 | 294.1137 | 28.87 | -15.98 | 12.89 | 46.00 | -33.11 | QP |
| 5 | 452.7197 | 29.90 | -11.79 | 18.11 | 46.00 | -27.89 | QP |
| 6 * | 771.4486 | 28.68 | -5.23 | 23.45 | 46.00 | -22.55 | QP |

Remarks:
1.Final Level =Receiver Read level + Antenna Factor + Cable Loss
2.The emission levels of other frequencies are very lower than the limit and not show in test report.
3.The test data shows only the worst case GFSK mode

1GHz~25GHz

GFSK

| Polar (H/V) | Frequency (MHz) | Meter Reading (dBuV) | Pre-amplifier (dB) | Cable Loss (dB) | Antenna Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| Low Channel:2402MHz | | | | | | | | | |
| V | 4804.00 | 54.96 | 30.55 | 5.77 | 24.66 | 51.39 | 74.00 | -22.61 | Pk |
| V | 4804.00 | 43.46 | 30.55 | 5.77 | 24.66 | 43.34 | 54.00 | -10.66 | AV |
| V | 7206.00 | 51.51 | 30.33 | 6.32 | 24.55 | 52.05 | 74.00 | -21.95 | Pk |
| V | 7206.00 | 43.61 | 30.33 | 6.32 | 24.55 | 44.15 | 54.00 | -9.85 | AV |
| V | 9608.00 | 52.55 | 30.85 | 7.45 | 24.69 | 53.84 | 74.00 | -20.16 | Pk |
| V | 9608.00 | 43.09 | 30.85 | 7.45 | 24.69 | 44.38 | 54.00 | -9.62 | AV |
| V | 12010.00 | 50.24 | 31.02 | 8.99 | 25.57 | 53.78 | 74.00 | -20.22 | Pk |
| V | 12010.00 | 43.88 | 31.02 | 8.99 | 25.57 | 47.42 | 54.00 | -6.58 | AV |
| H | 4804.00 | 50.57 | 30.55 | 5.77 | 24.66 | 50.45 | 74.00 | -23.55 | Pk |
| H | 4804.00 | 43.06 | 30.55 | 5.77 | 24.66 | 42.94 | 54.00 | -11.06 | AV |
| H | 7206.00 | 50.13 | 30.33 | 6.32 | 24.55 | 50.67 | 74.00 | -23.33 | Pk |
| H | 7206.00 | 43.21 | 30.33 | 6.32 | 24.55 | 43.75 | 54.00 | -10.25 | AV |
| H | 9608.00 | 52.67 | 30.85 | 7.45 | 24.69 | 53.96 | 74.00 | -20.04 | Pk |
| H | 9608.00 | 43.06 | 30.85 | 7.45 | 24.69 | 44.35 | 54.00 | -9.65 | AV |
| H | 12010.00 | 53.01 | 31.02 | 8.99 | 25.57 | 56.55 | 74.00 | -17.45 | Pk |
| H | 12010.00 | 43.09 | 31.02 | 8.99 | 25.57 | 46.63 | 54.00 | -7.37 | AV |

| Polar (H/V) | Frequency (MHz) | Meter Reading (dBuV) | Pre-amplifier (dB) | Cable Loss (dB) | Antenna Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| Middle Channel:2441MHz | | | | | | | | | |
| V | 4882.00 | 50.79 | 30.55 | 5.77 | 24.66 | 50.67 | 74.00 | -23.33 | Pk |
| V | 4882.00 | 43.15 | 30.55 | 5.77 | 24.66 | 43.03 | 54.00 | -10.97 | AV |
| V | 7323.00 | 50.41 | 30.33 | 6.32 | 24.55 | 50.95 | 74.00 | -23.05 | Pk |
| V | 7323.00 | 43.52 | 30.33 | 6.32 | 24.55 | 44.06 | 54.00 | -9.94 | AV |
| V | 9764.00 | 50.55 | 30.85 | 7.45 | 24.69 | 51.84 | 74.00 | -22.16 | Pk |
| V | 9764.00 | 43.66 | 30.85 | 7.45 | 24.69 | 44.95 | 54.00 | -9.05 | AV |
| V | 12205.00 | 53.39 | 31.02 | 8.99 | 25.57 | 56.93 | 74.00 | -17.07 | Pk |
| V | 12205.00 | 43.08 | 31.02 | 8.99 | 25.57 | 46.62 | 54.00 | -7.38 | AV |
| H | 4882.00 | 53.86 | 30.55 | 5.77 | 24.66 | 53.74 | 74.00 | -20.26 | Pk |
| H | 4882.00 | 43.48 | 30.55 | 5.77 | 24.66 | 43.36 | 54.00 | -10.64 | AV |
| H | 7323.00 | 54.59 | 30.33 | 6.32 | 24.55 | 55.13 | 74.00 | -18.87 | Pk |
| H | 7323.00 | 43.35 | 30.33 | 6.32 | 24.55 | 43.89 | 54.00 | -10.11 | AV |
| H | 9764.00 | 53.59 | 30.85 | 7.45 | 24.69 | 54.88 | 74.00 | -19.12 | Pk |
| H | 9764.00 | 43.35 | 30.85 | 7.45 | 24.69 | 44.64 | 54.00 | -9.36 | AV |
| H | 12205.00 | 53.03 | 31.02 | 8.99 | 25.57 | 56.57 | 74.00 | -17.43 | Pk |
| H | 12205.00 | 43.46 | 31.02 | 8.99 | 25.57 | 47.00 | 54.00 | -7.00 | AV |

| Polar (H/V) | Frequency (MHz) | Meter Reading (dBuV) | Pre-amplifier (dB) | Cable Loss (dB) | Antenna Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| High Channel:2480MHz | | | | | | | | | |
| V | 4960.00 | 50.39 | 30.55 | 5.77 | 24.66 | 50.27 | 74.00 | -23.73 | Pk |
| V | 4960.00 | 43.06 | 30.55 | 5.77 | 24.66 | 42.94 | 54.00 | -11.06 | AV |
| V | 7440.00 | 52.12 | 30.33 | 6.32 | 24.55 | 52.66 | 74.00 | -21.34 | Pk |
| V | 7440.00 | 43.54 | 30.33 | 6.32 | 24.55 | 44.08 | 54.00 | -9.92 | AV |
| V | 9920.00 | 54.95 | 30.85 | 7.45 | 24.69 | 56.24 | 74.00 | -17.76 | Pk |
| V | 9920.00 | 43.66 | 30.85 | 7.45 | 24.69 | 44.95 | 54.00 | -9.05 | AV |
| V | 12400.00 | 51.69 | 31.02 | 8.99 | 25.57 | 55.23 | 74.00 | -18.77 | Pk |
| V | 12400.00 | 43.50 | 31.02 | 8.99 | 25.57 | 47.04 | 54.00 | -6.96 | AV |
| H | 4960.00 | 52.83 | 30.55 | 5.77 | 24.66 | 52.71 | 74.00 | -21.29 | Pk |
| H | 4960.00 | 43.41 | 30.55 | 5.77 | 24.66 | 43.29 | 54.00 | -10.71 | AV |
| H | 7440.00 | 52.34 | 30.33 | 6.32 | 24.55 | 52.88 | 74.00 | -21.12 | Pk |
| H | 7440.00 | 43.08 | 30.33 | 6.32 | 24.55 | 43.62 | 54.00 | -10.38 | AV |
| H | 9920.00 | 53.79 | 30.85 | 7.45 | 24.69 | 55.08 | 74.00 | -18.92 | Pk |
| H | 9920.00 | 43.20 | 30.85 | 7.45 | 24.69 | 44.49 | 54.00 | -9.51 | AV |
| H | 12400.00 | 51.81 | 31.02 | 8.99 | 25.57 | 55.35 | 74.00 | -18.65 | Pk |
| H | 12400.00 | 43.34 | 31.02 | 8.99 | 25.57 | 46.88 | 54.00 | -7.12 | AV |

Remark:
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
   Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

π/4-DQPSK

| Polar (H/V) | Frequency (MHz) | Meter Reading (dBuV) | Pre-amplifier (dB) | Cable Loss (dB) | Antenna Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| Low Channel:2402MHz | | | | | | | | | |
| V | 4804.00 | 53.91 | 30.55 | 5.77 | 24.66 | 53.79 | 74.00 | -20.21 | Pk |
| V | 4804.00 | 43.84 | 30.55 | 5.77 | 24.66 | 43.72 | 54.00 | -10.28 | AV |
| V | 7206.00 | 53.66 | 30.33 | 6.32 | 24.55 | 54.20 | 74.00 | -19.80 | Pk |
| V | 7206.00 | 43.81 | 30.33 | 6.32 | 24.55 | 44.35 | 54.00 | -9.65 | AV |
| V | 9608.00 | 53.69 | 30.85 | 7.45 | 24.69 | 54.98 | 74.00 | -19.02 | Pk |
| V | 9608.00 | 43.77 | 30.85 | 7.45 | 24.69 | 45.06 | 54.00 | -8.94 | AV |
| V | 12010.00 | 52.94 | 31.02 | 8.99 | 25.57 | 56.48 | 74.00 | -17.52 | Pk |
| V | 12010.00 | 43.12 | 31.02 | 8.99 | 25.57 | 46.66 | 54.00 | -7.34 | AV |
| H | 4804.00 | 52.21 | 30.55 | 5.77 | 24.66 | 52.09 | 74.00 | -21.91 | Pk |
| H | 4804.00 | 43.94 | 30.55 | 5.77 | 24.66 | 43.82 | 54.00 | -10.18 | AV |
| H | 7206.00 | 50.05 | 30.33 | 6.32 | 24.55 | 50.59 | 74.00 | -23.41 | Pk |
| H | 7206.00 | 43.85 | 30.33 | 6.32 | 24.55 | 44.39 | 54.00 | -9.61 | AV |
| H | 9608.00 | 50.53 | 30.85 | 7.45 | 24.69 | 51.82 | 74.00 | -22.18 | Pk |
| H | 9608.00 | 43.73 | 30.85 | 7.45 | 24.69 | 45.02 | 54.00 | -8.98 | AV |
| H | 12010.00 | 52.74 | 31.02 | 8.99 | 25.57 | 56.28 | 74.00 | -17.72 | Pk |
| H | 12010.00 | 43.30 | 31.02 | 8.99 | 25.57 | 46.84 | 54.00 | -7.16 | AV |

| Polar (H/V) | Frequency (MHz) | Meter Reading (dBuV) | Pre-amplifier (dB) | Cable Loss (dB) | Antenna Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| Middle Channel:2441MHz | | | | | | | | | |
| V | 4882.00 | 54.28 | 30.55 | 5.77 | 24.66 | 54.16 | 74.00 | -19.84 | Pk |
| V | 4882.00 | 43.63 | 30.55 | 5.77 | 24.66 | 43.51 | 54.00 | -10.49 | AV |
| V | 7323.00 | 53.02 | 30.33 | 6.32 | 24.55 | 53.56 | 74.00 | -20.44 | Pk |
| V | 7323.00 | 43.29 | 30.33 | 6.32 | 24.55 | 43.83 | 54.00 | -10.17 | AV |
| V | 9764.00 | 51.71 | 30.85 | 7.45 | 24.69 | 53.00 | 74.00 | -21.00 | Pk |
| V | 9764.00 | 43.45 | 30.85 | 7.45 | 24.69 | 44.74 | 54.00 | -9.26 | AV |
| V | 12205.00 | 52.09 | 31.02 | 8.99 | 25.57 | 55.63 | 74.00 | -18.37 | Pk |
| V | 12205.00 | 43.06 | 31.02 | 8.99 | 25.57 | 46.60 | 54.00 | -7.40 | AV |
| H | 4882.00 | 50.10 | 30.55 | 5.77 | 24.66 | 49.98 | 74.00 | -24.02 | Pk |
| H | 4882.00 | 43.99 | 30.55 | 5.77 | 24.66 | 43.87 | 54.00 | -10.13 | AV |
| H | 7323.00 | 50.47 | 30.33 | 6.32 | 24.55 | 51.01 | 74.00 | -22.99 | Pk |
| H | 7323.00 | 43.37 | 30.33 | 6.32 | 24.55 | 43.91 | 54.00 | -10.09 | AV |
| H | 9764.00 | 51.76 | 30.85 | 7.45 | 24.69 | 53.05 | 74.00 | -20.95 | Pk |
| H | 9764.00 | 43.97 | 30.85 | 7.45 | 24.69 | 45.26 | 54.00 | -8.74 | AV |
| H | 12205.00 | 51.86 | 31.02 | 8.99 | 25.57 | 55.40 | 74.00 | -18.60 | Pk |
| H | 12205.00 | 43.97 | 31.02 | 8.99 | 25.57 | 47.51 | 54.00 | -6.49 | AV |

| Polar (H/V) | Frequency (MHz) | Meter Reading (dBuV) | Pre-amplifier (dB) | Cable Loss (dB) | Antenna Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| High Channel:2480MHz | | | | | | | | | |
| V | 4960.00 | 50.72 | 30.55 | 5.77 | 24.66 | 50.60 | 74.00 | -23.40 | Pk |
| V | 4960.00 | 43.49 | 30.55 | 5.77 | 24.66 | 43.37 | 54.00 | -10.63 | AV |
| V | 7440.00 | 51.57 | 30.33 | 6.32 | 24.55 | 52.11 | 74.00 | -21.89 | Pk |
| V | 7440.00 | 43.64 | 30.33 | 6.32 | 24.55 | 44.18 | 54.00 | -9.82 | AV |
| V | 9920.00 | 51.50 | 30.85 | 7.45 | 24.69 | 52.79 | 74.00 | -21.21 | Pk |
| V | 9920.00 | 43.62 | 30.85 | 7.45 | 24.69 | 44.91 | 54.00 | -9.09 | AV |
| V | 12400.00 | 51.51 | 31.02 | 8.99 | 25.57 | 55.05 | 74.00 | -18.95 | Pk |
| V | 12400.00 | 43.26 | 31.02 | 8.99 | 25.57 | 46.80 | 54.00 | -7.20 | AV |
| H | 4960.00 | 53.38 | 30.55 | 5.77 | 24.66 | 53.26 | 74.00 | -20.74 | Pk |
| H | 4960.00 | 43.57 | 30.55 | 5.77 | 24.66 | 43.45 | 54.00 | -10.55 | AV |
| H | 7440.00 | 53.41 | 30.33 | 6.32 | 24.55 | 53.95 | 74.00 | -20.05 | Pk |
| H | 7440.00 | 43.91 | 30.33 | 6.32 | 24.55 | 44.45 | 54.00 | -9.55 | AV |
| H | 9920.00 | 50.07 | 30.85 | 7.45 | 24.69 | 51.36 | 74.00 | -22.64 | Pk |
| H | 9920.00 | 43.75 | 30.85 | 7.45 | 24.69 | 45.04 | 54.00 | -8.96 | AV |
| H | 12400.00 | 52.05 | 31.02 | 8.99 | 25.57 | 55.59 | 74.00 | -18.41 | Pk |
| H | 12400.00 | 43.08 | 31.02 | 8.99 | 25.57 | 46.62 | 54.00 | -7.38 | AV |

Remark:
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
   Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

8-DPSK

| Polar (H/V) | Frequency (MHz) | Meter Reading (dBuV) | Pre-amplifier (dB) | Cable Loss (dB) | Antenna Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| Low Channel:2402MHz | | | | | | | | | |
| V | 4804.00 | 53.71 | 30.55 | 5.77 | 24.66 | 53.59 | 74.00 | -20.41 | Pk |
| V | 4804.00 | 43.40 | 30.55 | 5.77 | 24.66 | 43.28 | 54.00 | -10.72 | AV |
| V | 7206.00 | 50.46 | 30.33 | 6.32 | 24.55 | 51.00 | 74.00 | -23.00 | Pk |
| V | 7206.00 | 43.26 | 30.33 | 6.32 | 24.55 | 43.80 | 54.00 | -10.20 | AV |
| V | 9608.00 | 54.11 | 30.85 | 7.45 | 24.69 | 55.40 | 74.00 | -18.60 | Pk |
| V | 9608.00 | 43.41 | 30.85 | 7.45 | 24.69 | 44.70 | 54.00 | -9.30 | AV |
| V | 12010.00 | 50.75 | 31.02 | 8.99 | 25.57 | 54.29 | 74.00 | -19.71 | Pk |
| V | 12010.00 | 43.98 | 31.02 | 8.99 | 25.57 | 47.52 | 54.00 | -6.48 | AV |
| H | 4804.00 | 54.05 | 30.55 | 5.77 | 24.66 | 53.93 | 74.00 | -20.07 | Pk |
| H | 4804.00 | 43.98 | 30.55 | 5.77 | 24.66 | 43.86 | 54.00 | -10.14 | AV |
| H | 7206.00 | 54.35 | 30.33 | 6.32 | 24.55 | 54.89 | 74.00 | -19.11 | Pk |
| H | 7206.00 | 43.30 | 30.33 | 6.32 | 24.55 | 43.84 | 54.00 | -10.16 | AV |
| H | 9608.00 | 50.13 | 30.85 | 7.45 | 24.69 | 51.42 | 74.00 | -22.58 | Pk |
| H | 9608.00 | 43.18 | 30.85 | 7.45 | 24.69 | 44.47 | 54.00 | -9.53 | AV |
| H | 12010.00 | 54.59 | 31.02 | 8.99 | 25.57 | 58.13 | 74.00 | -15.87 | Pk |
| H | 12010.00 | 43.70 | 31.02 | 8.99 | 25.57 | 47.24 | 54.00 | -6.76 | AV |

| Polar (H/V) | Frequency (MHz) | Meter Reading (dBuV) | Pre-amplifier (dB) | Cable Loss (dB) | Antenna Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| Middle Channel:2441MHz | | | | | | | | | |
| V | 4882.00 | 52.16 | 30.55 | 5.77 | 24.66 | 52.04 | 74.00 | -21.96 | Pk |
| V | 4882.00 | 43.03 | 30.55 | 5.77 | 24.66 | 42.91 | 54.00 | -11.09 | AV |
| V | 7323.00 | 54.92 | 30.33 | 6.32 | 24.55 | 55.46 | 74.00 | -18.54 | Pk |
| V | 7323.00 | 43.28 | 30.33 | 6.32 | 24.55 | 43.82 | 54.00 | -10.18 | AV |
| V | 9764.00 | 52.78 | 30.85 | 7.45 | 24.69 | 54.07 | 74.00 | -19.93 | Pk |
| V | 9764.00 | 43.34 | 30.85 | 7.45 | 24.69 | 44.63 | 54.00 | -9.37 | AV |
| V | 12205.00 | 52.63 | 31.02 | 8.99 | 25.57 | 56.17 | 74.00 | -17.83 | Pk |
| V | 12205.00 | 43.37 | 31.02 | 8.99 | 25.57 | 46.91 | 54.00 | -7.09 | AV |
| H | 4882.00 | 50.12 | 30.55 | 5.77 | 24.66 | 50.00 | 74.00 | -24.00 | Pk |
| H | 4882.00 | 43.03 | 30.55 | 5.77 | 24.66 | 42.91 | 54.00 | -11.09 | AV |
| H | 7323.00 | 52.57 | 30.33 | 6.32 | 24.55 | 53.11 | 74.00 | -20.89 | Pk |
| H | 7323.00 | 43.48 | 30.33 | 6.32 | 24.55 | 44.02 | 54.00 | -9.98 | AV |
| H | 9764.00 | 53.25 | 30.85 | 7.45 | 24.69 | 54.54 | 74.00 | -19.46 | Pk |
| H | 9764.00 | 43.88 | 30.85 | 7.45 | 24.69 | 45.17 | 54.00 | -8.83 | AV |
| H | 12205.00 | 50.73 | 31.02 | 8.99 | 25.57 | 54.27 | 74.00 | -19.73 | Pk |
| H | 12205.00 | 43.50 | 31.02 | 8.99 | 25.57 | 47.04 | 54.00 | -6.96 | AV |

| Polar (H/V) | Frequency (MHz) | Meter Reading (dBuV) | Pre-amplifier (dB) | Cable Loss (dB) | Antenna Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| High Channel:2480MHz | | | | | | | | | |
| V | 4960.00 | 54.51 | 30.55 | 5.77 | 24.66 | 54.39 | 74.00 | -19.61 | Pk |
| V | 4960.00 | 43.88 | 30.55 | 5.77 | 24.66 | 43.76 | 54.00 | -10.24 | AV |
| V | 7440.00 | 52.54 | 30.33 | 6.32 | 24.55 | 53.08 | 74.00 | -20.92 | Pk |
| V | 7440.00 | 43.54 | 30.33 | 6.32 | 24.55 | 44.08 | 54.00 | -9.92 | AV |
| V | 9920.00 | 50.14 | 30.85 | 7.45 | 24.69 | 51.43 | 74.00 | -22.57 | Pk |
| V | 9920.00 | 43.66 | 30.85 | 7.45 | 24.69 | 44.95 | 54.00 | -9.05 | AV |
| V | 12400.00 | 51.79 | 31.02 | 8.99 | 25.57 | 55.33 | 74.00 | -18.67 | Pk |
| V | 12400.00 | 43.93 | 31.02 | 8.99 | 25.57 | 47.47 | 54.00 | -6.53 | AV |
| H | 4960.00 | 51.13 | 30.55 | 5.77 | 24.66 | 51.01 | 74.00 | -22.99 | Pk |
| H | 4960.00 | 43.06 | 30.55 | 5.77 | 24.66 | 42.94 | 54.00 | -11.06 | AV |
| H | 7440.00 | 52.03 | 30.33 | 6.32 | 24.55 | 52.57 | 74.00 | -21.43 | Pk |
| H | 7440.00 | 43.54 | 30.33 | 6.32 | 24.55 | 44.08 | 54.00 | -9.92 | AV |
| H | 9920.00 | 52.90 | 30.85 | 7.45 | 24.69 | 54.19 | 74.00 | -19.81 | Pk |
| H | 9920.00 | 43.77 | 30.85 | 7.45 | 24.69 | 45.06 | 54.00 | -8.94 | AV |
| H | 12400.00 | 54.81 | 31.02 | 8.99 | 25.57 | 58.35 | 74.00 | -15.65 | Pk |
| H | 12400.00 | 43.73 | 31.02 | 8.99 | 25.57 | 47.27 | 54.00 | -6.73 | AV |

Remark:
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
   Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

## 5. RADIATED BAND EMISSION MEASUREMENT

5.1 Test Requirement:

| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.209 and 15.205 |
| Test Method: | ANSI C63.10: 2013 |
| Test Frequency Range: | All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed. |
| Test site: | Measurement Distance: 3m |
| Receiver setup: | |

| Frequency | Detector | RBW | VBW | Value |
|---|---|---|---|---|
| Above 1GHz | Peak | 1MHz | 3MHz | Peak |
| | Average | 1MHz | 3MHz | Average |

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

| Spectrum Parameter | Setting |
|---|---|
| Attenuation | Auto |
| Start Frequency | 2300MHz |
| Stop Frequency | 2520 |
| RB / VB (emission in restricted band) | 1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average |

5.2 TEST PROCEDURE

Above 1GHz test procedure as below:

a. 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. 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 antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
g. Test the EUT in the lowest channel,the Highest channel

Note:

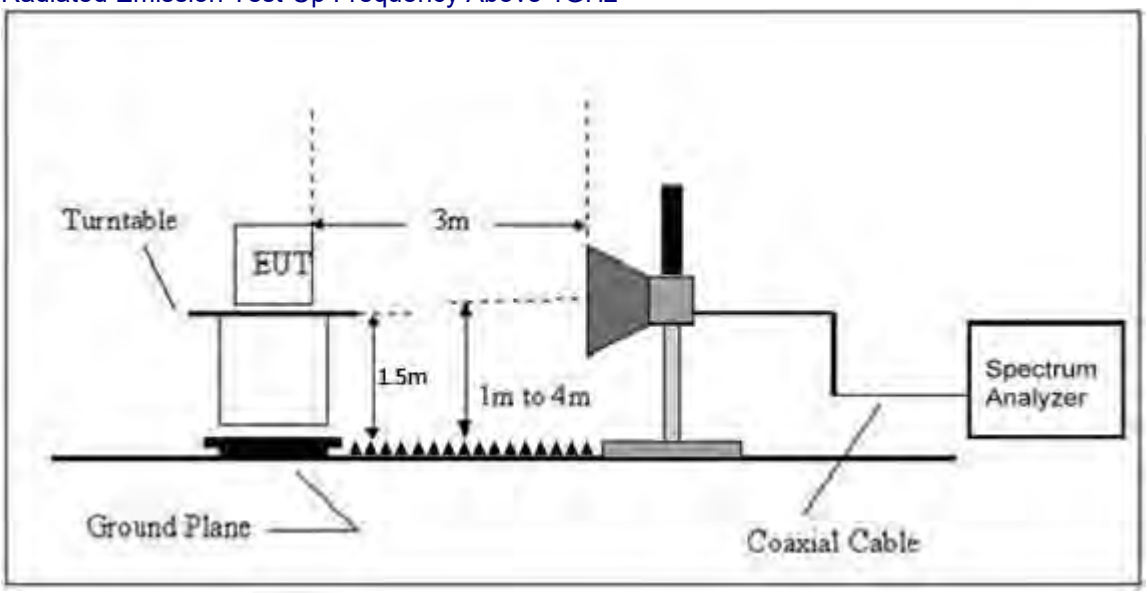
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

## 5.3 DEVIATION FROM TEST STANDARD

No deviation

## 5.4 TEST SETUP

Radiated Emission Test-Up Frequency Above 1GHz




## 5.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

5.6 TEST RESULT

| | Polar (H/V) | Frequency (MHz) | Meter Reading (dBuV) | Pre-amplifier (dB) | Cable Loss (dB) | Antenna Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m) | Detector Type | Result |
|---|---|---|---|---|---|---|---|---|---|---|
| GFSK | Low Channel: 2402MHz | | | | | | | | | |
| | H | 2390.00 | 53.82 | 30.22 | 4.85 | 23.98 | 53.26 | 74.00 | Pk | PASS |
| | H | 2390.00 | 44.71 | 30.22 | 4.85 | 23.98 | 43.32 | 54.00 | AV | PASS |
| | H | 2400.00 | 53.51 | 30.22 | 4.85 | 23.98 | 52.12 | 74.00 | Pk | PASS |
| | H | 2400.00 | 44.76 | 30.22 | 4.85 | 23.98 | 43.37 | 54.00 | AV | PASS |
| | V | 2390.00 | 54.55 | 30.22 | 4.85 | 23.98 | 53.16 | 74.00 | Pk | PASS |
| | V | 2390.00 | 44.38 | 30.22 | 4.85 | 23.98 | 42.99 | 54.00 | AV | PASS |
| | V | 2400.00 | 53.69 | 30.22 | 4.85 | 23.98 | 52.30 | 74.00 | Pk | PASS |
| | V | 2400.00 | 44.67 | 30.22 | 4.85 | 23.98 | 43.28 | 54.00 | AV | PASS |
| | High Channel: 2480MHz | | | | | | | | | |
| | H | 2483.50 | 53.87 | 30.22 | 4.85 | 23.98 | 52.48 | 74.00 | Pk | PASS |
| | H | 2483.50 | 44.59 | 30.22 | 4.85 | 23.98 | 43.20 | 54.00 | AV | PASS |
| | H | 2500.00 | 54.30 | 30.22 | 4.85 | 23.98 | 52.91 | 74.00 | Pk | PASS |
| | H | 2500.00 | 44.59 | 30.22 | 4.85 | 23.98 | 43.20 | 54.00 | AV | PASS |
| | V | 2483.50 | 53.92 | 30.22 | 4.85 | 23.98 | 52.53 | 74.00 | Pk | PASS |
| | V | 2483.50 | 44.69 | 30.22 | 4.85 | 23.98 | 43.30 | 54.00 | AV | PASS |
| | V | 2500.00 | 54.69 | 30.22 | 4.85 | 23.98 | 53.30 | 74.00 | Pk | PASS |
| | V | 2500.00 | 44.04 | 30.22 | 4.85 | 23.98 | 42.65 | 54.00 | AV | PASS |
| π/4-DQPSK | Low Channel: 2402MHz | | | | | | | | | |
| | H | 2390.00 | 54.66 | 30.22 | 4.85 | 23.98 | 53.27 | 74.00 | Pk | PASS |
| | H | 2390.00 | 44.89 | 30.22 | 4.85 | 23.98 | 43.50 | 54.00 | AV | PASS |
| | H | 2400.00 | 54.59 | 30.22 | 4.85 | 23.98 | 53.20 | 74.00 | Pk | PASS |
| | H | 2400.00 | 44.58 | 30.22 | 4.85 | 23.98 | 43.19 | 54.00 | AV | PASS |
| | V | 2390.00 | 54.60 | 30.22 | 4.85 | 23.98 | 53.21 | 74.00 | Pk | PASS |
| | V | 2390.00 | 44.21 | 30.22 | 4.85 | 23.98 | 42.82 | 54.00 | AV | PASS |
| | V | 2400.00 | 53.63 | 30.22 | 4.85 | 23.98 | 52.24 | 74.00 | Pk | PASS |
| | V | 2400.00 | 44.40 | 30.22 | 4.85 | 23.98 | 43.01 | 54.00 | AV | PASS |
| | High Channel: 2480MHz | | | | | | | | | |
| | H | 2483.50 | 54.69 | 30.22 | 4.85 | 23.98 | 53.30 | 74.00 | Pk | PASS |
| | H | 2483.50 | 44.29 | 30.22 | 4.85 | 23.98 | 42.90 | 54.00 | AV | PASS |
| | H | 2500.00 | 53.92 | 30.22 | 4.85 | 23.98 | 52.53 | 74.00 | Pk | PASS |
| | H | 2500.00 | 44.11 | 30.22 | 4.85 | 23.98 | 42.72 | 54.00 | AV | PASS |
| | V | 2483.50 | 54.28 | 30.22 | 4.85 | 23.98 | 52.89 | 74.00 | Pk | PASS |
| | V | 2483.50 | 44.26 | 30.22 | 4.85 | 23.98 | 42.87 | 54.00 | AV | PASS |
| | V | 2500.00 | 54.73 | 30.22 | 4.85 | 23.98 | 53.34 | 74.00 | Pk | PASS |
| | V | 2500.00 | 44.02 | 30.22 | 4.85 | 23.98 | 42.63 | 54.00 | AV | PASS |
| 8-DPSK | Low Channel: 2402MHz | | | | | | | | | |
| | H | 2390.00 | 54.75 | 30.22 | 4.85 | 23.98 | 53.36 | 74.00 | Pk | PASS |
| | H | 2390.00 | 44.88 | 30.22 | 4.85 | 23.98 | 43.49 | 54.00 | AV | PASS |
| | H | 2400.00 | 54.66 | 30.22 | 4.85 | 23.98 | 53.27 | 74.00 | Pk | PASS |
| | H | 2400.00 | 44.51 | 30.22 | 4.85 | 23.98 | 43.12 | 54.00 | AV | PASS |
| | V | 2390.00 | 53.56 | 30.22 | 4.85 | 23.98 | 52.17 | 74.00 | Pk | PASS |
| | V | 2390.00 | 44.94 | 30.22 | 4.85 | 23.98 | 43.55 | 54.00 | AV | PASS |
| | V | 2400.00 | 54.82 | 30.22 | 4.85 | 23.98 | 53.43 | 74.00 | Pk | PASS |
| | V | 2400.00 | 44.28 | 30.22 | 4.85 | 23.98 | 42.89 | 54.00 | AV | PASS |
| | High Channel: 2480MHz | | | | | | | | | |
| | H | 2483.50 | 53.05 | 30.22 | 4.85 | 23.98 | 51.66 | 74.00 | Pk | PASS |
| | H | 2483.50 | 44.61 | 30.22 | 4.85 | 23.98 | 43.22 | 54.00 | AV | PASS |
| | H | 2500.00 | 53.46 | 30.22 | 4.85 | 23.98 | 52.07 | 74.00 | Pk | PASS |
| | H | 2500.00 | 44.49 | 30.22 | 4.85 | 23.98 | 43.10 | 54.00 | AV | PASS |
| | V | 2483.50 | 53.76 | 30.22 | 4.85 | 23.98 | 52.37 | 74.00 | Pk | PASS |
| | V | 2483.50 | 44.40 | 30.22 | 4.85 | 23.98 | 43.01 | 54.00 | AV | PASS |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | V | 2500.00 | 53.06 | 30.22 | 4.85 | 23.98 | 51.67 | 74.00 | Pk | PASS |
| | V | 2500.00 | 44.25 | 30.22 | 4.85 | 23.98 | 42.86 | 54.00 | AV | PASS |

**Remark:**
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit

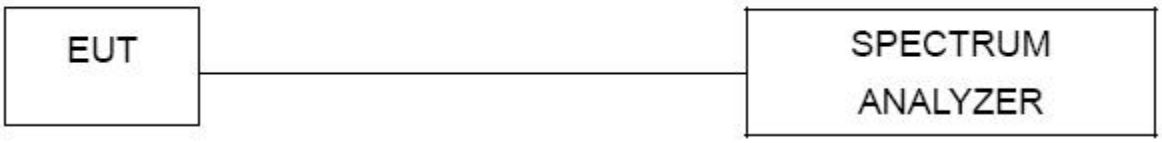
## 6. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.247 (d) |
| Test Method: | KDB558074 D0115.247 Meas Guidancev05r02 |

### 6.1 Limit

Regulation 15.247 (d),In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### 6.2 Test Setup




### 6.3 Test procedure

Using the following spectrum analyzer setting:
A) Set the RBW = 100KHz.
B) Set the VBW = 300KHz.
C) Sweep time = auto couple.
D) Detector function = peak.
E) Trace mode = max hold.
F) Allow trace to fully stabilize.

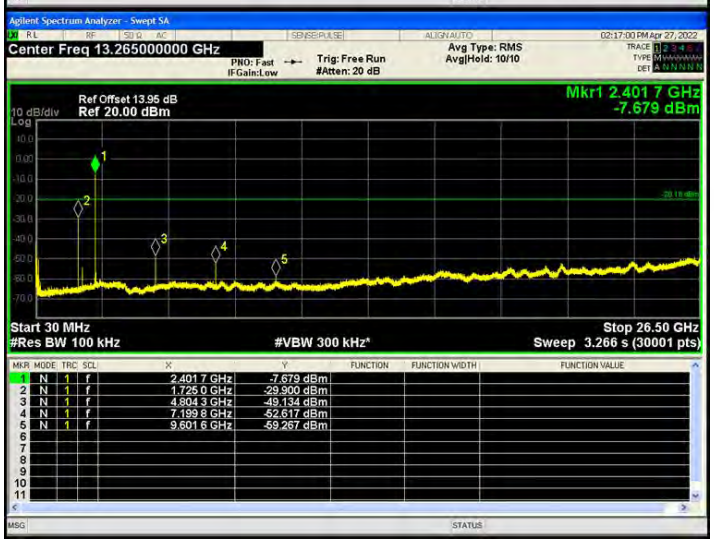
### 6.4 DEVIATION FROM STANDARD

No deviation.

## 6.5 Test Result

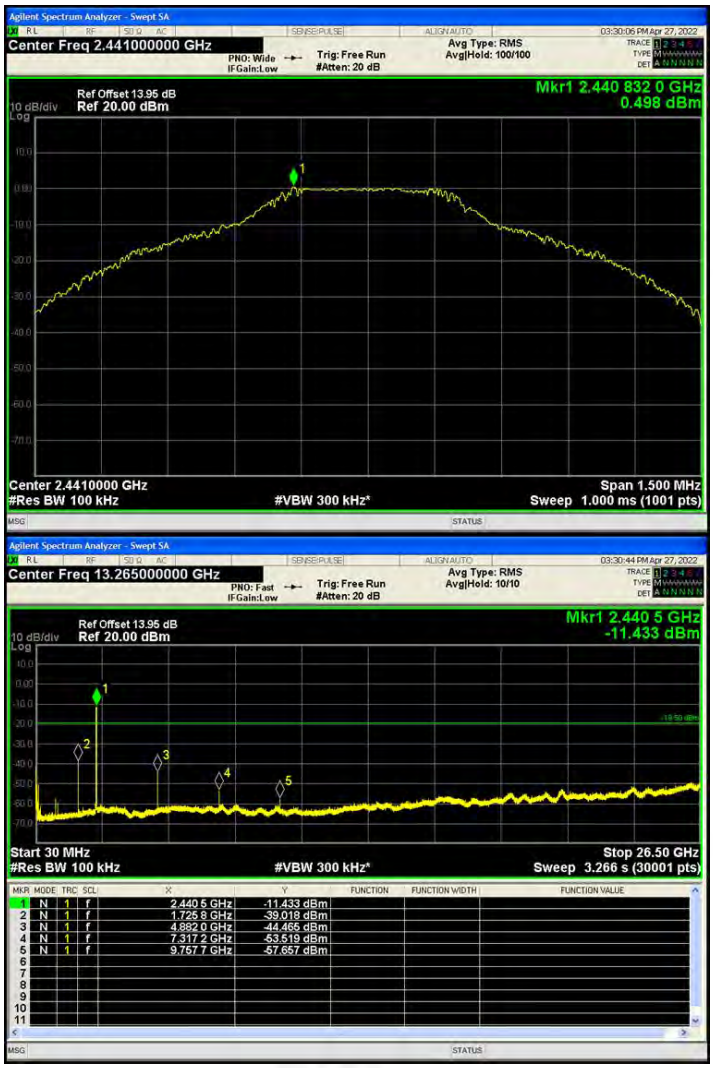
GFSK mode:

| Test channel: | Lowest channel |
|---|---|



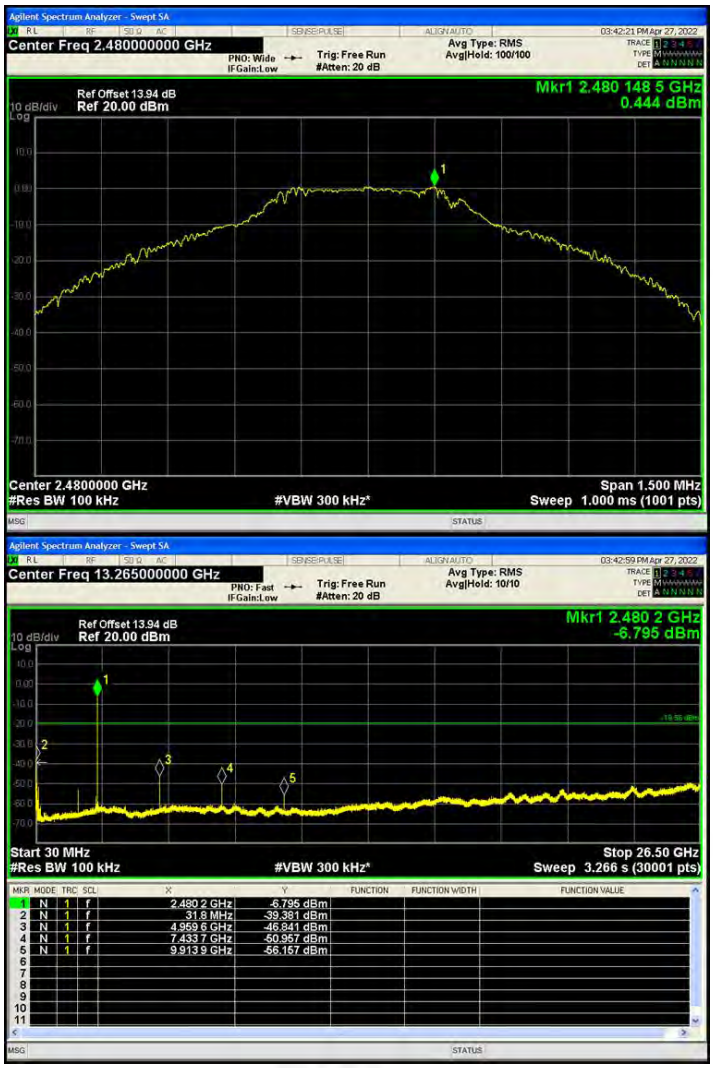

30MHz~26.5GHz

| Test channel: | Middle channel |
|---|---|




30MHz~26.5GHz

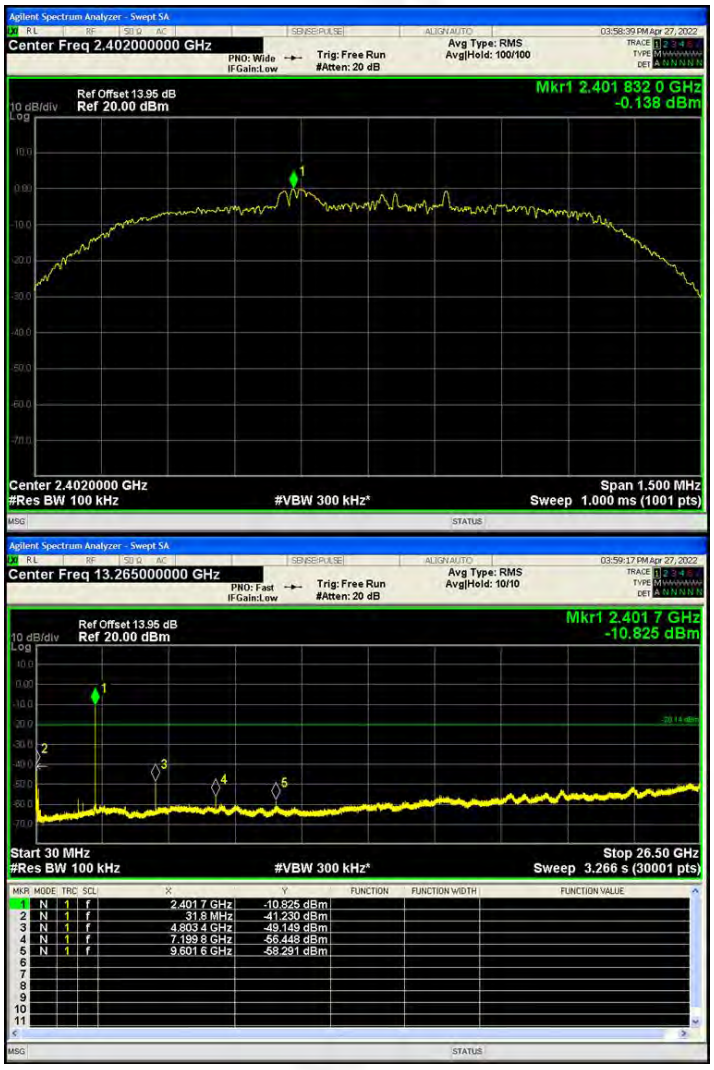
| Test channel: | Highest channel |
|---|---|




30MHz~26.5GHz

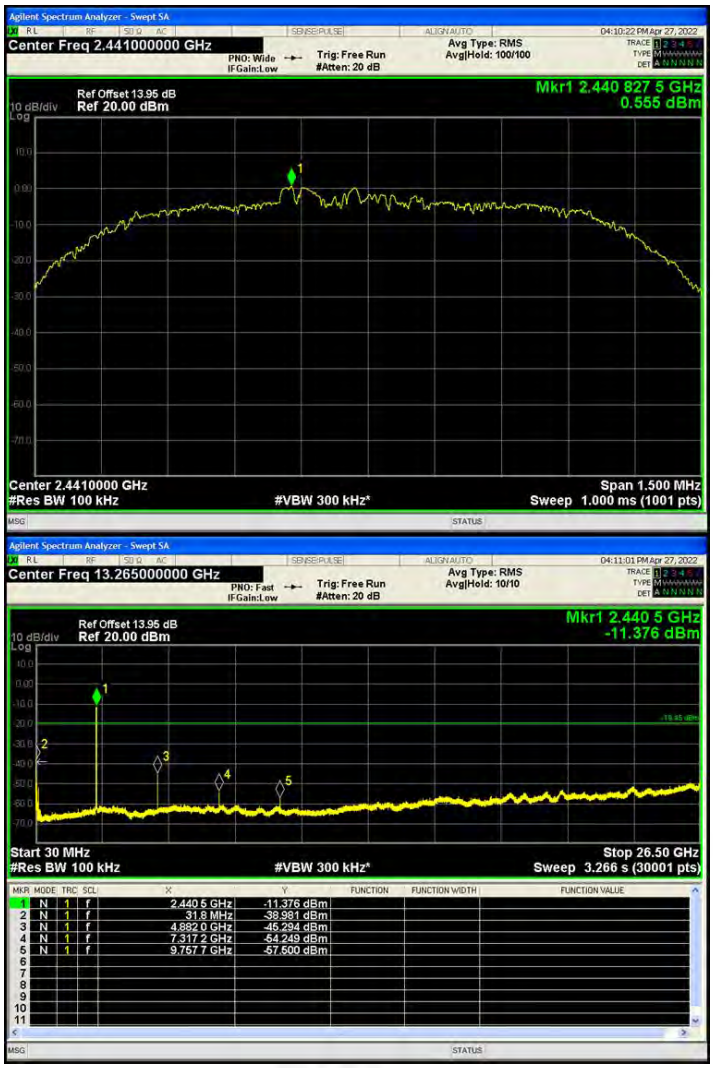
π/4-DQPSK mode:

| | |
|---|---|
| Test channel: | Lowest channel |



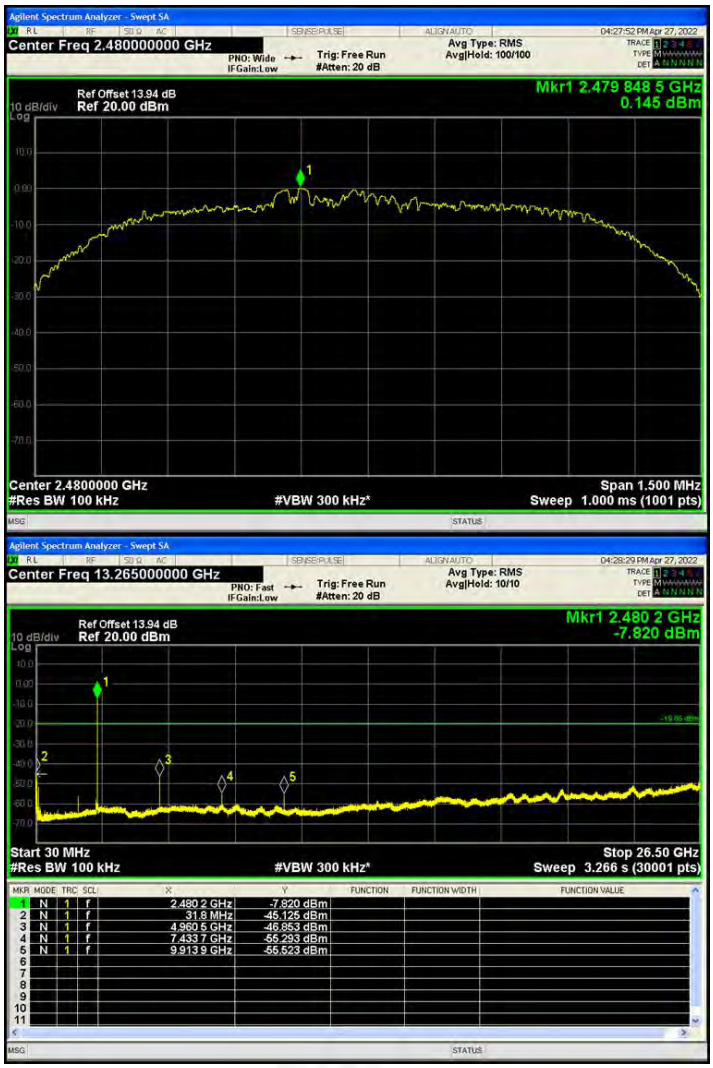

30MHz~26.5GHz

| Test channel: | Middle channel |
|---|---|




30MHz~26.5GHz

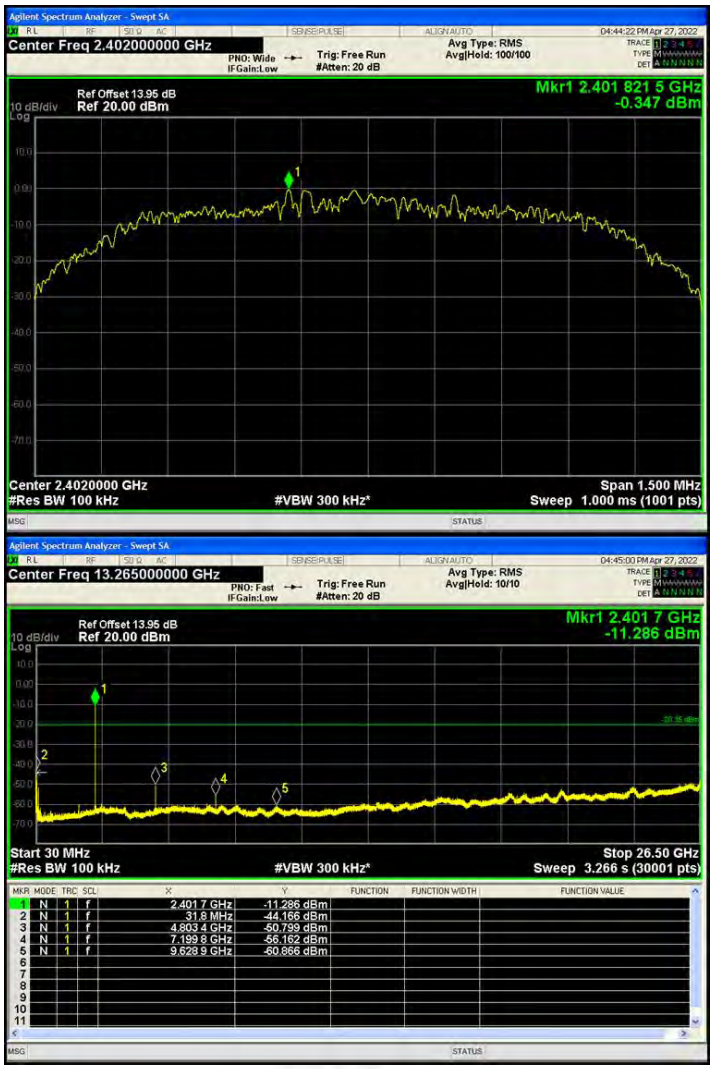
| Test channel: | Highest channel |
|---|---|




30MHz~26.5GHz

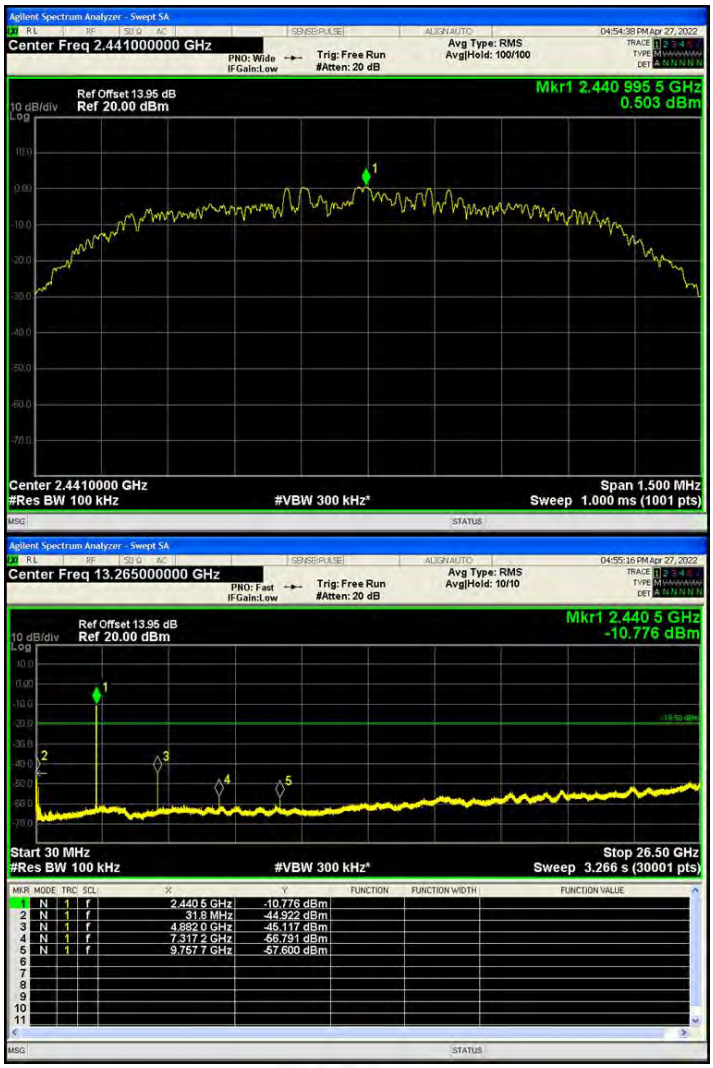
8-DPSK mode:

| Test channel: | Lowest channel |
|---|---|



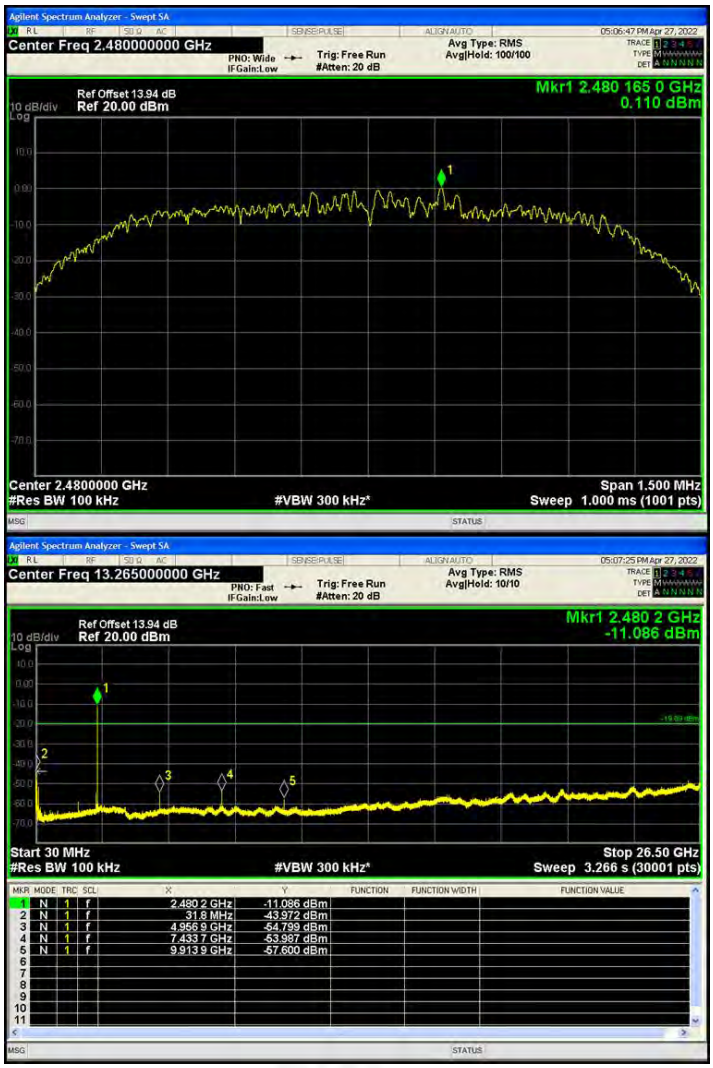

30MHz~26.5GHz

| Test channel: | Middle channel |
|---|---|



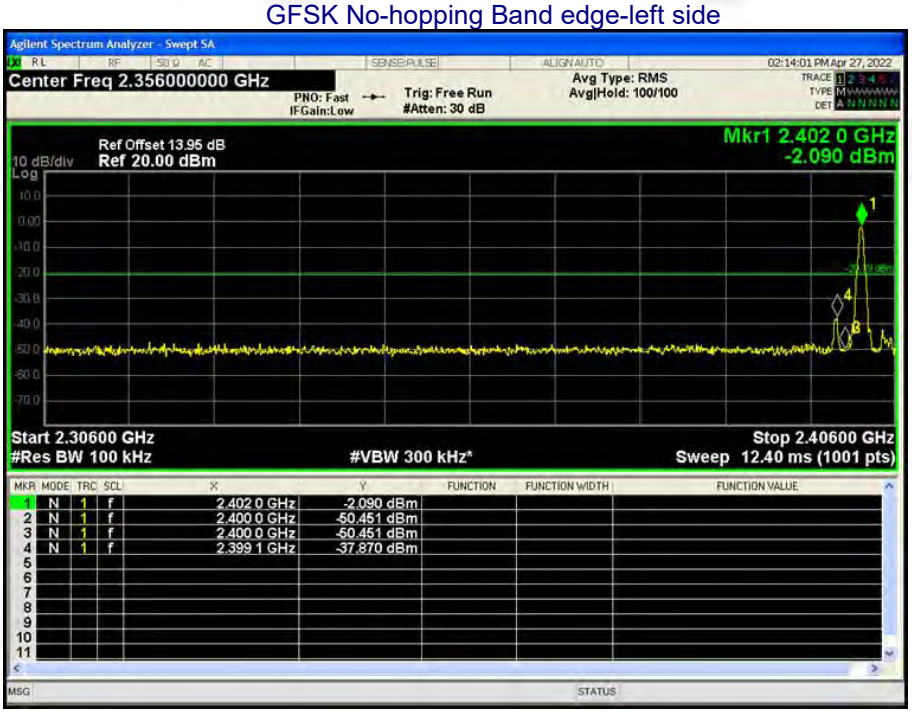

30MHz~26.5GHz

| Test channel: | Highest channel |
|---|---|

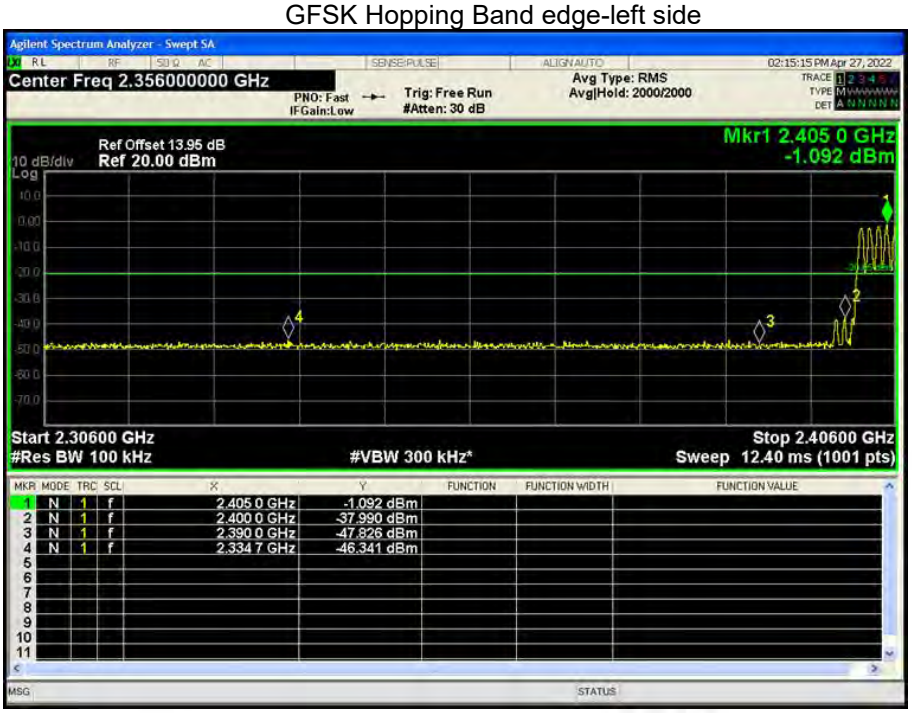



30MHz~26.5GHz

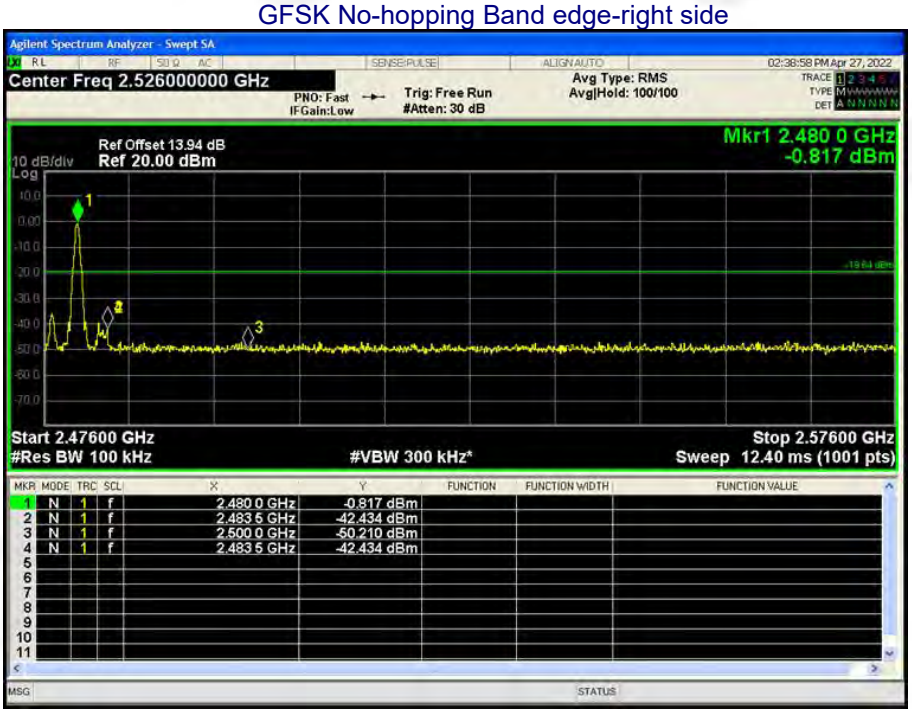
GFSK No-hopping Band edge-left side



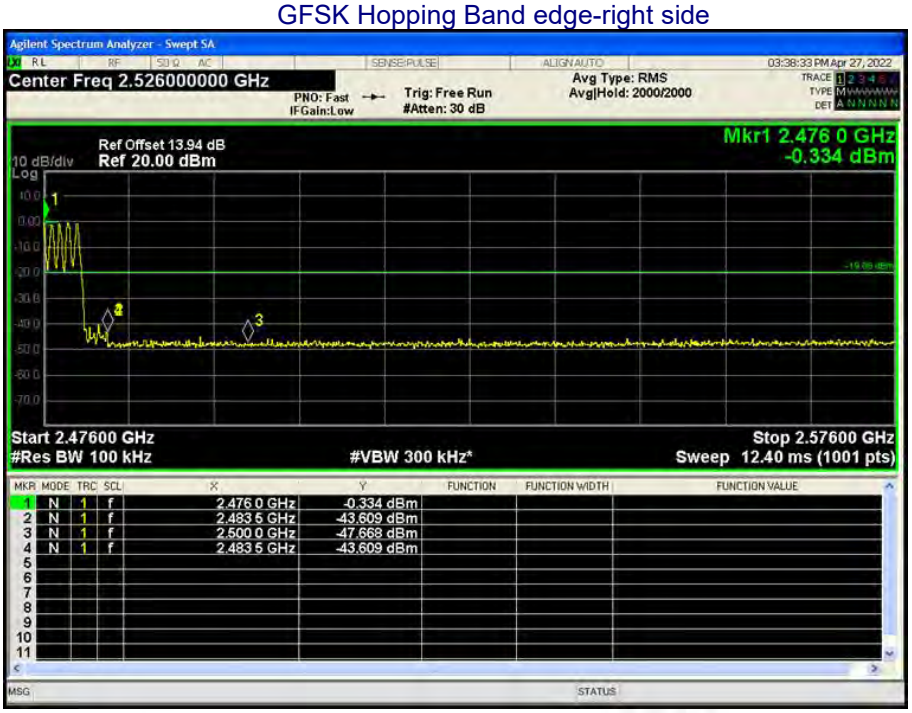

GFSK Hopping Band edge-left side



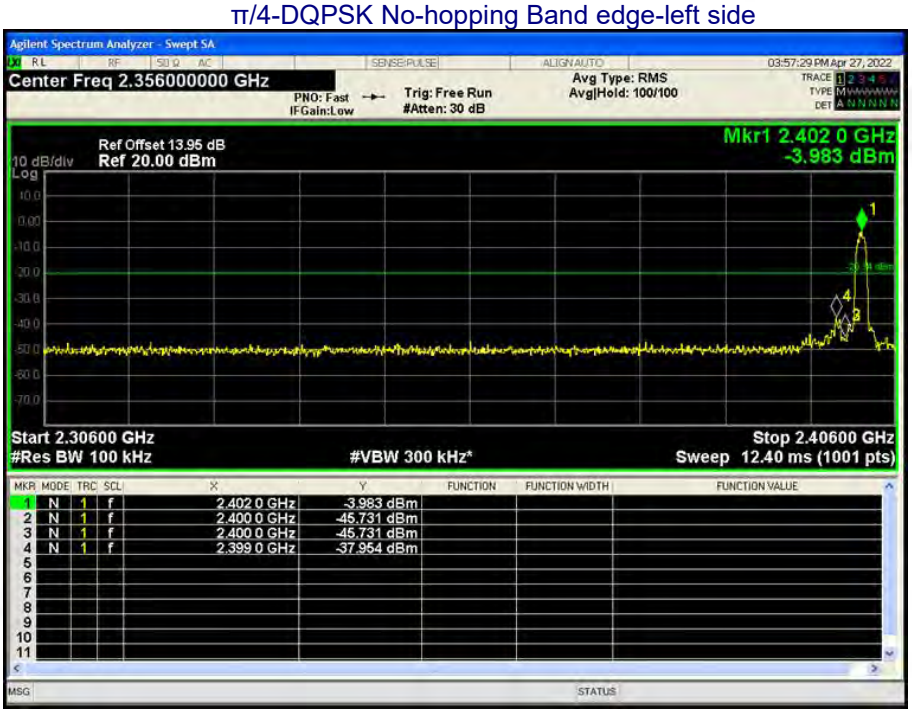
GFSK No-hopping Band edge-right side



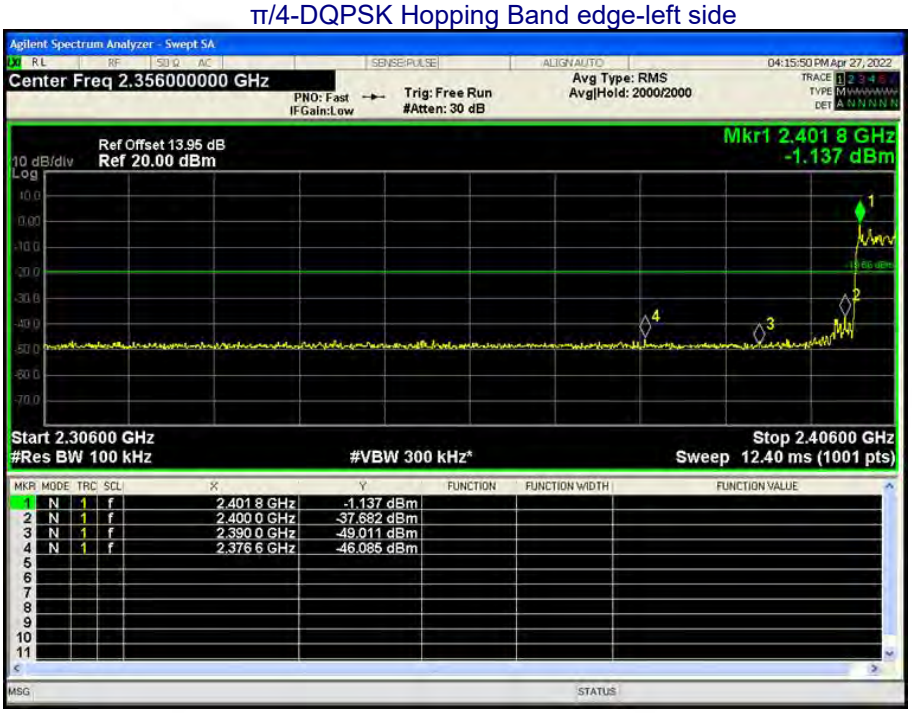

GFSK Hopping Band edge-right side



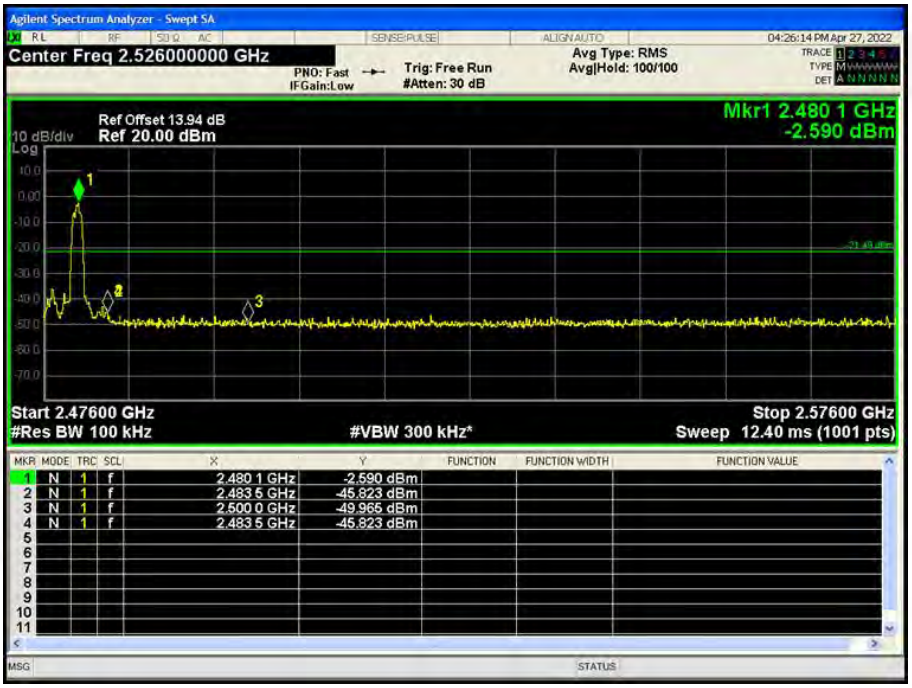
π/4-DQPSK No-hopping Band edge-left side




π/4-DQPSK Hopping Band edge-left side

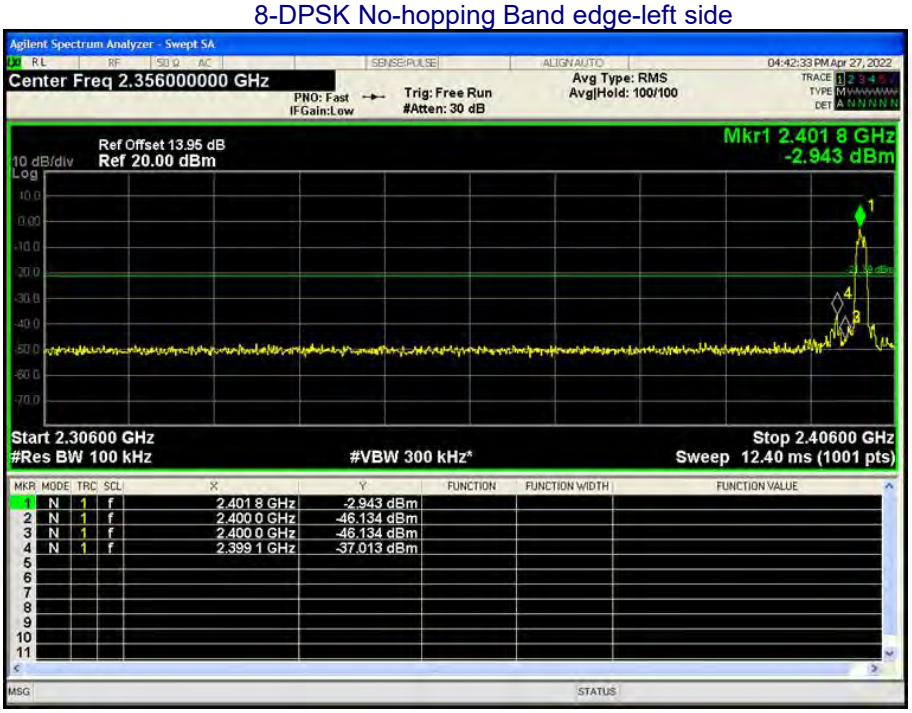


π/4-DQPSK No-hopping Band edge-right side

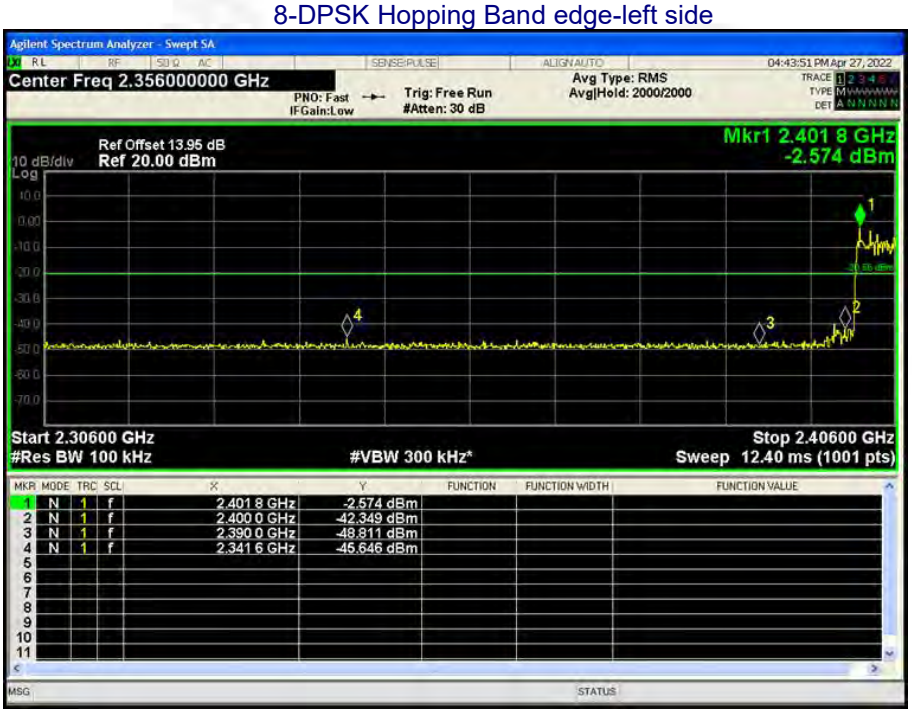



π/4-DQPSK Hopping Band edge-right side

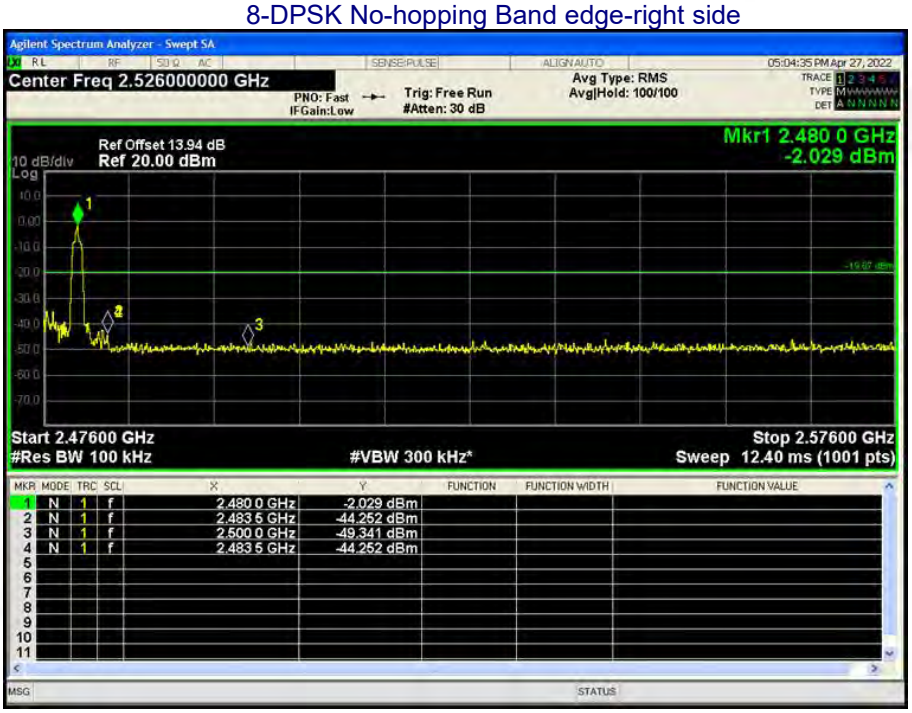
8-DPSK No-hopping Band edge-left side



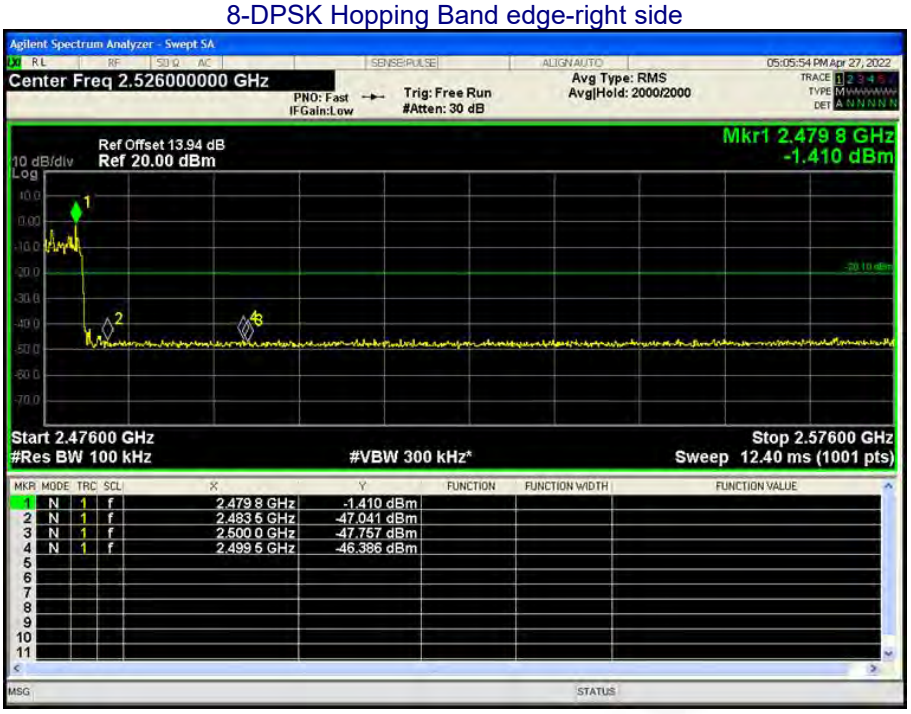

8-DPSK Hopping Band edge-left side



8-DPSK No-hopping Band edge-right side




8-DPSK Hopping Band edge-right side



## 7. 20DB&99% BANDWIDTH

| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.247 (a)(1) |
| Test Method: | ANSI C63.10:2013 |

7.1 Test Setup

7.2 Limit

N/A

7.3 Test procedure

1. Set RBW = 30 kHz.
2. Set the video bandwidth (VBW) ≥ 3 x RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.4 DEVIATION FROM STANDARD

No deviation.

7.5 Test Result

| Mode | Test channel | 20dB Emission Bandwidth (MHz) | 99%Bandwidth (MHz) | Result |
|---|---|---|---|---|
| GFSK | Lowest | 0.918 | 0.857 | Pass |
| | Middle | 0.947 | 0.866 | |
| | Highest | 0.948 | 0.861 | |
| π/4-DQPSK | Lowest | 1.307 | 1.184 | Pass |
| | Middle | 1.273 | 1.189 | |
| | Highest | 1.274 | 1.198 | |
| 8-DPSK | Lowest | 1.297 | 1.182 | Pass |
| | Middle | 1.269 | 1.176 | |
| | Highest | 1.283 | 1.181 | |

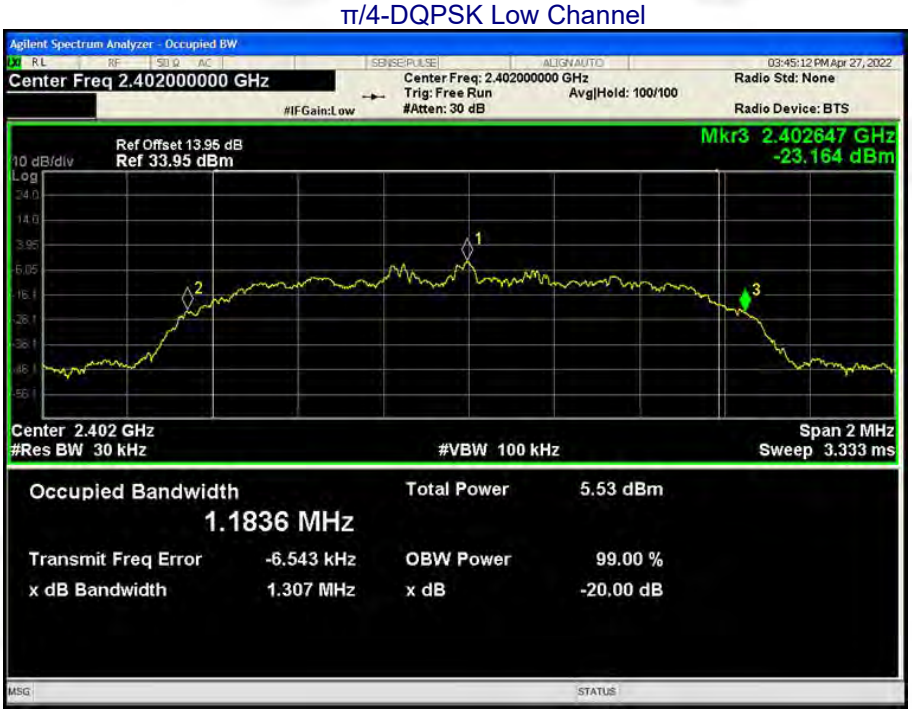
Test plots

GFSK Low Channel

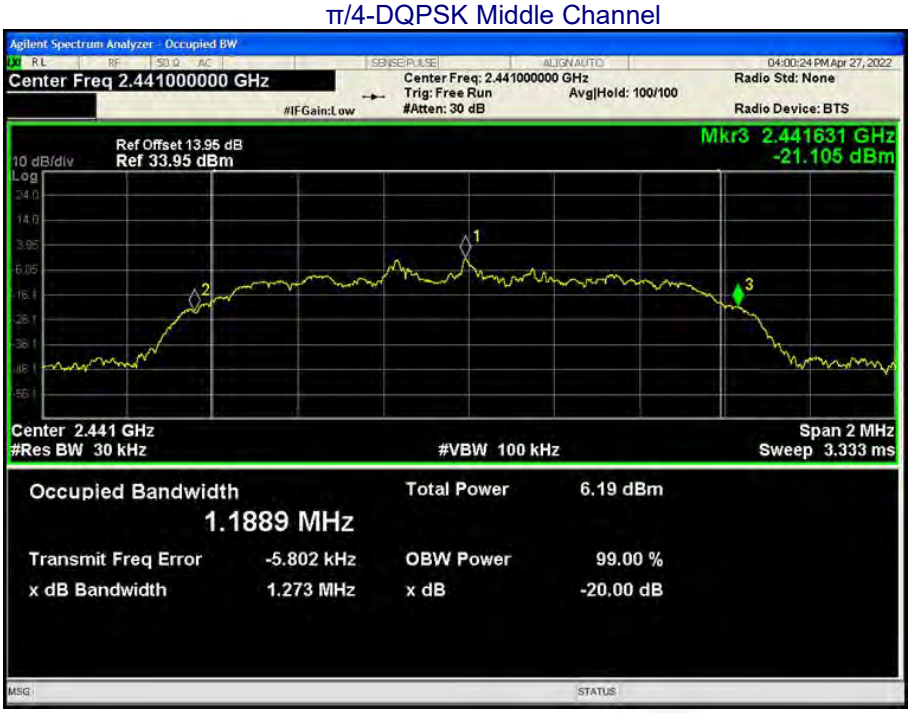
GFSK Middle Channel

GFSK High Channel

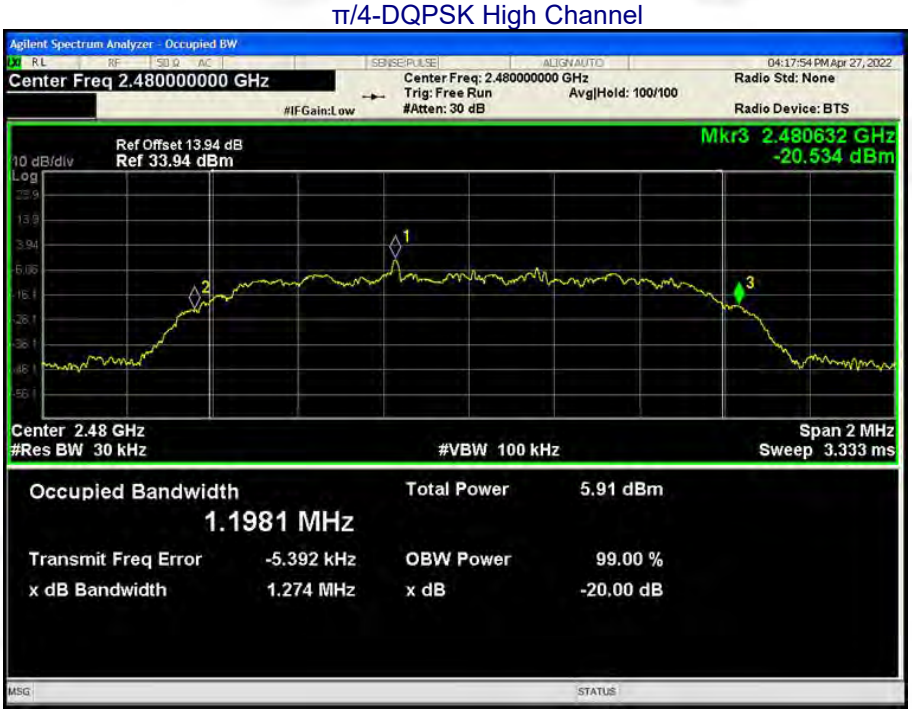
π/4-DQPSK Low Channel



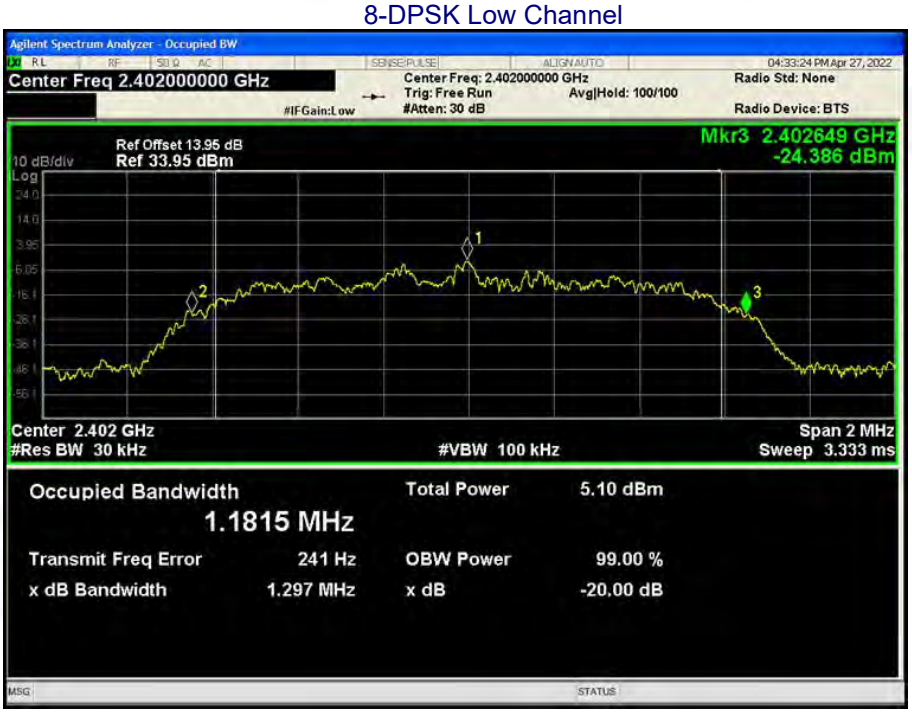

π/4-DQPSK Middle Channel



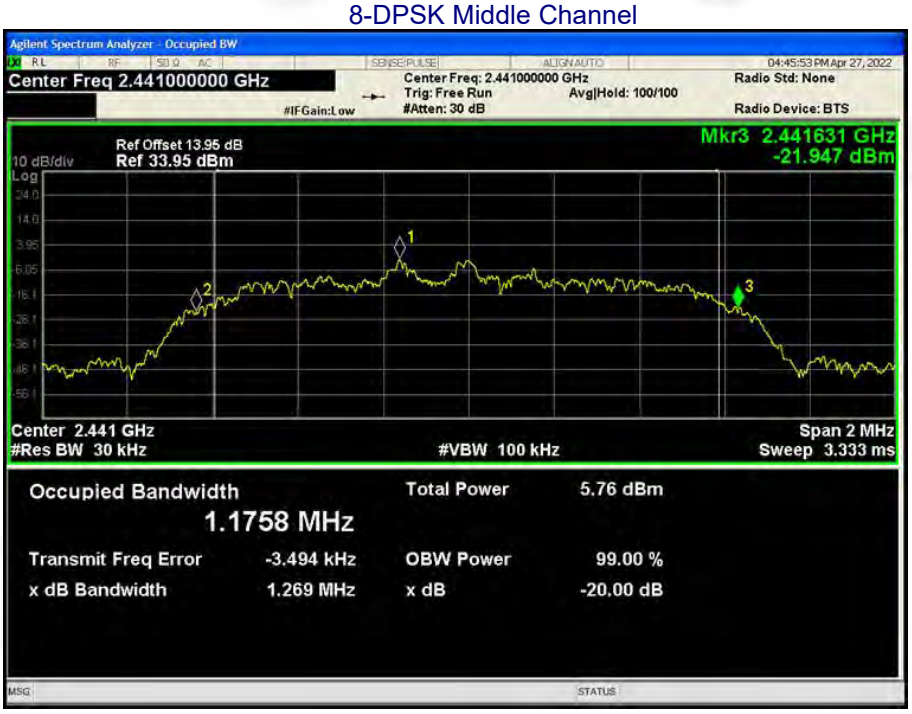
π/4-DQPSK High Channel



8-DPSK Low Channel



8-DPSK Middle Channel




8-DPSK High Channel

## 8. Maximum Peak Output Power

| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.247 (b)(1) |
| Test Method: | ANSI C63.10:2013 |
| Limit: | GFSK:30 dBm<br>π/4-DQPSK & 8-DPSK:20.97 dBm |

### 8.1 Block Diagram Of Test Setup

### 8.2 Limit

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

For FHSs operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W if the hopset uses 75 or more hopping channels; the maximum peak conducted output power shall not exceed 0.125 W if the hopset uses less than 75 hopping channels. The e.i.r.p. shall not exceed 4 W.

### 8.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 2MHz. VBW =6MHz. Sweep = auto; Detector Function = Peak.
3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

### 8.4 DEVIATION FROM STANDARD

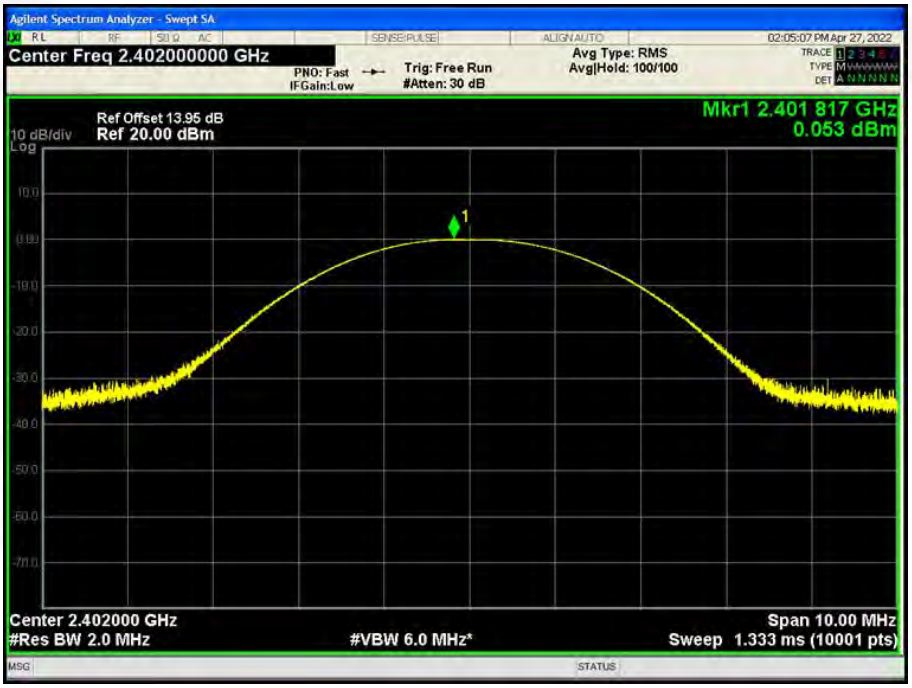
No deviation.

### 8.5 Test Result

| Mode | Test channel | Peak Output Power (dBm) | FCC Limit (dBm) | Result |
|---|---|---|---|---|
| GFSK | Lowest | 0.053 | 30.00 | Pass |
| | Middle | 0.874 | | |
| | Highest | 0.807 | | |
| π/4-DQPSK | Lowest | 0.352 | 21.00 | Pass |
| | Middle | 1.056 | | |
| | Highest | 1.414 | | |
| 8-DPSK | Lowest | 0.422 | 21.00 | Pass |
| | Middle | 1.075 | | |
| | Highest | 0.906 | | |

## Test plots

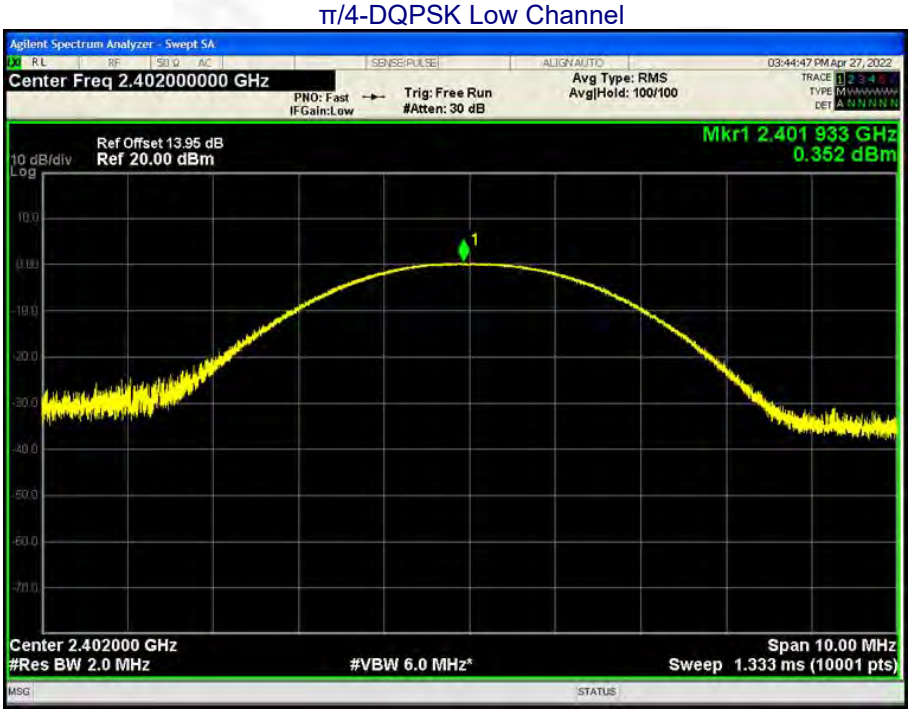
### GFSK Low Channel



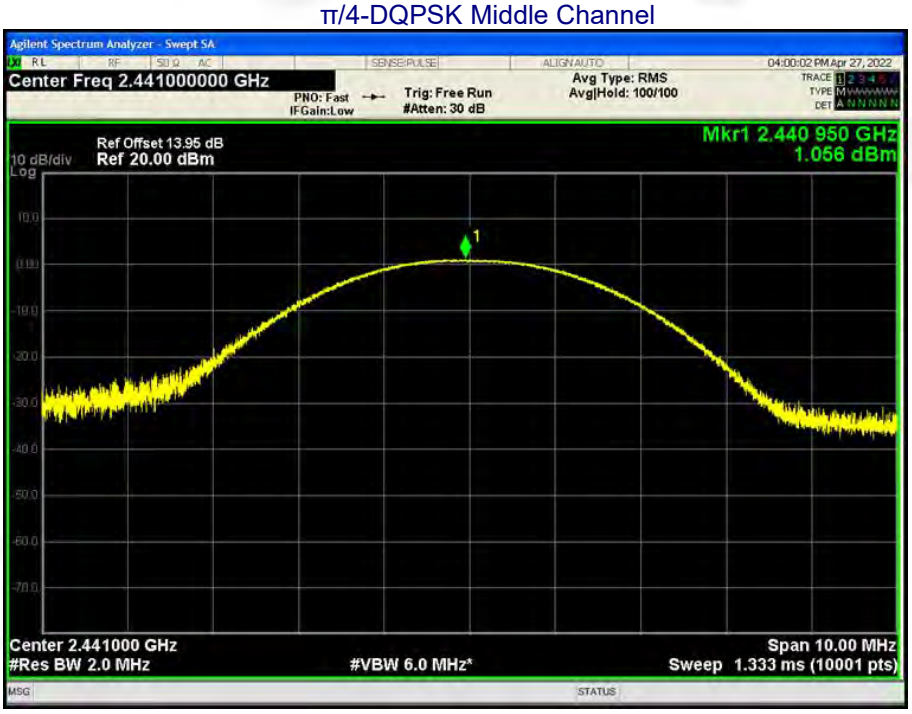

### GFSK Middle Channel

GFSK High Channel

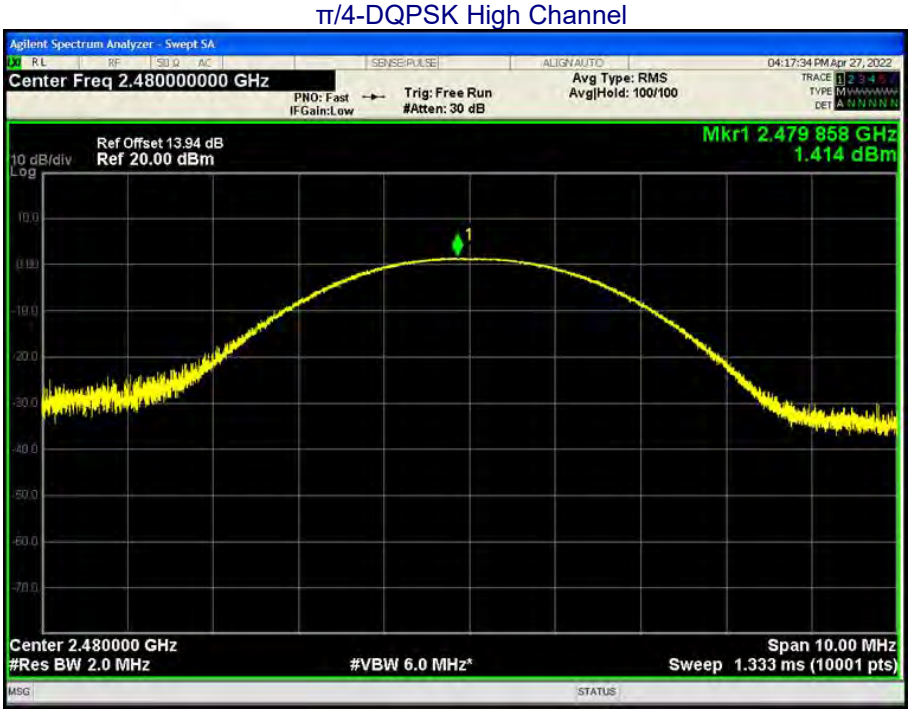
π/4-DQPSK Low Channel



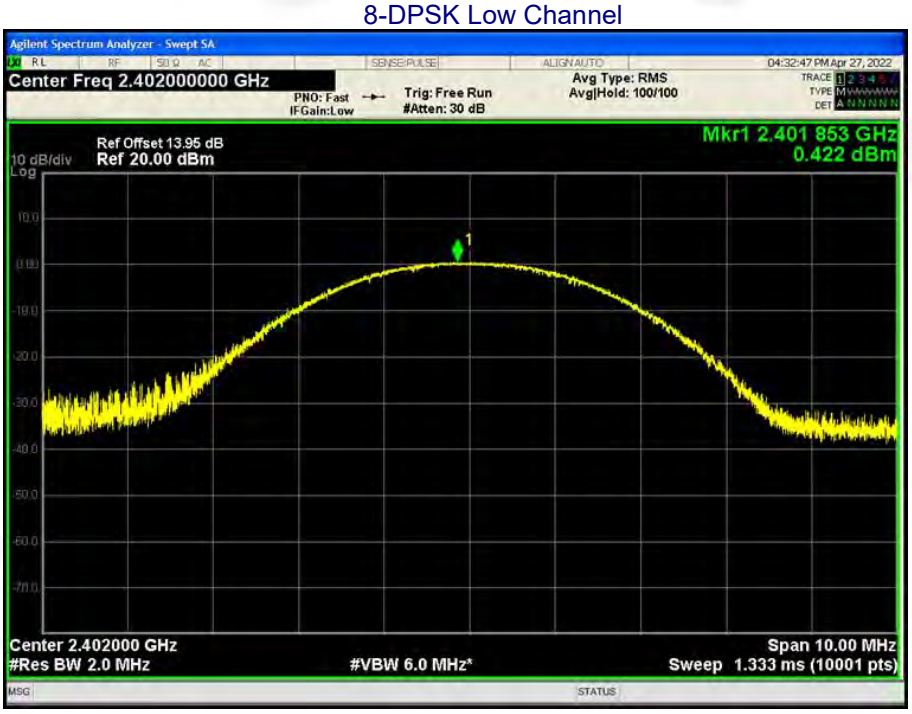
π/4-DQPSK Middle Channel



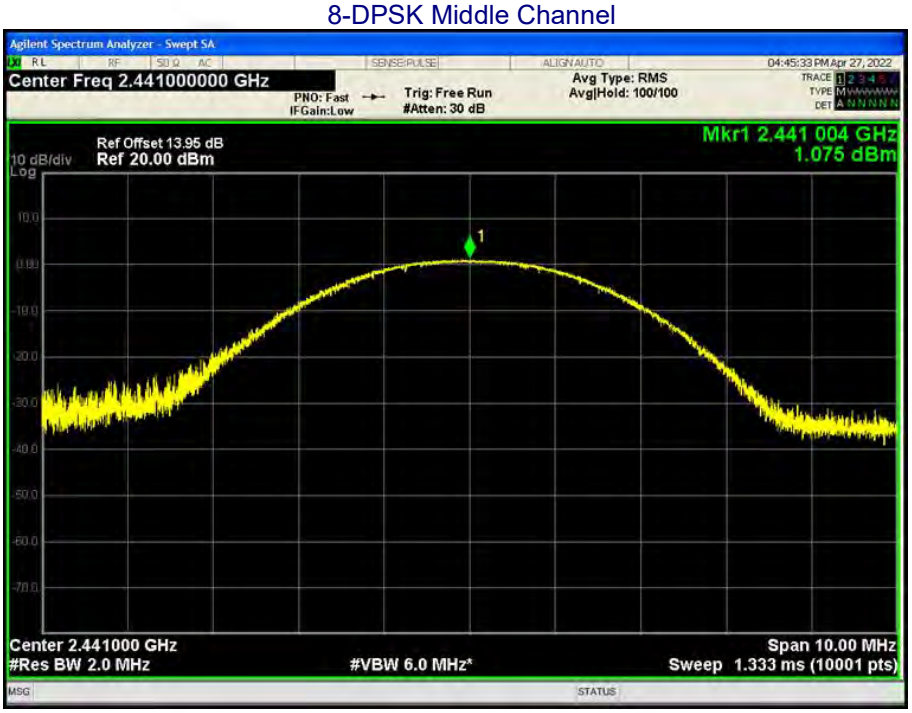

π/4-DQPSK High Channel



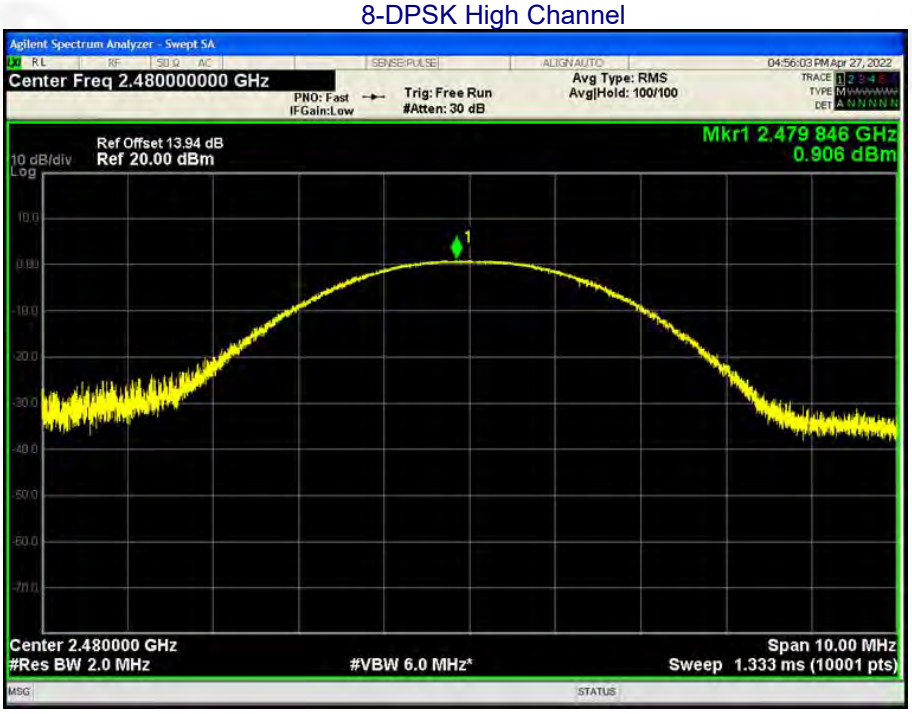
8-DPSK Low Channel




8-DPSK Middle Channel



8-DPSK High Channel



## 9. HOPPING CHANNEL SEPARATION

| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.247 (a)(1) |
| Test Method: | ANSI C63.10:2013 |
| Receiver setup: | RBW=100KHz, VBW=300KHz, detector=Peak |
| Limit: | GFSK: 20dB bandwidth<br>π/4-DQPSK & 8DSK: 0.025MHz or 2/3 of the 20dB bandwidth (whichever is greater) |

9.1 Test Setup

9.2 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set the spectrum analyzer: RBW = 30kHz. VBW = 100kHz , Span = 2.0MHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.

3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

9.3 DEVIATION FROM STANDARD

No deviation.

## 9.4 Test Result

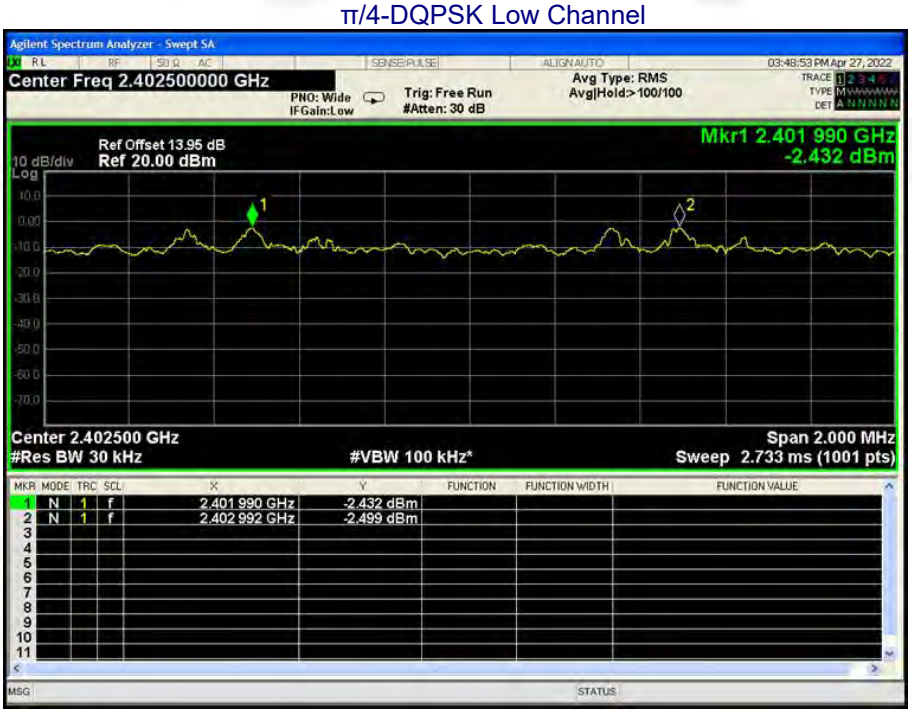
| Modulation | Test Channel | Separation (MHz) | Limit(MHz) | Result |
|---|---|---|---|---|
| GFSK | Low | 0.998 | 0.918 | PASS |
| GFSK | Middle | 1.02 | 0.947 | PASS |
| GFSK | High | 0.974 | 0.948 | PASS |
| π/4-DQPSK | Low | 1.002 | 0.871 | PASS |
| π/4-DQPSK | Middle | 0.992 | 0.849 | PASS |
| π/4-DQPSK | High | 1.004 | 0.849 | PASS |
| 8-DPSK | Low | 1.004 | 0.865 | PASS |
| 8-DPSK | Middle | 1.002 | 0.846 | PASS |
| 8-DPSK | High | 0.998 | 0.855 | PASS |

Test plots
GFSK Low Channel

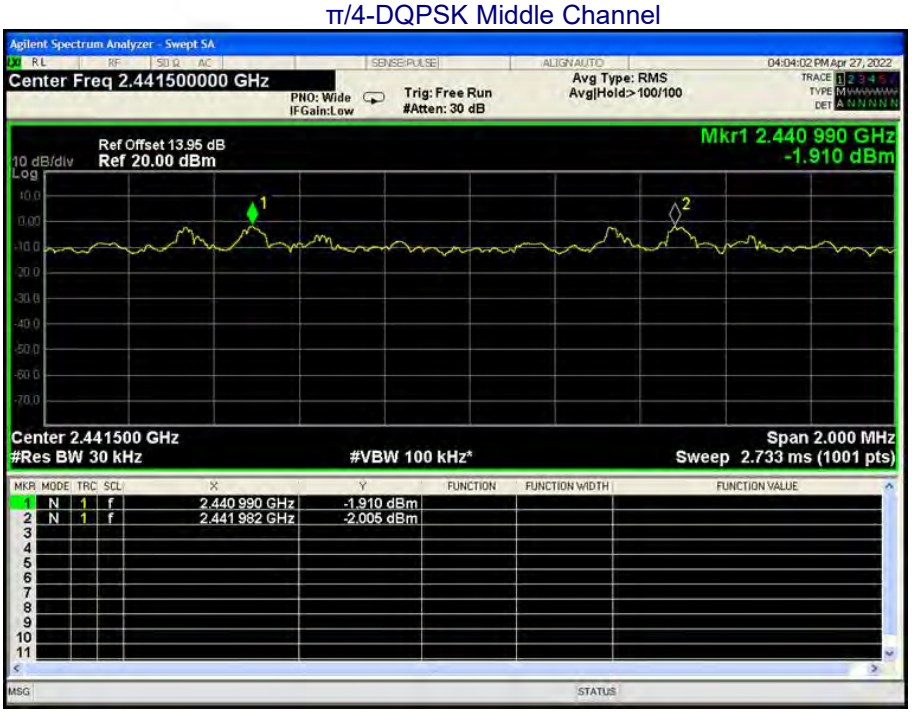
GFSK Middle Channel

GFSK High Channel

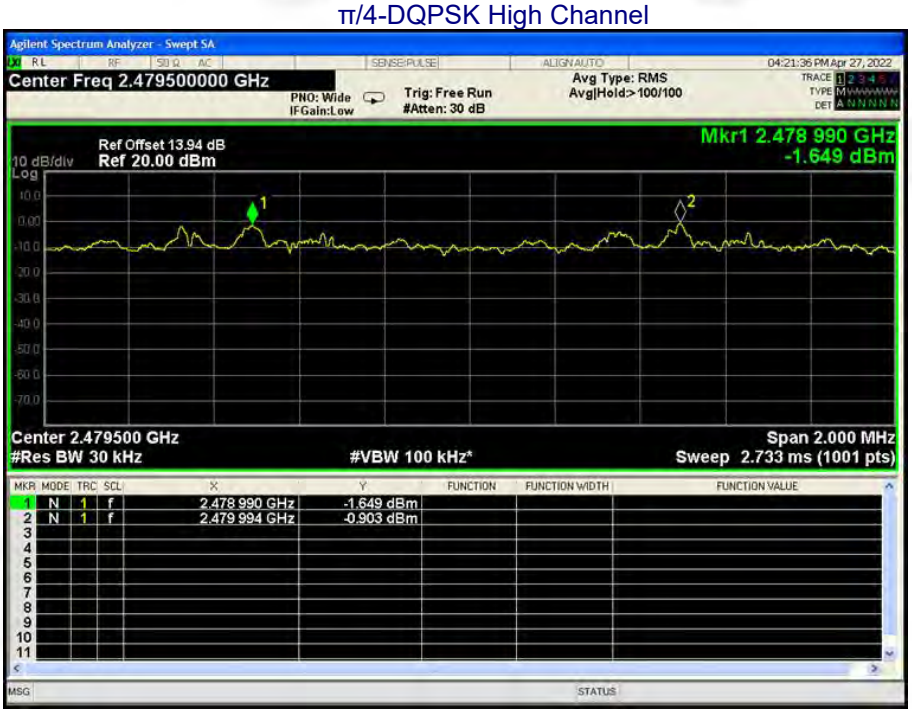
π/4-DQPSK Low Channel



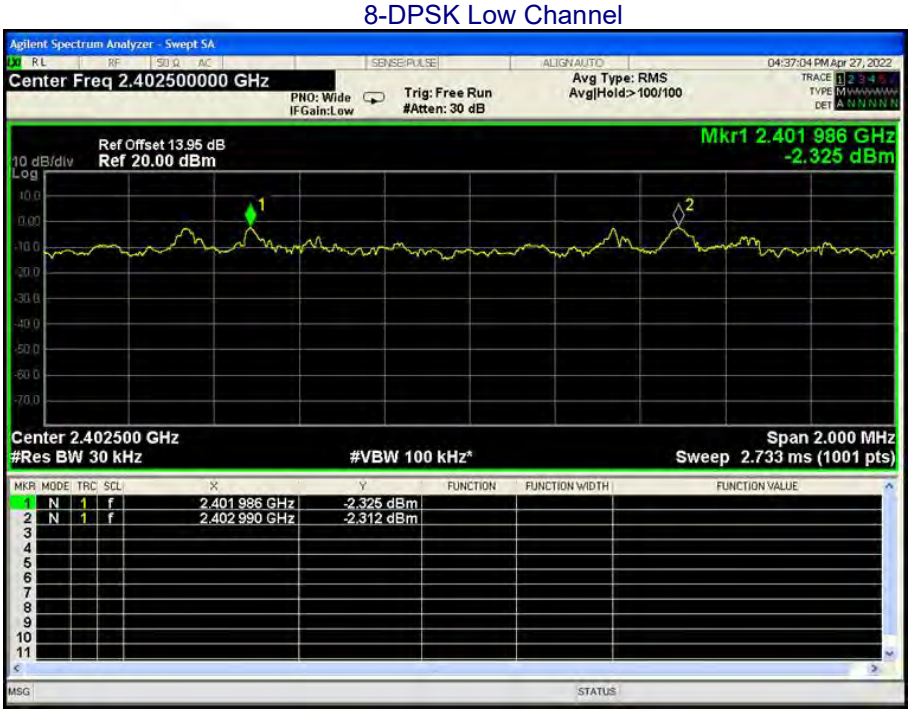

π/4-DQPSK Middle Channel



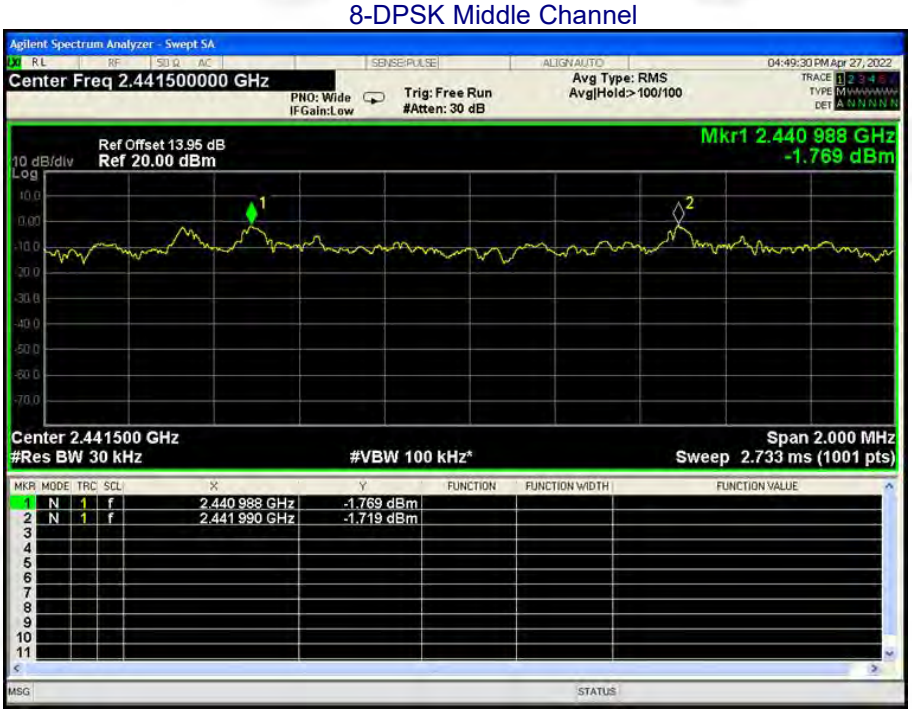
π/4-DQPSK High Channel



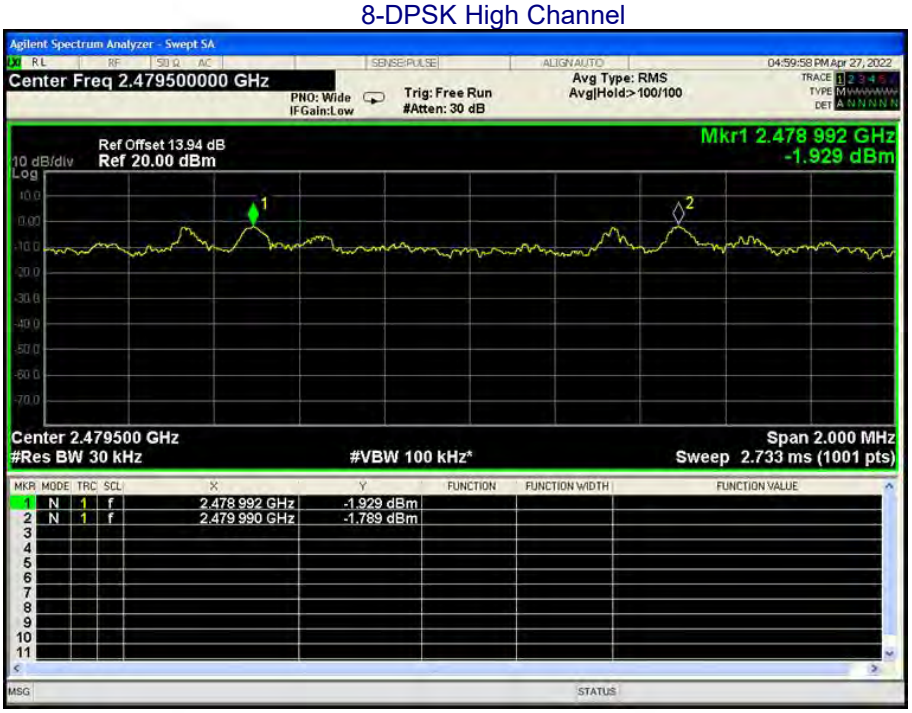

8-DPSK Low Channel



8-DPSK Middle Channel




8-DPSK High Channel



## 10.NUMBER OF HOPPING FREQUENCY

| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.247 (a)(1)(iii) |
| Test Method: | ANSI C63.10:2013 |
| Receiver setup: | RBW=100kHz, VBW=300kHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak |
| Limit: | 15 channels |

10.1 Test Setup

10.2 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set the spectrum analyzer: RBW = 100kHz. VBW = 300kHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.

3. Allow the trace to stabilize. It may prove necessary to break the span up to sections. in order to clearly show all of the hopping frequencies. The limit is specified in one of the subparagraphs of this Section.

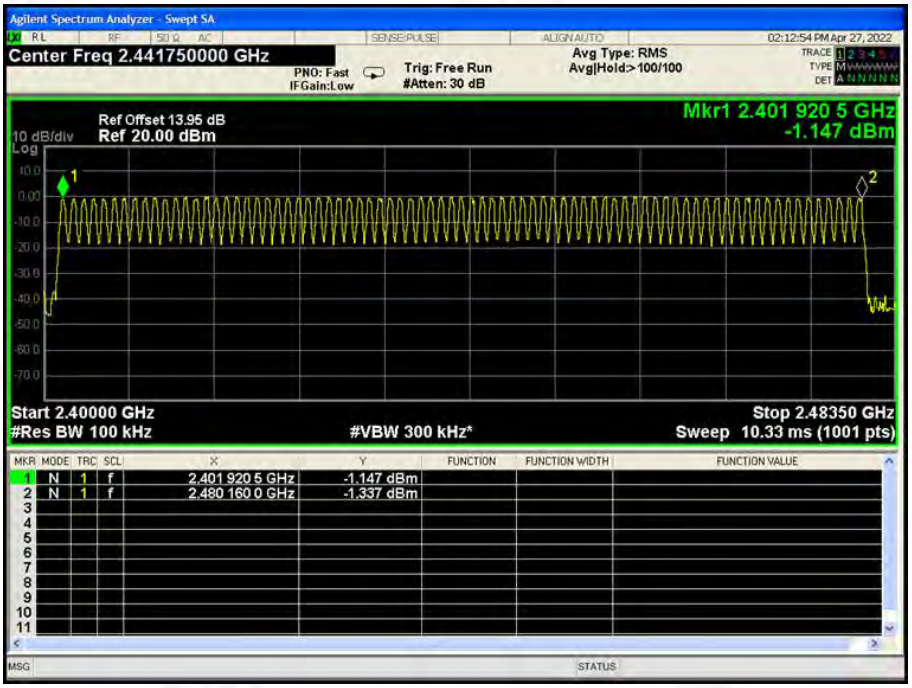
4. Set the spectrum analyzer: Start Frequency = 2.4GHz, Stop Frequency = 2.4835GHz. Sweep=auto;

10.3 DEVIATION FROM STANDARD

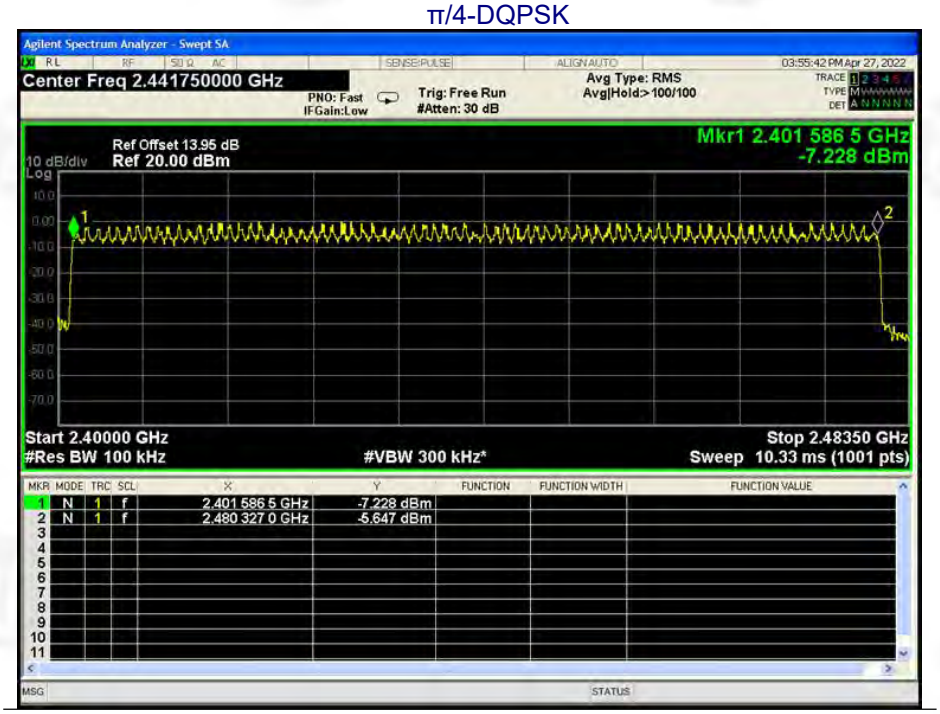
No deviation.

## 10.4 Test Result

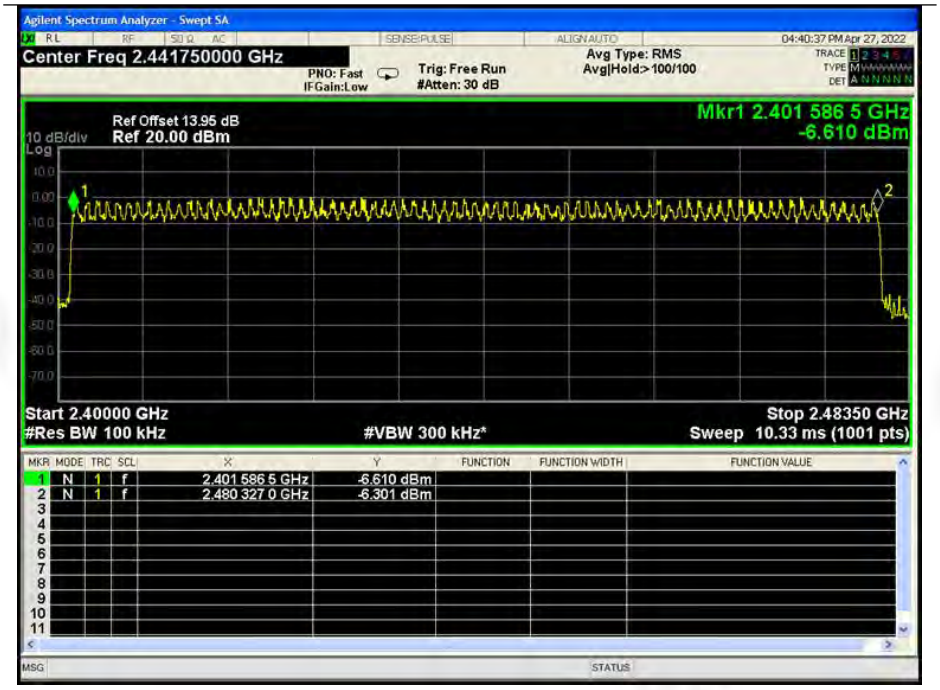
Test Plots:
79 Channels in total
GFSK



π/4-DQPSK




8-DPSK



## 11. DWELL TIME

| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.247 (a)(1)(iii) |
| Test Method: | ANSI C63.10:2013 |
| Receiver setup: | RBW=1MHz, VBW=1MHz, Span=0Hz, Detector=Peak |
| Limit: | 0.4 Second |

### 11.1 Test Setup

### 11.2 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set spectrum analyzer span = 0Hz;

3. Set RBW = 1MHz and VBW = 1MHz.Sweep = as necessary to capture the entire dwell time per hopping channel. Set the EUT for DH5, DH3 and DH1 packet transmitting.

4. Use the marker-delta function to determine the dwell time. If this value varies with different modes of operation (e.g.. data rate. modulation format. etc.). repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

### 11.3 DEVIATION FROM STANDARD

No deviation.

11.4 Test Result

GFSK mode:

| Frequency | Packet | Dwell time(ms) | Limit(ms) | Result |
|---|---|---|---|---|
| 2402MHz | DH5 | 308 | 400 | Pass |
| 2441MHz | DH5 | 308 | 400 | Pass |
| 2480MHz | DH5 | 308 | 400 | Pass |

Remarks:

The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s
Test channel: as blow
CH:2402MHz time slot=2.886(ms)*(1600/ (6*79))*31.6=308ms
CH:2441MHz time slot=2.886(ms)*(1600/ (6*79))*31.6=308ms
CH:2480MHz time slot=2.887(ms)*(1600/ (6*79))*31.6=308ms

π/4-DQPSK mode:

| Frequency | Packet | Dwell time(ms) | Limit(ms) | Result |
|---|---|---|---|---|
| 2402MHz | 2DH5 | 308 | 400 | Pass |
| 2441MHz | 2DH5 | 308 | 400 | Pass |
| 2480MHz | 2DH5 | 308 | 400 | Pass |

Remarks:

The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s
Test channel: as blow
CH:2402MHz time slot=2.891(ms)*(1600/ (6*79))*31.6=308ms
CH:2441MHz time slot=2.892(ms)*(1600/ (6*79))*31.6=308ms
CH:2480MHz time slot=2.891(ms)*(1600/ (6*79))*31.6=308ms

8-DPSK mode:

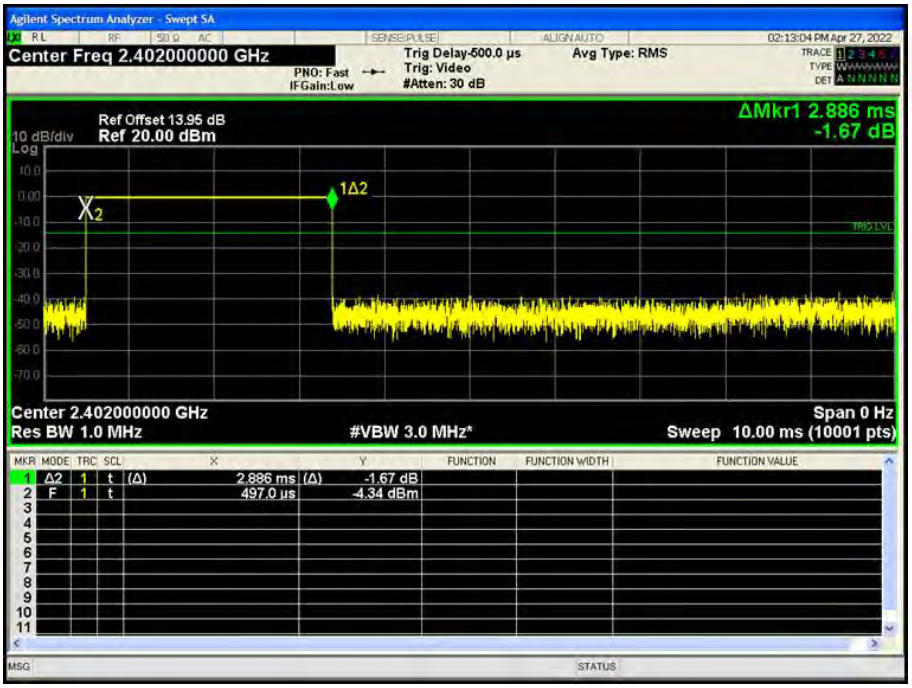
| Frequency | Packet | Dwell time(ms) | Limit(ms) | Result |
|---|---|---|---|---|
| 2402MHz | 3DH5 | 312 | 400 | Pass |
| 2441MHz | 3DH5 | 312 | 400 | Pass |
| 2480MHz | 3DH5 | 312 | 400 | Pass |

Remarks:

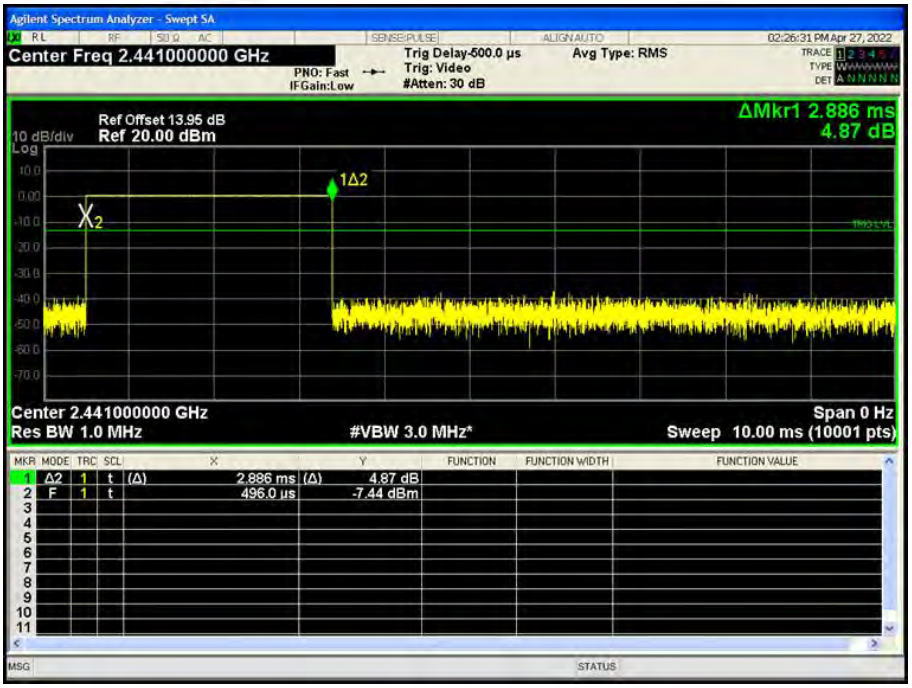
The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s
Test channel: as blow
CH:2402MHz time slot=2.921(ms)*(1600/ (6*79))*31.6=312ms
CH:2441MHz time slot=2.921(ms)*(1600/ (6*79))*31.6=312ms
CH:2480MHz time slot=2.921(ms)*(1600/ (6*79))*31.6=312ms

## Test Plots

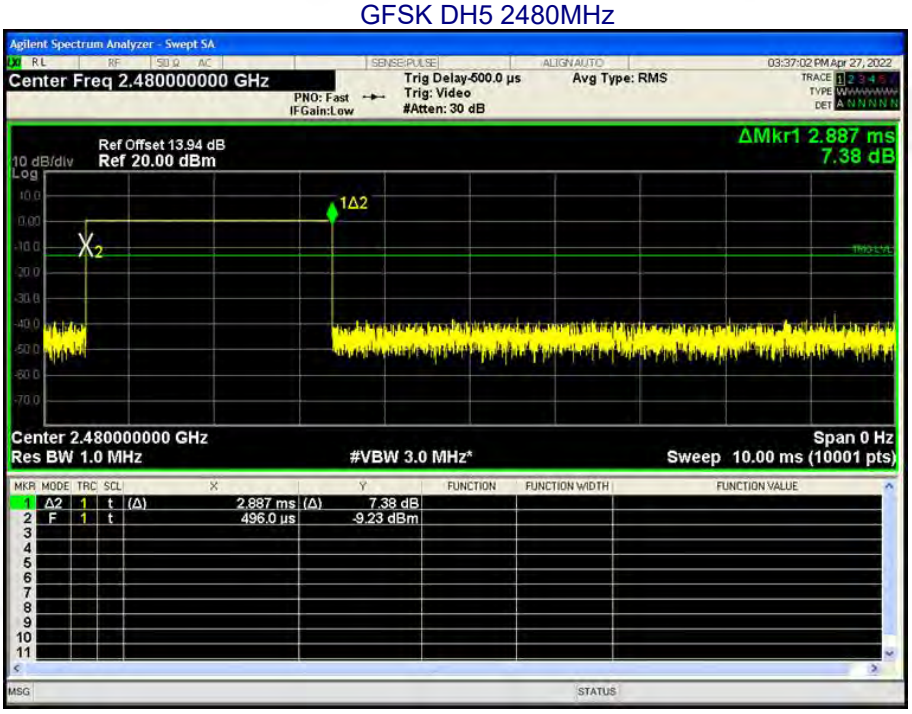
### GFSK DH5 2402MHz



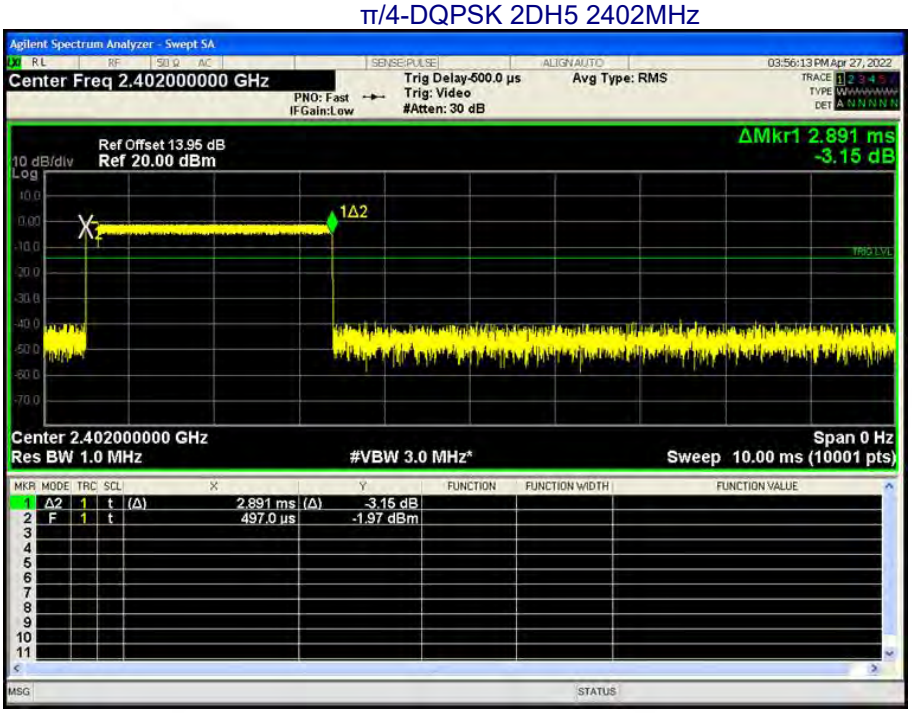

### GFSK DH5 2441MHz



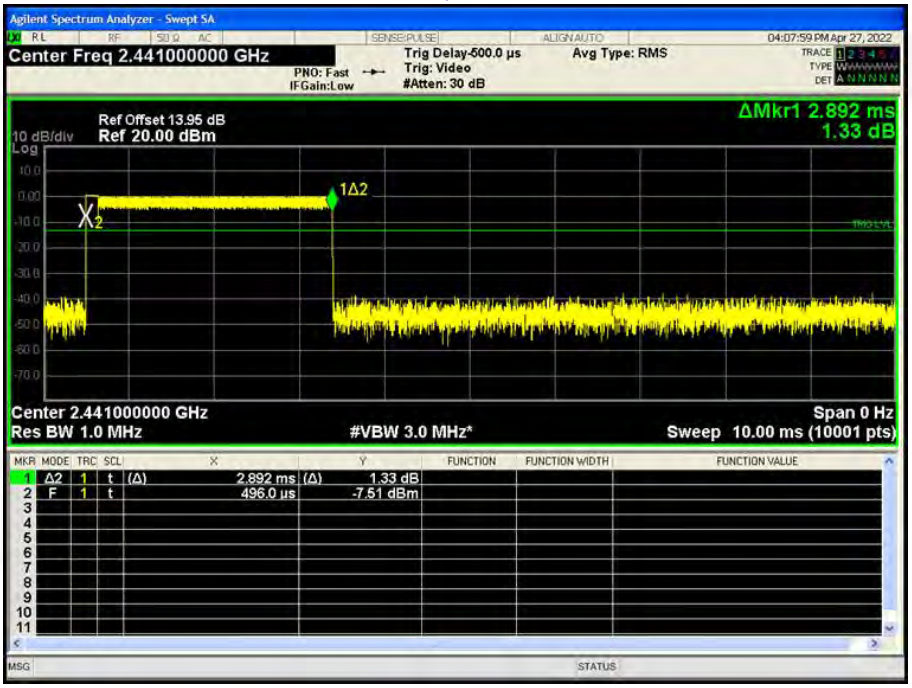
GFSK DH5 2480MHz



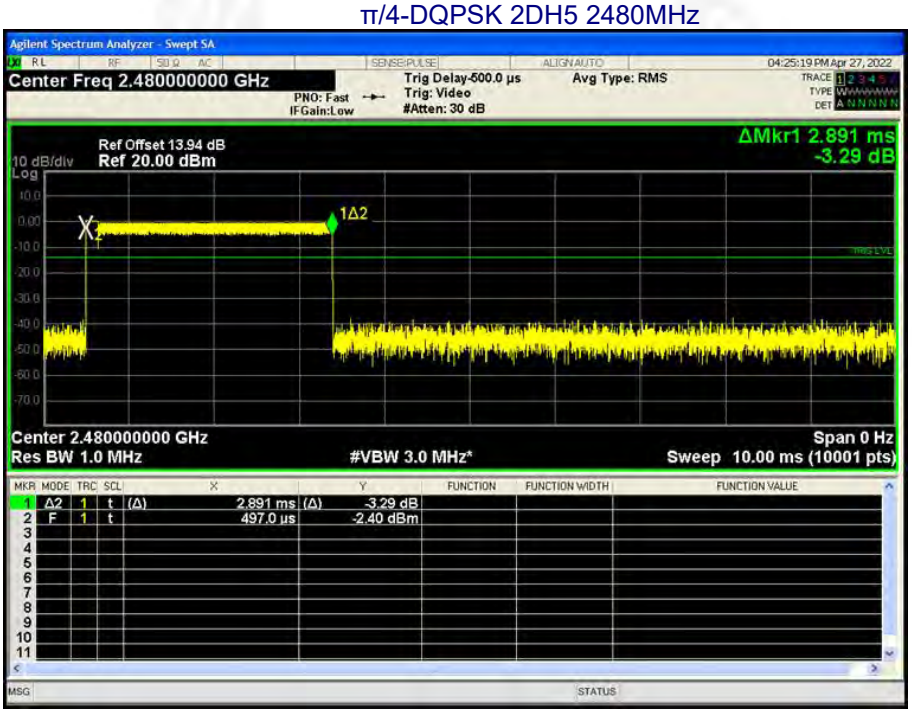

π/4-DQPSK 2DH5 2402MHz



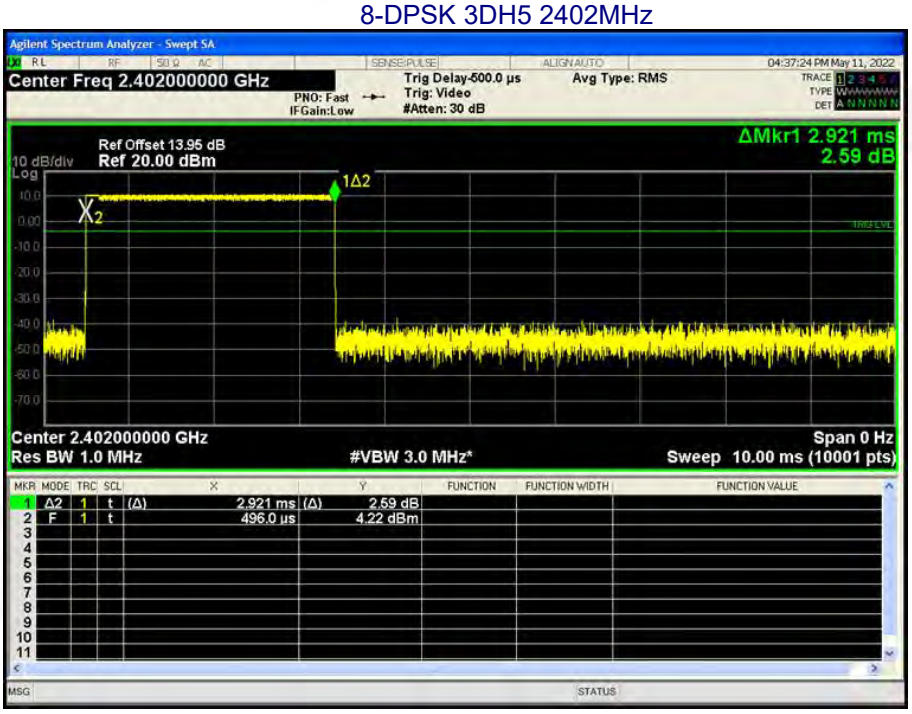
π/4-DQPSK 2DH5 2441MHz



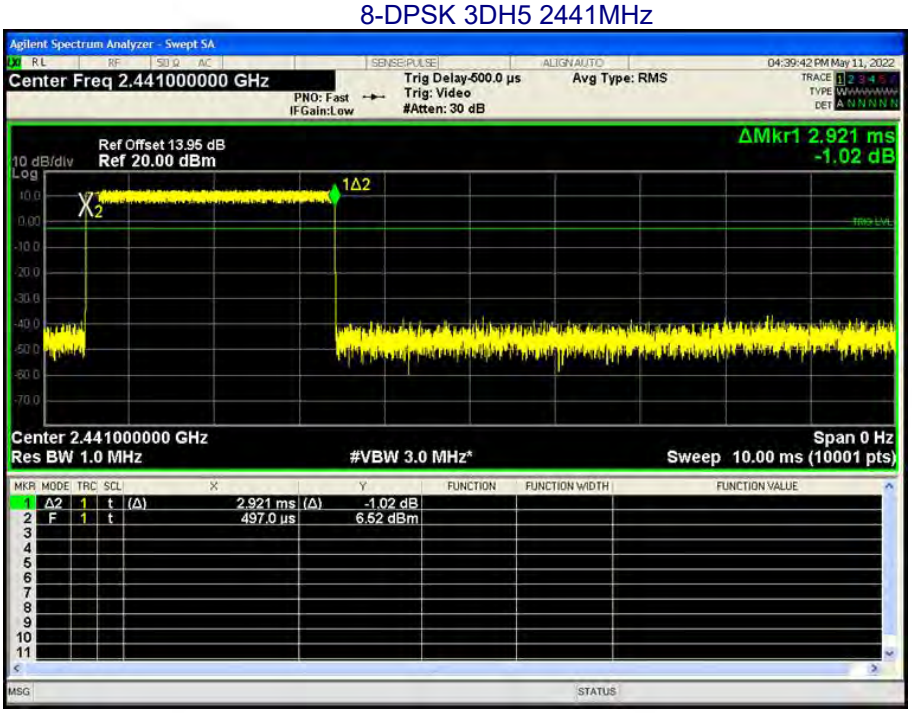

π/4-DQPSK 2DH5 2480MHz



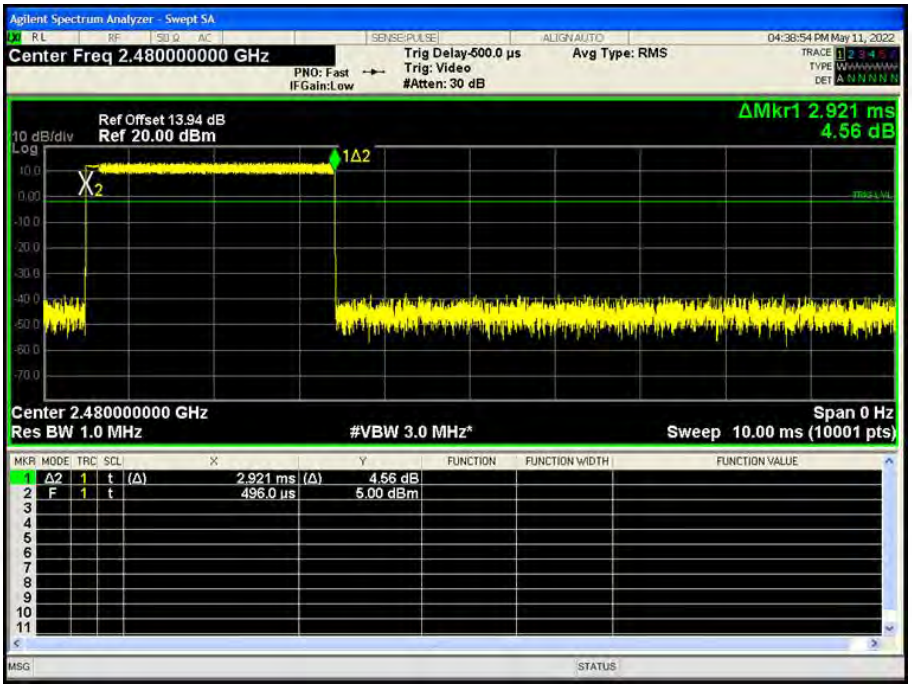
8-DPSK 3DH5 2402MHz




8-DPSK 3DH5 2441MHz



8-DPSK 3DH5 2480MHz



## 12. Antenna Requirement

| Standard requirement: | FCC Part15 C Section 15.203 /247(c) |
|---|---|
| 15.203 requirement:<br>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.<br>15.247(c) (1)(i) requirement:<br>(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi. | |
| EUT Antenna: | |
| The antenna is Internal antenna, the best case gain of the antennas is 0 dBi, reference to the appendix II for details | |

## 13. Test Setup Photo

Reference to the appendix I for details.

## 14. EUT Constructional Details

Reference to the appendix II for details.

**※※※※※ END OF REPORT ※※※※※**