



TEST REPORT

FCC PART 15 SUBPART C 15.247

**Test report
On Behalf of
Shenzhen Meizi Precision Co., Ltd.
For
M5-Z2 Smart speaker
Model No.: M5-Z2**

FCC ID: 2AZYGM5-Z2

Prepared For : Shenzhen Meizi Precision Co., Ltd.

Room 905, Building 1, Geya Building, Matian Street, Guangming New District, Shenzhen, China

Prepared By : Shenzhen HUAK Testing Technology Co., Ltd.

1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Date of Test: July. 14, 2021 ~July. 21, 2021

Date of Report: July. 21, 2021

Report Number: HK2107142379-E

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**TEST RESULT CERTIFICATION****Applicant's name** Shenzhen Meizi Precision Co., Ltd.

Address Room 905, Building 1, Geya Building, Matian Street, Guangming New District, Shenzhen, China

Manufacture's Name .. Shenzhen Meizi Precision Co., Ltd.

Address Room 905, Building 1, Geya Building, Matian Street, Guangming New District, Shenzhen, China

Product description

Trade Mark: N/A

Product name M5-Z2 Smart speaker

Model and/or type M5-Z2
reference**Standards**..... **47 CFR FCC Part 15 Subpart C 15.247**

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Date of Test

Date (s) of performance of tests.... July. 14, 2021 ~July. 21, 2021

Date of Issue July. 21, 2021

Test Result **Pass**

Prepared by:

Project Engineer

Reviewed by:

Project Supervisor

Approved by:

Technical Director

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**** Modified History ****

| Revision | Description | Issued Data | Remark |
|--------------|-----------------------------|----------------|------------|
| Revision 1.0 | Initial Test Report Release | July. 21, 2021 | Jason Zhou |
| | | | |
| | | | |

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1. SUMMARY

1.1. TEST STANDARDS

The tests were performed according to following standards:

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

ANSI C63.10:2013 : American National Standard for Testing Unlicensed Wireless Devices

1.2. TEST DESCRIPTION

| FCC PART 15.247 | | |
|----------------------------|---|------|
| FCC Part 15.207 | AC Power Conducted Emission | PASS |
| FCC Part 15.215 | 20dB Bandwidth& 99% Bandwidth | PASS |
| FCC Part 15.247(d) | Spurious RF Conducted Emission | PASS |
| FCC Part 15.247(b) | Maximum Peak Output Power | PASS |
| FCC Part 15.247(a)(1) | Pseudorandom Frequency Hopping Sequence | PASS |
| FCC Part 15.247(a)(1)(iii) | Number of hopping frequency & Time of Occupancy | PASS |
| FCC Part 15.247(a)(1) | Frequency Separation | PASS |
| FCC Part 15.205/15.209 | Radiated Emissions | PASS |
| FCC Part 15.247(d) | Band Edge Compliance of RF Emission | PASS |



1.3. TEST FACILITY

1.3.1 Address of the test laboratory

Shenzhen HUAK Testing Technology Co., Ltd.

Address: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

There is one 3m semi-anechoic chamber and two line conducted labs for final test. The Test Sites meet the requirements in documents ANSI C63.10 and CISPR 32/EN 55032 requirements.

1.3.2 Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

IC Registration No.: 21210

The 3m alternate test site of Shenzhen HUAK Testing Technology Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of with Registration No.: 21210 on May 24, 2016.

1.4. STATEMENT OF THE MEASUREMENT UNCERTAINTY

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen HUAK Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for HUAK laboratory is reported:

| Test | Measurement Uncertainty | Notes |
|---|-------------------------|-------|
| Transmitter power conducted | ±0.37dB | (1) |
| Transmitter power Radiated | ±3.35dB | (1) |
| Conducted spurious emission 9KHz-40 GHz | ±2.20dB | (1) |
| Occupied Bandwidth | ±3.68% | (1) |
| Radiated Emission 30~1000MHz | ±3.90dB | (1) |
| Radiated Emission Above 1GHz | ±4.28dB | (1) |
| Conducted Disturbance 0.15~30MHz | ±2.71dB | (1) |

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



2. GENERAL INFORMATION

2.1. ENVIRONMENTAL CONDITIONS

During the measurement the environmental conditions were within the listed ranges:

| | |
|---------------------|---------|
| Normal Temperature: | 25°C |
| Relative Humidity: | 55 % |
| Air Pressure: | 101 kPa |

2.2. GENERAL DESCRIPTION OF EUT

| | |
|-----------------------|---|
| Product Name: | M5-Z2 Smart speaker |
| Model/Type reference: | M5-Z2 |
| Serial Model: | N/A |
| Model Difference: | N/A |
| Power supply: | DC 3.7V from battery or DC 5V from Type-C |
| Version: | Supported EDR |
| Modulation: | GFSK, $\pi/4$ DQPSK, 8DPSK |
| Operation frequency: | 2402MHz~2480MHz |
| Channel number: | 79CH |
| Channel separation: | 1MHz |
| Antenna type: | PCB Antenna |
| Antenna gain: | 0dBi |
| Hardware Version: | V1.1 |
| Software Version: | V1.1 |

Note: For more details, refer to the user's manual of the EUT.



2.3. DESCRIPTION OF TEST MODES AND TEST FREQUENCY

The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing.

There are 79 channels provided to the EUT and Channel 00/39/78 was selected for testing.

Operation Frequency :

| Channel | Frequency (MHz) |
|---------|-----------------|
| 00 | 2402 |
| 01 | 2403 |
| : | : |
| 38 | 2440 |
| 39 | 2441 |
| 40 | 2442 |
| : | : |
| 77 | 2479 |
| 78 | 2480 |

Note: The line display in grey were the channel selected for testing.

Preliminary tests were performed in each mode and packet length of BT, and found worst case as bellow, finally test were conducted at those mode and recorded in this report.

| Test Items | Worst case |
|----------------------------------|--|
| Conducted Emissions | DH5 High channel |
| Radiated Emissions and Band Edge | DH5 Low channel |
| Maximum Conducted Output Power | DH5/2DH5/3DH5 |
| 20dB Bandwidth&99% Bandwidth | DH5/2DH5/3DH5 |
| Frequency Separation | DH5/2DH5/3DH5 Middle channel |
| Number of hopping frequency | DH5/2DH5/3DH5 |
| Time of Occupancy (Dwell Time) | DH1/DH3/DH5 Middle channel 2DH1/2DH3/2DH5 Middle channel 3DH1/3DH3/3DH5 Middle channel |
| Out-of-band Emissions | DH5/2DH5/3DH5 |



2.4. EQUIPMENTS USED DURING THE TEST

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|--------------------------------------|-----------------|------------------|------------|---------------|---------------|
| 1. | L.I.S.N. Artificial Mains Network | R&S | ENV216 | HKE-002 | Dec. 10, 2020 | 1 Year |
| 2. | Receiver | R&S | ESCI 7 | HKE-010 | Dec. 10, 2020 | 1 Year |
| 3. | RF automatic control unit | Tonscend | JS0806-2 | HKE-060 | Dec. 10, 2020 | 1 Year |
| 4. | Spectrum analyzer | R&S | FSP40 | HKE-025 | Dec. 10, 2020 | 1 Year |
| 5. | Spectrum analyzer | Agilent | N9020A | HKE-048 | Dec. 10, 2020 | 1 Year |
| 6. | Preamplifier | Schwarzbeck | BBV 9743 | HKE-006 | Dec. 10, 2020 | 1 Year |
| 7. | EMI Test Receiver | Rohde & Schwarz | ESCI 7 | HKE-010 | Dec. 10, 2020 | 1 Year |
| 8. | Bilog Broadband Antenna | Schwarzbeck | VULB9163 | HKE-012 | Dec. 10, 2020 | 1 Year |
| 9. | Loop Antenna | Schwarzbeck | FMZB 1519 B | HKE-014 | Dec. 10, 2020 | 1 Year |
| 10. | Horn Antenna | Schwarzbeck | 9120D | HKE-013 | Dec. 10, 2020 | 1 Year |
| 11. | Pre-amplifier | EMCI | EMC051845 SE | HKE-015 | Dec. 10, 2020 | 1 Year |
| 12. | Pre-amplifier | Agilent | 83051A | HKE-016 | Dec. 10, 2020 | 1 Year |
| 13. | EMI Test Software EZ-EMC | Tonscend | JS1120-B Version | HKE-083 | N/A | N/A |
| 14. | Power Sensor | Agilent | E9300A | HKE-086 | Dec. 10, 2020 | 1 Year |
| 15. | Spectrum analyzer | Agilent | N9020A | HKE-048 | Dec. 10, 2020 | 1 Year |
| 16. | Signal generator | Agilent | N5182A | HKE-029 | Dec. 10, 2020 | 1 Year |
| 17. | Signal Generator | Agilent | 83630A | HKE-028 | Dec. 10, 2020 | 1 Year |
| 18. | Shielded room | Shiel Hong | 4*3*3 | HKE-039 | Dec. 17, 2020 | 1 Year |
| 19. | Power meter | Agilent | E4419B | HKE-085 | Dec. 10, 2020 | 1 Year |
| 20. | High gain antenna | Schwarzbeck | LB-180400 KF | HKE-054 | Dec. 10, 2020 | 1 Year |

The calibration interval was one year.

2.5. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

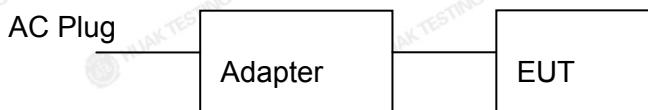
2.6. MODIFICATIONS

No modifications were implemented to meet testing criteria.



2.7. DESCRIPTION OF TEST SETUP

Operation of EUT during conducted and radiation below 1GHz testing:



Operation of EUT during radiation above 1GHz testing:



Adapter information

Model: HW-059200CHQ

Input: 100-240V, 50-60Hz, 0.5A

Output: 5VDC, 2A

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position.



3. TEST CONDITIONS AND RESULTS

3.1. CONDUCTED EMISSIONS TEST

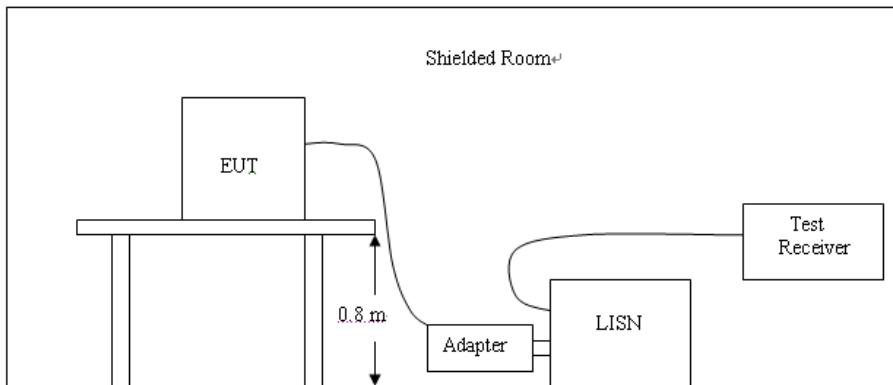
LIMIT

According to FCC CFR Title 47 Part 15 Subpart C Section 15.207 and RSS Gen 8.8, AC Power Line Conducted Emissions Limits for License-Exempt Radio Apparatus as below:

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

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION



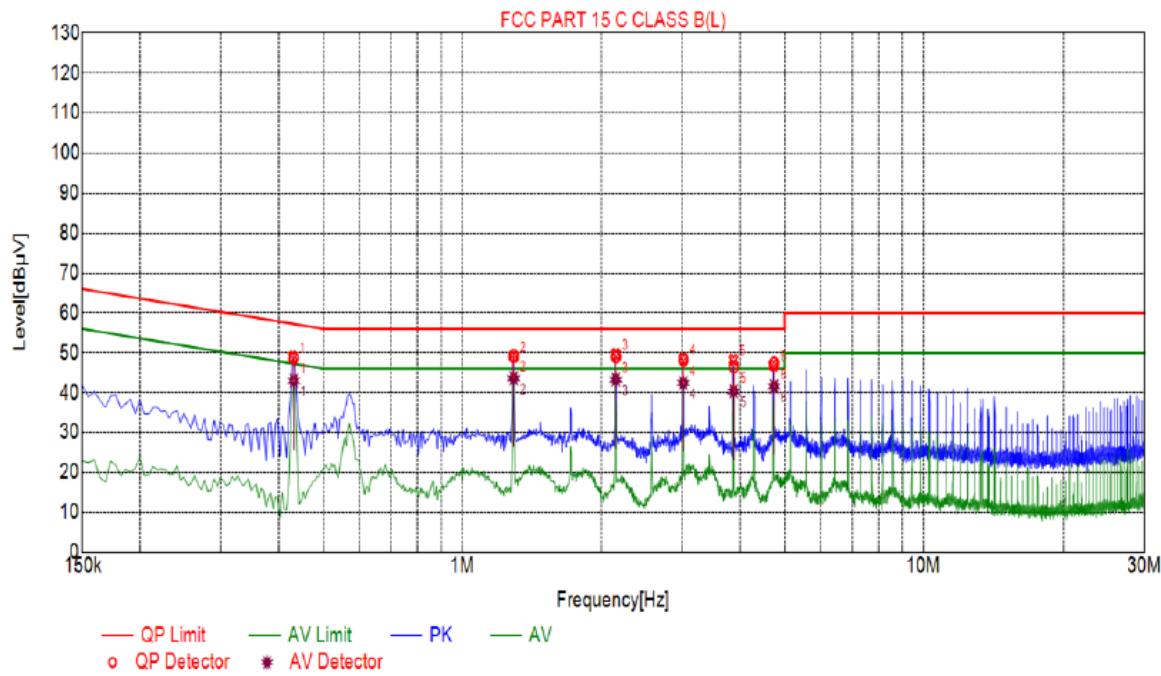
TEST PROCEDURE

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10:2013.
2. Support equipment, if needed, was placed as per ANSI C63.10:2013.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10:2013.
4. The adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.

**TEST RESULTS**

Remark: All modes of GFSK, Pi/4 DQPSK, and 8DPSK were test at Low, Middle, and High channel; only the worst result of GFSK High Channel was reported as below:

Test Specification: Line

**Suspected List**

| NO. | Freq. [MHz] | Level [dBμV] | Factor [dB] | Limit [dBμV] | Margin [dB] | Reading [dBμV] | Detector | Type |
|-----|-------------|--------------|-------------|--------------|-------------|----------------|----------|------|
| 1 | 0.4290 | 48.97 | 20.05 | 57.27 | 8.30 | 28.92 | PK | L |
| 2 | 1.2930 | 49.04 | 20.09 | 56.00 | 6.96 | 28.95 | PK | L |
| 3 | 2.1525 | 49.68 | 20.16 | 56.00 | 6.32 | 29.52 | PK | L |
| 4 | 3.0120 | 48.51 | 20.22 | 56.00 | 7.49 | 28.29 | PK | L |
| 5 | 3.8715 | 48.23 | 20.25 | 56.00 | 7.77 | 27.98 | PK | L |
| 6 | 4.7355 | 46.87 | 20.26 | 56.00 | 9.13 | 26.61 | PK | L |

Final Data List

| NO. | Freq. [MHz] | Correction factor [dB] | QP Value [dBμV] | QP Limit [dBμV] | QP Margin [dB] | QP Reading [dBμV] | AV Value [dBμV] | AV Limit [dBμV] | AV Margin [dB] | AV Reading [dBμV] | Type |
|-----|-------------|------------------------|-----------------|-----------------|----------------|-------------------|-----------------|-----------------|----------------|-------------------|------|
| 1 | 0.4308 | 20.05 | 48.75 | 57.24 | 8.49 | 28.70 | 43.00 | 47.24 | 4.24 | 22.95 | L |
| 2 | 1.2922 | 20.09 | 49.29 | 56.00 | 6.71 | 29.20 | 43.61 | 46.00 | 2.39 | 23.52 | L |
| 3 | 2.1539 | 20.16 | 48.99 | 56.00 | 7.01 | 28.83 | 43.31 | 46.00 | 2.69 | 23.15 | L |
| 4 | 3.0165 | 20.22 | 48.23 | 56.00 | 7.77 | 28.01 | 42.45 | 46.00 | 3.55 | 22.23 | L |
| 5 | 3.8783 | 20.25 | 46.50 | 56.00 | 9.50 | 26.25 | 40.35 | 46.00 | 5.65 | 20.10 | L |
| 6 | 4.7425 | 20.26 | 47.42 | 56.00 | 8.58 | 27.16 | 41.59 | 46.00 | 4.41 | 21.33 | L |

Remark: Margin = Limit – Level

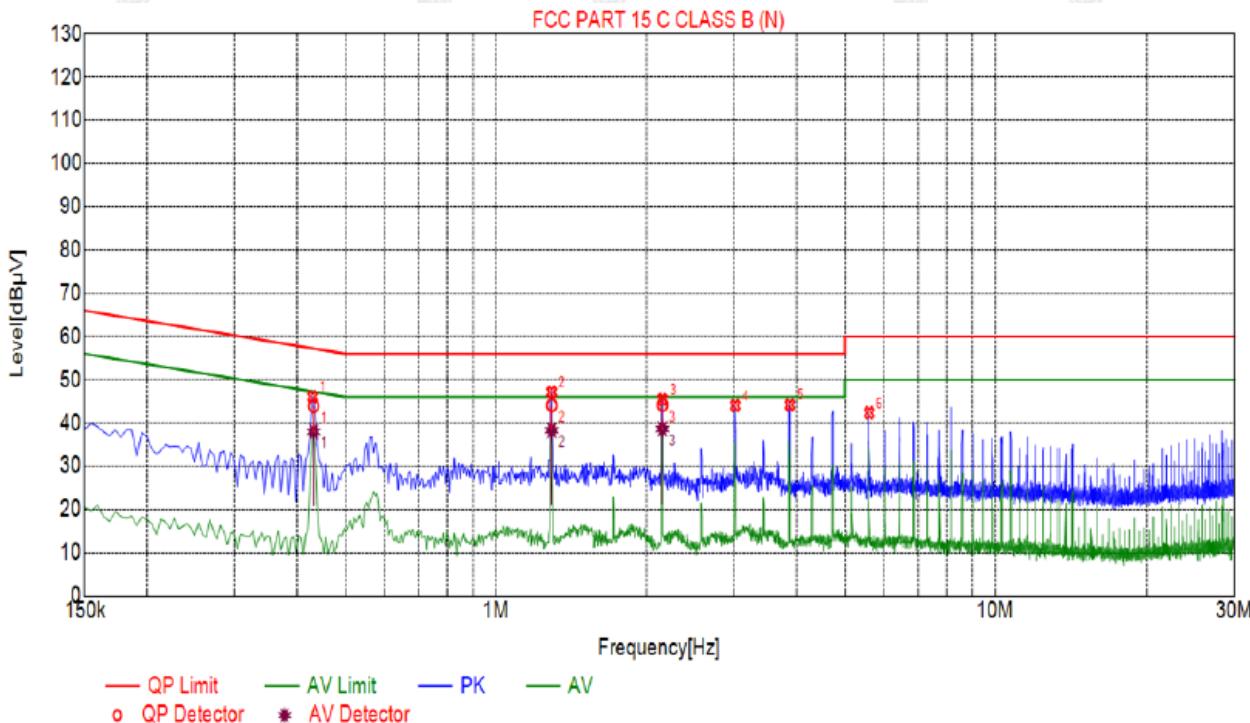
Correction factor = Cable loss + LISN insertion loss

Level=Test receiver reading + correction factor

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Test Specification: Neutral



Suspected List

| NO. | Freq. [MHz] | Level [dBμV] | Factor [dB] | Limit [dBμV] | Margin [dB] | Reading [dBμV] | Detector | Type |
|-----|-------------|--------------|-------------|--------------|-------------|----------------|----------|------|
| 1 | 0.4290 | 46.05 | 20.05 | 57.27 | 11.22 | 26.00 | PK | N |
| 2 | 1.2930 | 47.15 | 20.09 | 56.00 | 8.85 | 27.06 | PK | N |
| 3 | 2.1570 | 45.46 | 20.16 | 56.00 | 10.54 | 25.30 | PK | N |
| 4 | 3.0165 | 44.04 | 20.22 | 56.00 | 11.96 | 23.82 | PK | N |
| 5 | 3.8805 | 44.16 | 20.25 | 56.00 | 11.84 | 23.91 | PK | N |
| 6 | 5.5995 | 42.34 | 20.25 | 60.00 | 17.66 | 22.09 | PK | N |

Final Data List

| NO. | Freq. [MHz] | Correction factor[dB] | QP Value [dBμV] | QP Limit [dBμV] | QP Margin [dB] | QP Reading [dBμV] | AV Value [dBμV] | AV Limit [dBμV] | AV Margin [dB] | AV Reading [dBμV] | Type |
|-----|-------------|-----------------------|-----------------|-----------------|----------------|-------------------|-----------------|-----------------|----------------|-------------------|------|
| 1 | 0.4310 | 20.05 | 43.93 | 57.23 | 13.30 | 23.88 | 37.96 | 47.23 | 9.27 | 17.91 | N |
| 2 | 1.2930 | 20.09 | 44.08 | 56.00 | 11.92 | 23.99 | 38.29 | 46.00 | 7.71 | 18.20 | N |
| 3 | 2.1563 | 20.16 | 44.16 | 56.00 | 11.84 | 24.00 | 38.62 | 46.00 | 7.38 | 18.46 | N |

Remark: Margin = Limit – Level

Correction factor = Cable loss + LISN insertion loss

Level=Test receiver reading + correction factor



3.2. RADIATED EMISSIONS AND BAND EDGE

Limit

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

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).

Except when the requirements applicable to a given device state otherwise, emissions from license-exempt transmitters shall comply with the field strength limits shown in table below. Additionally, the level of any transmitter emission shall not exceed the level of the transmitter's fundamental emission.

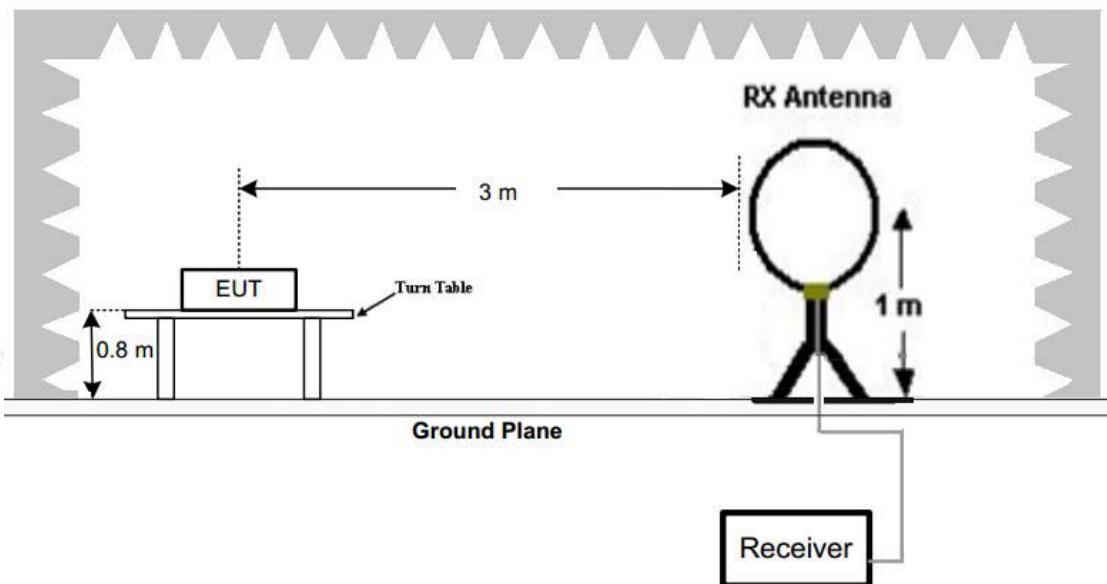
Unwanted emissions that fall into restricted bands shall comply with the limits specified in RSS-Gen; and Unwanted emissions that do not fall within the restricted frequency bands shall comply either with the limits specified in the applicable RSS or with those specified in this RSS-Gen.

Radiated emission limits

| Frequency (MHz) | Distance (Meters) | Radiated (dB μ V/m) | Radiated (μ V/m) |
|-----------------|-------------------|----------------------------------|-----------------------|
| 0.009-0.49 | 3 | 20log(2400/F(KHz))+40log(300/3) | 2400/F(KHz) |
| 0.49-1.705 | 3 | 20log(24000/F(KHz))+ 40log(30/3) | 24000/F(KHz) |
| 1.705-30 | 3 | 20log(30)+ 40log(30/3) | 30 |
| 30-88 | 3 | 40.0 | 100 |
| 88-216 | 3 | 43.5 | 150 |
| 216-960 | 3 | 46.0 | 200 |
| Above 960 | 3 | 54.0 | 500 |

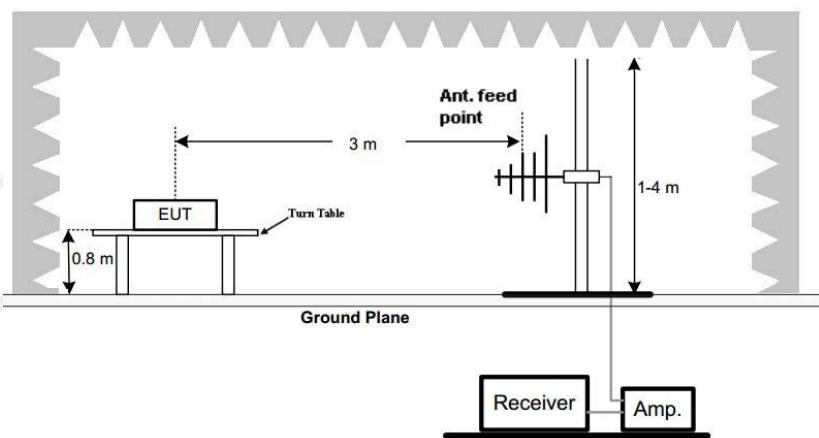
TEST CONFIGURATION

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

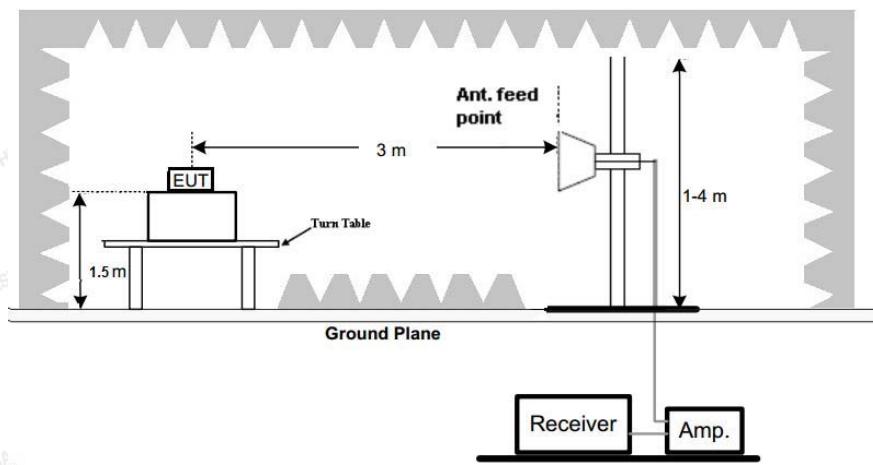




(B) Radiated Emission Test Set-Up, Frequency below 1000MHz.



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz.



Test Procedure

1. The EUT was placed on turn table which is 0.8m above ground plane for below 1GHz test, and on a low permittivity and low loss tangent turn table which is 1.5m above ground plane for above 1GHz test.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.

TEST RESULTS

Remark:

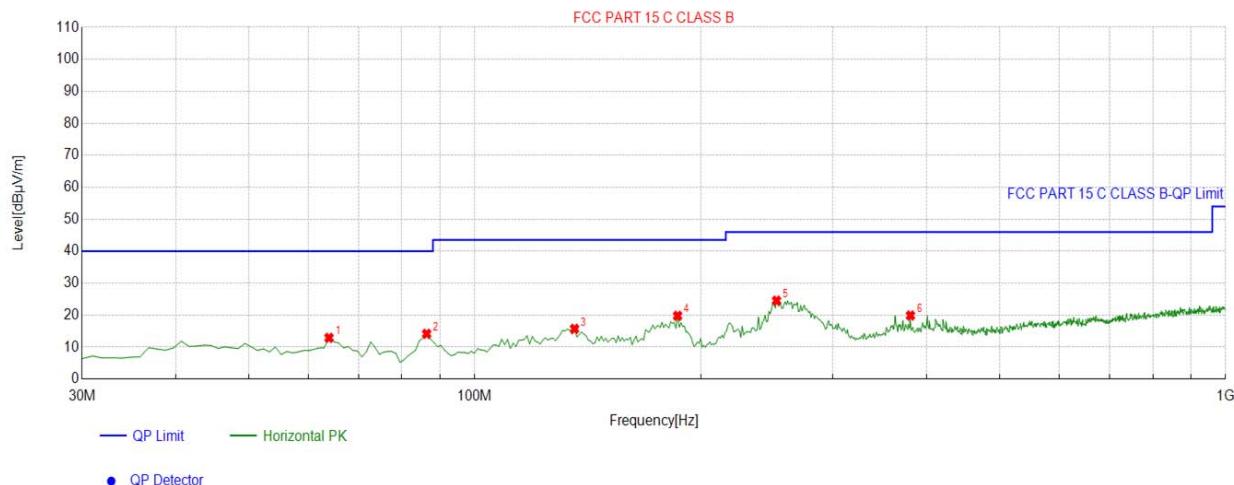
1. Radiated Emission measured at GFSK, $\pi/4$ DQPSK and 8DPSK mode from 9 KHz to 10th harmonic of fundamental and recorded worst case at GFSK DH5 mode.
2. There is no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.
3. For below 1GHz testing recorded worst at GFSK DH5 low channel.

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Below 1GHz Test Results:

Antenna polarity: H

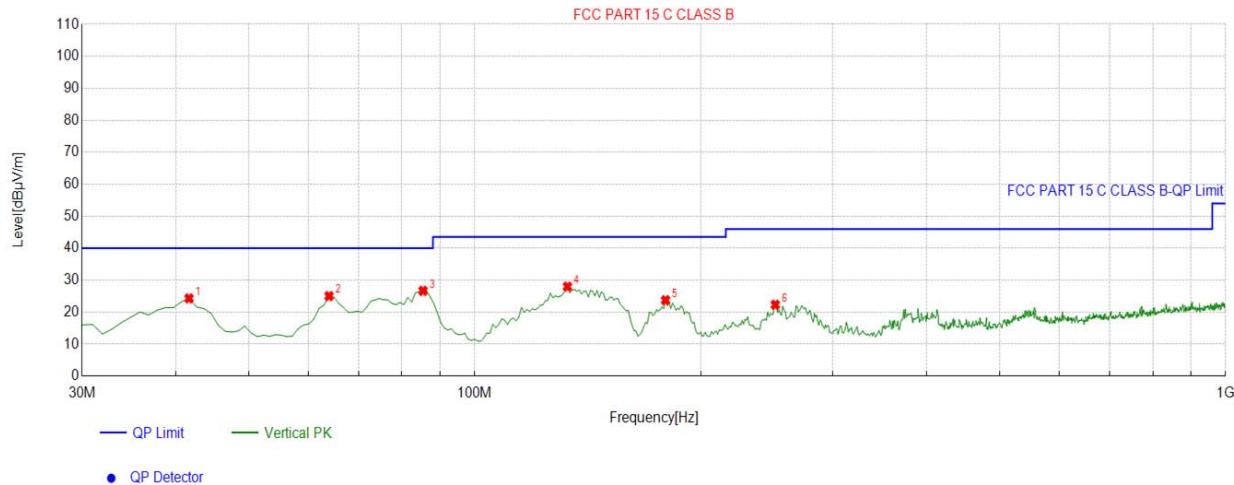


| Suspected List | | | | | | | | | |
|----------------|-------------|-------------|------------------------|----------------------|----------------------|-------------|-------------|-----------|------------|
| NO. | Freq. [MHz] | Factor [dB] | Reading [dB μ V/m] | Level [dB μ V/m] | Limit [dB μ V/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 63.9840 | -16.16 | 29.05 | 12.89 | 40.00 | 27.11 | 100 | 357 | Horizontal |
| 2 | 86.3163 | -17.95 | 32.10 | 14.15 | 40.00 | 25.85 | 100 | 343 | Horizontal |
| 3 | 135.8358 | -18.93 | 34.63 | 15.70 | 43.50 | 27.80 | 100 | 312 | Horizontal |
| 4 | 186.3263 | -16.32 | 36.10 | 19.78 | 43.50 | 23.72 | 100 | 101 | Horizontal |
| 5 | 252.3524 | -13.42 | 37.94 | 24.52 | 46.00 | 21.48 | 100 | 161 | Horizontal |
| 6 | 380.5205 | -10.82 | 30.70 | 19.88 | 46.00 | 26.12 | 100 | 319 | Horizontal |

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Antenna polarity: V



| Suspected List | | | | | | | | | |
|----------------|-------------|-------------|------------------------|----------------------|----------------------|-------------|-------------|-----------|----------|
| NO. | Freq. [MHz] | Factor [dB] | Reading [dB μ V/m] | Level [dB μ V/m] | Limit [dB μ V/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 41.6517 | -14.25 | 38.55 | 24.30 | 40.00 | 15.70 | 100 | 112 | Vertical |
| 2 | 63.9840 | -16.16 | 41.16 | 25.00 | 40.00 | 15.00 | 100 | 341 | Vertical |
| 3 | 85.3453 | -18.19 | 44.85 | 26.66 | 40.00 | 13.34 | 100 | 64 | Vertical |
| 4 | 132.9229 | -18.75 | 46.72 | 27.97 | 43.50 | 15.53 | 100 | 199 | Vertical |
| 5 | 179.5295 | -16.88 | 40.61 | 23.73 | 43.50 | 19.77 | 100 | 262 | Vertical |
| 6 | 251.3814 | -13.41 | 35.71 | 22.30 | 46.00 | 23.70 | 100 | 167 | Vertical |

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Harmonics and Spurious Emissions

Frequency Range (9kHz-30MHz)

| Frequency (MHz) | Level@3m (dB μ V/m) | Limit@3m (dB μ V/m) |
|-----------------|-------------------------|-------------------------|
| -- | -- | -- |
| -- | -- | -- |
| -- | -- | -- |
| -- | -- | -- |

Note: 1. Emission Level=Reading+ Cable loss+ Antenna factor-Amp factor.

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.

**For 1GHz to 25GHz**

CH Low (2402MHz)

Horizontal:

| Frequency (MHz) | Meter Reading (dB μ V) | Factor (dB) | Emission Level (dB μ V/m) | Limits (dB μ V/m) | Margin (dB) | Detector Type |
|--------------------|----------------------------------|----------------|----------------------------------|--------------------------|----------------|------------------|
| 4804.00 | 56.69 | -3.65 | 53.04 | 74.00 | -20.96 | peak |
| 4804.00 | 42.17 | -3.65 | 38.52 | 54.00 | -15.48 | AVG |
| 7206.00 | 53.78 | -0.95 | 52.83 | 74.00 | -21.17 | peak |
| 7206.00 | 38.24 | -0.95 | 37.29 | 54.00 | -16.71 | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency (MHz) | Meter Reading (dB μ V) | Factor (dB) | Emission Level (dB μ V/m) | Limits (dB μ V/m) | Margin (dB) | Detector Type |
|--------------------|----------------------------------|----------------|----------------------------------|--------------------------|----------------|------------------|
| 4804.00 | 57.16 | -3.65 | 53.51 | 74.00 | -20.49 | peak |
| 4804.00 | 42.73 | -3.65 | 39.08 | 54.00 | -14.92 | AVG |
| 7206.00 | 53.62 | -0.95 | 52.67 | 74.00 | -21.33 | peak |
| 7206.00 | 39.43 | -0.95 | 38.48 | 54.00 | -15.52 | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



CH Middle (2441MHz)

Horizontal:

| Frequency (MHz) | Meter Reading (dB μ V) | Factor (dB) | Emission Level (dB μ V/m) | Limits (dB μ V/m) | Margin (dB) | Detector Type |
|--------------------|----------------------------------|----------------|----------------------------------|--------------------------|----------------|------------------|
| 4882.00 | 56.46 | -3.54 | 52.92 | 74.00 | -21.08 | peak |
| 4882.00 | 44.83 | -3.54 | 41.29 | 54.00 | -12.71 | AVG |
| 7323.00 | 53.31 | -0.81 | 52.50 | 74.00 | -21.50 | peak |
| 7323.00 | 40.22 | -0.81 | 39.41 | 54.00 | -14.59 | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency (MHz) | Meter Reading (dB μ V) | Factor (dB) | Emission Level (dB μ V/m) | Limits (dB μ V/m) | Margin (dB) | Detector Type |
|--------------------|----------------------------------|----------------|----------------------------------|--------------------------|----------------|------------------|
| 4882.00 | 56.79 | -3.54 | 53.25 | 74.00 | -20.75 | peak |
| 4882.00 | 42.52 | -3.54 | 38.98 | 54.00 | -15.02 | AVG |
| 7323.00 | 53.44 | -0.81 | 52.63 | 74.00 | -21.37 | peak |
| 7323.00 | 38.21 | -0.81 | 37.40 | 54.00 | -16.60 | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



CH High (2480MHz)

Horizontal:

| Frequency (MHz) | Meter Reading (dB μ V) | Factor (dB) | Emission Level (dB μ V/m) | Limits (dB μ V/m) | Margin (dB) | Detector Type |
|--------------------|----------------------------------|----------------|----------------------------------|--------------------------|----------------|------------------|
| 4960.00 | 56.12 | -3.43 | 52.69 | 74.00 | -21.31 | peak |
| 4960.00 | 43.69 | -3.44 | 40.25 | 54.00 | -13.75 | AVG |
| 7440.00 | 52.08 | -0.77 | 51.31 | 74.00 | -22.69 | peak |
| 7440.00 | 37.75 | -0.77 | 36.98 | 54.00 | -17.02 | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency (MHz) | Meter Reading (dB μ V) | Factor (dB) | Emission Level (dB μ V/m) | Limits (dB μ V/m) | Margin (dB) | Detector Type |
|--------------------|----------------------------------|----------------|----------------------------------|--------------------------|----------------|------------------|
| 4960.00 | 57.28 | -3.43 | 53.85 | 74.00 | -20.15 | peak |
| 4960.00 | 42.75 | -3.44 | 39.31 | 54.00 | -14.69 | AVG |
| 7440.00 | 53.69 | -0.77 | 52.92 | 74.00 | -21.08 | peak |
| 7440.00 | 38.43 | -0.77 | 37.66 | 54.00 | -16.34 | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark :

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dB μ V/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dB μ V/m(PK Value) <54 dB μ V/m(AV Limit), the Average Detected not need to completed.
- (7) All modes of operation were investigated and the worst-case emissions are reported.



Radiated Band Edge Test:

Hopping

Horizontal (Worst case)

| Frequency (MHz) | Meter Reading (dB μ V) | Factor (dB) | Emission Level (dB μ V/m) | Limits (dB μ V/m) | Margin (dB) | Detector Type |
|--------------------|----------------------------------|----------------|----------------------------------|--------------------------|----------------|------------------|
| 2310.00 | 57.25 | -5.81 | 51.44 | 74 | -22.56 | peak |
| 2310.00 | / | -5.81 | / | 54 | / | AVG |
| 2390.00 | 56.41 | -5.84 | 50.57 | 74 | -23.43 | peak |
| 2390.00 | / | -5.84 | / | 54 | / | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency (MHz) | Meter Reading (dB μ V) | Factor (dB) | Emission Level (dB μ V/m) | Limits (dB μ V/m) | Margin (dB) | Detector Type |
|--------------------|----------------------------------|----------------|----------------------------------|--------------------------|----------------|------------------|
| 2310.00 | 56.93 | -5.81 | 51.12 | 74 | -22.88 | peak |
| 2310.00 | / | -5.81 | / | 54 | / | AVG |
| 2390.00 | 55.42 | -5.84 | 49.58 | 74 | -24.42 | peak |
| 2390.00 | / | -5.84 | / | 54 | / | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



Horizontal (Worst case)

| Frequency (MHz) | Meter Reading (dB μ V) | Factor (dB) | Emission Level (dB μ V/m) | Limits (dB μ V/m) | Margin (dB) | Detector Type |
|--------------------|----------------------------------|----------------|----------------------------------|--------------------------|----------------|------------------|
| 2483.50 | 56.78 | -5.81 | 50.97 | 74 | -23.03 | peak |
| 2483.50 | / | -5.81 | / | 54 | / | AVG |
| 2500.00 | 55.23 | -6.06 | 49.17 | 74 | -24.83 | peak |
| 2500.00 | / | -6.06 | / | 54 | / | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency (MHz) | Meter Reading (dB μ V) | Factor (dB) | Emission Level (dB μ V/m) | Limits (dB μ V/m) | Margin (dB) | Detector Type |
|--------------------|----------------------------------|----------------|----------------------------------|--------------------------|----------------|------------------|
| 2483.50 | 56.13 | -5.81 | 50.32 | 74 | -23.68 | peak |
| 2483.50 | / | -5.81 | / | 54 | / | AVG |
| 2500.00 | 55.72 | -6.06 | 49.66 | 74 | -24.34 | peak |
| 2500.00 | / | -6.06 | / | 54 | / | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.



NO hopping

Operation Mode: TX CH Low (2402MHz)

Horizontal (Worst case)

| Frequency (MHz) | Meter Reading (dB μ V) | Factor (dB) | Emission Level (dB μ V/m) | Limits (dB μ V/m) | Margin (dB) | Detector Type |
|--------------------|----------------------------------|----------------|----------------------------------|--------------------------|----------------|------------------|
| 2310.00 | 57.16 | -5.81 | 51.35 | 74 | -22.65 | peak |
| 2310.00 | / | -5.81 | / | 54 | / | AVG |
| 2390.00 | 56.59 | -5.84 | 50.75 | 74 | -23.25 | peak |
| 2390.00 | / | -5.84 | / | 54 | / | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency (MHz) | Meter Reading (dB μ V) | Factor (dB) | Emission Level (dB μ V/m) | Limits (dB μ V/m) | Margin (dB) | Detector Type |
|--------------------|----------------------------------|----------------|----------------------------------|--------------------------|----------------|------------------|
| 2310.00 | 57.62 | -5.81 | 51.81 | 74 | -22.19 | peak |
| 2310.00 | / | -5.81 | / | 54 | / | AVG |
| 2390.00 | 56.43 | -5.84 | 50.59 | 74 | -23.41 | peak |
| 2390.00 | / | -5.84 | / | 54 | / | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



Operation Mode: TX CH High (2480MHz)

Horizontal (Worst case)

| Frequency (MHz) | Meter Reading (dB μ V) | Factor (dB) | Emission Level (dB μ V/m) | Limits (dB μ V/m) | Margin (dB) | Detector Type |
|--------------------|----------------------------------|----------------|----------------------------------|--------------------------|----------------|------------------|
| 2483.50 | 57.19 | -5.81 | 51.38 | 74 | -22.62 | peak |
| 2483.50 | / | -5.81 | / | 54 | / | AVG |
| 2500.00 | 56.74 | -6.06 | 50.68 | 74 | -23.32 | peak |
| 2500.00 | / | -6.06 | / | 54 | / | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency (MHz) | Meter Reading (dB μ V) | Factor (dB) | Emission Level (dB μ V/m) | Limits (dB μ V/m) | Margin (dB) | Detector Type |
|--------------------|----------------------------------|----------------|----------------------------------|--------------------------|----------------|------------------|
| 2483.50 | 56.07 | -5.81 | 50.26 | 74 | -23.74 | peak |
| 2483.50 | / | -5.81 | / | 54 | / | AVG |
| 2500.00 | 55.16 | -6.06 | 49.1 | 74 | -24.9 | peak |
| 2500.00 | / | -6.06 | / | 54 | / | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.



3.3. MAXIMUM PEAK CONDUCTED OUTPUT POWER

Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Test Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power sensor.

Test Configuration



Test Results

| Type | Channel | Output power (dBm) | Limit (dBm) | Result |
|---------------|---------|--------------------|-------------|--------|
| GFSK | 00 | 5.128 | 21.00 | Pass |
| | 39 | 4.953 | | |
| | 78 | 5.025 | | |
| $\pi/4$ DQPSK | 00 | 4.867 | 21.00 | Pass |
| | 39 | 4.262 | | |
| | 78 | 4.586 | | |
| 8DPSK | 00 | 4.934 | 21.00 | Pass |
| | 39 | 3.781 | | |
| | 78 | 4.509 | | |

Note: 1.The test results including the cable lose.



3.4. 20DB BANDWIDTH

Limit

For frequency hopping systems operating in the 2400MHz-2483.5MHz no limit for 20dB bandwidth.

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30 KHz RBW and 100 KHz VBW.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

RBW=1% to 5% of the OBW

VBW=approximately 3 X RBW

Detector=Peak

Trace Mode: Max Hold

Use the 99% power bandwidth function of the instrument to measure the Occupied Bandwidth and recoded.

Test Configuration



Test Results

| Modulation | Channel | 20dB bandwidth (MHz) | Result |
|---------------|---------|----------------------|--------|
| GFSK | CH00 | 0.9476 | Pass |
| | CH39 | 0.9256 | |
| | CH78 | 0.9273 | |
| $\pi/4$ DQPSK | CH00 | 1.250 | Pass |
| | CH39 | 1.216 | |
| | CH78 | 1.260 | |
| 8DPSK | CH00 | 1.235 | Pass |
| | CH39 | 1.245 | |
| | CH78 | 1.238 | |

Test plot as follows:

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20dB bandwidth

GFSK Modulation



*π/4DQPSK Modulation*

CH00



CH39



CH78

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8DPSK Modulation



CH00



CH39



CH78

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3.5. FREQUENCY SEPARATION

LIMIT

Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25 KHz or the 2/3*20dB bandwidth of the hopping channel, whichever is greater.

TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 300 KHz RBW and 1000 KHz VBW.

TEST CONFIGURATION



TEST RESULTS

| Modulation | Channel | Channel Separation (MHz) | Limit(MHz) | Result |
|---------------|----------------|--------------------------|--------------------|--------|
| GFSK | Middle Channel | 1.000 | 2/3*20dB bandwidth | Pass |
| $\pi/4$ DQPSK | Middle Channel | 1.000 | 2/3*20dB bandwidth | Pass |
| 8DPSK | Middle Channel | 1.000 | 2/3*20dB bandwidth | Pass |

Note: We have tested all mode at high, middle and low channel, and recorded worst case at middle.

Test plot as follows:



Frequency Separation



GFSK



π/4DQPSK



8DPSK

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3.6. NUMBER OF HOPPING FREQUENCY

Limit

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

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. Set spectrum analyzer start 2400MHz to 2483.5MHz.

Test Configuration



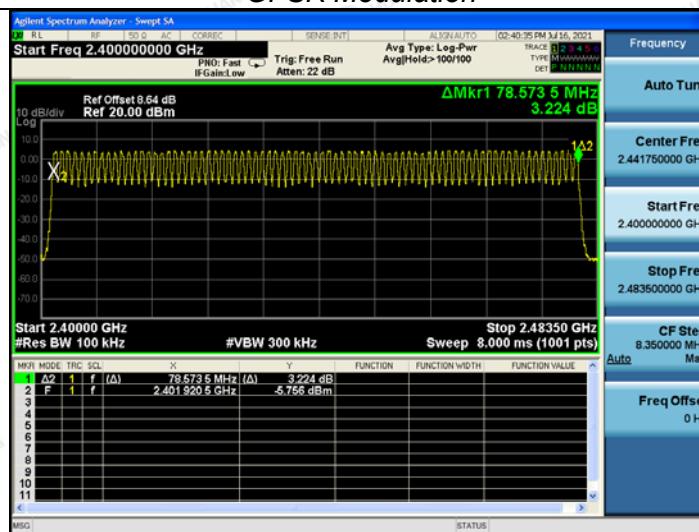
Test Results

| Modulation | Number of Hopping Channel | Limit | Result |
|---------------|---------------------------|-----------|--------|
| GFSK | 79 | ≥ 15 | Pass |
| $\pi/4$ DQPSK | 79 | | |
| 8DPSK | 79 | | |

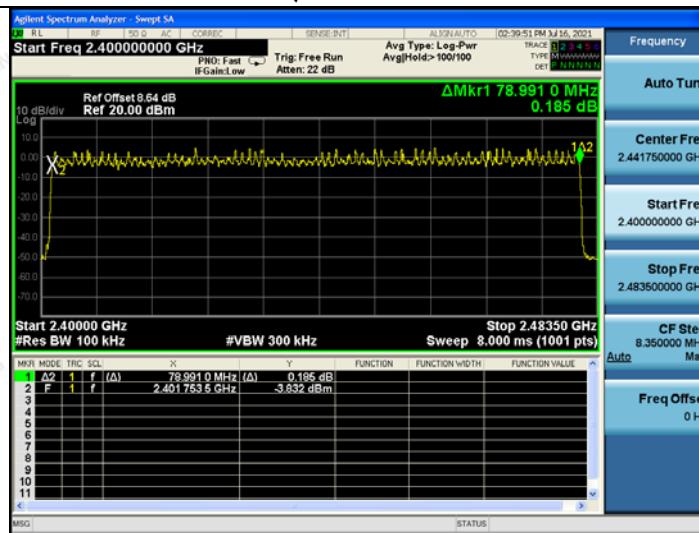
Test plot as follows:



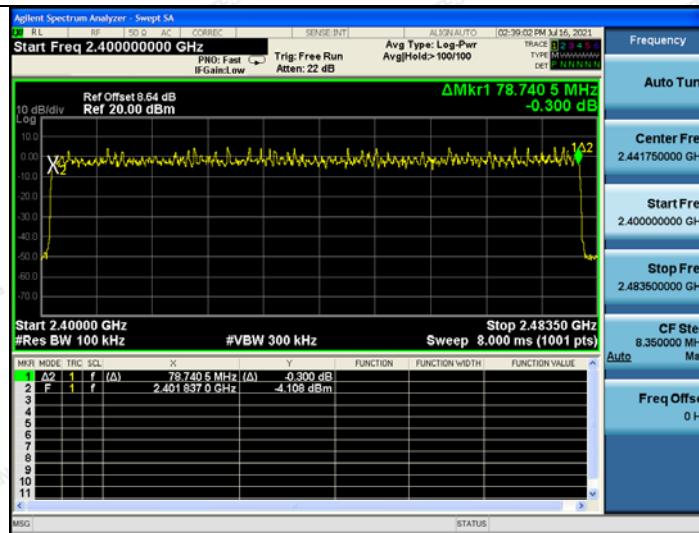
GFSK Modulation



π/4DQPSK Modulation



8DPSK Modulation



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3.7. 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.

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. Set center frequency of spectrum analyzer=operating frequency with 1MHz RBW and 3MHz VBW, Span 0Hz.

Test Configuration



Test Results

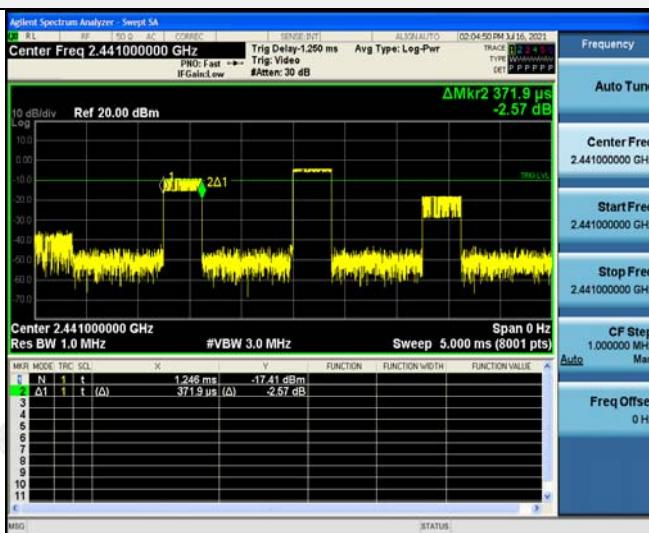
| Modulation | Packet | Pulse time (ms) | Dwell time (second) | Limit (second) | Result |
|---------------|--------|-----------------|---------------------|----------------|--------|
| GFSK | DH1 | 0.37 | 0.118 | 0.40 | PASS |
| | DH3 | 1.62 | 0.259 | | |
| | DH5 | 2.87 | 0.306 | | |
| $\pi/4$ DQPSK | 2-DH1 | 0.38 | 0.122 | 0.40 | PASS |
| | 2-DH3 | 1.63 | 0.261 | | |
| | 2-DH5 | 2.88 | 0.307 | | |
| 8DPSK | 3-DH1 | 0.38 | 0.122 | 0.40 | PASS |
| | 3-DH3 | 1.63 | 0.261 | | |
| | 3-DH5 | 2.88 | 0.307 | | |

Note:

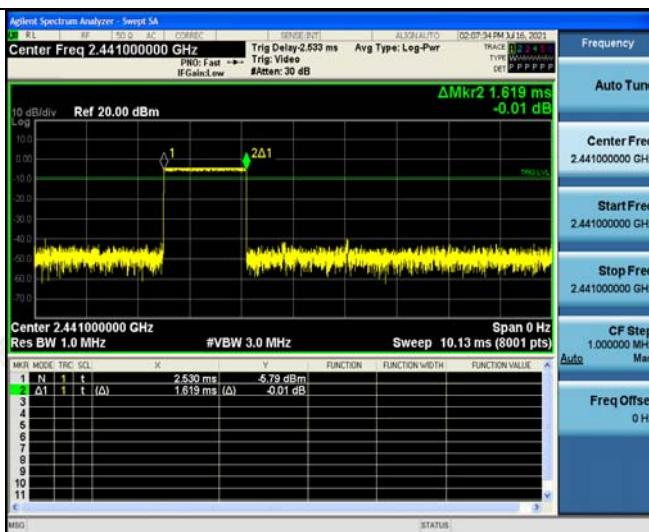
1. We have tested all mode at high, middle and low channel, and recorded worst case at middle channel.
2. Dwell time=Pulse time (ms) \times $(1600 \div 2 \div 79) \times 31.6$ Second for DH1, 2-DH1, 3-DH1
Dwell time=Pulse time (ms) \times $(1600 \div 4 \div 79) \times 31.6$ Second for DH3, 2-DH3, 3-DH3
Dwell time=Pulse time (ms) \times $(1600 \div 6 \div 79) \times 31.6$ Second for DH5, 2-DH5, 3-DH5

Test plot as follows:

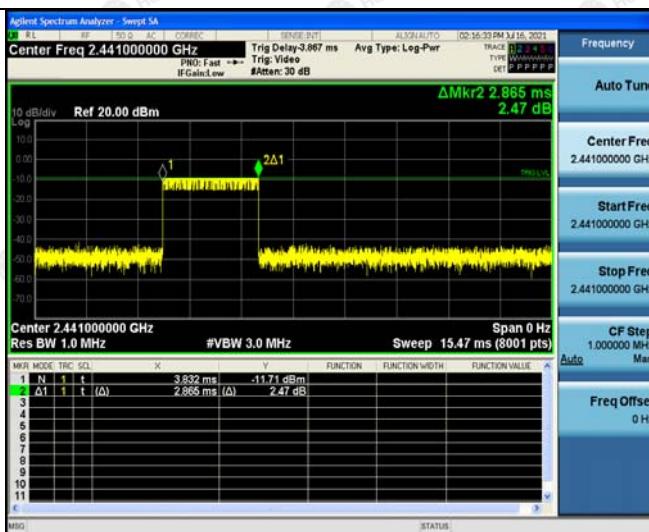
GFSK Modulation



DH1



DH3

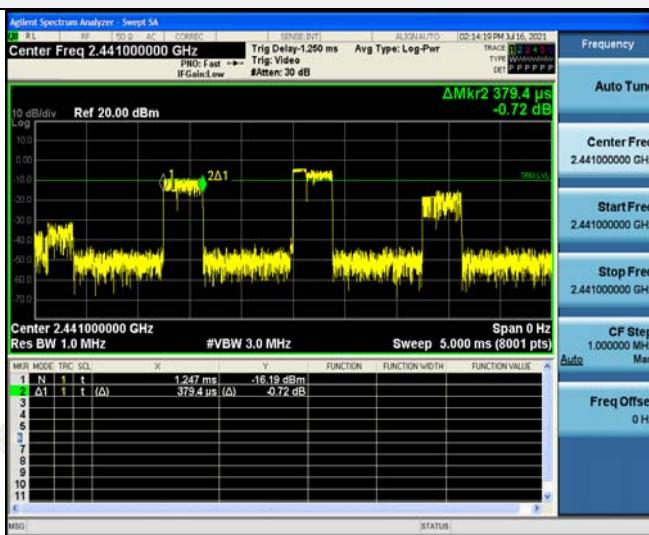


DH5

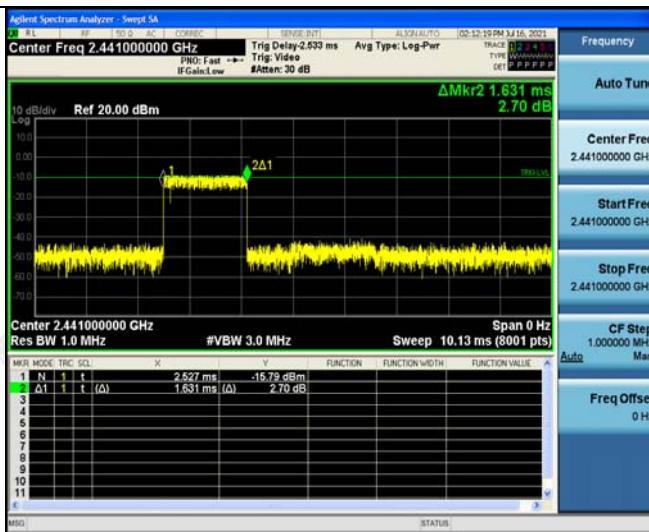
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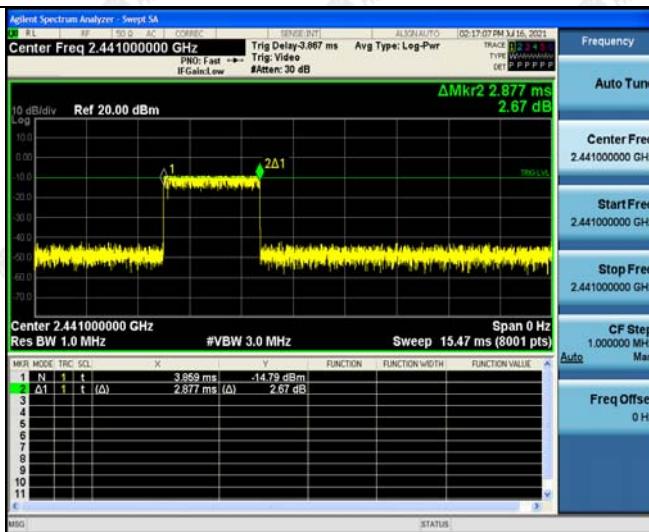
π/4DQPSK Modulation



2-DH1

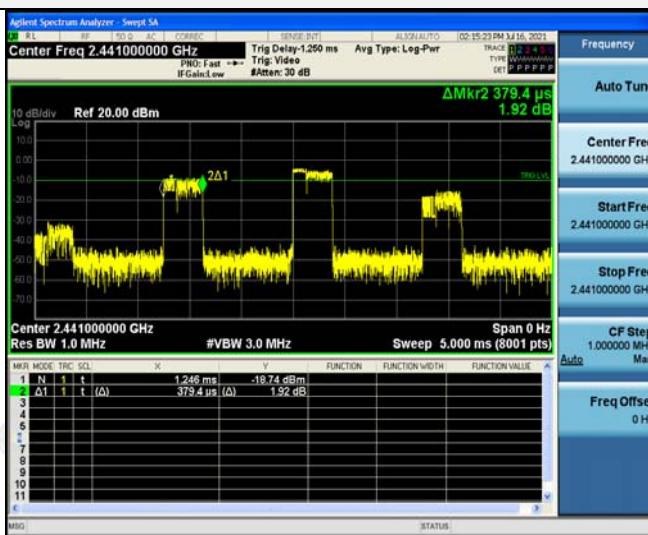


2-DH3

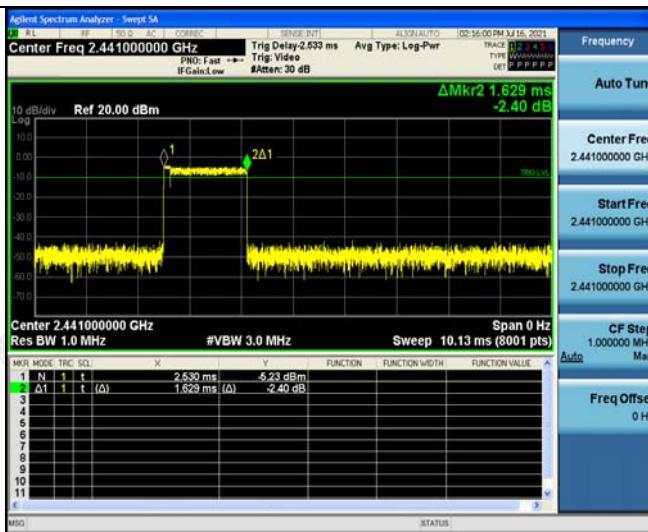




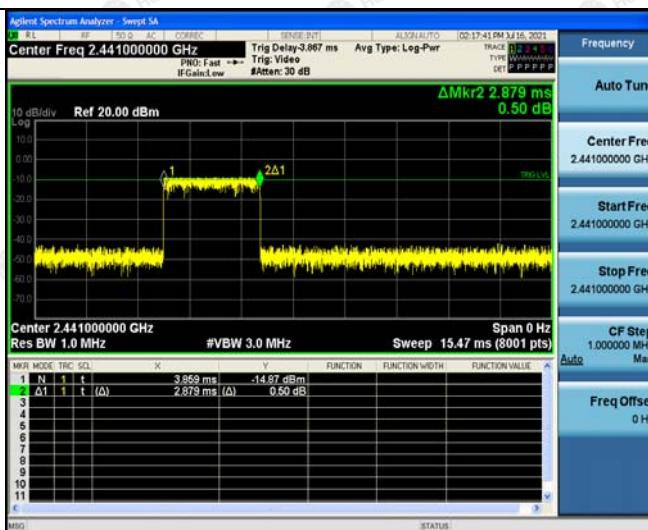
8DPSK Modulation



3-DH1



3-DH3



3-DH5

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3.8. OUT-OF-BAND EMISSIONS

Limit

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 any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

Test Procedure

Connect the transmitter output to spectrum analyzer using a low loss RF cable, and set the spectrum analyzer to RBW=100 kHz, VBW= 300 kHz, peak detector , and max hold. Measurements utilizing these setting are made of the in-band reference level, band edge and out-of-band emissions.

Test Configuration



Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandage measurement data.

We measured all conditions (DH1, DH3, DH5) and recorded worst case at DH5, 2DH5 and 3DH5.

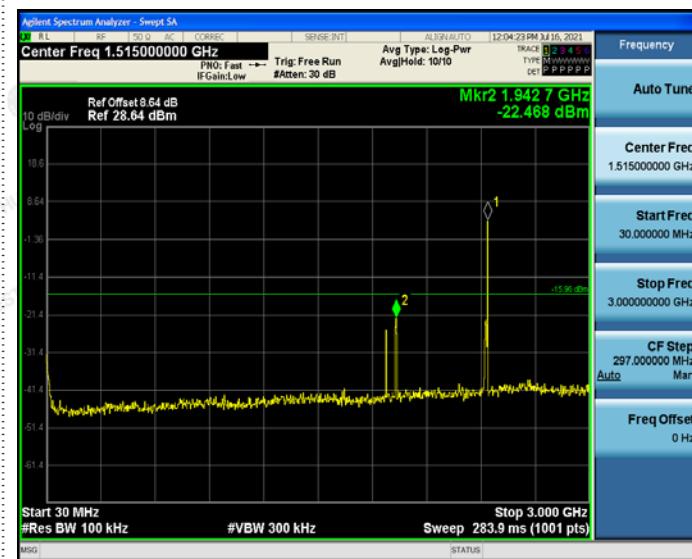
Test plot as follows:



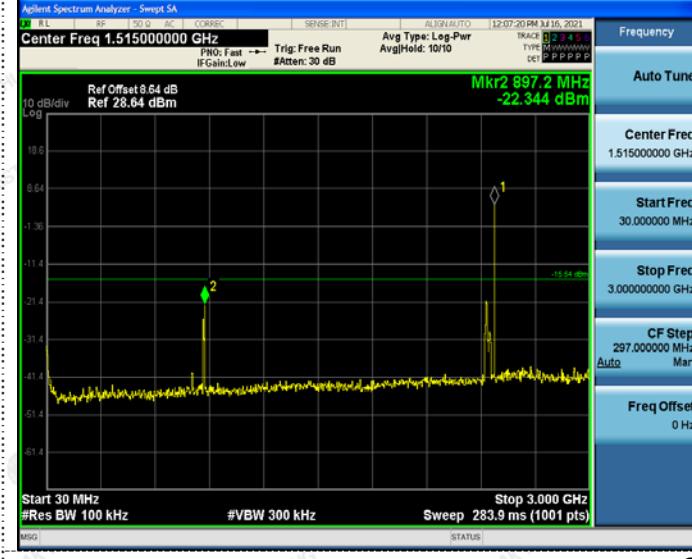
GFSK



CH00

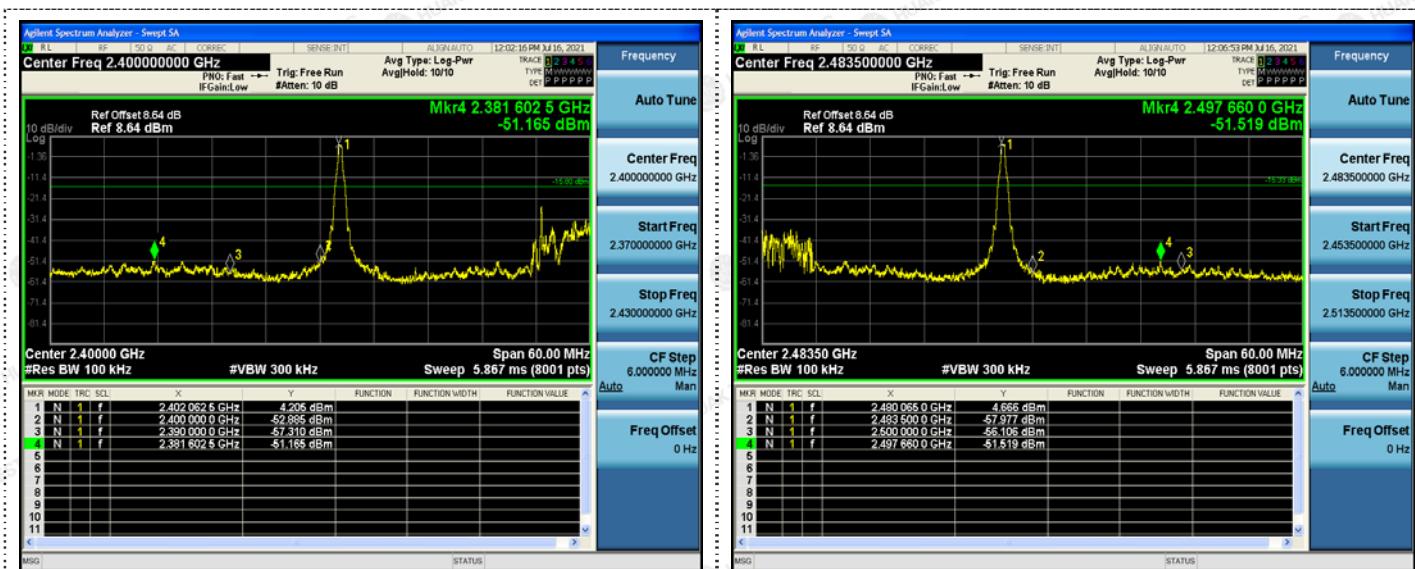


CH39

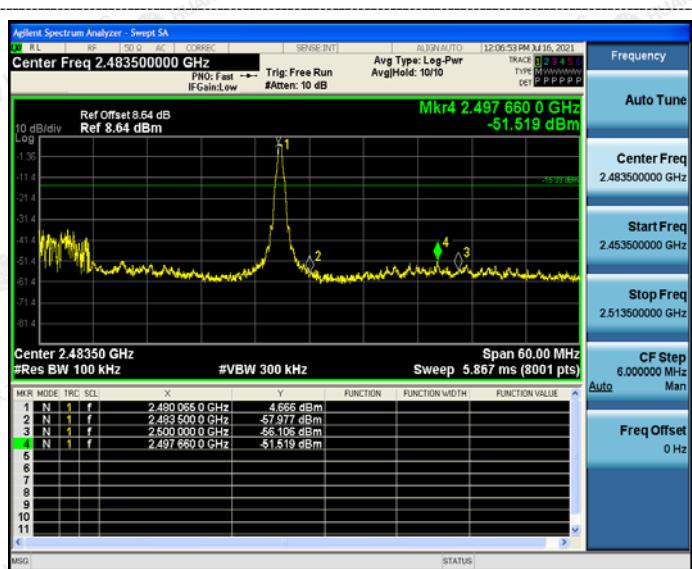


CH78

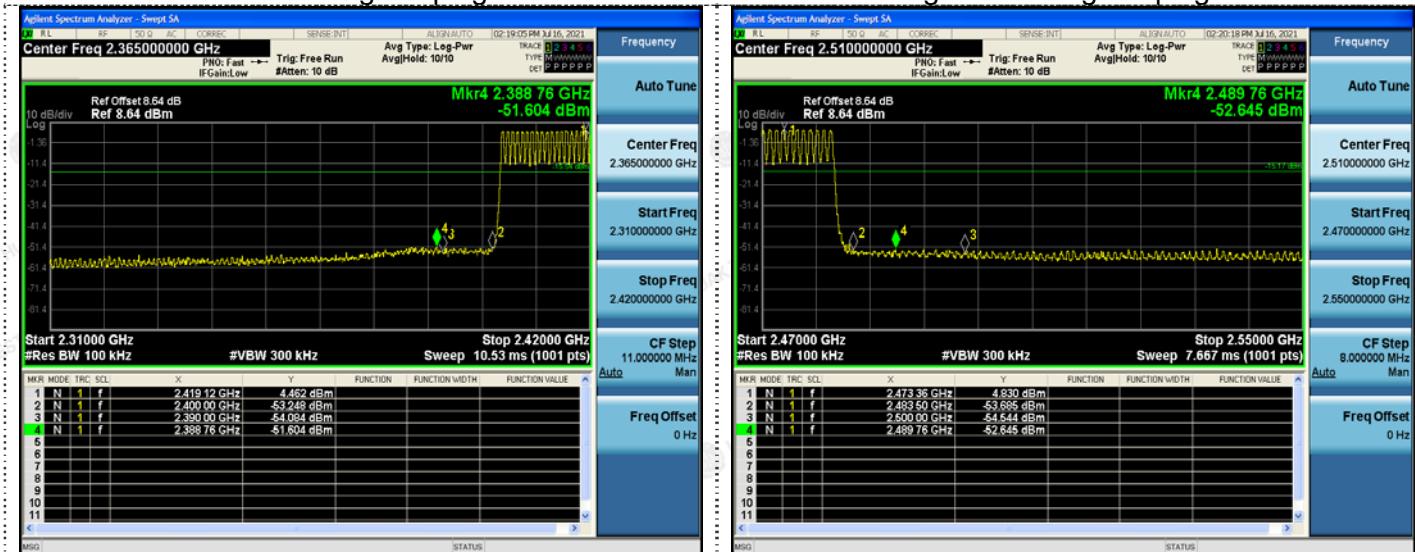
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Left Band edge hoping off

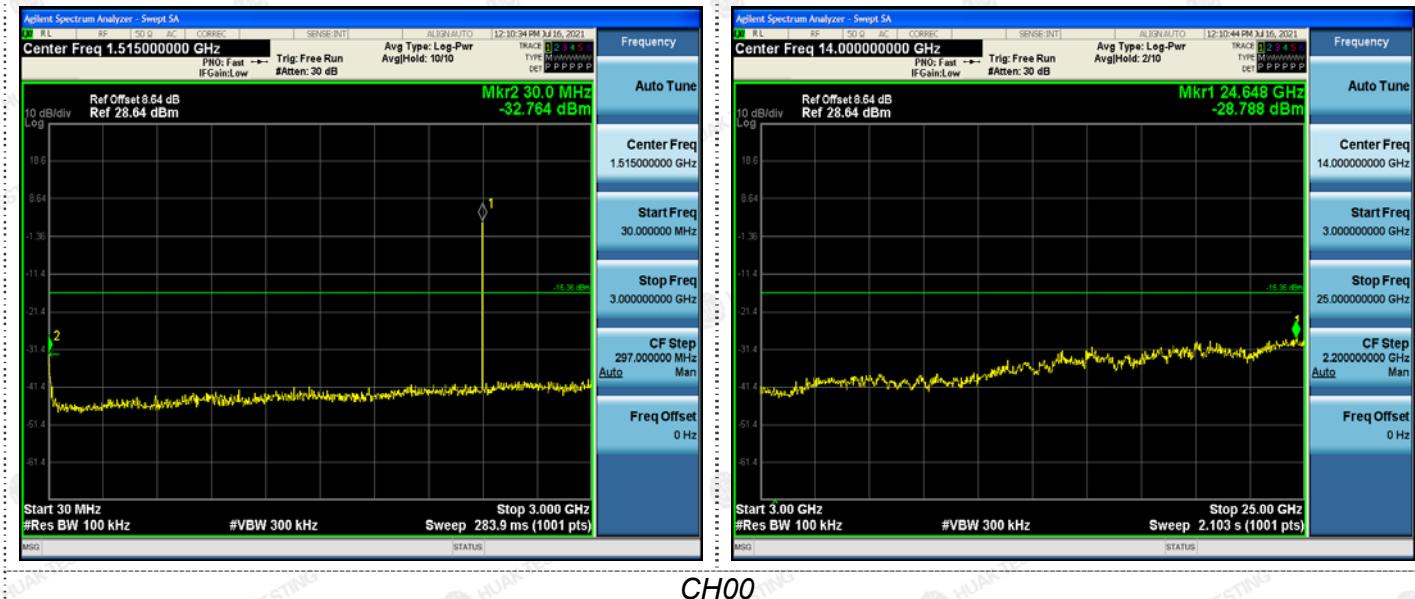


Right Band edge hoping off



Left Band edge hoping on

Right Band edge hoping on

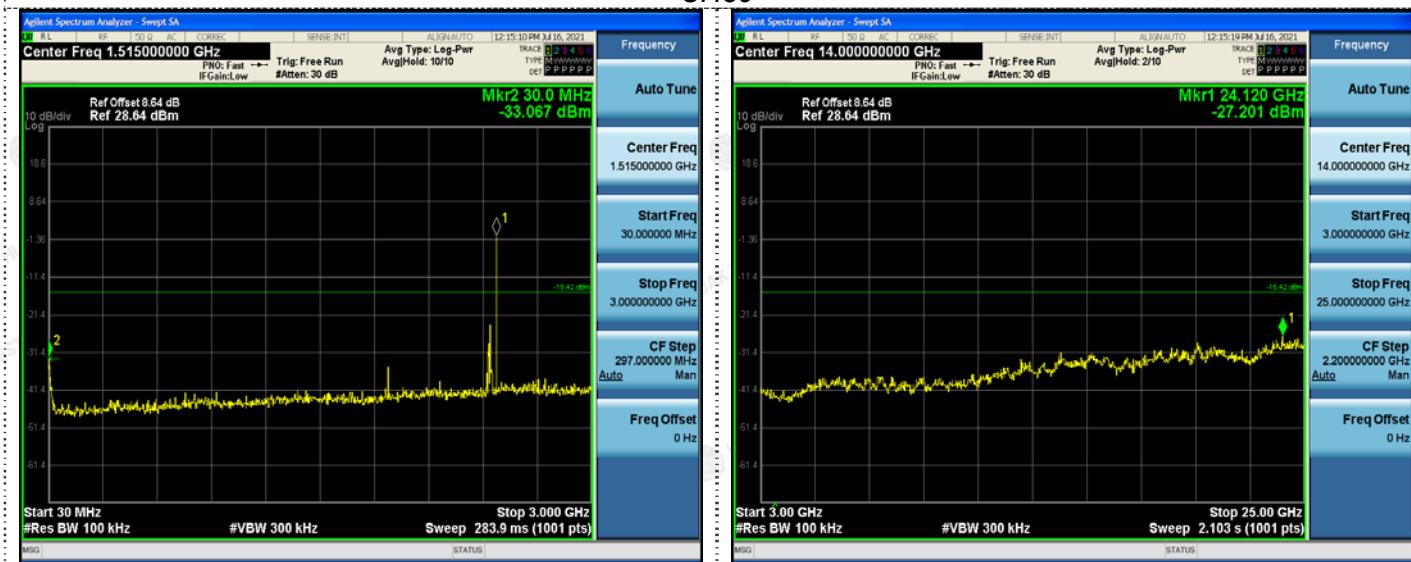
TT/4DQPSK

CH00

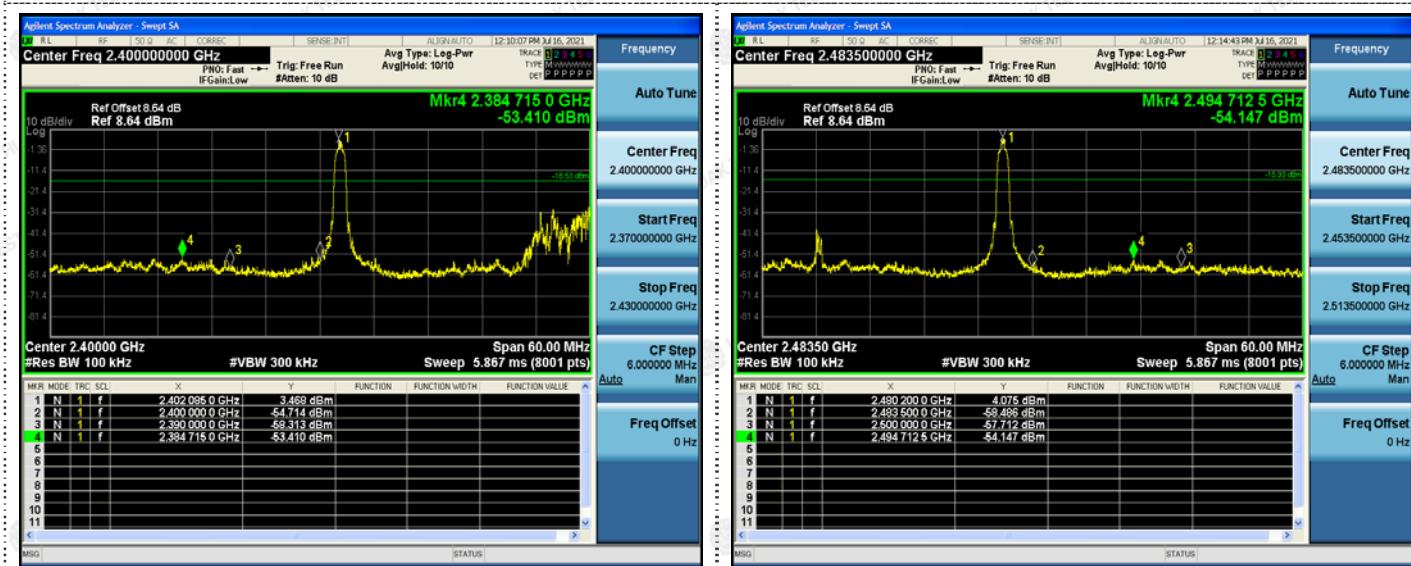
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CH39



CH78



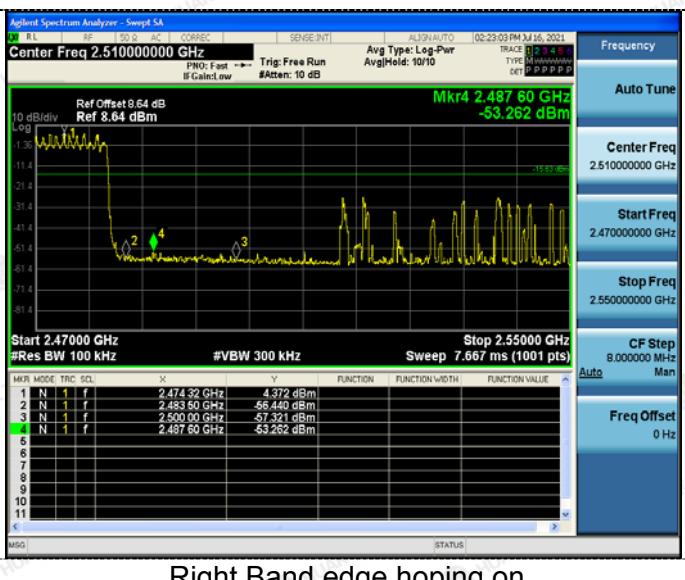
Left Band edge hoping off

Right Band edge hoping off

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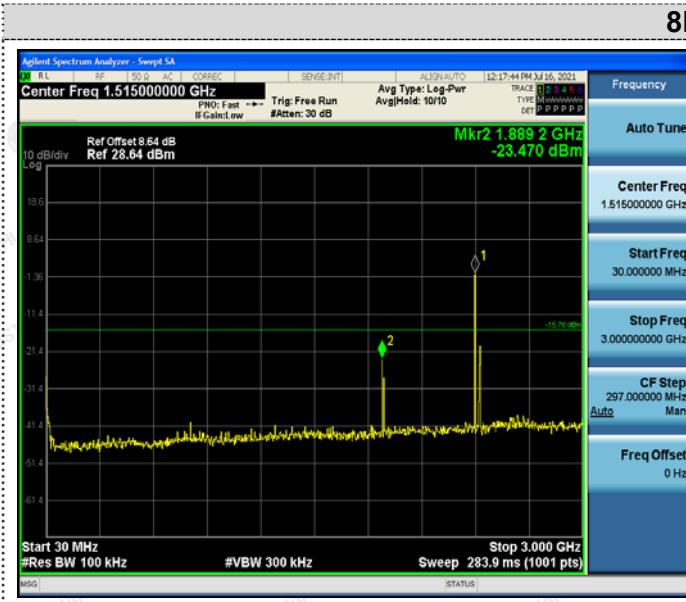


Left Band edge hoping on

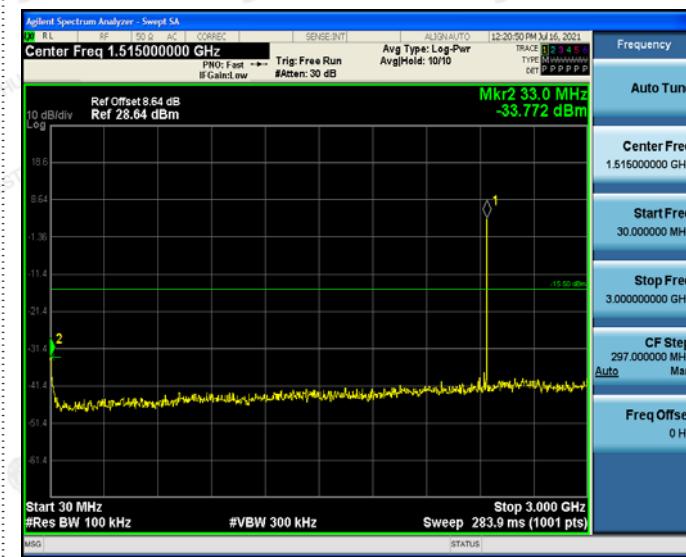


Right Band edge hoping on

8DPSK



CH00



CH39

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3.9. PSEUDORANDOM FREQUENCY HOPPING SEQUENCE

TEST APPLICABLE

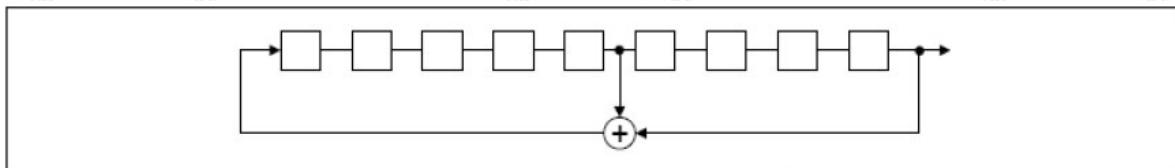
For 47 CFR Part 15C section 15.247 (a) (1):

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

EUT Pseudorandom Frequency Hopping Sequence Requirement

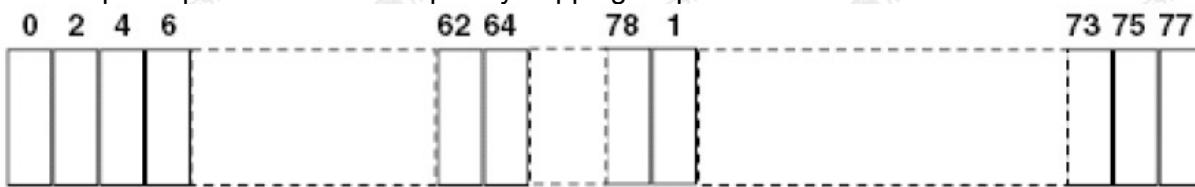
The pseudorandom frequency hopping sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones, for example: the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: $2^9 - 1 = 511$ bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of pseudorandom frequency hopping sequence as follows:



Each frequency used equally one the average by each transmitter.

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



3.10. ANTENNA REQUIREMENT

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, 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. And according to FCC 47 CFR Section 15.247, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

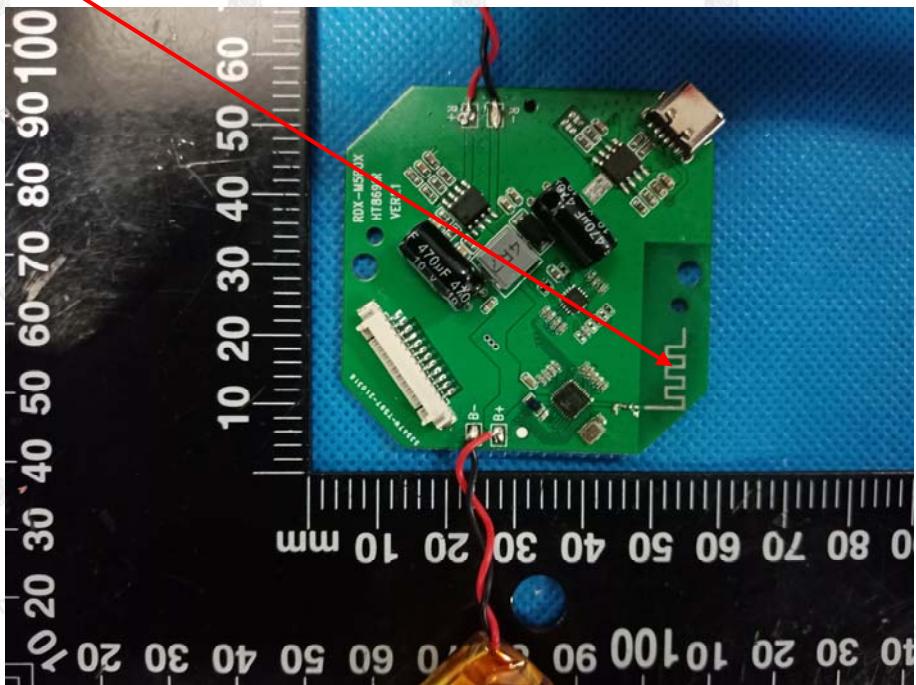
Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

The antenna used in this product is a PCB Antenna, which permanently attached. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 0dBi.

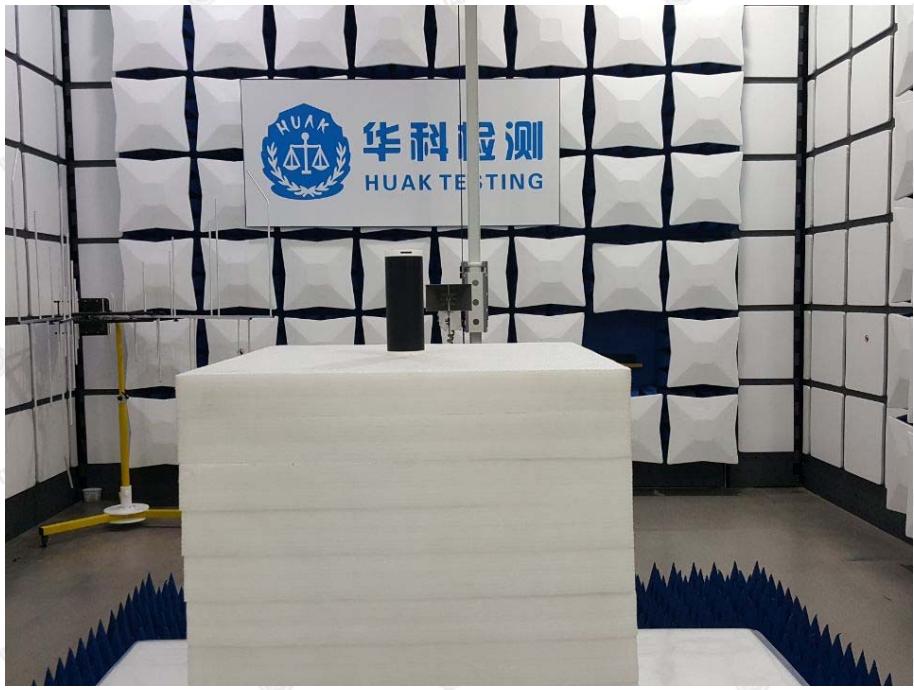
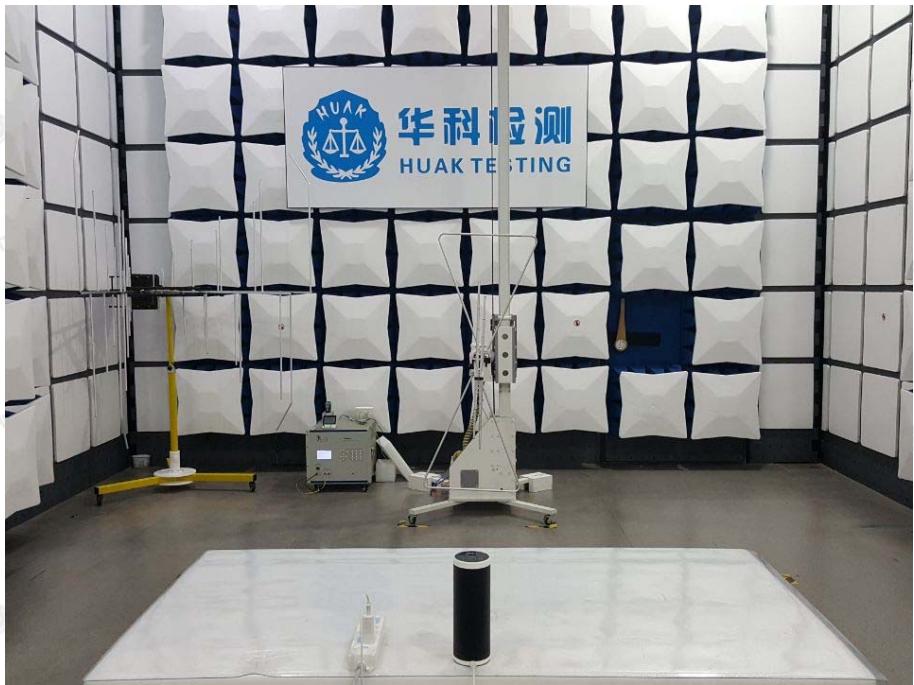
ANTENNA





4. TEST SETUP PHOTOS OF THE EUT

Radiated Emissions



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**Conducted Emission**

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1-2/F, Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



5. PHOTOS OF THE EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos.

-----End of test report-----