

# FCC RADIO TEST REPORT

Applicant..... : Summit Electronics LLC  
Address..... : 1 Rewe Street, Brooklyn, New York, 11211 United States  
Manufacturer..... : Summit Electronics LLC  
Address..... : 1 Rewe Street, Brooklyn, New York, 11211 United States  
Factory..... : Summit Electronics LLC  
Address..... : 1 Rewe Street, Brooklyn, New York, 11211 United States  
Product Name..... : True Wireless Party Speaker  
Brand Name..... : COBY  
Model No. .... : CPA91FD, CPA915BK (For model difference refer to section 2)  
FCC ID..... : 2AMSOPCPA91FD  
Measurement Standard..... : 47 CFR FCC Part 15, Subpart C (Section 15.247)  
Receipt Date of Samples..... : April 13, 2023  
Date of Tested..... : April 13, 2023 to May 05, 2023  
Date of Report..... : May 09, 2023

This report shows that above equipment is technically compliant with the requirements of the standards above. All test results in this report apply only to the tested sample(s). Without prior written approval of Dongguan Nore Testing Center Co., Ltd, this report shall not be reproduced except in full.



Prepared by

Rose Hu / Project Engineer



Approved by

Iori Fan / Authorized Signatory

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## Revision History

[illegible]

## 1. Summary of Test Result

| FCC Rules                       | Description of Test               | Result | Remarks |
|---------------------------------|-----------------------------------|--------|---------|
| §15.247(a)(1)                   | Channel Separation test           | PASS   | ---     |
| §15.247(a)(1)                   | 20dB Bandwidth                    | PASS   | ---     |
| §15.247(a)(1)(iii)              | Hopping Channel Number            | PASS   | ---     |
| §15.247(a)(1)(iii)              | Time of Occupancy<br>(Dwell Time) | PASS   | ---     |
| §15.247(b)                      | Max Peak output Power test        | PASS   | ---     |
| §15.247(d)                      | Band edge test                    | PASS   | ---     |
| §15.207 (a)                     | AC Power Conducted Emission       | PASS   | ---     |
| §15.247(d), §15.209,<br>§15.205 | Radiated Emission                 | PASS   | ---     |
| §15.203                         | Antenna Requirement               | PASS   | ---     |
| §15.247(d)                      | Conducted Spurious Emission       | PASS   | ---     |

## 2. General Description of EUT

| Product Information     |                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product name:           | True Wireless Party Speaker                                                                                                                                |
| Main Model Name:        | CPA91FD                                                                                                                                                    |
| Additional Model Name:  | CPA915BK                                                                                                                                                   |
| Model Difference:       | Both of models have the same circuit schematic, construction, PCB Layout and critical components. Their difference is model number due to trading purpose. |
| S/N:                    | 2304-1885                                                                                                                                                  |
| Brand Name:             | COBY                                                                                                                                                       |
| Hardware version:       | 1.0                                                                                                                                                        |
| Software version:       | 1.0                                                                                                                                                        |
| Rating:                 | DC 3.7V li-ion battery or DC 5V come from USB port                                                                                                         |
| Classification:         | Class B                                                                                                                                                    |
| Typical arrangement:    | Table-top                                                                                                                                                  |
| I/O Port:               | Refer to the user manual                                                                                                                                   |
| Accessories Information |                                                                                                                                                            |
| Adapter:                | N/A                                                                                                                                                        |
| Cable:                  | USB Line: 0.45m, unshielded, detachable                                                                                                                    |
| Other:                  | N/A                                                                                                                                                        |

#### Additional Information

|         |                                                                                                                                |
|---------|--------------------------------------------------------------------------------------------------------------------------------|
| Note:   | According to the model difference, all tests were performed on model CPA91FD.                                                  |
| Remark: | All the information above are provided by the manufacturer. More detailed feature of the EUT please refers to the user manual. |

#### Technical Specification

|                                                                                                        |                                                  |
|--------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| Bluetooth Version:                                                                                     | V5.3                                             |
| Frequency Range:                                                                                       | 2402-2480MHz                                     |
| Modulation Type:                                                                                       | GFSK, $\pi/4$ -DQPSK, 8DPSK                      |
| Number of Channel:                                                                                     | 79 (refer to following channel list for details) |
| Channel Space:                                                                                         | 1MHz                                             |
| Antenna Type:                                                                                          | PCB Antenna                                      |
| Antenna Gain:                                                                                          | -0.68 dBi                                        |
| The EUT does not support Bluetooth Low Energy feature in accordance with the manufacturer declaration. |                                                  |

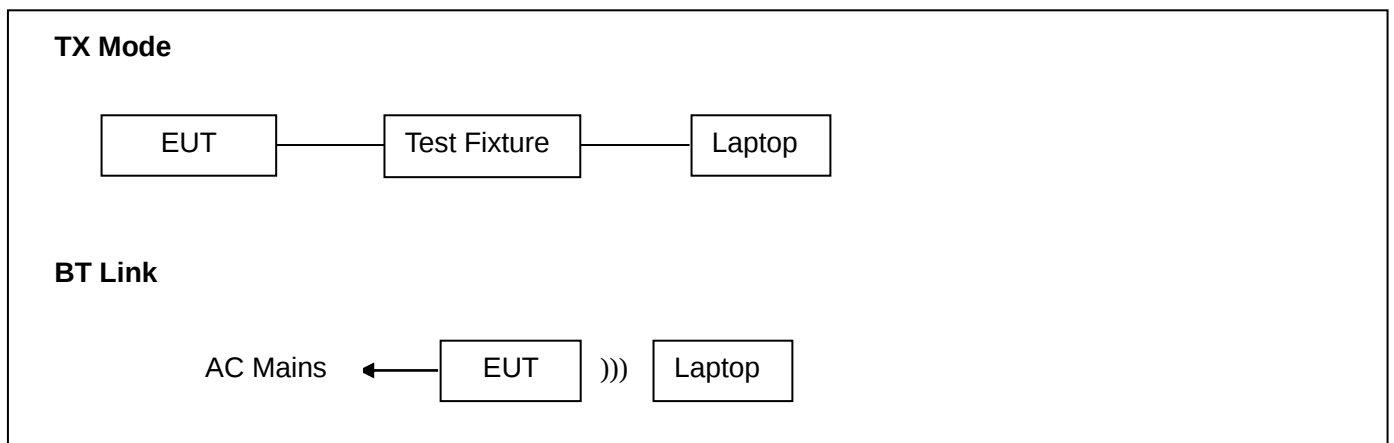
| Channel List |                 |         |                 |         |                 |         |                 |
|--------------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| Channel      | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (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. Test Channels and Modes Detail

| No. | Mode    | Channel | Frequency (MHz) | Modulation                    |
|-----|---------|---------|-----------------|-------------------------------|
| 1   | TX      | Hopping | 2402-2480       | GFSK / $\pi/4$ -DQPSK / 8DPSK |
| 2   | TX      | Low     | 2402            | GFSK / $\pi/4$ -DQPSK / 8DPSK |
| 3   | TX      | Mid     | 2441            | GFSK / $\pi/4$ -DQPSK / 8DPSK |
| 4   | TX      | High    | 2480            | GFSK / $\pi/4$ -DQPSK / 8DPSK |
| 5.  | BT Link | ---     | ---             | ---                           |

Note: TX mode means that the EUT was programmed to be in continuously transmitting mode.

### 4. Configuration of EUT



### 5. Modification of EUT

No modifications are made to the EUT during all test items.

## 6. Description of Support Device

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.

| No. | Equipment                     | Brand  | M/N          | S/N                 | Cable Specification                                                                                                                   | Remarks               |
|-----|-------------------------------|--------|--------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 1.  | Laptop                        | Lenovo | TP00067A     | PF-0DS3<br>YC 15/12 | I/P: AC 100-240V<br>50-60Hz, 1.8A<br>O/P: DC 20V 3.25A<br>AC Line: 1.10m<br>unshielded<br>DC Line: 1.15m<br>unshielded with a<br>core | Provide by the<br>Lab |
| 2.  | Power supply of<br>the Laptop | Delta  | ADLX65NLC3A  | N/A                 |                                                                                                                                       | Provide by the<br>Lab |
| 3.  | Test fixture                  | ---    | ---          | ---                 | ----                                                                                                                                  | Provide by the<br>Lab |
| 4.  | Adapter                       | HUWEI  | HW-050200C01 | ---                 | ----                                                                                                                                  | Provide by the<br>Lab |

| No. | Test Software | Modulation     | Power Setting |
|-----|---------------|----------------|---------------|
| 1.  | BT_Tool       | GFSK           | 3             |
| 2.  |               | $\pi/4$ -DQPSK | 3             |
| 3.  |               | 8DPSK          | 3             |

## 7. Test Facility and Location

|                                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Site                         | : | Dongguan Nore Testing Center Co., Ltd. (Dongguan NTC Co., Ltd.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Accreditations and Authorizations | : | <p>The Laboratory has been assessed and proved to be in compliance with CNAS/CL01</p> <p>Listed by CNAS, August 13, 2018</p> <p>The Certificate Registration Number is L5795.</p> <p>The Certificate is valid until August 13, 2024</p><br><p>The Laboratory has been assessed and proved to be in compliance with ISO17025</p> <p>Listed by A2LA, November 01, 2017</p> <p>The Certificate Registration Number is 4429.01</p> <p>The Certificate is valid until December 31, 2023</p><br><p>Listed by FCC, November 06, 2017</p> <p>Test Firm Registration Number: 907417</p><br><p>Listed by Industry Canada, June 08, 2017</p> <p>The Certificate Registration Number. Is 46405-9743A</p> |
| Test Site Location                | : | Building D, Gaosheng Science and Technology Park, Hongtu Road, Nancheng District, Dongguan City, Guangdong Province, China                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## 8. Applicable Standards and References

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

### Test Standards:

47 CFR Part 15, Subpart C, 15.247

ANSI C63.10-2013

### References Test Guidance:

DTS KDB 558074 D01 15.247 Meas Guidance v05r02

### Remark:

The EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

## 9. Deviations and Abnormalities from Standard Conditions

No additions, deviations and exclusions from the standard.

## 10. Test Conditions

| No. | Test Item                         | Test Mode | Test Voltage             | Tested by | Remarks               |
|-----|-----------------------------------|-----------|--------------------------|-----------|-----------------------|
| 1.  | Channel Separation test           | 1         | DC 3.7V                  | Sean Yuan | See note <sup>1</sup> |
| 2.  | 20dB Bandwidth                    | 2-4       | DC 3.7V                  | Sean Yuan | See note <sup>1</sup> |
| 3.  | Hopping Channel Number            | 1         | DC 3.7V                  | Sean Yuan | See note <sup>1</sup> |
| 4.  | Time of Occupancy<br>(Dwell Time) | 1         | DC 3.7V                  | Sean Yuan | See note <sup>1</sup> |
| 5.  | Max Peak output Power test        | 2-4       | DC 3.7V                  | Sean Yuan | See note <sup>1</sup> |
| 6.  | Band edge test                    | 1-4       | DC 3.7V                  | Sean Yuan | See note <sup>1</sup> |
| 7.  | AC Power Conducted Emission       | 5         | AC 120V 60Hz             | Sean Yuan | See note <sup>1</sup> |
| 8.  | Radiated Emission                 | 1-5       | AC 120V 60Hz,<br>DC 3.7V | Sean Yuan | See note <sup>1</sup> |
| 9.  | Antenna Requirement               | ---       | ---                      | ---       | ---                   |
| 10. | Conducted Spurious Emission       | 1-4       | DC 3.7V                  | Sean Yuan | See note <sup>1</sup> |

**Note:**

1. The testing climatic conditions for temperature, humidity, and atmospheric pressure are within: 15~35℃, 30~70%, 86~106kPa
2. As the EUT can be operated multiple positions, all X,Y,Z axis were considered during the test and only the worst case X was recorded.
3. For test voltage AC120V 60Hz was come from Power adapter.

## 11. Measurement Uncertainty

| No. | Test Item                    | Frequency      | Uncertainty             | Remarks |
|-----|------------------------------|----------------|-------------------------|---------|
| 1.  | Conducted Emission           | 150KHz ~ 30MHz | ±3.04 dB                | ---     |
| 2.  | Radiated Emission            | 9kHz ~ 30MHz   | ±5.04 dB                |         |
|     |                              | 30MHz ~ 1GHz   | ±5.04 dB                | ---     |
|     |                              | 1GHz ~ 18GHz   | ±5.23 dB                | ---     |
|     |                              | 18GHz ~ 40GHz  | ±5.23 dB                |         |
| 3.  | Conducted Spurious Emissions | 10Hz ~ 40GHz   | ±0.78 dB                | ---     |
| 4.  | RF Output Power              | 10Hz ~ 40GHz   | ±0.86 dB                |         |
| 5.  | Power Spectral Density       | 10Hz ~ 40GHz   | ±1.06 dB                |         |
| 6.  | Occupied Channel Bandwidth   | ---            | ±1.42 x10 <sup>-7</sup> | ---     |

### Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The measurement uncertainty levels above are estimated and calculated according to CISPR 16-4-2.
3. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

## 12. Sample Calculations

| Conducted Emission                                                                                                                                                                                                                                                                                                                                                                                   |                      |                     |                    |              |           |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------|--------------------|--------------|-----------|----------|
| Freq. (MHz)                                                                                                                                                                                                                                                                                                                                                                                          | Reading Level (dBuV) | Correct Factor (dB) | Measurement (dBuV) | Limit (dBuV) | Over (dB) | Detector |
| 0.2380                                                                                                                                                                                                                                                                                                                                                                                               | 26.70                | 10.60               | 37.30              | 62.17        | -24.87    | QP       |
| <p>Where,</p> <p>Freq. = Emission frequency in MHz</p> <p>Reading Level = Spectrum Analyzer/Receiver Reading</p> <p>Corrector Factor = Insertion loss of LISN + Cable Loss + RF Switching Unit attenuation</p> <p>Measurement = Reading + Corrector Factor</p> <p>Limit = Limit stated in standard</p> <p>Margin = Measurement - Limit</p> <p>Detector = Reading for Quasi-Peak / Average / Peak</p> |                      |                     |                    |              |           |          |

| Radiated Spurious Emissions and Restricted Bands                                                                                                                                                                                                                                                                                                                                                       |                      |                       |                      |                |           |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------|----------------------|----------------|-----------|----------|
| Freq. (MHz)                                                                                                                                                                                                                                                                                                                                                                                            | Reading Level (dBuV) | Correct Factor (dB/m) | Measurement (dBuV/m) | Limit (dBuV/m) | Over (dB) | Detector |
| 124.0900                                                                                                                                                                                                                                                                                                                                                                                               | 42.08                | -9.88                 | 32.20                | 43.50          | -11.30    | QP       |
| <p>Where,</p> <p>Freq. = Emission frequency in MHz</p> <p>Reading Level = Spectrum Analyzer/Receiver Reading</p> <p>Corrector Factor = Antenna Factor + Cable Loss - Pre-amplifier</p> <p>Measurement = Reading + Corrector Factor</p> <p>Limit = Limit stated in standard</p> <p>Over = Margin, which calculated by Measurement - Limit</p> <p>Detector = Reading for Quasi-Peak / Average / Peak</p> |                      |                       |                      |                |           |          |

Note: For all conducted test items, the spectrum analyzer offset or transducer is derived from RF cable loss and attenuator factor. The offset or transducer is equal to the RF cable loss plus attenuator factor.

## 13. Test Items and Results

### 13.1 Conducted Emissions Measurement

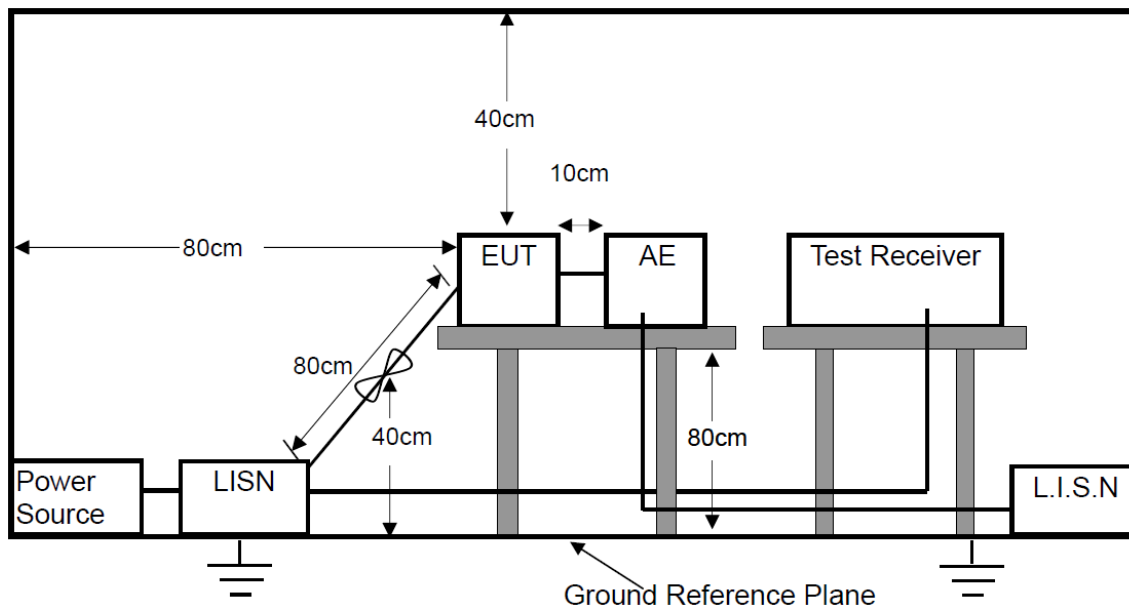
#### LIMITS

According to the requirements of FCC PART 15.207, the limits are as follows:

| Frequency (MHz) | Quasi-peak | Average  |
|-----------------|------------|----------|
| 0.15 to 0.5     | 66 to 56   | 56 to 46 |
| 0.5 to 5        | 56         | 46       |
| 5 to 30         | 60         | 50       |

Note: 1. If the limits for the average detector are met when using the quasi-peak detector, then the limits for the measurements with the average detector are considered to be met.  
2. The lower limit shall apply at the transition frequencies.  
3. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5MHz.

#### BLOCK DIAGRAM OF TEST SETUP



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## TEST PROCEDURES

- a. The EUT was placed on a wooden table 0.8m height from the metal ground plan and 0.4m from the conducting wall of the shielding room and it was kept at 0.8m from any other grounded conducting surface.
- b. All I/O cables and support devices were positioned as per ANSI C63.10.
- c. Connect mains power port of the EUT to a line impedance stabilization network (LISN).
- d. Connect all support devices to the other LISN and AAN, if needed.
- e. Scan the frequency range from 150KHz to 30MHz at both sides of AC line for maximum conducted interference checking and record the test data.

## TEST RESULTS

PASS

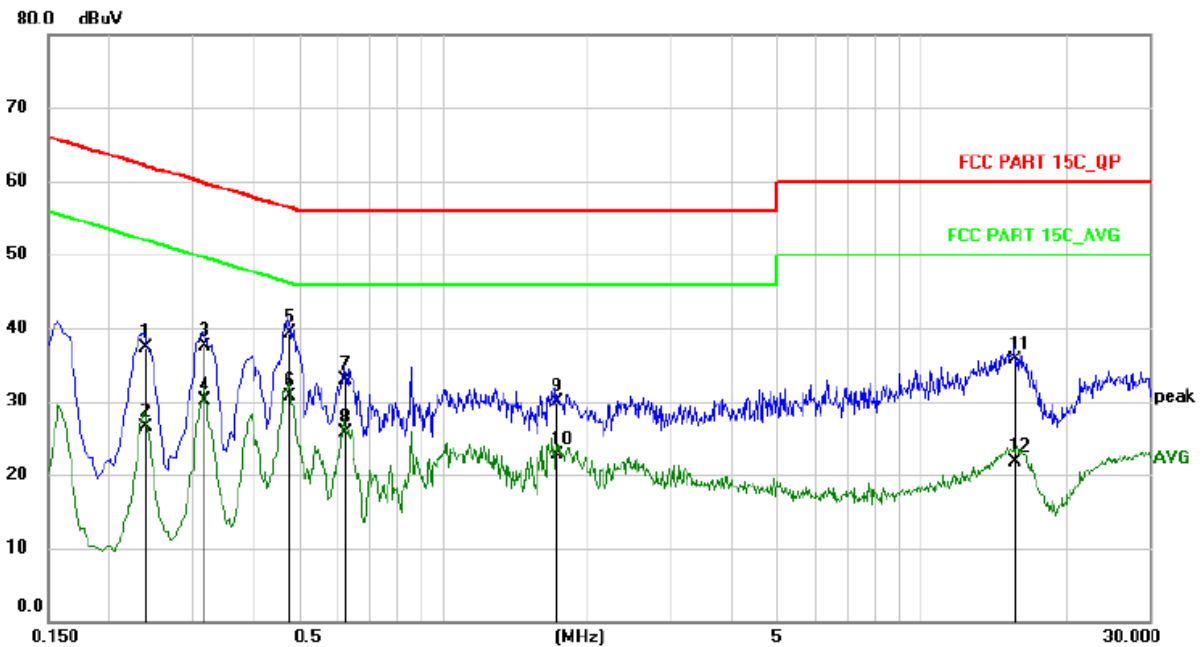
Please refer to the following pages of the worst case.

|              |                               |
|--------------|-------------------------------|
| M/N: CPA91FD | Testing Voltage: AC 120V 60Hz |
| Phase: L1    | Detector: QP & AVG            |
| Test Mode: 5 |                               |

## Conducted Emission Measurement

Date: 2023/4/21

Time: 8:50:38



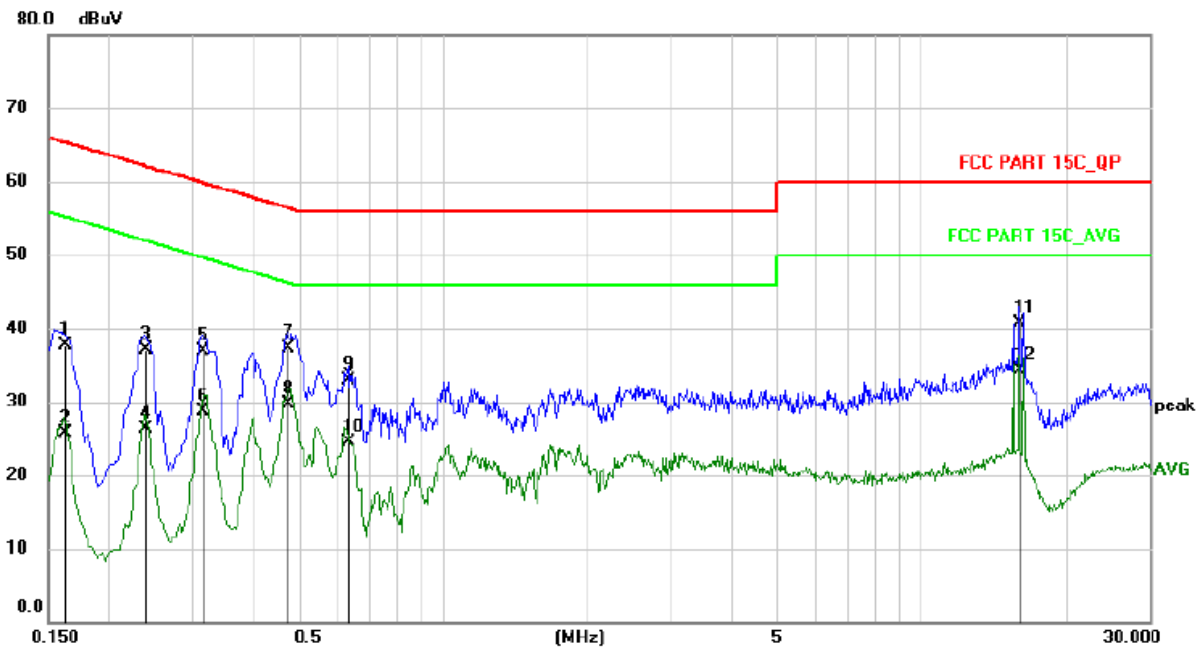
| No. Mk. | Freq.   | Reading Level | Correct Factor | Measurement | Limit | Over   |          |         |
|---------|---------|---------------|----------------|-------------|-------|--------|----------|---------|
|         | MHz     | dBuV          | dB             | dBuV        | dBuV  | dB     | Detector | Comment |
| 1       | 0.2380  | 26.70         | 10.60          | 37.30       | 62.17 | -24.87 | QP       |         |
| 2       | 0.2380  | 16.00         | 10.60          | 26.60       | 52.17 | -25.57 | AVG      |         |
| 3       | 0.3180  | 26.98         | 10.62          | 37.60       | 59.76 | -22.16 | QP       |         |
| 4       | 0.3180  | 19.48         | 10.62          | 30.10       | 49.76 | -19.66 | AVG      |         |
| 5       | 0.4780  | 28.79         | 10.61          | 39.40       | 56.37 | -16.97 | QP       |         |
| 6 *     | 0.4780  | 20.09         | 10.61          | 30.70       | 46.37 | -15.67 | AVG      |         |
| 7       | 0.6260  | 22.40         | 10.60          | 33.00       | 56.00 | -23.00 | QP       |         |
| 8       | 0.6260  | 15.10         | 10.60          | 25.70       | 46.00 | -20.30 | AVG      |         |
| 9       | 1.7260  | 19.29         | 10.61          | 29.90       | 56.00 | -26.10 | QP       |         |
| 10      | 1.7260  | 12.19         | 10.61          | 22.80       | 46.00 | -23.20 | AVG      |         |
| 11      | 15.6900 | 25.01         | 10.79          | 35.80       | 60.00 | -24.20 | QP       |         |
| 12      | 15.6900 | 11.01         | 10.79          | 21.80       | 50.00 | -28.20 | AVG      |         |

|              |                               |
|--------------|-------------------------------|
| M/N: CPA91FD | Testing Voltage: AC 120V 60Hz |
| Phase: N     | Detector: QP & AVG            |
| Test Mode: 5 |                               |

## Conducted Emission Measurement

Date: 2023/4/21

Time: 8:56:48



| No. Mk. | Freq.   | Reading Level | Correct Factor | Measurement | Limit | Over   |          |         |
|---------|---------|---------------|----------------|-------------|-------|--------|----------|---------|
|         | MHz     | dBuV          | dB             | dBuV        | dBuV  | dB     | Detector | Comment |
| 1       | 0.1620  | 27.24         | 10.56          | 37.80       | 65.36 | -27.56 | QP       |         |
| 2       | 0.1620  | 15.24         | 10.56          | 25.80       | 55.36 | -29.56 | AVG      |         |
| 3       | 0.2379  | 26.54         | 10.56          | 37.10       | 62.17 | -25.07 | QP       |         |
| 4       | 0.2379  | 15.74         | 10.56          | 26.30       | 52.17 | -25.87 | AVG      |         |
| 5       | 0.3140  | 26.42         | 10.58          | 37.00       | 59.86 | -22.86 | QP       |         |
| 6       | 0.3140  | 18.22         | 10.58          | 28.80       | 49.86 | -21.06 | AVG      |         |
| 7       | 0.4739  | 26.83         | 10.57          | 37.40       | 56.45 | -19.05 | QP       |         |
| 8       | 0.4739  | 19.23         | 10.57          | 29.80       | 46.45 | -16.65 | AVG      |         |
| 9       | 0.6340  | 22.33         | 10.57          | 32.90       | 56.00 | -23.10 | QP       |         |
| 10      | 0.6340  | 14.03         | 10.57          | 24.60       | 46.00 | -21.40 | AVG      |         |
| 11      | 16.0178 | 30.13         | 10.67          | 40.80       | 60.00 | -19.20 | QP       |         |
| 12 *    | 16.0178 | 23.63         | 10.67          | 34.30       | 50.00 | -15.70 | AVG      |         |

## 13.2 Radiated Spurious Emissions and Restricted Bands Measurement

### LIMITS

| Frequency range<br>MHz | Distance Meters | Field Strengths Limit (15.209) |
|------------------------|-----------------|--------------------------------|
|                        |                 | $\mu\text{V/m}$                |
| 0.009 ~ 0.490          | 300             | $2400/F(\text{kHz})$           |
| 0.490 ~ 1.705          | 30              | $24000/F(\text{kHz})$          |
| 1.705 ~ 30             | 30              | 30                             |
| 30 ~ 88                | 3               | 100                            |
| 88 ~ 216               | 3               | 150                            |
| 216 ~ 960              | 3               | 200                            |
| Above 960              | 3               | 500                            |

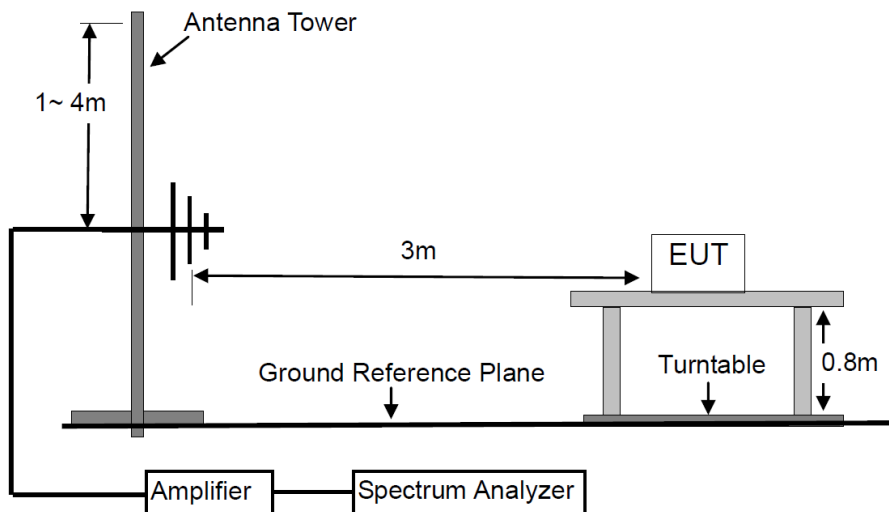
- Remark:
- (1) Emission level (dB) $\mu\text{V}$  = 20 log Emission level  $\mu\text{V/m}$
  - (2) The smaller limit shall apply at the cross point between two frequency bands.
  - (3) As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, 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) The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.
  - (5) §15.247(d) specifies that emissions which fall in the restricted bands, as defined in §15.205 comply with radiated emission limits specified in §15.209.

## BLOCK DIAGRAM OF TEST SETUP

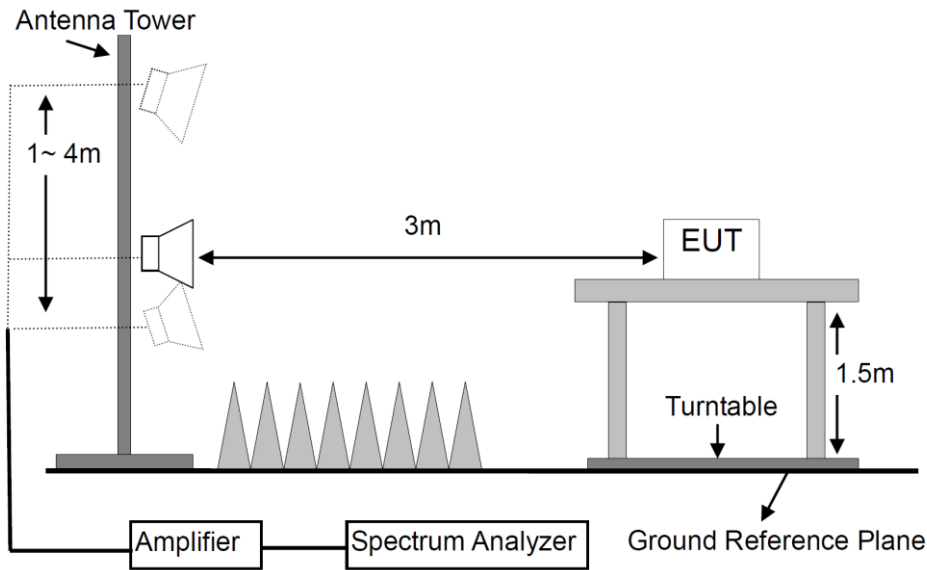
For Radiated Emission below 30MHz



For Radiated Emission 30-1000MHz



For Radiated Emission Above 1000MHz.



## TEST PROCEDURES

- a. Below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi- anechoic chamber room.
- b. For the radiated emission test above 1GHz:  

The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter full anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. 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.

- e. 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. The test-receiver system was set to peak detect function and specified bandwidth with maximum hold mode.
- f. A Quasi-peak measurement was then made for that frequency point for below 1GHz test. PK and AV for above 1GHz emission test.
- g. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and packet type.

The worst case was found when the EUT was positioned on X axis for radiated emission.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

| Frequency Band<br>(MHz) | Detector | Resolution Bandwidth | Video Bandwidth |
|-------------------------|----------|----------------------|-----------------|
| 30 to 1000              | QP       | 120 kHz              | 300 kHz         |
| Above 1000              | Peak     | 1 MHz                | 3 MHz           |
|                         | Average  | 1 MHz                | 10 Hz           |

## TEST RESULTS

PASS

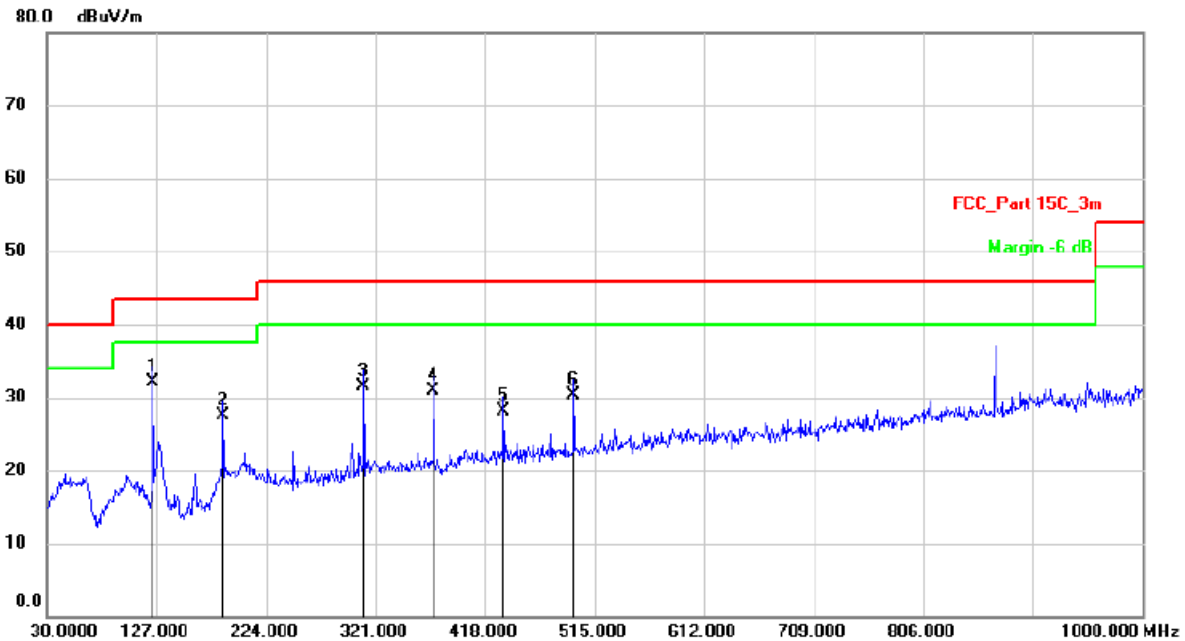
Please refer to the following pages of the worst case.

|                          |                          |
|--------------------------|--------------------------|
| M/N: CPA91FD             | Testing Voltage: DC 3.7V |
| Polarization: Horizontal | Detector: QP             |
| Test Mode: 5             | Distance: 3m             |

## Radiated Emission Measurement

Date: 2023/4/26

Time: 11:10:53



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m      | dBuV/m | dB     | Detector | Comment |
| 1   | *   | 124.0900 | 42.08         | -9.88          | 32.20       | 43.50  | -11.30 | QP       |         |
| 2   |     | 186.1700 | 36.13         | -8.63          | 27.50       | 43.50  | -16.00 | QP       |         |
| 3   |     | 310.3299 | 36.84         | -5.24          | 31.60       | 46.00  | -14.40 | QP       |         |
| 4   |     | 372.4100 | 34.74         | -3.84          | 30.90       | 46.00  | -15.10 | QP       |         |
| 5   |     | 434.4900 | 31.00         | -2.80          | 28.20       | 46.00  | -17.80 | QP       |         |
| 6   |     | 496.5700 | 32.21         | -1.81          | 30.40       | 46.00  | -15.60 | QP       |         |

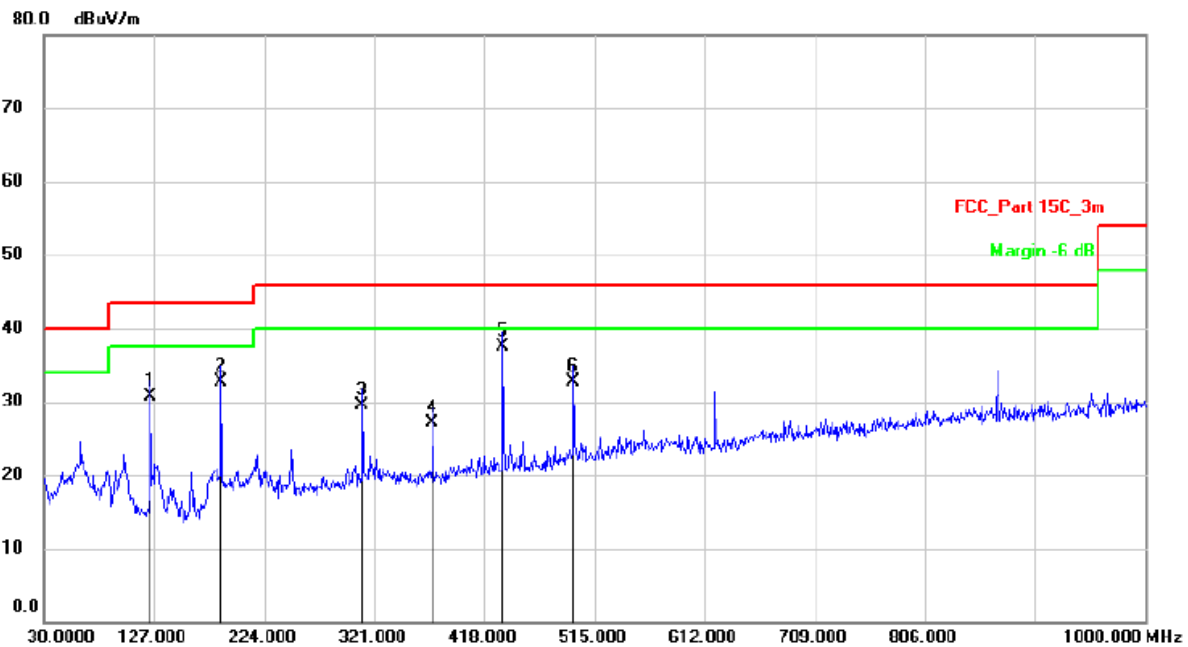
Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.

|                        |                          |
|------------------------|--------------------------|
| M/N: CPA91FD           | Testing Voltage: DC 3.7V |
| Polarization: Vertical | Detector: QP             |
| Test Mode: 5           | Distance: 3m             |

## Radiated Emission Measurement

Date: 2023/4/26

Time: 11:15:51



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------|------------|----------|---------|
| 1   |     | 124.0900     | 42.00                    | -11.20                    | 30.80                      | 43.50           | -12.70     | QP       |         |
| 2   |     | 186.1700     | 42.01                    | -9.21                     | 32.80                      | 43.50           | -10.70     | QP       |         |
| 3   |     | 310.3299     | 35.84                    | -6.24                     | 29.60                      | 46.00           | -16.40     | QP       |         |
| 4   |     | 372.4100     | 32.04                    | -4.84                     | 27.20                      | 46.00           | -18.80     | QP       |         |
| 5   | *   | 434.4900     | 41.30                    | -3.80                     | 37.50                      | 46.00           | -8.50      | QP       |         |
| 6   |     | 496.5700     | 35.61                    | -2.81                     | 32.80                      | 46.00           | -13.20     | QP       |         |

Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.

| Modulation: 8DPSK (the worst case)    |                       |                        |       |                  | Test Result: PASS          |       | Test frequency range: 1-25GHz |       |                |        |
|---------------------------------------|-----------------------|------------------------|-------|------------------|----------------------------|-------|-------------------------------|-------|----------------|--------|
| Freq.<br>(MHz)                        | Ant.<br>Pol.<br>(H/V) | Reading<br>Level(dBuV) |       | Factor<br>(dB/m) | Emission Level<br>(dBuV/m) |       | Limit 3m<br>(dBuV/m)          |       | Margin<br>(dB) |        |
|                                       |                       | PK                     | AV    |                  | PK                         | AV    | PK                            | AV    | PK             | AV     |
| Operation Mode: TX Mode (Low)         |                       |                        |       |                  |                            |       |                               |       |                |        |
| 4804                                  | H                     | 48.80                  | 42.53 | 6.30             | 55.10                      | 48.83 | 74.00                         | 54.00 | -18.90         | -5.17  |
| 7206                                  | H                     | 44.36                  | 31.00 | 10.44            | 54.80                      | 41.44 | 74.00                         | 54.00 | -19.20         | -12.56 |
| ---                                   |                       |                        |       |                  |                            |       |                               |       |                |        |
| 4804                                  | V                     | 49.64                  | 41.54 | 6.30             | 55.94                      | 47.84 | 74.00                         | 54.00 | -18.06         | -6.16  |
| 7206                                  | V                     | 45.20                  | 31.16 | 10.44            | 55.64                      | 41.60 | 74.00                         | 54.00 | -18.36         | -12.40 |
| ---                                   |                       |                        |       |                  |                            |       |                               |       |                |        |
| Operation Mode: TX Mode (Mid)         |                       |                        |       |                  |                            |       |                               |       |                |        |
| 4882                                  | H                     | 49.50                  | 43.95 | 6.60             | 56.10                      | 50.55 | 74.00                         | 54.00 | -17.90         | -3.45  |
| 7323                                  | H                     | 45.75                  | 33.75 | 10.55            | 56.30                      | 44.30 | 74.00                         | 54.00 | -17.70         | -9.70  |
| ---                                   |                       |                        |       |                  |                            |       |                               |       |                |        |
| 4882                                  | V                     | 52.03                  | 44.40 | 6.60             | 58.63                      | 51.00 | 74.00                         | 54.00 | -15.37         | -3.00  |
| 7323                                  | V                     | 45.45                  | 31.28 | 10.55            | 56.00                      | 41.83 | 74.00                         | 54.00 | -18.00         | -12.17 |
| ---                                   |                       |                        |       |                  |                            |       |                               |       |                |        |
| Operation Mode: TX Mode (High)        |                       |                        |       |                  |                            |       |                               |       |                |        |
| 4960                                  | H                     | 51.67                  | 44.11 | 6.89             | 58.56                      | 51.00 | 74.00                         | 54.00 | -15.44         | -3.00  |
| 7440                                  | H                     | 44.88                  | 32.85 | 10.60            | 55.48                      | 43.45 | 74.00                         | 54.00 | -18.52         | -10.55 |
| ---                                   |                       |                        |       |                  |                            |       |                               |       |                |        |
| 4960                                  | V                     | 50.61                  | 43.51 | 6.89             | 57.50                      | 50.40 | 74.00                         | 54.00 | -16.50         | -3.60  |
| 7440                                  | V                     | 45.39                  | 33.39 | 10.60            | 55.99                      | 43.99 | 74.00                         | 54.00 | -18.01         | -10.01 |
| ---                                   |                       |                        |       |                  |                            |       |                               |       |                |        |
| Spurious Emission in restricted band: |                       |                        |       |                  |                            |       |                               |       |                |        |
| 2390.000                              | H                     | 48.74                  | 33.36 | 0.09             | 48.83                      | 33.45 | 74.00                         | 54.00 | -25.17         | -20.55 |
| 2390.000                              | V                     | 49.21                  | 34.17 | 0.09             | 49.30                      | 34.26 | 74.00                         | 54.00 | -24.70         | -19.74 |
| 2483.500                              | H                     | 48.58                  | 32.88 | 0.34             | 48.92                      | 33.22 | 74.00                         | 54.00 | -25.08         | -20.78 |
| 2483.500                              | V                     | 50.78                  | 34.43 | 0.34             | 51.12                      | 34.77 | 74.00                         | 54.00 | -22.88         | -19.23 |

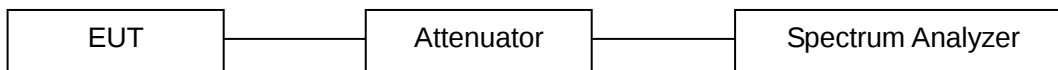
Remark: Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits.

### 13.3 Channel Separation test

#### LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

#### BLOCK DIAGRAM OF TEST SETUP



#### TEST PROCEDURES

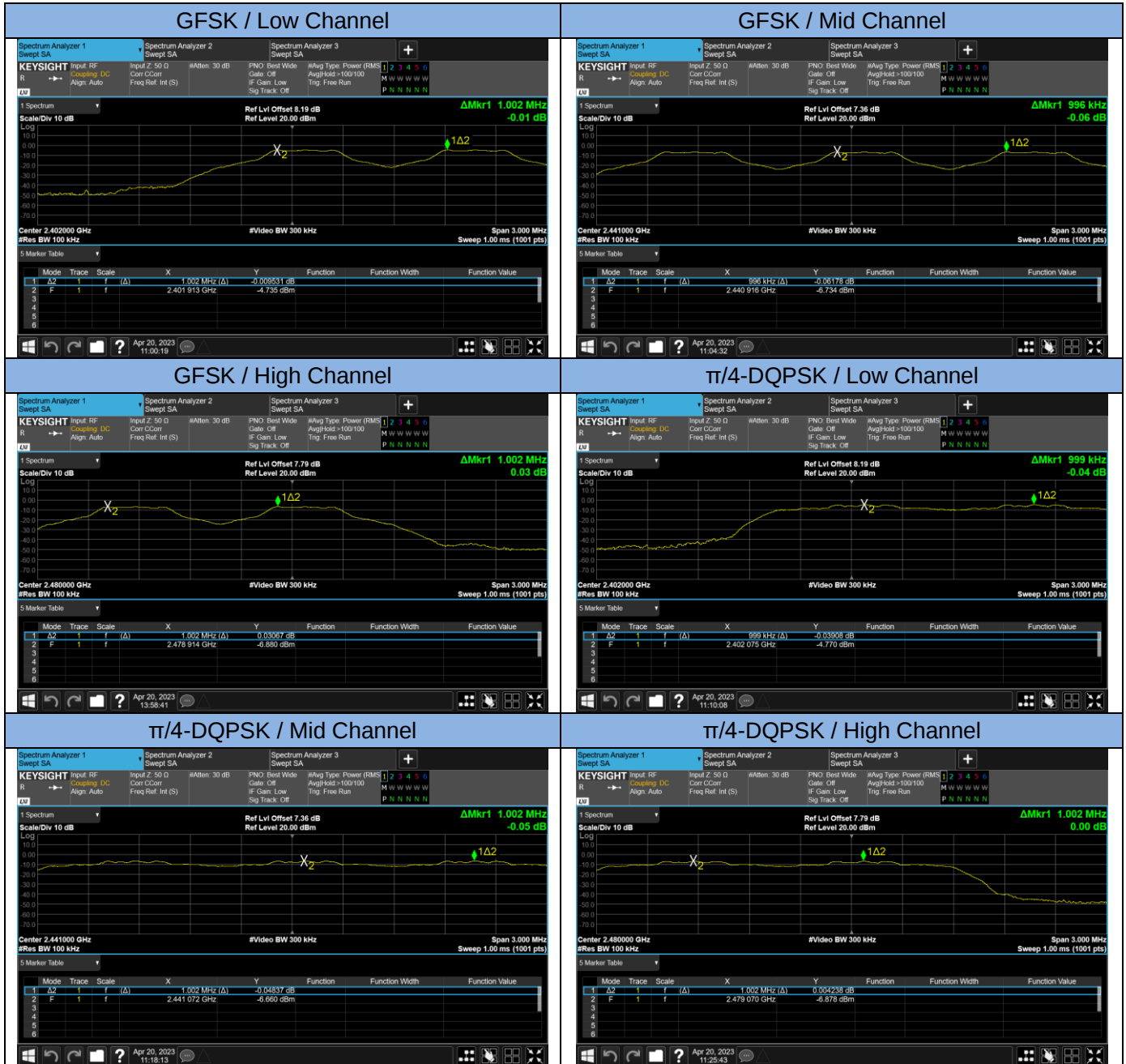
- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- Set to the maximum power setting and enable the EUT transmit continuously.
- Enable the EUT hopping function.
- Set spectrum analyzer and perform testing according to ANSI C63.10 clause 7.8.2.

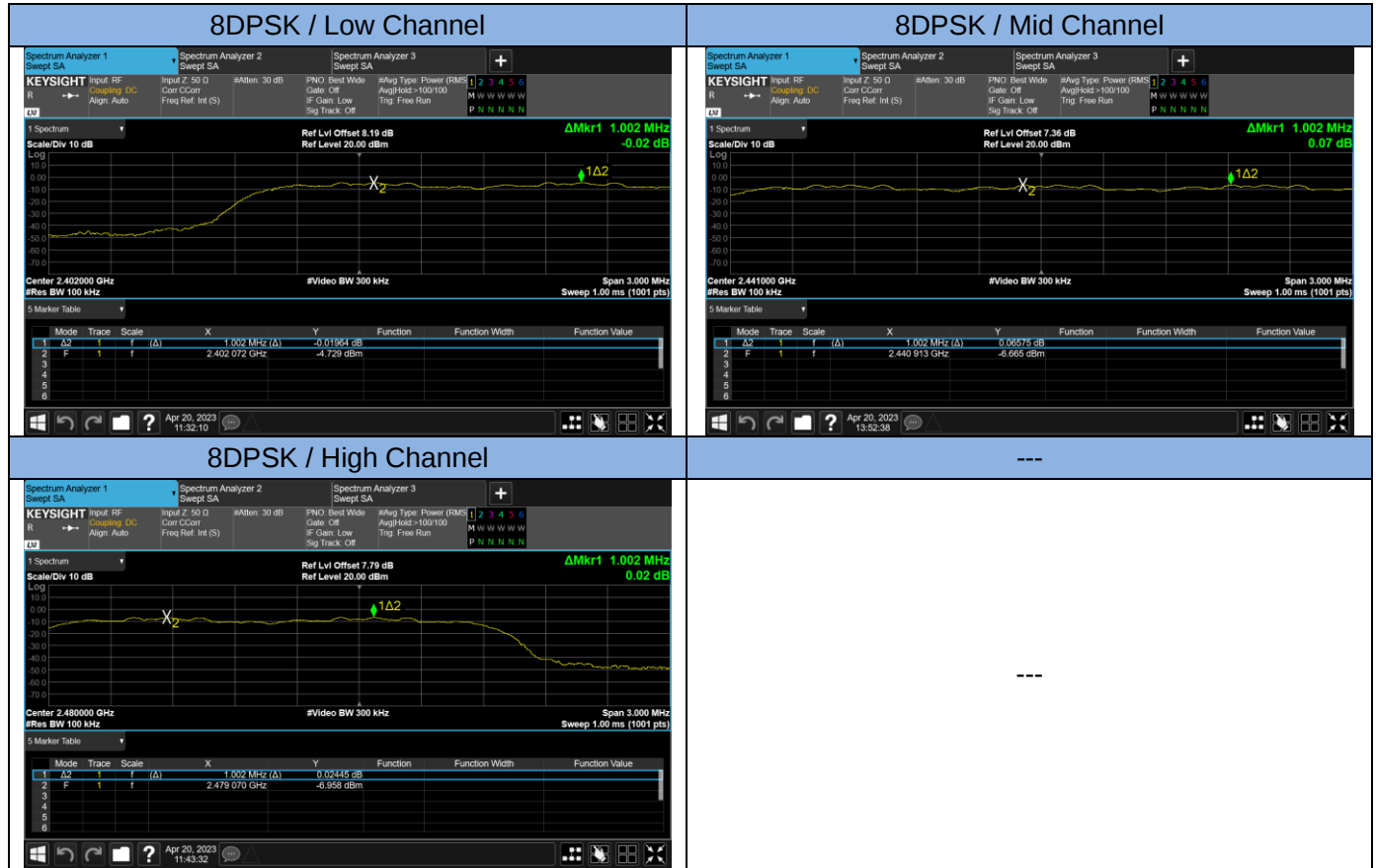
#### TEST RESULTS

PASS

Please refer to the following tables.

| Modulation     | Channel | Frequency (MHz) | Hopping Separation Measurement (MHz) | Hopping Separation Limit (KHz) | Test Result |
|----------------|---------|-----------------|--------------------------------------|--------------------------------|-------------|
| GFSK           | Low     | 2402            | 1.002                                | >615.3                         | Pass        |
|                | Mid     | 2441            | 0.996                                | >575.3                         | Pass        |
|                | High    | 2480            | 1.002                                | >569.3                         | Pass        |
| $\pi/4$ -DQPSK | Low     | 2402            | 0.999                                | >848.0                         | Pass        |
|                | Mid     | 2441            | 1.002                                | >849.3                         | Pass        |
|                | High    | 2480            | 1.002                                | >847.3                         | Pass        |
| 8DPSK          | Low     | 2402            | 1.002                                | >868.7                         | Pass        |
|                | Mid     | 2441            | 1.002                                | >866.7                         | Pass        |
|                | High    | 2480            | 1.002                                | >862.0                         | Pass        |



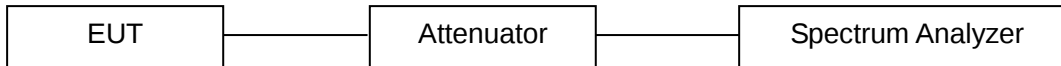


### 13.4 20dB Bandwidth

#### LIMIT

N/A

#### BLOCK DIAGRAM OF TEST SETUP



#### TEST PROCEDURES

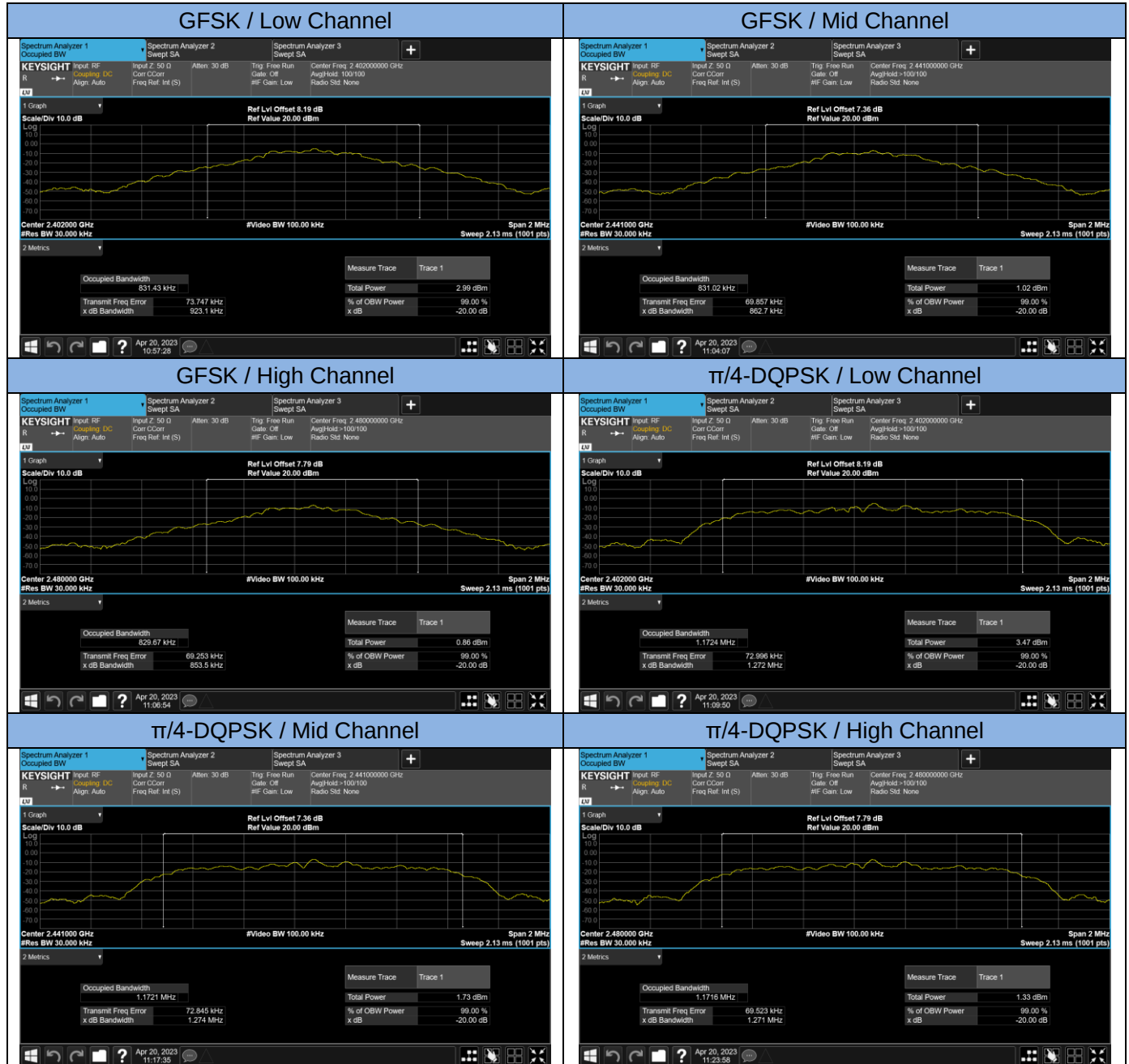
- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- Set to the maximum power setting and enable the EUT transmit continuously.
- Set spectrum analyzer and perform testing according to ANSI C63.10 clause 6.9.2.

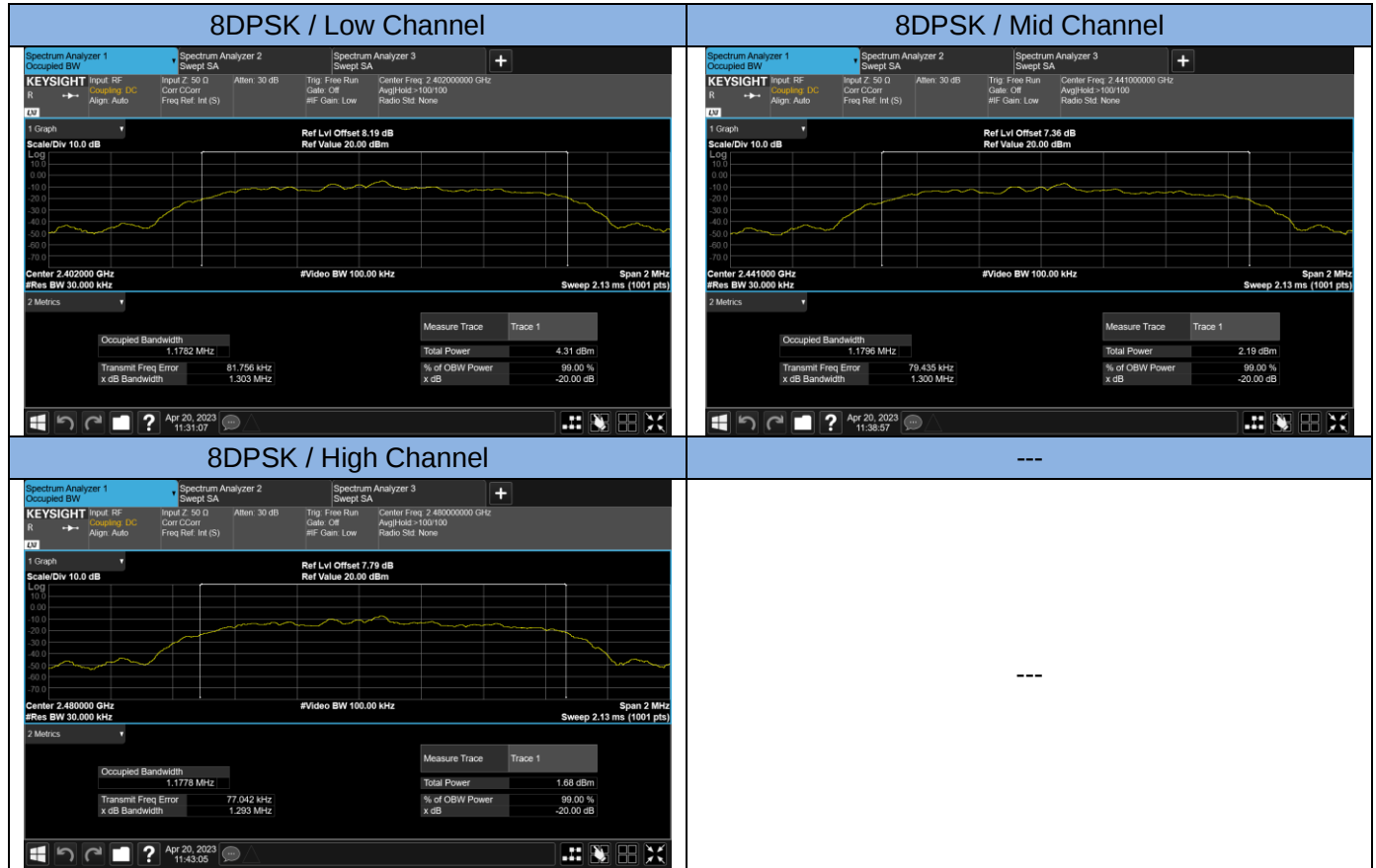
#### TEST RESULTS

PASS

Please refer to the following tables.

| Modulation     | Channel | Frequency<br>(MHz) | 20dB Measurement<br>(KHz) | Limit<br>(MHz) | Remark            |
|----------------|---------|--------------------|---------------------------|----------------|-------------------|
| GFSK           | Low     | 2402               | 923                       | N/A            | Reporting<br>only |
|                | Mid     | 2441               | 863                       | N/A            |                   |
|                | High    | 2480               | 854                       | N/A            |                   |
| $\pi/4$ -DQPSK | Low     | 2402               | 1272                      | N/A            |                   |
|                | Mid     | 2441               | 1274                      | N/A            |                   |
|                | High    | 2480               | 1271                      | N/A            |                   |
| 8DPSK          | Low     | 2402               | 1303                      | N/A            |                   |
|                | Mid     | 2441               | 1300                      | N/A            |                   |
|                | High    | 2480               | 1293                      | N/A            |                   |



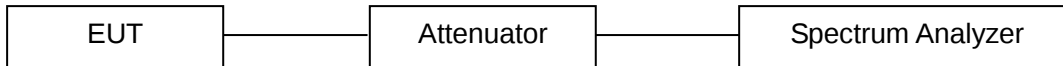


### 13.5 Hopping Channel Number

#### LIMIT

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

#### BLOCK DIAGRAM OF TEST SETUP



#### TEST PROCEDURES

- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- Set to the maximum power setting and enable the EUT transmit continuously.
- Enable the EUT hopping function.
- Set spectrum analyzer and perform testing according to ANSI C63.10 clause 7.8.3.

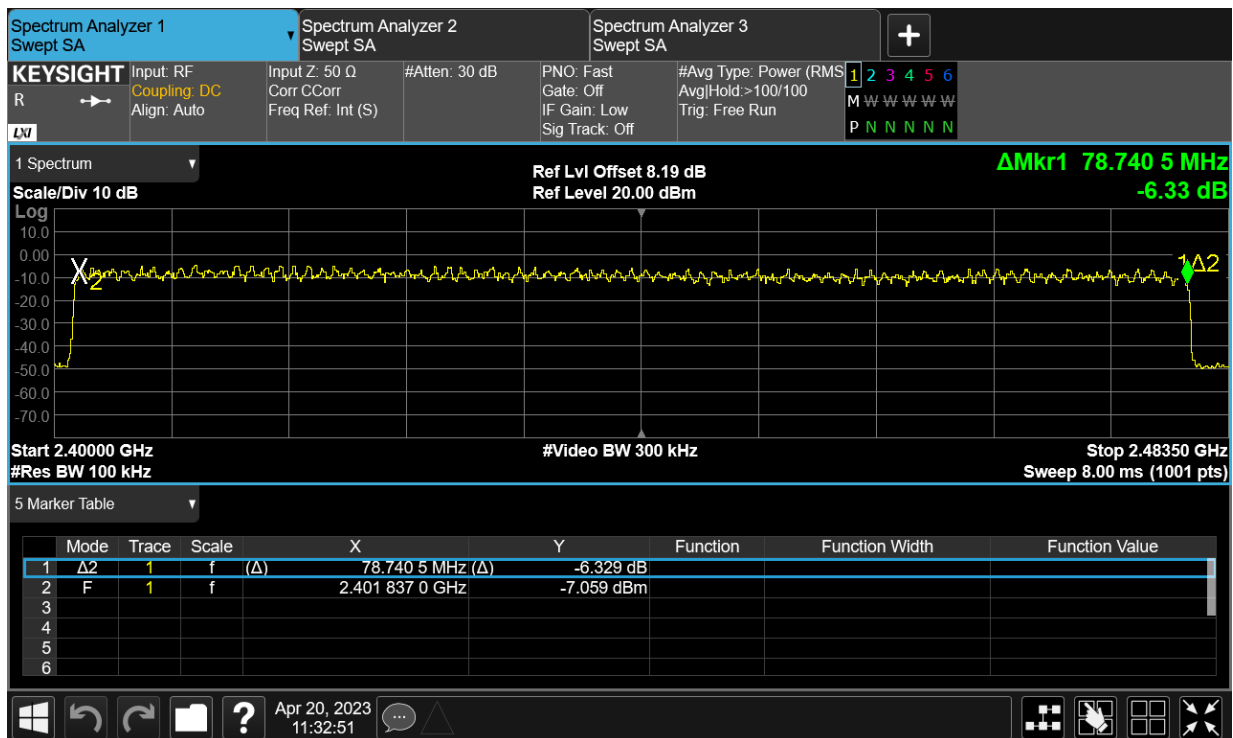
#### TEST RESULTS

PASS

Please refer to the following table.

| Modulation     | Number of Hopping Channels Measurement | Limit     | Test Result |
|----------------|----------------------------------------|-----------|-------------|
| GFSK           | 79                                     | $\geq 15$ | PASS        |
| $\pi/4$ -DQPSK | 79                                     | $\geq 15$ | PASS        |
| 8DPSK          | 79                                     | $\geq 15$ | PASS        |

The worst case: 8DPSK

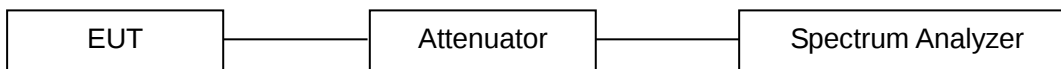


### 13.6 Time of Occupancy (Dwell Time)

#### LIMIT

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.

#### BLOCK DIAGRAM OF TEST SETUP



#### TEST PROCEDURES

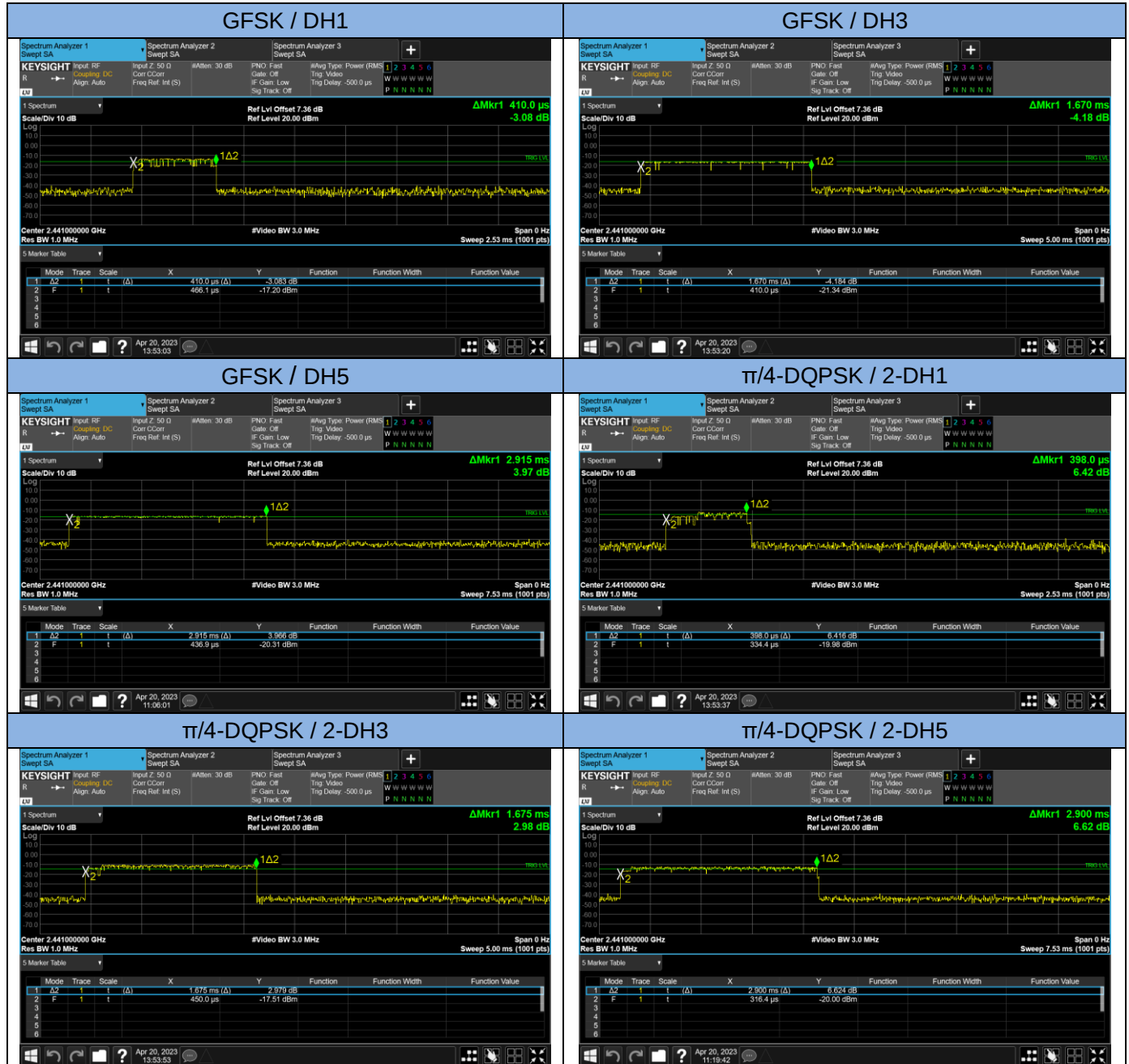
- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- Set to the maximum power setting and enable the EUT transmit continuously.
- Enable the EUT hopping function.
- Set spectrum analyzer and perform testing according to ANSI C63.10 clause 7.8.4.

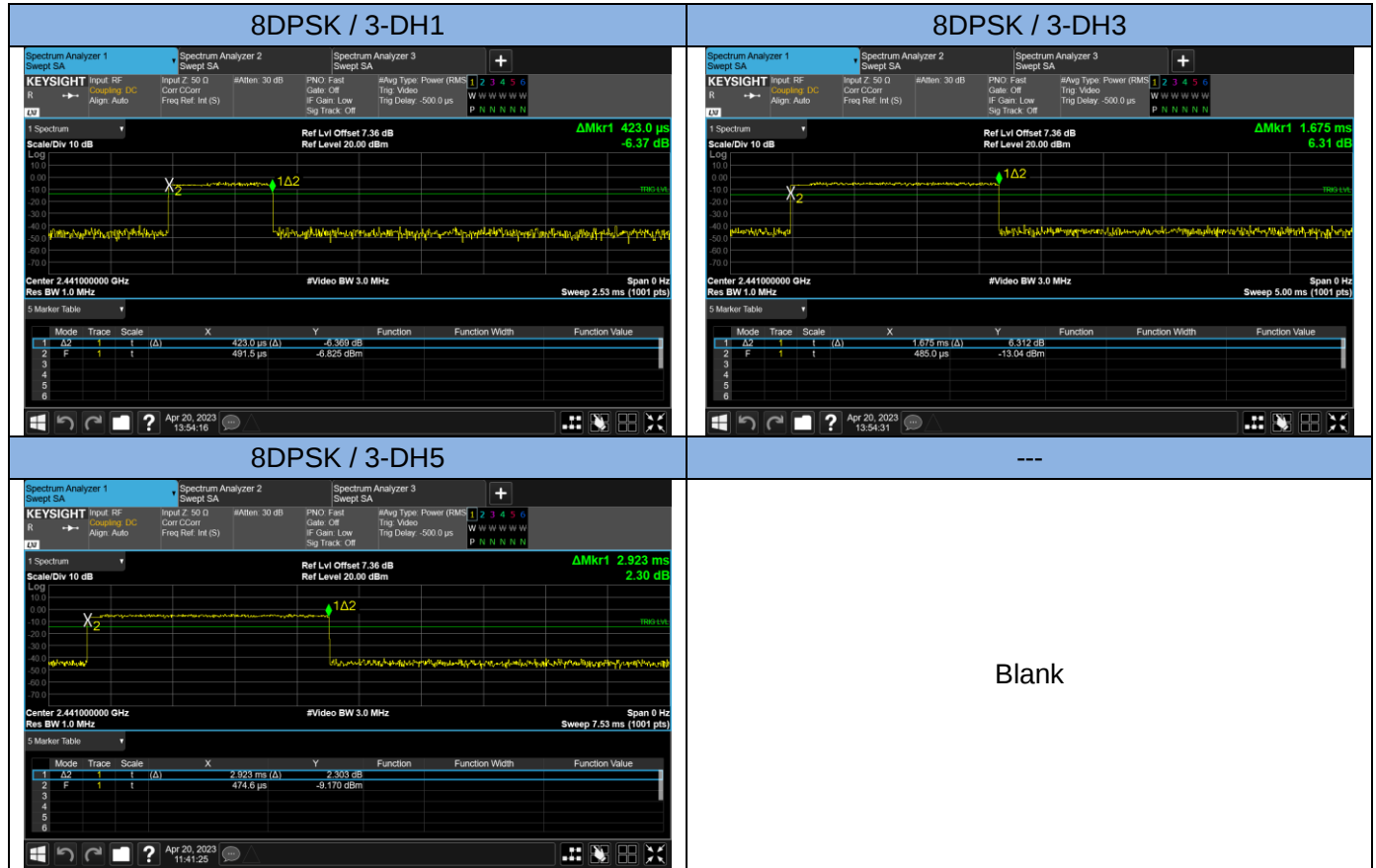
#### TEST RESULTS

PASS

Please refer to the following table.

| Modulation     | Packet | Frequency<br>(MHz) | Dwell Time Measurement<br>(msec)      | Limit<br>(msec) | Test<br>Result |
|----------------|--------|--------------------|---------------------------------------|-----------------|----------------|
| GFSK           | DH1    | 2441               | 0.410 (ms)*(1600/(2*79))*31.6= 131.20 | 400             | Pass           |
|                | DH3    | 2441               | 1.670 (ms)*(1600/(4*79))*31.6= 267.20 | 400             | Pass           |
|                | DH5    | 2441               | 2.915 (ms)*(1600/(6*79))*31.6= 310.93 | 400             | Pass           |
| $\pi/4$ -DQPSK | 2-DH1  | 2441               | 0.398 (ms)*(1600/(2*79))*31.6= 127.36 | 400             | Pass           |
|                | 2-DH3  | 2441               | 1.675 (ms)*(1600/(4*79))*31.6= 268.00 | 400             | Pass           |
|                | 2-DH5  | 2441               | 2.900 (ms)*(1600/(6*79))*31.6= 309.33 | 400             | Pass           |
| 8DPSK          | 3-DH1  | 2441               | 0.423 (ms)*(1600/(2*79))*31.6= 135.36 | 400             | Pass           |
|                | 3-DH3  | 2441               | 1.675 (ms)*(1600/(4*79))*31.6= 268.00 | 400             | Pass           |
|                | 3-DH5  | 2441               | 2.923 (ms)*(1600/(6*79))*31.6= 311.79 | 400             | Pass           |



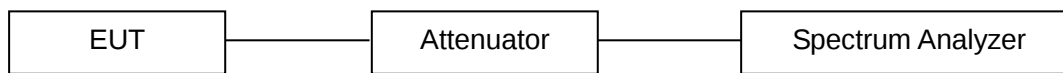


### 13.7 Maximum Peak Output Power

#### LIMIT

The maximum peak conducted output power of the intentional radiator shall not exceed the following: 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.

#### BLOCK DIAGRAM OF TEST SETUP



#### TEST PROCEDURES

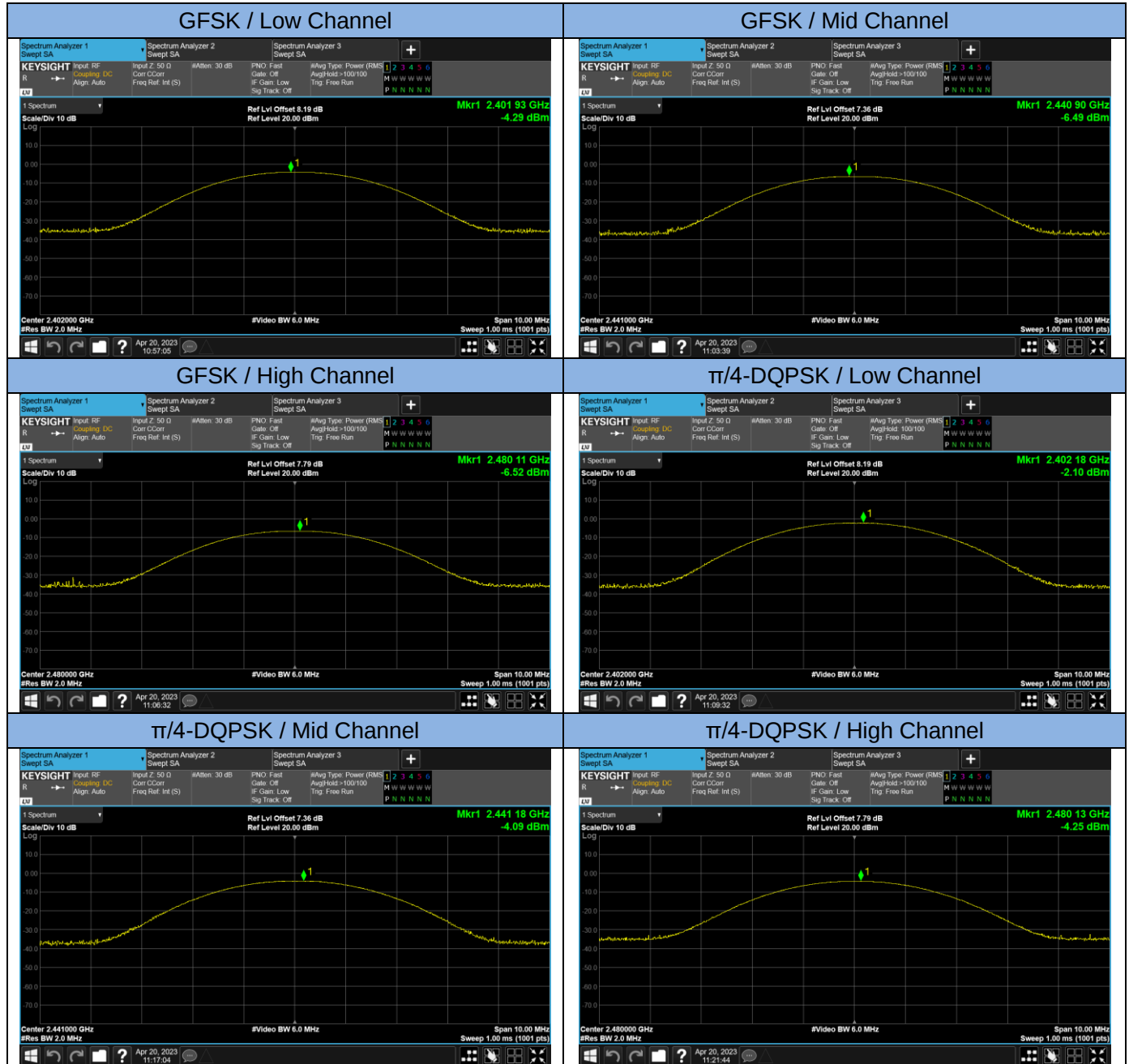
- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- Set to the maximum power setting and enable the EUT transmit continuously.
- Set spectrum analyzer and perform testing according to ANSI C63.10 clause 7.8.5.

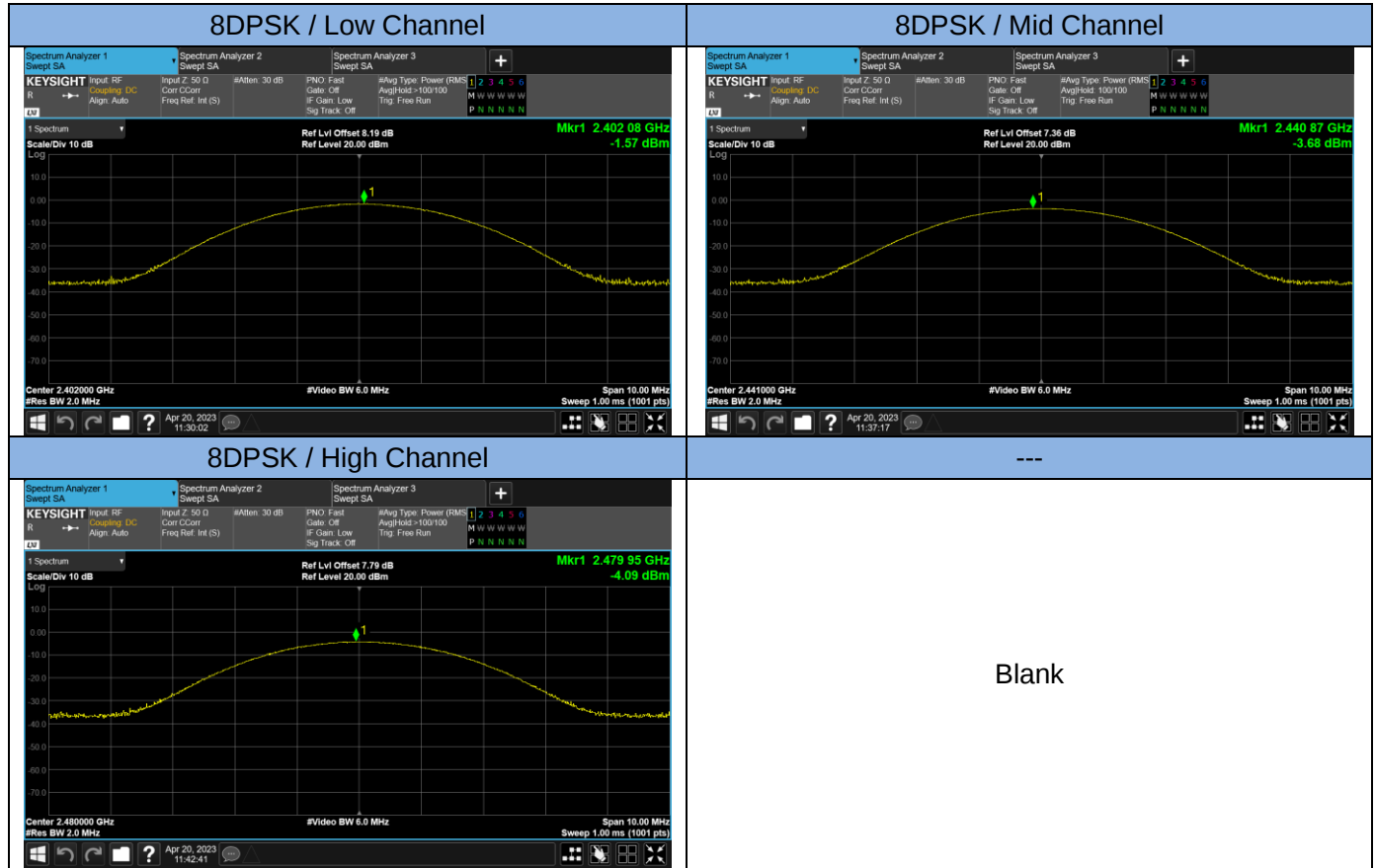
#### TEST RESULTS

PASS

Please refer to the following tables.

| Modulation     | Frequency (MHz) | Peak Power output Measurement (dBm) | Peak Power output Measurement (mW) | Peak Power Limit (dBm) | Test Result |
|----------------|-----------------|-------------------------------------|------------------------------------|------------------------|-------------|
| GFSK           | 2402.00         | -4.285                              | 0.37                               | 30                     | Pass        |
|                | 2441.00         | -6.494                              | 0.22                               | 30                     | Pass        |
|                | 2480.00         | -6.520                              | 0.22                               | 30                     | Pass        |
| $\pi/4$ -DQPSK | 2402.00         | -2.103                              | 0.62                               | 21                     | Pass        |
|                | 2441.00         | -4.090                              | 0.39                               | 21                     | Pass        |
|                | 2480.00         | -4.254                              | 0.38                               | 21                     | Pass        |
| 8DPSK          | 2402.00         | -1.569                              | 0.70                               | 21                     | Pass        |
|                | 2441.00         | -3.677                              | 0.43                               | 21                     | Pass        |
|                | 2480.00         | -4.091                              | 0.39                               | 21                     | Pass        |



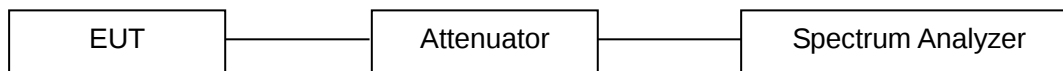


### 13.8 Band Edge Conducted Spurious Emission Measurement

#### LIMIT

In any 100KHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100KHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

#### BLOCK DIAGRAM OF TEST SETUP



#### TEST PROCEDURES

- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- Set to the maximum power setting and enable the EUT transmit continuously.
- Set spectrum analyzer and perform testing according to ANSI C63.10 clause 7.8.6 and 6.10.
- Enable hopping function of the EUT and then repeat steps above.

#### TEST RESULTS

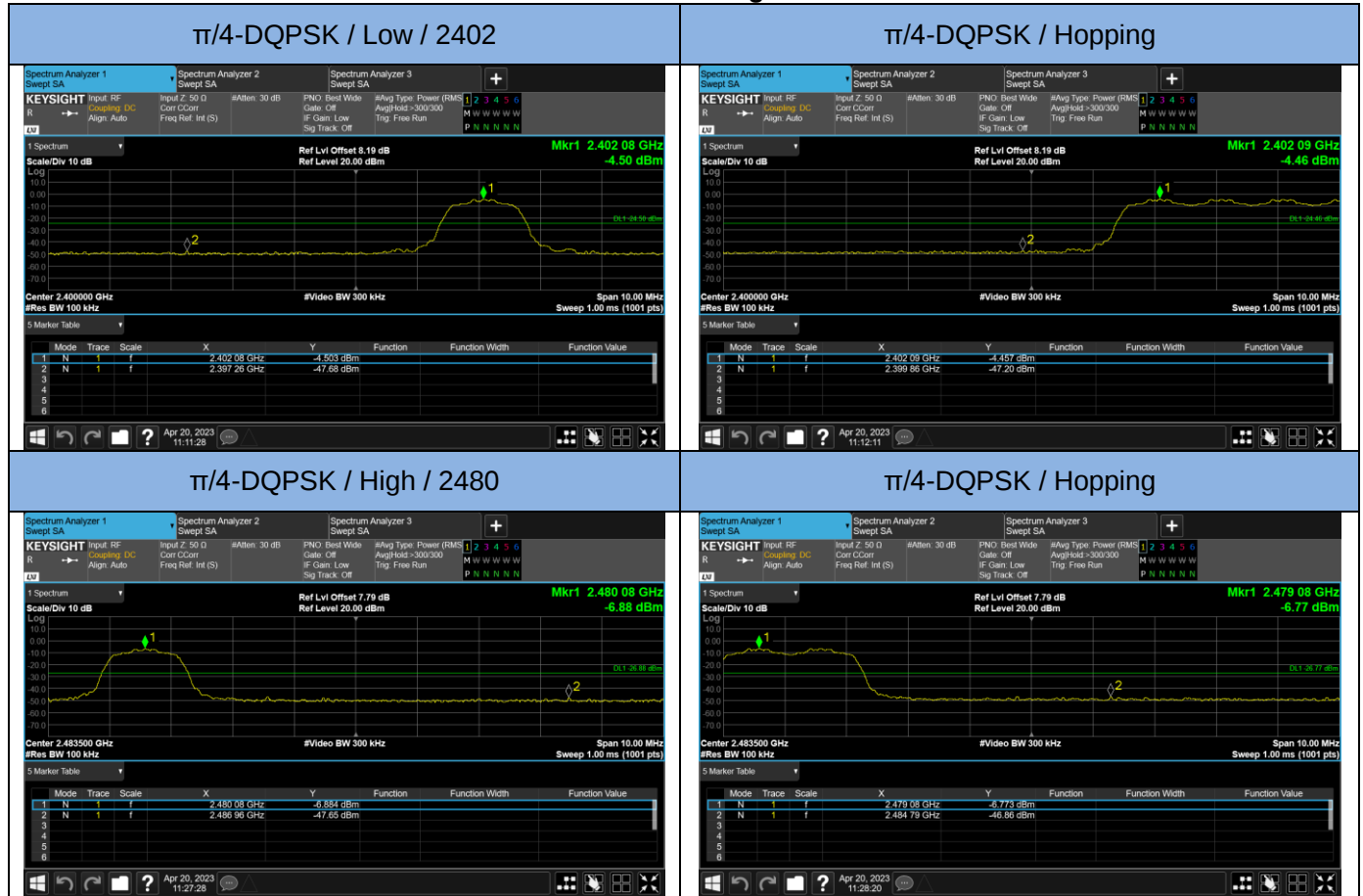
PASS

Please refer to the following test plots.

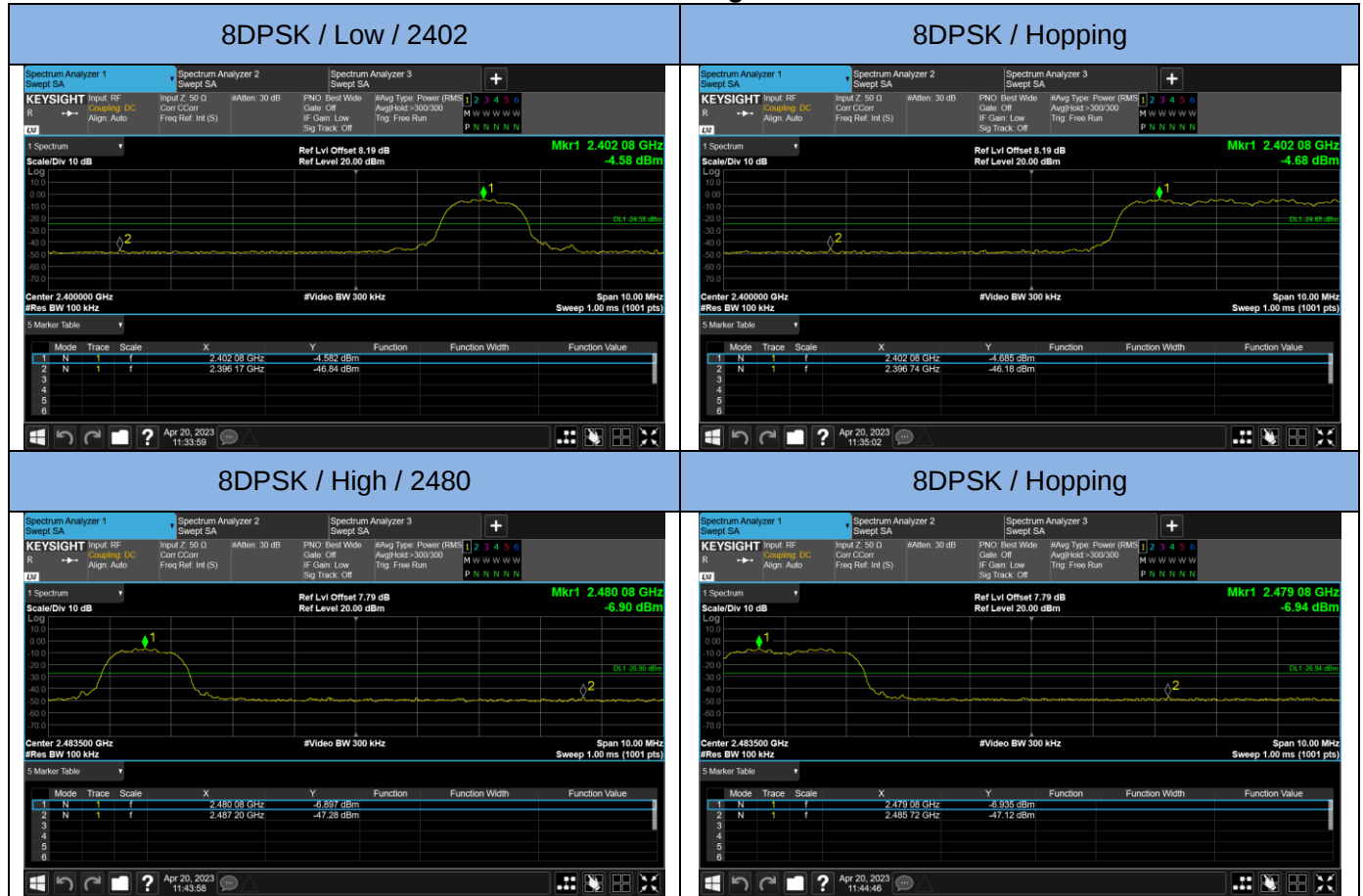
## Band Edge



## Band Edge

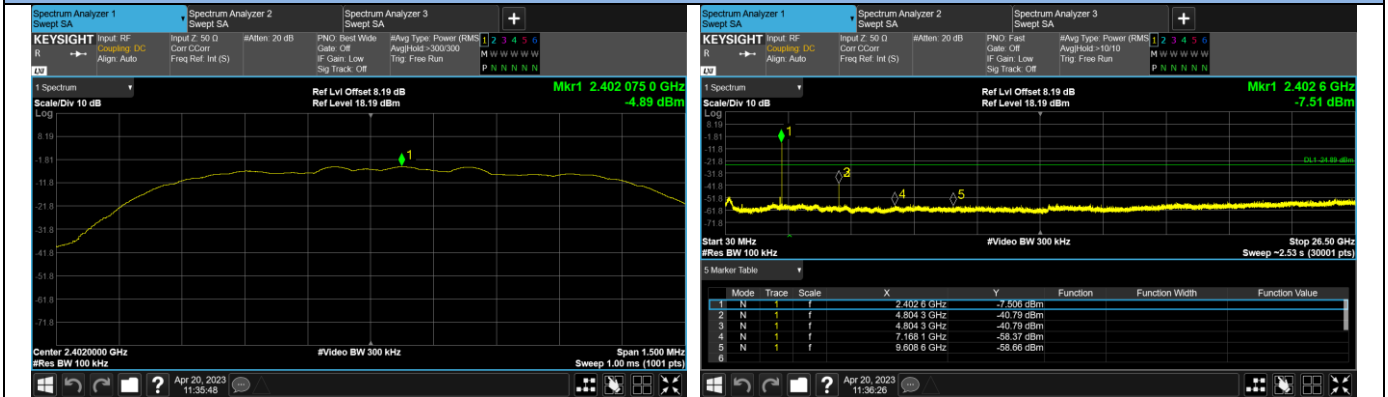


## Band Edge

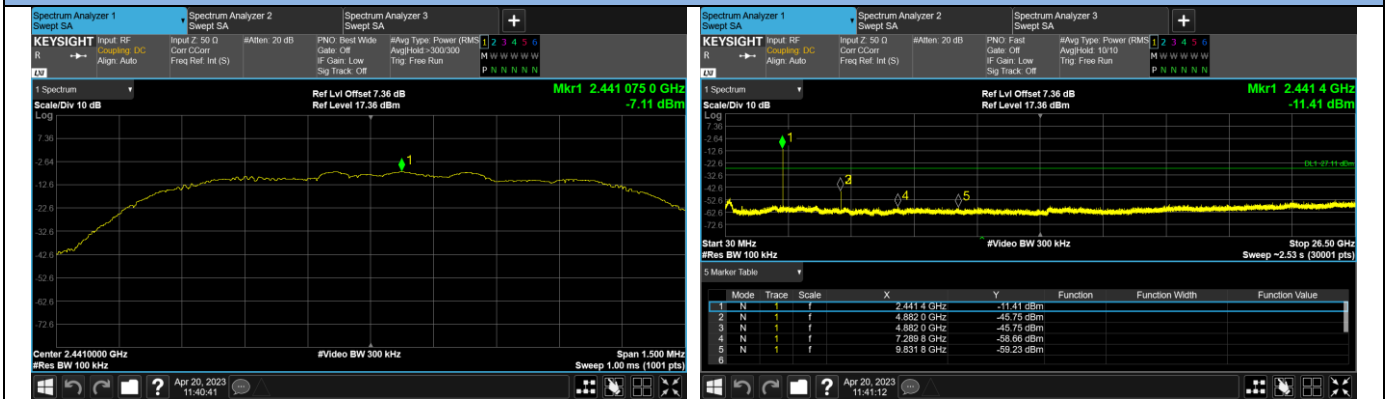


## Conducted Spurious Emission (the worst case)

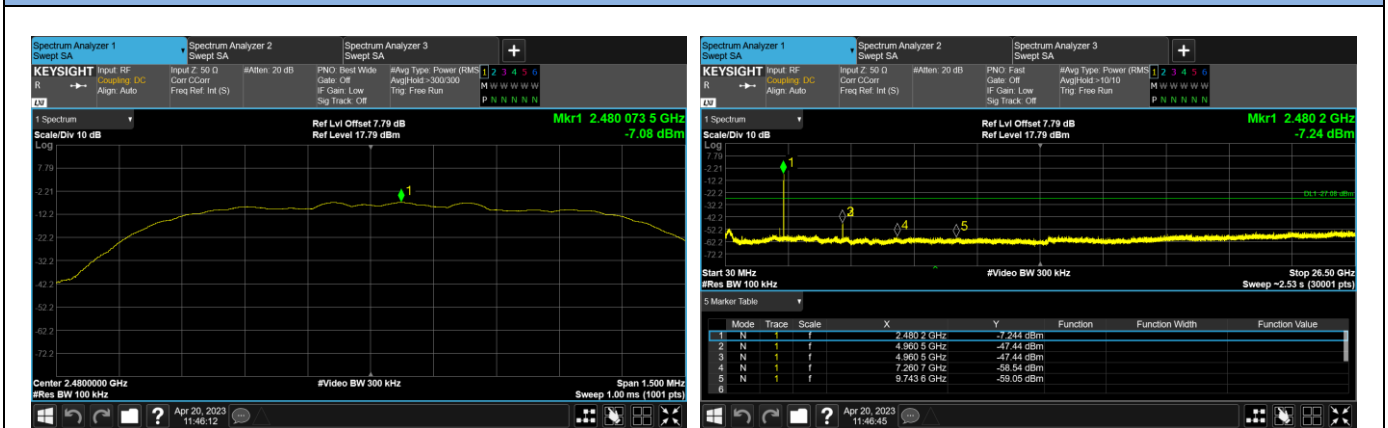
### 8DPSK / Low Channel / 30MHz~26.5GHz



### 8DPSK / Mid Channel / 30MHz~26.5GHz



### 8DPSK / High Channel / 30MHz~26.5GHz



## 13.9 Antenna Requirement

### STANDARD APPLICABLE

According to of FCC part 15C section 15.203 and 15.247:

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.

Systems operating in the 2400-2483.5MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

### ANTENNA CONNECTED CONSTRUCTION

The antenna is PCB antenna that no antenna other than furnished by the responsible party shall be used with the device, and the best case gain of the antenna is -0.68dBi, Therefore, the antenna is considered to meet the requirement.

## 14. Test Equipment List

| Item | Equipment                      | Manufacturer                      | Model No. | Serial No.        | Last Cal.     | Cal. Interval |
|------|--------------------------------|-----------------------------------|-----------|-------------------|---------------|---------------|
| 1.   | Test Receiver                  | Rohde & Schwarz                   | ESCI7     | 100837            | Mar. 13, 2023 | 1 Year        |
| 2.   | Antenna                        | Schwarzbeck                       | VULB9162  | 9162-010          | Mar. 23, 2022 | 2 Year        |
| 3.   | Spectrum Analyzer              | Rohde & Schwarz                   | FSU26     | 200409/026        | Mar. 13, 2023 | 1 Year        |
| 4.   | Spectrum Analyzer              | Keysight                          | N9020A    | MY54200831        | Mar. 13, 2023 | 1 Year        |
| 5.   | Spectrum Analyzer              | Rohde & Schwarz                   | FSV40     | 101094            | Mar. 13, 2023 | 1 Year        |
| 6.   | Horn Antenna                   | Schwarzbeck                       | BBHA9170  | 9170-172          | Mar. 23, 2022 | 2 Year        |
| 7.   | Power Sensor                   | DARE                              | RPR3006W  | 15I00041SNO<br>64 | Mar. 13, 2023 | 1 Year        |
| 8.   | Communication Tester           | Rohde & Schwarz                   | CMW500    | 149004            | Mar. 13, 2023 | 1 Year        |
| 9.   | Horn Antenna                   | COM-Power                         | AH-118    | 071078            | Mar. 23, 2022 | 2 Year        |
| 10.  | Pre-Amplifier                  | HP                                | HP 8449B  | 3008A00964        | Mar. 13, 2023 | 1 Year        |
| 11.  | Pre-Amplifier                  | HP                                | HP 8447D  | 1145A00203        | Mar. 13, 2023 | 1 Year        |
| 12.  | Loop Antenna                   | Schwarzbeck                       | FMZB 1513 | 1513-272          | Mar. 23, 2022 | 2 Year        |
| 13.  | Test Receiver                  | Rohde & Schwarz                   | ESCI      | 101152            | Mar. 13, 2023 | 1 Year        |
| 14.  | L.I.S.N                        | Rohde & Schwarz                   | ENV 216   | 101317            | Mar. 13, 2023 | 1 Year        |
| 15.  | L.I.S.N                        | Rohde & Schwarz                   | ESH2-Z5   | 893606/014        | Mar. 13, 2023 | 1 Year        |
| 16.  | RF Switching Unit              | Compliance Direction Systems Inc. | RSU-M2    | 38311             | Mar. 13, 2023 | 1 Year        |
| 17.  | Temperature & Humidity Chamber | REMAFEE                           | SYHR225L  | N/A               | Mar. 13, 2023 | 1 Year        |
| 18.  | DC Source                      | Maynuo                            | MY8811    | N/A               | Mar. 13, 2023 | 1 Year        |
| 19.  | Temporary antenna connector    | TESCOM                            | SS402     | N/A               | N/A           | N/A           |
| 20.  | Chamber                        | SAEMC                             | 9*7*7m    | N/A               | Apr. 21, 2023 | 2 Year        |
| 21.  | Test Software                  | EZ                                | EZ_EM C   | N/A               | N/A           | N/A           |

Note: For photographs of EUT and measurement, please refer to appendix in separate documents.

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